

23-041A

January 3, 2011

Ms. Linda Chiarelli, Senior Vice President
Deputy Director of Construction
Forest City Ratner Companies
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Mr. Joseph M. Lawlor, Vice President (By Hand)
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d/b/a Empire State Development Corporation,
as Lease Administrator
633 Third Avenue
New York, New York 10017
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Re: New Nets Arena
Barclays Center and Transit Connection
Brooklyn, New York

Dear Ms. Chiarelli, Mr. Lawlor, and Ms. Hankin:

Enclosed is our Site Observation Report 8 for the referenced project, based on our visit of November 23, 2010. James G. Cockinos, AIA, Senior Associate, performed the observation and prepared the report.

Please refer to **Section II - "Executive Summary"** for a brief overview of the project.

M_&H

If you have any questions regarding this report, please call.

Very truly yours,

MERRITT & HARRIS, INC.



James G. Cockinos, AIA
Senior Associate
Group Leader Construction Monitoring

JGC:eb
Enclosure

cc: Forest City Ratner Companies

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Manny P. Kratsios

**NEW NETS ARENA
BARCLAYS CENTER AND TRANSIT CONNECTION
BROOKLYN, NEW YORK**

SITE OBSERVATION REPORT 8

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SECTION I - IDENTIFICATION

**Project Name
and Location:**

New Nets Arena
Barclays Center and Transit Connection
Brooklyn, New York

Improvements:

The construction of a new 8-level, approximately 670,000 sq. ft., 18,103-seat capacity enclosed state-of-the-art sports arena for the National Basketball Association's professional basketball team, the New Jersey Nets, with 105 suites overall. An underground transit connection from the existing subway station to the Arena plaza, and site work (landscaping, trees, sidewalks, bollards, etc.) in front of and surrounding the Arena, in addition to the 4th Avenue reconfiguration are also to be constructed.

Prepared For:

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Architect of Record:	Ellerbe Becket Architects and Engineers, P.C. 2380 Mc Gee, Suite 200 Kansas City, Missouri 64108
Structural Engineers:	Thornton Tomasetti 51 Madison Avenue New York, New York 10010
Mechanical/Electrical/ Plumbing/Fire Protection Engineers:	WSP Flack + Kurtz 512 7 th Avenue New York, New York 10018
Building Codes/Life Safety:	FP&C Consultants One Ward Parkway Kansas City, Missouri 64112
Seismic Engineers:	Mueser Rutledge Consulting Engineers 14 Penn Plaza - 225 West 34 th Street New York, New York 10122
Arena Design Architects:	SHoP Architects, P.C. 11 Park Place Penthouse New York, New York 10007
Civil Engineers: (Site Work Design)	Stantec Consulting Services, Inc. 50 West 23 rd Street, 8 th Floor New York, New York 10010
Construction Manager (Transit Connection):	Turner Construction Company 375 Hudson Street, 6 th Floor New York, New York 10014 Rick Salaway, <i>Senior Project Manager</i> Phone: 212.229.6000 E-mail: rsalaway@tcco.com Chuck Baldwin, LEED AP, <i>Project Manager</i> Phone: 212.229.6000 Mobile: 603.944.3474 E-mail: cbaldwin@tcco.com
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Observation and Report By:	James G. Cockinos, AIA, <i>Senior Associate</i>

**Present During
Site Observation:**

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Rob Tarulli
Greg Lowe
Eileen Weingarten
Rebecca D'Eloia
Jennifer Dominguez,
Sherveen Baftechi,
Lauren Du
Linda Chiarelli,

Hunt Construction

H. Mark Gladden
Jon Anthony
Scott Hamburg

**Date of Site
Observation:**

November 23, 2010

**Date of Previous
Site Observation:**

October 28, 2010

**Date of Draft
Review:**

December 1, 2010

**Date of Next
Site Observation:**

December 21, 2010

SECTION II - EXECUTIVE SUMMARY

This section is intended to be a brief overview of the project, based on our current site visit. Please read the report in its entirety for a complete understanding of our comments and opinions as presented herein.

Conformance to Plans and Specifications and Workmanship

Construction Documents (Drawing Volumes 1 - 6, Specification Volumes 1 - 3) marked "Not for Construction," dated July 31, 2009, were provided for our review; 60% CD drawings, dated to include the Arena façade have been made available. The CD drawings for pricing, dated August 13, 2010, have been made available as of August 18, 2010.

The 100% Construction Documents, dated October 15, 2010, have been submitted.

Revisions and additions in the Arena to support enhancements in program, services, MEP infrastructure and interior finishes along with comments received by the Design Architect, the Developer, and the NBA are to be incorporated into the Construction Documents and an updated set will be submitted by December 22, 2010.

Mass Transit Improvement documents (plans and specifications Volumes 1 - 5) labeled "90% Submission," dated August 28, 2009, were provided for our review. The updated Construction Documents marked "100% – Final Modifications," dated April 8, 2010, with Addendums 1- 7 have been submitted.

The work is proceeding in general accordance with the plans, specifications, and other pertinent documents that we have reviewed to date.

The overall quality of workmanship is good.

Summary of Hunt GMP Costs

Arena

The following summary is based upon the General Contractor's Application and Certificate for Payment 11, covering the period through November 30, 2010:

Current Contract Value (Design/Build with GMP)		\$470,587,594
Total Work Completed and Stored to Date	12.8%	\$ 60,343,998
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 6,216,387 *
* Current Payment Due includes Hard Costs (\$4,712,497), GC/CM Fee (\$1,095,219), and associated A/E Soft Costs (\$408,671)		

In our opinion, the remaining Contract Value funds of \$410,243,596 (net of retainage), together with the remaining Developer's Arena Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The Guaranteed Maximum Price (GMP) was based on the "Scope Set" drawings, dated July 31, 2009.

Transit Connection

The following summary is based upon the General Contractor's Application and Certificate for Payment 4, covering the period through November 30, 2010:

Current Contract Value (Lump Sum)		\$52,560,173
Total Work Completed and Stored to Date	18.0%	\$ 9,474,798
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,092,440

In our opinion, the remaining Contract Value funds of \$43,085,375 and the Developer's Design/Scope Contingency are sufficient to complete the work as it is currently defined.

Summary of Total Project Hard Costs:

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Arena	\$503,956,625	\$68,622,268	\$6,012,164 *	\$74,634,432	14.8	\$429,322,193
Transit Connection	66,507,554	8,703,619	3,102,162	11,805,781	17.8	54,701,773
Arena Site Work	20,143,349	363,610	(848)	362,762	1.8	19,780,587
Arena Mitigation	<u>2,685,886</u>	<u>80,690</u>	<u>0</u>	<u>80,690</u>	3.0	<u>2,605,196</u>
Totals	\$593,293,414	\$77,770,187	\$9,113,478	\$86,883,665	14.6%	\$506,409,749

The \$9,113,478 being requested for these line items under the Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

* Current Request is part of the Hunt Construction Design-Build contract and includes the trades, GC/CM Fee Costs, and miscellaneous other Hard Costs.

Summary of Total Project Soft Costs

The following summary is based upon the Developer's Application and Certificate for Payment 8, covering the period through November 30, 2010:

Current Revised Budget		\$186,843,254
Total Amount Incurred to Date	84.1%	\$157,057,438
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,325,487

The overall Soft Cost budget includes the following Soft Cost related items:

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Arena	\$177,551,264	\$147,324,794	\$2,799,724	\$150,124,518	84.6	\$27,426,746
Transit Connection	5,461,197	3,378,367	376,223	3,754,590	68.8	1,706,607
Arena Site Work	3,784,332	2,999,339	149,540	3,148,879	83.2	635,453
Arena Mitigation	<u>46,461</u>	<u>29,451</u>	<u>0</u>	<u>29,451</u>	63.4	<u>17,010</u>
Totals	\$186,843,254	\$153,731,951	\$3,325,487	\$157,057,438	84.1	\$29,785,816

The \$3,325,487, being requested for these line items under the Developer's Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

In our opinion, the remaining budget funds of \$29,785,816, which include the remaining Development Contingency are sufficient to complete the work as it is currently defined.

Additional costs not included within the Hard or Soft Cost Requisition include the following:

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Accounts Payable (AP)	\$ 4,950,367 ⁽¹⁾	\$ 4,591,531	\$ (7,309)	\$ 4,584,222	92.6	\$366,145
Financing	<u>29,715,483⁽²⁾</u>	<u>29,713,221</u>	<u>0</u>	<u>29,713,221</u>	99.9	<u>2,262</u>
Totals	\$34,665,850	\$34,304,752	\$ (7,309)	\$ 34,297,443	98.9	\$ 368,407

(1) Costs incurred prior to closing

(2) Costs of financing

Summaries of Recommended Payment Due

<u>Description</u>	<u>Amount</u>
Hard Costs - Arena	\$6,012,163.90
Hard Costs - Transit Connection	3,102,161.82
Hard Cost - Site Work	(847.50)
Soft Costs	3,325,486.29
Accounts Payable (AP)	(7,309.72)
Financing	<u>0.00</u>
Total	\$12,431,654.79

Scheduled Completion

A High Level Arena Summary Construction Schedule, dated July 16, 2010, has been provided for our review. The current schedule, prepared by Hunt, indicates that substantial completion is anticipated to be by August 12, 2012. The Developer is currently reviewing that schedule and there is a meeting anticipated for mid-December to resolve current schedule disputes.

An early substantial completion date of June 1, 2012, has been established with the following criteria to be met:

- a. Owner may use and occupy the Arena
- b. Only punch list items remain
- c. The Architect of Record has issued a Certificate of Substantial Completion
- d. A TCO has been issued

Punch list work and Subcontractor close-outs may extend the construction term to a final completion date of February 28, 2013.

Based on our computerized progress chart which compares the cash flow amount to the projected construction progress, the project is currently slightly ahead of schedule.

Open Issues/Comments

No new issues have been discussed this period.

Resolved Issues

4.1 The following construction items are not critical in nature and are noted for monitoring purposes:

3. Stress crack on grade beam

Resolved: The stress crack on the grade beam has been repaved

SECTION III - PROJECT SCOPE

The following description is distilled from our Project Review Report, dated November 30, 2009, and is a snapshot of the project scope at that time. A more detailed description of the project scope is contained in our Project Review Report.

The Atlantic Yard Project will consist of the redevelopment of 6 full and 2 partial City Tax blocks including the Metropolitan Transportation Authority (MTA) bus yard and the Long Island Rail Road (LIRR) Vanderbilt rail yard in the Prospect Heights section of Brooklyn, New York.

The site for the proposed arena project is located at the intersection of Flatbush and Atlantic Avenues.

The proposed project will entail the construction of a new 8-level, approximately 670,000 sq. ft., 18,103-seat capacity enclosed state-of-the-art sports arena for the National Basketball Association's professional basketball team, the *Nets*, with 105 suites overall. The arena will also be used for hockey, concert events, and other theatrical presentations.

The arena will consist of 8 levels (Event, Mezzanine, Main Concourse, Lower Suite, Upper Suite, Upper Concourse, Mechanical Mezzanine, and Catwalk Levels) surrounding 2 structured octagonal-shaped seating bowls (lower and upper).

TV truck parking, loading dock facilities, and trash docks will be located on the east and southeast, as well as a central security command center, a truck turntable, and 2 truck elevators at the southeast corner of the level. A flight of stairs on this corner of the level leads up to a small mezzanine which will contain the electrical switchgear room and several electrical compartments. Press work and dining facilities will be located on the northeast corner.

The foundations will be individual, reinforced concrete, spread column footings, grade beams, continuous strip wall footings, foundation walls, elevator pits, pool pits, turntable pit, and truck elevator pit.

Typical floors will consist of concrete fill, reinforced with #4 or #6 bars at 12" on center, bottom and top bars parallel to the span and #4 or #6 bars at 12" on center top perpendicular to the span, on 3"-deep, 18- or 20-gauge composite steel floor deck. The slabs will have a total thicknesses of 5½", 7½", or 12". They will be supported on rolled-shape structural steel floor beams, girders, and columns. Beams and girders will be provided with welded, headed, shear studs for composite action. Rolled-shape structural steel columns will support the girders and transfer gravity (vertical) loads to the foundation. The girders, columns, and bracing members comprise the braced bents.

A central heating plant will consist of 2 natural gas-fired 400 BHP water tube boilers (Unilux as standard). The heating hot water will be distributed using these 680-gpm circulating pumps (1 is a standby) to serve the arena. The hot water supply and return piping will run horizontally to the service corridor in the Event Level. This main will split into 2 supply and return branch main pipes. One set will serve Quadrants A and D, and the other set will serve Quadrants B and C, to feed AHUs in the respective quadrants.

Three 1,000-ton cooling towers (BAC as standard), totaling 3,000 tons, will be installed on the practice court roof. The cooling towers are sized to include a capacity of 300 tons for the Ice Floor Refrigeration Plant. The central condenser water system will provide sand filter filtration and chemical treatment systems.

A waterside economizer system will be installed that consists of a Plate and Frame Heat Exchanger and pumps. Indirect water circulation of the chilled water and condenser water will provide 1,200 tons of cooling capacity when ambient temperatures are appropriate to affect economizer cooling.

Three 900-ton centrifugal chillers (York as standard) for a total of 2,700 tons of cooling will be installed.

The Arena Bowl and Suites will be heated and cooled by 4 VAV draw-through AHUs and VAV boxes, to be supplied with chilled water and heating hot water by a central chilled water and heating hot water plant. Other areas will be provided with DX AC units, HVAC units, fan coil units, cabinet unit heaters, unit heaters, and H & V units exhaust, return, and pressurization fans are installed. The units will be installed in the Upper Mezzanine Mechanical Equipment Room. Each unit will deliver 90,000 CFM of conditioned air that will be distributed utilizing a main loop duct installed adjacent to the catwalk, and with drum louvers mounted on vertical plenum ducts.

Five combined storm and sanitary house sewers will exit the project to connect into the city combined sewer system (four 15" and one 10" combined sewers).

Roof drains will collect the storm water, conducted down in 4 leaders to drain into 3 below-ground storm retention tanks (by others). Tank overflow lines will be piped to the sewer system. A duplex storm water discharge pump will be installed in Quadrant A retention tank and a triplex pump set will be installed in the B/A retention tank that will discharge overflow storm water to the combined sewer system.

The sanitary system will include toilet facilities, saunas, hydrotherapy rooms, kitchens, concessions, prep areas, truck docks, and floor drains in mechanical spaces, laundry areas, locker rooms, bathrooms, and other areas. A duplex ejector pump set will be installed in the mechanical room pit, located under hydro and whirlpool rooms. Waste from the kitchens and food concessions will drain into grease interceptors, and then into the building sanitary system. Sanitary waste from the building will be gathered at the Event Level and will leave the building at 5 locations to connect into the street combined sewers.

A 6" water service from Flatbush Avenue will enter into Quadrant E, equipped with a water meter and double check valve backflow preventer assembly. It will supply water to a 5,000-gal. steel suction tank. Domestic water to the project will be pressure boosted by a quadruplex pump set.

An existing electric utility vault exists at the property line that is available for possible future utility transformers is installed by the utility company. Electric service will be provided by 265/460-volt, 3-phase, 4-wire secondary power to the arena. Four metered main service switchboards, each rated at 4,000-amperes will serve the project.

The Arena Event Sports lighting will be served from 2 dedicated risers. The power will be distributed to 4 locations on the catwalk to 1,000-watt clear metal halide sports lighting fixtures mounted on the catwalk handrails and capable of achieving temporary "blackout" by means of a shutter system without extinguishing the lamp. Emergency power will be provided in addition to the normal Event Lighting Power to supply 20% of the arena lighting fixtures and 50% of aisle light fixtures for emergency egress lighting. Arena aisle lighting will be theatrical 575-watt incandescent fixtures, with rotating shutter assembly, mounted on the catwalk handrails.

Automatic sprinklers will provide protection in all areas of the building with the exception of the seating bowl. The main building will be separated into 4 sprinkler zones on each floor level. Each automatic sprinkler zone control station will include a zone isolation valve with tamper switch, check valve, flow control switch, pressure gauge, and test and drain assembly.

There will be a combination fire standpipe/sprinkler standpipes for the 4 zones fed from a 6" fire protection loop at Event Level 1.

A 90 psi, 1,000-gpm, electric-powered fire pump and an electric jockey pump will supply a 6" fire protection water loop routed around the ceiling of Event Level 1 to supply water to combination standpipes in each of the 4 stair towers of the building.

A diesel generator supplies emergency power to the life safety circuits will include: fire alarm system, smoke exhaust and supply fans, elevators, 1 elevator in each bank at a time, fire and jockey pumps; arena air handling units, emergency and exit lights, stair pressurization fans and boilers.

The energy management system for the Arena will be a microprocessor-based, direct digital control (DDC), building management system. It will monitor, control, and optimize the operation of the HVAC system. The system is the main system for the arena Block complex and will control and monitor distributed subpanels located in each of the 4 towers and central plant. The system head end will be located in the Engineer's office in the arena.

Transit Connection

The work will consist of the construction of the MTA's new Transit Hub Entry, a new below-grade Control Area with back-of-house support facilities, and new connections to both existing IRT (2, 3, 4, 5) and BMT lines (B, Q), as well as renovation of existing platforms, new and/or refurbishment of support facilities and stairs along the affected platforms. Work will also include relocation and restructuring of existing subway vents.

SECTION IV - CONSTRUCTION STATUS

Work was active at the time of our site observation and appeared to be proceeding in a good and workmanlike manner, in general accordance with the plans, specifications, and all pertinent documents reviewed to date.

Items previously reported as generally completed have been removed from this section. The following progress in construction was observed this period:

General Conditions

The General Contractor has mobilized its office across from the site. Protective plywood and chain-link fencing, gates, barricades, concrete barriers, and traffic signage are in place. Mobile cranes, tie-back, and pile driving equipment are on site.

The soil erosion control and stabilization of the construction entrance are in place.

Excavation

Bulk excavation is well advanced at the southeast corner of 6th Avenue Bridge and Pacific Street continuing along Flatbush Avenue and extending to the southwest area of the site. Steel H-sections have been driven with plywood shoring at the east wall of the site. The tie-back operation is substantially complete along the sheeting and shoring wall at the east portion of the site and extending along the Atlantic Avenue retaining wall, and continuing to the west perimeter (5th Avenue). The support of excavation which includes walers and H-section cross bracing abutting the existing MTA subway and LIRR tracks is well advanced at the west end of the Dean Avenue perimeter wall.

A temporary earth ramp has been formed off the existing retaining wall for construction access.

The removal and transport of the contaminated soils is substantially completed.

Concrete

Interior footing formwork with rebar placement is underway within Column Lines C, D, E, and F, with the "truss-support" footings at Lines 1 and 44 in progress. Concrete pours of the perimeter footings are complete at Atlantic Avenue and are proceeding along the southeast wall of the Flatbush Avenue elevation.

Anchor bolts and steel embeds/clips are incorporated within the formwork and concrete pours.

Formwork and reinforcing are continuing to be set in place for the foundation walls along Flatbush Avenue, with concrete poured along the Atlantic Avenue walls and extending east on Flatbush Avenue.

Underpinning was installed at the Flatbush Avenue wall abutting the MTA structure.

The concrete pours for the west retention tank are complete with waterproofing and backfilling underway.

Structural Steel

Shop and erection drawings, anchor bolt and embed drawings, connection design and engineering are well advanced. Deliveries of the structural steel began on November 20, 2010, with several columns installed.

Façade

System engineering and design, shop drawings, and calculations are continuing by the Subcontractor. Coordination and detailing are ongoing between all Professionals of Record with the Subcontractor (ASI). A performance mock-up was constructed and the testing was observed by FCRC personnel at the manufacturer's plant, with the results forthcoming.

Plumbing

The equalizer piping line between the east and west storm retention tanks has been installed.

Electrical

Temporary power is currently servicing the site.

Underground electrical conduit rough-in is underway for the duct banks.

Transit Connection

Excavation of the proposed connection is ongoing with bracing columns installed against the street wall.

Piles have been driven within the excavated areas.

The test pile has been completed and according to the General Contractor, the results have been deemed successful and approved by the Engineer of Record.

SECTION V - DOCUMENTS, TESTS, CERTIFICATIONS, AND PERMITS

Our office has reviewed all of the following documents and found them to be satisfactorily complete, in order, and in general conformance with the contract requirements.

Please note that Merritt & Harris does not perform consulting relating to asbestos or hazardous materials, claims no expertise in these areas, and can assume no liability for the work opinions, or reports of any independent consulting firms engaged to do so.

Documents

Our office has reviewed the plans and specifications labeled “Scope Set,” dated September 31, 2009, and is presently reviewing the 100% CO Prelim - Advance Procurement Drawings, dated August 13, 2010.

The Mass Transit Improvement documents (Plans and Specifications, Volumes 1 - 5) labeled 90% submission, dated August 28, 2009, were provided for our review.

The following documents were made available this period:

1. General Contractor's Application and Certificate for Payment 11 (Arena), for the period ending November 30, 2010
2. General Contractor's Application and Certificate for Payment 4 (Transit Connection), for the period ending November 30, 2010
3. Developer's Requisition Summary 7 for November 2010
4. General Contractor's Monthly Report for November 2010

Tests

The following test reports were reviewed to date:

1. AEL - Atlantic Engineering Laboratories of New York, Inc. Reports:
 - a. Concrete Compressive Strength Report, dated June 16 - September 30, 2010
 - b. Soil Compaction Test Reports, dated June 21 – September 24, 2010
 - c. Daily Field Reports, dated June 16 - August 12, 2010
 - d. Concrete Plant Inspection Daily Reports, dated June 16 - September 23, 2010
 - e. Structural Steel Field Inspection Reports, dated July 23 - September 13, 2010
 - f. Wall Embed Installation Report, dated August 4 – September 22, 2010
 - g. Soils Reports, dated July 6 - August 28, 2010
 - h. Sieve & Proctor Reports, dated July 13, 2010
 - i. Pull test Reports (Epoxy Rebars), dated July 8, 2010
 - j. Shoring of Excavation Reports, dated July 23 – August 3, 2010
 - k. Structural Steel Shop Inspection Reports, dated July 1 – September 24, 2010
2. Langan Engineering & Environmental Services:
 - a. Geotechnical Site Inspection Reports, dated October 4 – October 8, 2010

We have reviewed all test reports that were made available to us. Since some reports may be missing from the on-site files, our office is also relying on the Deficiency Logs and Monthly Certification from the Professionals of Record to certify that the work in place is in accordance with the construction documents.

Certifications

1. Architect's Certificate for Payment 11 (Arena) (AIA Document G702 - Application and Certificate for Payment), covering the period through November 30, 2010.
2. Architect's Certificate for Payment 4 (Transit Connection) (AIA Document G702 - Application and Certificate for Payment), covering the period through November 30, 2010.
3. Test Pile Acceptance Letter, dated November 17, 2010 from Heller and Johnsen, Geotechnical Engineering Consultants, for the Transit Connection.

Permits

The following major Building Permits have been received to date:

1. New York City Department of Buildings:

<u>Permit</u>	<u>Description</u>	<u>Issued</u>	<u>Expires</u>
a. 320135493-01-EQ-FN	Alt. Type 2 - Construction Equipment - Fence	09/02/10	09/01/11
b. 320140682-01-EW-OT	Alt. Type 2 - Foundation	11/22/10	09/01/11
c. 320140682-02-EW-OT	Alt. Type 2 - Sheet/Shor/Brac	11/22/10	09/01/11
d. 320145856-01-EQ-OT	Alt. Type 3 - Construction Equipment - Other	04/13/10	04/01/11
e. 320162266-01-EQ-FN	Alt. Type 2 - Construction Equipment - Fence	05/14/10	11/01/10
f. 320148782-01-EW-OT	Alt. Type 2 - Sheet/Shor/Brac - Concrete Work not authorized - Concrete Placement Formwork, Steel Reinforcing not permitted	11/22/10	09/01/11
g. 320100234-01-FO	New Building	11/22/10	09/01/11
h. B328732	Electrical Work Permit Descriptions 1 and 6	06/30/10	06/30/13
i. 320100234-01-FO-EA	New Building - Earthwork Review for Zoning	11/22/10	09/01/11
j. 320100234-04-PL	New Building - Plumbing - Partial Underground Piping	07/20/10	07/20/11
k. CN595-10	CD4: Tower & Mobile Crane/Derrick/Mast Climber/Pile Driver On-Site Inspection Application/Certificate	09/29/10	09/29/11
i. 320100234-01-NB	New Building	11/22/10	09/01/11
m. 320100234-01-EQ-FN	Construction Fence	11/22/10	09/01/11

2. New York City Department of Transportation:

- a. DOT Permit 04-2010281-058
- b. DOT Permits 02-2010280-079 - 114
- c. DOT Permits 02-201019486 - 103

SECTION VI - CONTRACTS AND BONDS

General Contracts

Arena

Design/Build with Guaranteed Maximum Price (GMP) Agreement between the Developer and Hunt Construction Group Inc., dated December 28, 2009, for the Arena only with attached:

- Exhibit A - GMP Documents
- Exhibit B - Subcontractor Performance and Payment Bond
- Exhibit C - Schedule of Values
- Exhibit D - Change Order Form
- Exhibit E - Final Release and Affidavit
- Exhibit F - Not Used
- Exhibit G - Lien Waiver
- Exhibit H - Owner's Insurance
- Exhibit I - Design/Builder's Insurance
- Exhibit J - Affirmative Action/Community Benefits/Economic Development Requirements
- Exhibit K - Scope of Design Phase Services
- Exhibit L - Scope of Construction Phase Services
- Exhibit M - Not Used
- Exhibit N - Supplemental Conditions - Project Sponsor Requirements
- Exhibit O - Arena Schedule
- Exhibit P - Owner's Construction Phasing Schedule
- Exhibit Q - Owner's Financing Plan
- Exhibit R - Survey
- Exhibit S - Letter of Credit
- Exhibit T - Form of Consent to Assignment
- Exhibit U - Forms of Architect Certification, amounting to \$484,594,525 has not been executed.

A 50/50 savings clause subject to a cap of \$5,000,000 is included between the Developer and the Contractor.

Transit Connection

A Guaranteed Maximum Price (GMP) Agreement between the Developer and John Civetta & Sons, Inc., for the amount of \$50,581,000 has been received.

Subcontracts

According to Mr. Fisher and Mr. Hamburg, the Hunt Construction Subcontracts are now approximately 68% contracted and is within budget. No major overruns are currently being anticipated.

The following executed subcontracts have been made available to date:

<u>Subcontractor</u>	<u>Trade Description</u>	<u>General Contractor's Original Budget</u>	<u>Subcontract Amount</u>
Almar Plumbing	Plumbing	\$14,990,000	\$14,758,000
American Stair	Steel Stairs	4,601,366	2,029,695
ASI Limited	Exterior Façade	39,194,310	32,411,211
ASM	HVAC/BMS	43,350,000	43,250,000
Banker Steel	Structural Steel	50,344,722 *	51,450,673
Banker Steel	Structural Precast	8,279,500	5,920,560
Cimco	Ice rink	3,400,600	3,450,600
Commodore	Structure Concrete	9,070,000	9,070,000
E-J/ERMCO	Electrical	46,511,724	46,231,954
H-Mak	Food Service	10,825,000	9,305,000
Hydro Worx Int'l	Aquatic Therapy Pools	527,500	337,500
J.E. Thompson	Truck Elevators & Turntable	1,572,000	724,000
LaQuila Group	Excavation, Foundation	28,900,000	27,500,000
MFM Contracting	Utility Improvements	39,536	39,536
Otis Elevators	Elevator & Escalators	6,847,250	5,500,000
Staging Concepts	Ornamental Metal	2,701,518	3,232,367
United Hoisting	Fencing	1,510,000	470,900
United Hoisting	Fencing	0	776,210
Totals		\$272,665,026	\$256,458,206

* Difference between the budgeted amount and the contract amount has been reallocated from the façade allowance.

Note that the contract amounts may not, in all cases, represent the total costs of the individual line items, i.e., Internal Change Orders are not included in the subcontract amounts. Note that the preceding table does not include General Conditions and the Contractor's Fee.

Contractor's Contingency Reserve

The General Contractor's Contingency Reserve balance currently stands at \$19,579,350.

Bonds

Based on the Design/Build Agreement, the General Contractor will not need to be bonded while all Subcontractors must be bonded. Based on the Hunt Construction's contract, all Subcontractors will be bonded in an amount equal to its subcontract price, naming the Developer and General Contractor as co-obligees.

The following Payment and Performance Bonds have been made available to date:

<u>Subcontractor</u>	<u>Trade</u>
LaQuila Group	Excavation, Foundations
United Hoisting	Fencing
Banker Steel	Structural Steel
ASI Limited	Exterior Façade
E-J/ERMCO	Electrical
Commodore Construction	Superstructure Concrete
MFM Contracting	Utility Improvements

Note that the subcontracts for "material only" shall not be required to be bonded.

All Subcontractors shall be enrolled in the OCIP Program, as their contracts are executed. A trust fund in the amount of \$7,100,000 has been established with the Bank of New York. EJ/ERMCO JV (Electrical) enrollment in the OCIP Program will be limited to the General Liability (GL) coverage only. ASM Mechanical is excluded from the OCIP and will provide traditional insurance.

SECTION VII - CHANGE ORDERS AND PENDING CHANGE ORDERS
Change Orders**Arena**

Change Orders 43 - 52, totaling a credit of \$60,879, were provided this period and are included in the following list of executed Change Orders that have been made available:

<u>CO</u>	<u>Amount</u>	<u>Description</u>
1	\$ 0	Budget transfer from Division 17 (Technology) to 16 (Electrical) for low voltage scope of work.
2	(895,700)	OCIP Deduct - Banker Steel
3	0	Structural quantities matrix; credits site security credit
4	(1,770,921)	OCIP Deduct - Laquila
5	(220,000)	OCIP deduct - Almar Plumbing
6	57,316	Bus Ramp Design
7	(29,500)	Design Credit for wind and falling ice
8	2,928	Hockey Sightline Study
9	249,994	Updated Construction Fence from chain link to plywood
10	0	Fence around Lot 21 during demolition
11	0	Structural precast concrete award assigned to Banker Steel
12	506,780	Fence upgrades
13	0	Disposal of on-site contaminated excavated materials - \$7,746,950
14	(53,162)	OCIP Deduct - Otis Elevator
15	(1,066,100)	OCIP Deduct - ASI Ltd.
16*	0	Clarification Reconciliation of CCE/GMP Contract Values - (\$8,839,018) credit
17	(153,200)	OCIP Deduct - H-Mak
18	(20,916)	OCIP Deduct - American Stair
19	47,426	Construction Fence Upgrades - General Condition and CM Fee only
20	75,000	Relocate Con Edison Network Room
21	0	Reconciliation of previous OCO 1 - 20
22	0	Super Hazmat Material Trucking (Environmental Budget)
23	0	Facade Allowance to ASI for Signage - Budget Transfer
24	(435,000)	Early Payment Credit to ASI
25	(125,760)	United Hoist Phase 2 OCIP - Demo portion - \$5,240
26	(455,625)	OCIP Deduct EJ/Ermco
27	(5,000)	JE Thompson OCIP Deduct
28	(79,888)	Staging Concept OCIP Deduct
29	0	Site Security - G.C. Transfer
30	(279,000)	Commodore OCIP Deduct
31	(692,721)	Deduct Food Carts from H Mak scope
32	29,243	Design Elevator Hoistway
33	0	Hunt Laquila Haz & super Haz Disposal
34	3,120	Design Con Ed Network Rev Rm Layout
35	0	Partial September Reconciliation
36	61,795	Add Pass thru Window with Heat Lamp
37	20,099	Per DOT/BOB

<u>CO</u>	<u>Amount</u>	<u>Description</u>
38	\$ 0	Partial September Reconciliation
39	0	Budget Transfer for Laquila SCO-8
40	0	Budget Transfer Civetta from excav to COW GC
41	0	Budget Transfer from site requisition to United Fence \$3,147,367
42	0	Budget Transfer Temps site to MFM Contract \$3,147,367
43	21,005	Additional SOE for Con Ed Vault
44	23,077	Additional Engineering to Previous SOE Plans
45	16,797	OT work in prep for Owner Visit
46	0	Budget Transfer Install of 1 st Phase of Crane Pad
47	0	Budget Transfer EJ Ermco Generator enclosure
48	0	Budget transfer Laquila PPE Mobil Lot
49	0	Budget Transfer Laquila Lay Down Area Bank
50	0	Budget Transfer United Hoist Phase II Sidewalk Br.
51	0	FCRC Void Change Order
52	<u>0</u>	Budget Transfer COW GC Mockups
	(\$5,167,913)	Total

- * OCO 16 amounting to a credit of \$8,839,018 addresses the costs of the precon services provided by Hunt Construction prior to start of construction and has been deducted from the current budget and total work-in-place.

Transit Connection

Change Orders 1 -4 amounting to \$1,979,173 were provided this period:

<u>CO</u>	<u>Amount</u>	<u>Description</u>
1	\$ 400,000	Civetta – Payment and Performance Bond
2	1,425,000	IRT column and beam Inspection
3	107,745	Debris Removal from BMT mezzanine
4	<u>46,428</u>	MPT work
	\$1,979,173	Total

The preceding Change Orders have been executed by the Developer and General Contractor and we recommend your acceptance of them. The scope of work and dollar amounts appear reasonable. The scope changes do not substantially change the quality of the project. No time extensions to the project are indicated on these Change Orders.

The monies for all Change Orders resulting in the contract value being increased will be made available from the Developer's Contingency.

Pending Change Orders

The Developer's Pending Change Order (PCO) Log, dated November 23, 2010, amounts to \$80,611 for the Arena, and \$524,479 for the Transit Connection.

A Pending Change Order for Hunt Construction for additional General Conditions due to the delayed Notice to Proceed is being reviewed by the Developer.

Developer's Hard Cost Contingency Reserve

The Developer's Total Hard Cost Design/Scope Contingency Reserve balance currently totals \$28,911,748.

SECTION VIII - REQUISITION REVIEW

Summary of Hunt GMP Costs

Arena

The following summary is based upon the General Contractor's Application and Certificates for Payment 11, covering the period through November 30, 2010:

Original Contract (Design/Build with GMP)		\$484,594,525
Adjustments (Less CCE per OCO 16)		(8,839,018)
Adjustments (COs 1 - 52)		<u>(5,167,913)</u>
Revised Contract Budget		\$470,587,594
Work Previously Completed	9.7%	\$45,830,181
Work Completed This Period	1.1%	<u>4,972,612</u>
Total Work Completed To Date	10.8%	\$50,802,793
Off-Site Stored Materials		<u>9,541,205</u>
Total Work Completed and Stored To Date	12.8%	\$60,343,998
Less Retainage		<u>(3,805,981)</u>
Total Completed and Stored Less Retainage		\$56,538,017
Less Previous Payments		<u>(50,321,630)</u>
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 6,216,387 *
Balance to Complete based on Current Contract Value of \$470,587,594		\$410,243,596

* Current Payment Due includes Hard Costs (\$4,712,497), GC/CM Fee (\$1,095,219), and associated A/E Soft Costs (\$408,671)

In our opinion, the remaining Contract Value funds of \$414,243,546 (net of retainage), together with the remaining Developer's Arena Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The GMP budget was based on the "Scope Set" drawings, dated July 31, 2009.

The dollar amounts of each line item were reviewed at the time of our site visit, and the amounts were found to reasonably reflect the percentage of work in place.

Please note the following:

1. The fixed General Conditions will be requisitioned at an amount established under the Payment Schedule with the Developer for the remaining months of the construction term.
2. The Cost of Work (COW) General Conditions shall be requisitioned monthly as cost incurred.
3. The Design Builder's Fee is a "Base Lump Sum" of \$18,200,000 and will be requisitioned as a percentage of work completed.
4. The Ellerbe Becket Design Fees are requisitioned as monthly costs incurred.
5. An Imprest Account amounting to \$1,000,000 has been established.
6. Retainage will be withheld at a rate of 10% for all Subcontractors, with the exception of subcontracts for materials only, until 50% of their subcontract is completed, with 0% withheld thereafter until completion. Early release of retainage for Subcontractors will be considered at the Developer's discretion.
7. This being a GMP contract, complete back-up documentation was made available for our review. No modifications were made to the requested percentages submitted at the time of our site visit.

Transit Connection

The following summary is based upon the General Contractor's Application and Certificate for Payment 4, covering the period through November 30, 2010:

Original Contract (Lump Sum)		\$50,581,000
Adjustment (FC-001- 004)		<u>1,979,173</u>
Current Revised Budget		\$52,560,173
Work Previously Completed	11.5%	\$ 6,043,747
Work Completed This Period	5.7%	<u>3,001,661</u>
Total Work Completed To Date	17.2%	\$ 9,045,408
Off-Site Stored Materials		<u>429,390</u>
Total Work Completed and Stored To Date	18.0%	\$ 9,474,798
Less Retainage		<u>(912,411)</u>
Total Completed and Stored Less Retainage		\$ 8,562,387
Less Previous Payments		<u>(5,469,947)</u>
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,092,440
Balance to Completed based on Current Contract Value of \$52,560,173 (Net of Retainage)		\$ 43,085,375

In our opinion, the remaining Contract Value funds of \$43,085,375, and the Developer's Design/Scope Contingency, are sufficient to complete the work as it is currently defined.

The dollar amounts of each line item were reviewed at the time of our site visit, and the amounts were found to reasonably reflect the percentage of work in place.

Off-Site Stored Materials

Arena

The following off-site stored materials amounting to \$9,541,205 represents the current closing inventory:

<u>Trade</u>	<u>Amount</u>	<u>Subcontractor</u>
Structural Steel	\$5,441,705	Bankers Steel Co.
Metal wall panels	2,783,900	ASI Limited
Mechanical	1,300,000	ASM Mechanical
Electrical	<u>15,600</u>	EJ/ERMCO JV
Total	\$9,541,205	

Of the closing inventory amounting to \$9,541,205, the new value of off-site stored materials added this period is \$2,160,905.

Transit Connection

The following off-site stored materials amounting to \$429,390 represents the current closing inventory:

<u>Trade</u>	<u>Amount</u>
Structural Steel	\$429,390

Complete backup documentation was made available for these materials, including the Bills of Sale, Insurance Certificates, and Affidavits. As instructed by you, our office will not be observing the materials stored off site.

Summary of Total Project Hard Costs

The overall Hard Cost budget includes the following hard cost-related items:

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Arena	\$503,956,625	\$68,622,268	\$6,012,164 *	\$74,634,432	14.8	\$429,322,193
Transit Connection	66,507,554	8,703,619	3,102,162	11,805,781	17.8	54,701,773
Arena Site Work	20,143,349	363,610	(848)	362,762	1.8	19,780,587
Arena Mitigation	<u>2,685,886</u>	<u>80,690</u>	<u>0</u>	<u>80,690</u>	3.0	<u>2,605,196</u>
Totals	\$593,293,414	\$77,770,187	\$9,113,478	\$86,883,665	14.6%	\$506,409,749

The \$9,113,478 being requested for these line items under the Requisition, covering November 2010, was reviewed by our office and found to be reasonable.

* Current Request is part of the Hunt Construction Design-Build contract and includes the trades, GC/CM Fee Costs, and other miscellaneous Hard Costs.

Soft Costs

<u>Description</u>	<u>Budget</u>	<u>Total Completed</u>	<u>Amount Due</u>	<u>Remaining Balance</u>	<u>% Complete</u>
Architecture and Engineering	\$100,346,749	\$93,484,451	\$846,974	\$6,862,298	93.2
Legal	2,828,180	959,893	25,480	1,868,287	33.9
Development Costs	45,000,000	36,222,780	0	8,777,220	80.5
Project Expenses/Marketing	29,415,305	22,942,994	35,261	6,472,311	78.0
Insurance/Commissioning	6,581,225	3,447,319	2,417,771	3,133,906	52.4
Development Contingency	<u>2,671,795</u>	<u>0</u>	<u>0</u>	<u>2,671,795</u>	0.0
Totals	\$186,843,254	\$157,057,437	\$3,325,486	\$29,785,817	84.1

Current Revised Budget		\$186,843,254
Total Amount Incurred to Date	84.1%	\$157,057,438
Current Payment Due and Recommended by Merritt & Harris, Inc.		\$ 3,325,487
Balance Amount based on Budget of \$186,843,254		\$ 29,785,817

Soft Cost Related Items

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Arena	\$177,551,264	\$147,324,794	\$2,799,724	\$150,124,518	84.6	\$27,426,746
Transit Connection	5,461,197	3,378,367	376,223	3,754,590	68.8	1,706,607
Arena Site Work	3,784,332	2,999,339	149,540	3,148,879	83.2	635,453
Arena Mitigation	<u>46,461</u>	<u>29,451</u>	<u>0</u>	<u>29,451</u>	63.4	<u>17,010</u>
Totals	\$186,843,254	\$153,731,951	\$3,325,487	\$157,057,438	84.1	\$29,785,816

Additional costs not included within the Hard or Soft Cost Requisition include the following:

<u>Description</u>	<u>Budget</u>	<u>Previously Completed</u>	<u>Current Request</u>	<u>Total Completed</u>	<u>% Complete</u>	<u>Remaining Balance</u>
Accounts Payable (AP)	\$ 4,950,367 ⁽¹⁾	\$ 4,591,531	\$(7,309)	\$ 4,584,222	92.6	\$366,145
Financing	<u>29,715,483⁽²⁾</u>	<u>29,713,221</u>	<u>0</u>	<u>29,713,221</u>	99.9	<u>2,262</u>
Totals	\$34,665,850	\$34,304,752	\$(7,309)	\$34,297,443	98.9	\$ 368,407

(1) Costs incurred prior to closing

(2) Costs of financing

Summaries of Recommended Payment Due

<u>Description</u>	<u>Amount</u>
Hard Costs - Arena	\$ 6,012,163.90
Hard Costs - Transit Connection	3,102,161.82
Hard Cost - Site Work	(847.50)
Soft Costs	3,325,486.29
Accounts Payable (AP)	(7,309.72)
Financing	<u>0.00</u>
Total	\$12,431,654.79

SECTION IX - LIEN WAIVERS

The General Contractor's (Arena) Lien Waiver, dated December 1, 2010, amounting to \$50,321,630 including the current payment of \$6,216,387, was made available for our review. The lien waiver amount agrees with the monies requisitioned by the General Contractor through Application and Certificate for Payment 10, covering through November 30, 2010.

The General Contractor's (Transit Connection) Lien Waiver, dated December 7, 2010, amounting to \$2,931,047 including the current payment of \$3,092,440 for the period ending November 30, 2010, was made available.

The following Subcontractors' lien waivers have been made available to date:

<u>Subcontractor</u>	<u>Cumulative Amount Paid</u>	<u>Period Ending</u>
ASI Limited	\$5,790,335	11/30/10
ASM Mechanical	1,381,729	11/30/10
Almar Plumbing	362,824	11/30/10
Banker Steel	6,259,704	11/30/10
E-J/ERMCO	3,032,789	11/30/10
H-Mak	482,706	10/31/10
Hydro Work Int'l	33,750	04/30/10
LaQuila Group	10,113,827	11/30/10
LaQuila Group - Environmental	4,928,983	11/30/10
United Hoisting – Contract 1	664,525	09/30/10
United Hoisting – Contract 2	638,568	10/31/10
MFM Contracting	<u>16,896</u>	10/31/10
Total	\$33,706,636	

As of the current Application and Certificate for Payment 11, the previously funded amount to the General Contractor currently totals \$50,321,630. The amounts requisitioned under General Conditions, Fee, Design Fees, and Pre-Construction Estimating Services constitute the major portion of the difference between the amount paid to date and lien waivers made available to date.

Please note that our office is not performing a detailed accounting of lien waiver amounts paid to date for each Subcontractor. We are calculating the total of all lien waivers to date, to ascertain whether the total amount paid to date generally conforms to the most recently funded requisition amount.

SECTION X - CONSTRUCTION SCHEDULE

Rate of Progress and Estimated Completion Date

A High Level Arena Summary Construction Schedule, dated July 16, 2010, has been provided for our review. The current schedule, prepared by Hunt, indicates that substantial completion is anticipated to be by August 12, 2012. The Developer is currently reviewing that schedule and there is a meeting anticipated for mid-December to resolve current schedule disputes.

The schedule further indicates the following important milestones:

Activity

<u>Construction Phase</u>	<u>Early Start</u>	<u>Early Finish</u>
Start Foundations and Footings	06/07/10	05/12/11
Underground MEP & Slab-on-Grade	11/01/10	10/06/11
Structural Steel (excluding Catwalk)	11/29/10	08/08/11
Con Ed Vault	01/20/11	08/12/11
Concrete on Metal deck	01/28/11	09/23/11
Structural Precast	03/11/11	09/14/11
Metal Stairs	03/14/11	06/25/12
Interior Masonry Partitions	03/22/11	03/23/12
Interior Finishes	03/22/11	08/12/12
Fireproofing	03/28/11	12/14/11
MEP Work	04/08/11	07/16/12
Vertical Transportation	04/13/11	04/13/12
Roof Steel/Deck	04/18/11	12/20/11
Roofing	07/15/11	03/19/12
Exterior Skin	08/09/11	06/14/12
Con Ed Permanent Power Available	11/04/11	-
Phase 5 (Lower Bowl Leave-Out) Foundations & Precast	11/22/11	02/09/12
Seating	11/22/11	08/07/12
Canopy Steel/Roof	01/17/12	05/15/12
Scoreboard, Video Displays, & Sound System	01/26/12	06/08/12
Phase 5 Ice Rinks Systems	02/10/12	07/10/12
Substantial Completion	-	08/12/12
Start NBA Pre-Season Games	10/17/12	-
Start NBA Regular Season	10/31/12	-

In our opinion, the construction term of 26 months for the Arena is reasonable, provided that adequate manpower is maintained throughout the construction term, and that there are no hold-ups, such as strikes, inclement weather, material shortages, or other unforeseen circumstances.

An early target substantial completion date of June 1, 2012, has been established with the following criteria to be met:

- a. Owner may use and occupy the Arena
- b. Only punch list items remain
- c. The Architect of Record has issued a Certificate of Substantial Completion
- d. A TCO has been issued

Punch list work and Subcontractor close-outs may extend the construction term to a final completion date of February 28, 2013.

According to the General Contractor, 325 persons have been on the job this month. Daily Manpower Logs, in chronological order, will be made available at the job site and will be reviewed periodically by our office.

We are enclosing our own computerized Construction Chart on which we have plotted actual construction progress versus the projected construction progress (see Attachment). This chart, based on cash flow projections, gives you an idea as to how the project is progressing on a month-to-month basis.

Currently, the project is slightly ahead of schedule.

Work Anticipated for the Next Period

Mr. Gladden indicated that by our next site visit, we should expect to see the following progress:

Arena

1. Bulk excavation will continue along the southeast portion of the site
2. The support of excavation operation will continue along Dean Street
3. Interior footings at Lines W, X, and Y at the northwest area will be poured
4. Foundation walls along Lines 4 - 3 will be poured
5. Underground electrical and plumbing rough-in will continue
6. Retaining wall removal along Pacific Street will continue
7. Steel columns at the northwest corner will continue

In our opinion, the preceding projections, as stated by Mr. Gladden, are realistic. It should be noted that all of last month's projections have been met.

SECTION XI - ATTACHMENTS

The following documents are attached to this report:

1. *Site Location Map*
2. *Developer's Requisition 8, covering November 2010*
3. *General Contractor's Application and Certificate for Payment 11 (Arena), covering the period through November 30, 2010*
4. *General Contractor's Application and Certificate for Payment 4 (Transit Connection), covering the period through November 30, 2010*
5. *Developer's Requisition for Payment*
6. *Change Order Summary and Change Orders*
7. *Off-Site Stored Material Documentation*
8. *Permits*
9. *Test Pile Results*
10. *Construction Progress Chart, prepared by Merritt & Harris, Inc.*
11. *Progress Photographs*

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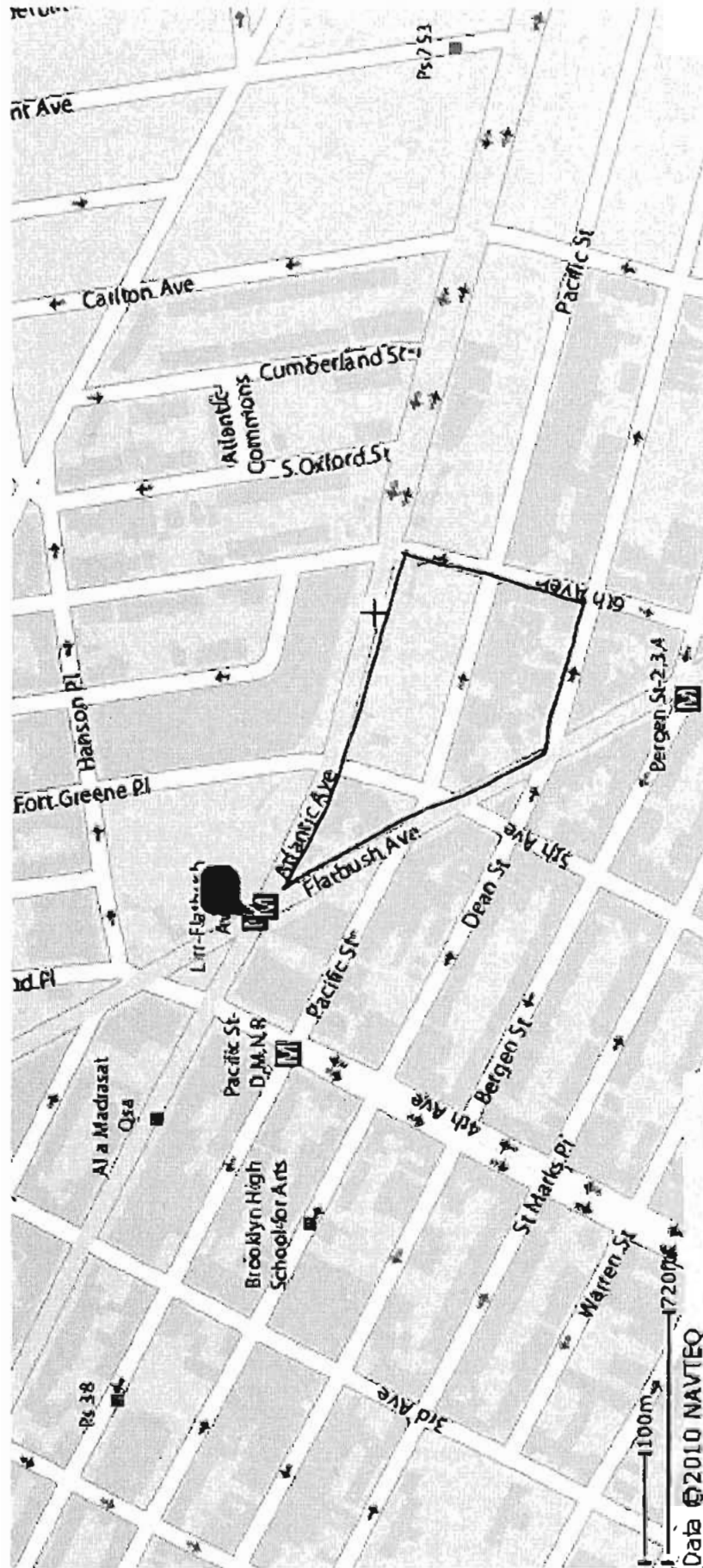
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**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
SUMMARY**

	(A) Original Budget	(B) Revised Budget	(C) Productivity Expenditure	(D) Current Expenditure	(E) Total Expenditure to Date	(F) = (D+E) Total Expenditure to Date	(G) = (F-I) Remaining to Date
1 Site Acquisition Costs:							
2 2.1 Site Costs:							
3 3.1 Site Costs:							
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**EXHIBIT A
BARCLAYS ARENA
REQUISITION # B
ARENA BUILDING**

	(A) Arena Building Budget	(B) Budget Revisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D+E) Total Expended to Date	(G) = (C-F) Remaining Balance	(H) Reversion To Date
1 Site Acquisition Costs:	124,125,125	0	124,125,125	124,125,125	0	124,125,125	0	-
2								
3 Hard Costs:	395,246,107	(3,230,385)	392,015,722	45,039,103	4,754,909	49,794,013	342,215,709	3,805,981
4 GC / CM Fee	58,642,849	0	58,642,849	13,905,789	1,095,219	15,001,008	43,641,841	-
5 GMP Contingency	19,879,350	0	19,879,350	0	0	0	19,879,350	-
6 Hunt Add / Alternate Allowance for Sits Reqs. & FF&E	0	0	0	0	0	0	0	-
7 Preconstruction Estimating Services	8,914,585	0	8,914,585	8,914,665	0	8,914,565	0	-
8 Permits, Bonds	750,000	0	750,000	373,759	58,743	432,501	317,499	-
9 Owner's Testing/Survey	1,341,007	0	1,341,007	389,052	103,293	492,345	848,662	-
10 Owner's Design/Scope Contingency	22,819,332	0	22,819,332	0	0	0	22,819,332	-
11 Total Hard Costs	507,183,010	(3,230,385)	503,952,625	98,622,268	6,012,184	74,634,432	429,322,194	3,805,981
12								
13 Soft Costs and Other:	93,238,819	(960,000)	92,278,819	86,733,769	683,954	87,417,723	4,861,096	-
14 Architecture & Engineering	2,865,000	0	2,865,000	771,233	25,480	796,713	1,868,287	-
15 Legal	45,000,000	0	45,000,000	38,222,780	0	38,222,780	8,777,220	-
16 Development Costs	28,085,305	0	28,085,305	22,703,187	30,552	22,733,719	6,351,586	-
17 Project Expenses / Marketing	3,128,084	2,724,281	5,852,365	893,846	2,059,737	2,953,583	2,898,763	-
18 Insurance / Commissioning / Other	2,871,795	0	2,871,795	0	0	0	2,871,795	-
19 Development Contingency	175,787,003	1,764,281	177,551,284	147,324,794	2,799,724	150,124,518	27,426,746	-
20 Total Soft Costs & Other	807,105,138	(1,472,124)	805,633,014	340,072,185	8,811,888	348,884,074	456,748,940	3,805,981
21								
22 Total Project Costs								
23								
24 Total AP	0	0	0	(351,015)	(7,310)	(358,325)	358,325	-
25								
26 Total Liability	0	0	0	(351,015)	(7,310)	(358,325)	358,325	-
27								
28 TOTAL USES	807,105,138	(1,472,124)	805,633,014	339,721,171	8,804,578	348,525,750	457,107,263	3,805,981
29								
30								

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
TRANSIT CONNECTION**

	(A) Transit Connection Budget	(B) Budget Revisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D)+(E) Total Expended to date	(G) = (C)-(F) Remaining Balance	(H) Remaining To Date
1 Site Acquisition Costs:	0	0	0	0	0	0	0	
2								
3 Hard Costs:	58,524,500	(1,448,000)	57,076,500	5,466,884	2,932,817	8,398,711	48,678,789	507,388
4 Trades	0	1,748,000	1,748,000	949,888	1,148,665	1,064,373	881,627	105,043
5 GC / CM Fee	0	0	0	0	0	0	0	
6 GMP Contingency	0	0	0	0	0	0	0	
7 Hunt Add / Alternate Allowance for Site Ramps & FF&E	0	0	0	0	0	0	0	
8 Preconstruction Estimating Services	2,282,244	0	2,282,244	1,981,240	42,083	1,981,240	301,004	
9 Permits, Bonds	1,166,850	(500,000)	666,850	306,797	348,880	348,880	317,970	
10 Owner's Testing/Survey	0	500,000	500,000	0	12,577	12,577	487,423	
11 Owner's Design/Scope Contingency	8,033,980	(1,800,000)	4,233,980	0	0	0	4,233,980	
12 Total Hard Costs	68,087,954	(1,800,000)	66,287,954	8,703,919	3,102,181.82	11,806,781	54,701,773	912,411
13								
14 Soft Costs and Other:	3,117,848	1,500,000	4,617,848	0	98,550	3,172,935	1,444,913	
15 Architecture & Engineering	163,180	0	163,180	163,180	0	163,180	0	
16 Legal	0	0	0	0	0	0	0	
17 Development Costs	0	125,000	125,000	34,117	3,525	37,642	87,358	
18 Project Expenses / Marketing	0	270,068	270,068	104,886	276,147	380,833	174,336	
19 Insurance / Commissioning / Other	286,070	0	286,070	0	0	0	0	
20 Development Contingency	0	0	0	0	0	0	0	
21 Total Soft Costs & Other	3,664,998	1,895,068	5,481,197	3,378,367	376,223	3,754,590	1,706,607	
22								
23 Total Project Costs	71,752,952	285,068	71,868,781	12,081,987	3,478,384	16,560,371	56,408,388	912,411
24								
25 Total AP	0	0	0	(7,820)	0	(7,820)	7,820	
26								
27 Total Liability	0	0	0	(7,820)	0	(7,820)	7,820	
28								
29 TOTAL USES	71,752,952	285,068	71,868,781	12,074,166	3,478,384	15,552,551	56,416,200	912,411

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA SITEWORK**

	(A) Arena Sitework Budget	(B) Budget Revisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D)+(E) Total Expended to date	(G) = (C)-(F) Remaining Balance	(H) Remaining To Date
1 Site Acquisition Costs:	0	0	0	0		0	0	
2								
3 Hard Costs:								
4 Trades	15,734,060	0	15,734,060	332,012		332,012	15,402,049	
5 GC / CM Fee	1,888,087	0	1,888,087	0		0	1,888,087	
6 GMP Contingency	0	0	0	0		0	0	
7 Hunt Add / Alternate Allowance for Site Regs. & FF&E	0	0	0	0		0	0	
8 Professional Estimating Services	150,000	0	150,000	31,598		31,598	118,402	
9 Permits, Bonds	354,018	0	354,018	0	(848)	(848)	354,864	
10 Owner's Testing/Survey	199,901	0	199,901	0		0	199,901	
11 Owner's Design/Scope Contingency	1,817,284	0	1,817,284	0		0	1,817,284	
12 Total Hard Costs	20,143,349	0	20,143,349	363,610	(848)	362,762	19,780,587	
13								
14 Soft Costs and Other:								
15 Architecture & Engineering	2,460,631	860,000	3,420,631	2,797,872	66,470	2,864,342	556,289	
16 Legal	0	0	0	0		0	0	
17 Development Costs	0	0	0	0		0	0	
18 Project Expenses / Marketing	160,000	45,000	205,000	170,450	1,183	171,633	33,367	
19 Insurance / Commissioning / Other	86,876	72,025	158,701	31,017	81,887	112,903	45,797	
20 Development Contingency	0	0	0	0		0	0	
21 Total Soft Costs & Other	2,707,507	1,077,025	3,784,532	2,999,339	149,540	3,148,879	835,653	
22								
23 Total Project Costs	22,850,856	1,077,025	23,927,881	3,362,949	148,692	3,511,640	20,416,041	
24								
25 Total AP	0	0	0	0	0	0	0	
26								
27 Total Liability	0	0	0	0	0	0	0	
28								
29 TOTAL USES	22,850,856	1,077,025	23,927,881	3,362,949	148,692	3,511,640	20,416,041	
30								

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA MITIGATION**

	(A) Arena Mitigation Budget	(B) Budget Revisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D+E) Total Expended to date	(G) = (C-F) Remaining Balance	(H) Retainage To Date
1 <u>Site Acquisition Costs:</u>								
2 <u>Hard Costs:</u>								
3 Trades	2,200,800	0	2,200,800	80,690	0	80,690	2,120,110	
4 GC / CM Fee	183,286	0	183,286	0	0	0	183,286	
5 GMP Contingency	0	0	0	0	0	0	0	
6 Hunt Add / Alternate Allowance for Site Reqs. & FF&E	0	0	0	0	0	0	0	
7 Preconstruction Estimating Services	50,000	0	50,000	0	0	0	50,000	
8 Permits, Bonds	30,618	0	30,618	0	0	0	30,618	
9 Owner's Testing/Survey	0	0	0	0	0	0	0	
10 Owner's Design/Scope Contingency	241,172	0	241,172	0	0	0	241,172	
11 <u>Total Hard Costs</u>	<u>2,685,886</u>	<u>0</u>	<u>2,685,886</u>	<u>80,690</u>	<u>0</u>	<u>80,690</u>	<u>2,605,196</u>	
12								
13 <u>Soft Costs and Other:</u>								
14 Architecture & Engineering	29,451	0	29,451	29,451	0	29,451	0	
15 Legal	0	0	0	0	0	0	0	
16 Development Costs	0	0	0	0	0	0	0	
17 Project Expenses / Marketing	0	0	0	0	0	0	0	
18 Insurance / Commissioning / Other	17,010	0	17,010	0	0	0	17,010	
19 Development Contingency	0	0	0	0	0	0	0	
20 <u>Total Soft Costs & Other</u>	<u>46,461</u>	<u>0</u>	<u>46,461</u>	<u>29,451</u>	<u>0</u>	<u>29,451</u>	<u>17,010</u>	
21								
22 <u>Total Project Costs</u>	<u>2,732,347</u>	<u>0</u>	<u>2,732,347</u>	<u>110,141</u>	<u>0</u>	<u>110,141</u>	<u>2,622,206</u>	
23								
24 <u>Total AP</u>	<u>0</u>			<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
25								
26 <u>Total Liability</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
27								
28 <u>TOTAL USES</u>	<u>2,732,347</u>	<u>0</u>	<u>2,732,347</u>	<u>110,141</u>	<u>0</u>	<u>110,141</u>	<u>2,622,206</u>	
29								

**ARENA
REQUISITION #8**

Item of Req. #8		Regulation Sheet		ARENA-TRAFFIC		ARENA-BITWORK		Grand Total	
Regulation Line		Vendor name	Invoice	ARENA-88.00					
04 - Traffic		Hunt Construction Group Inc.	APP1287-011 BA	4,712,487.13				4,712,487.13	
		Hunt Construction Group Inc. Total		4,712,487.13				4,712,487.13	
		John Chetta and Sons, Inc.	APP004-1878		2,832,817.00			2,832,817.00	
		John Chetta and Sons, Inc. Total			2,832,817.00			2,832,817.00	
		SimplexGrinnell LP	APP002-1936	42,412.21				42,412.21	
		SimplexGrinnell LP Total		42,412.21				42,412.21	
04 - Traffic Total				4,794,906.34	2,832,817.00			7,627,723.34	
05 - OCCM Fee		Hunt Construction Group Inc.	APP1287-011 BA	1,095,218.97				1,095,218.97	
		Hunt Construction Group Inc. Total		1,095,218.97				1,095,218.97	
		John Chetta and Sons, Inc.	APP004-1878		114,685.00			114,685.00	
		John Chetta and Sons, Inc. Total			114,685.00			114,685.00	
05 - OCCM Fee Total				1,095,218.97	114,685.00			1,209,903.97	
06 - Permits & Bonds		Aon Risk Services Company	HA0000030328	(21,297.50)	(2,855.00)		(847.50)	(25,000.00)	
		Aon Risk Services Company Total		(21,297.50)	(2,855.00)		(847.50)	(25,000.00)	
		Jam Consultants Inc.	APP002	80,040.00				80,040.00	
		Jam Consultants Inc. Total		80,040.00				80,040.00	
		John Chetta and Sons, Inc.	APP004-1878		44,938.00			44,938.00	
		John Chetta and Sons, Inc. Total			44,938.00			44,938.00	
06 - Permits & Bonds Total				58,742.50	42,083.00		(847.50)	99,978.00	
10 - Owners Testing		Atlanta Engineering Laborator	APP001-1941		12,576.82			12,576.82	
		Atlanta Engineering Laborator	APP005-1880	75,863.14				75,863.14	
		Atlanta Engineering Laborator Total		75,863.14	12,576.82			88,439.96	
		Lengen Engineering & Environ.	APP06-0166778	27,429.85				27,429.85	
		Lengen Engineering & Environ. Total		27,429.85				27,429.85	
10 - Owners Testing Total				103,292.99	12,576.82			115,869.81	
15 - Architecture & Engineering		Burwood Group, Inc.	APP46	8,586.59				8,586.59	
		Burwood Group, Inc. Total	APP97	8,586.59				8,586.59	
		Hunt Construction Group Inc.	APP1287-011 BA	408,671.00				408,671.00	
		Hunt Construction Group Inc. Total		408,671.00				408,671.00	
		Lowell Silverman Construction	APP12-0203388N	11,722.25				11,722.25	
		Lowell Silverman Construction Total		11,722.25				11,722.25	
		Shup Architects PC	060705-19 Phase			68,469.84		68,469.84	
		Shup Architects PC	060705-19 Rev	248,333.98				248,333.98	
		Shup Architects PC Total		248,333.98		68,469.84		316,803.82	
		Spencer Consulting Services Inc.	APP12-448579		96,550.18			96,550.18	
		Spencer Consulting Services Inc. Total			96,550.18			96,550.18	
15 - Architecture & Engineering Total				665,954.26	109,126.99	68,469.84		843,551.09	
18 - Legal		Shimony, LLP	9010044130	141.00				141.00	
		Shimony, LLP	9010044890	1,410.00				1,410.00	
		Shimony, LLP	9010046882	283.87				283.87	
		Shimony, LLP Total		1,834.87				1,834.87	
		Paul Weiss, Rifkind, Wharton	245330	3,962.38				3,962.38	
		Paul Weiss, Rifkind, Wharton	245334	6,593.35				6,593.35	
		Paul Weiss, Rifkind, Wharton Total		10,555.73				10,555.73	
		Thompson, Hine And Flory	2356894	9,182.58				9,182.58	
		Thompson, Hine And Flory	2356895	786.75				786.75	
		Thompson, Hine And Flory	2374739	824.00				824.00	
		Thompson, Hine And Flory	2378239	2,384.28				2,384.28	
		Thompson, Hine And Flory Total		13,080.61				13,080.61	
18 - Legal Total				25,460.11				25,460.11	
18 - Project Expenses/Marketing		Darryl E. Greene & Associates	BEC-2010-8	26,291.44	3,525.39		1,183.17	31,000.00	
		Darryl E. Greene & Associates Total		26,291.44	3,525.39		1,183.17	31,000.00	
		Shimony LLP	1179247	4,281.00				4,281.00	
		Shimony LLP Total		4,281.00				4,281.00	
18 - Project Expenses/Marketing Total				30,572.44	3,525.39		1,183.17	36,281.00	
25 - Total AP		Fixed, Firms, Harris, Shriver	108395	(7,309.72)				(7,309.72)	
		Fixed, Firms, Harris, Shriver Total		(7,309.72)				(7,309.72)	
25 - Total AP Total				(7,309.72)				(7,309.72)	
19 - Insurance/Commissioning/Other		Wills of New York, Inc.	1007928	987,156.25	132,364.37		38,305.38	1,157,825.99	
		Wills of New York, Inc.	1009482	1,072,577.96	143,782.61		42,661.53	1,259,021.10	
		Wills of New York, Inc. Total		2,059,734.21	276,146.98		80,966.91	2,416,848.10	
19 - Insurance/Commissioning/Other Total				2,059,734.21	276,146.98		80,966.91	2,416,848.10	
Grand Total				8,864,578.30	1,478,364.37		148,882.20	10,491,824.79	

APPLICATION AND CERTIFICATION FOR PAYMENT

ALA DOCUMENT G702

PAGE 8

PAGE ONE OF

TO OWNER:
Atlantic Yards Development Company, LLC
One Metrotech Center North, 11th Floor
Brooklyn, NY 11201

PROJECT: Barclay's Center Arena
at Atlantic Yards

FROM CONTRACTOR:
Hunt Construction Group, Inc
625 Atlantic Avenue, 3rd Floor
Brooklyn, NY 11217

VIA ARCHITECT:
Ellerbe Beckett
2380 McGee Street
Kansas City, MO 64108

CONTRACT FOR:

APPLICATION NO: 1287-011 (001)
ARENA ONLY
PERIOD TO: 11/30/10

Distribution to:
OWNER
ARCHITECT
CONTRACTOR

PROJECT NOS:

CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract Continuation Sheet, ALA Document G703, is attached.

1A. ORIGINAL CONTRACT SUM - GMP \$ 484,594,525.00
1B. LESS CCE PER OCO 16 \$ (8,839,018.00)
1. TOTAL PROJECT COST \$ 475,755,507.00
2. Net change by Change Orders Thru 52 \$ (5,167,913.00)
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 470,587,594.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 60,343,997.89

5. RETAINAGE: \$ 3,805,980.75
a. % of Completed Work (Column D + E on G703)
b. % of Stored Material (Column F on G703)
Total Retainage (Lines 5a + 5b or Total in Column I of G703)

6. TOTAL EARNED LESS RETAINAGE \$ 3,805,980.75
(Line 4 Less Line 5 Total) \$ 56,538,017.14
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 50,321,630.04
8. CURRENT PAYMENT DUE \$ 6,216,387.10
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 414,049,576.86

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
total changes approved		
previous months by Owner	\$1,053,701.00	\$6,282,493.00
total approved this Month OCO 43-52	\$60,879.00	\$0.00
TOTALS	\$1,114,580.00	\$6,282,493.00
NET CHANGES by Change Order		(\$5,167,913.00)

DOCUMENT G702 - APPLICATION AND CERTIFICATION FOR PAYMENT - 1982 EDITION - ALA - ©1982

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Hunt Construction Group, Inc.

By:

Date: 12/01/10

State of New Jersey
County of Mercer
Subscribed and sworn to before me this 01 day of December, 2010
Notary Public:
My Commission expires: 12/01/12

GEORGE RICHTER
County of Mercer
Notary Public
STATE OF NEW JERSEY
MY COMMISSION EXPIRES DEC. 9, 2015

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED\$ 6,216,387.10

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT: Ellerbe Beckett

Date: 11/30/10

By: [Signature]
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 20006-5282

CONTINUATION SHEET

ALA DOCUMENT G703

PAGE OF PAGES

ALA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.
In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 1287-011-Arena
APPLICATION DATE: 12/01/10
PERIOD TO: 11/30/10
ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD				
01 General Conditions	Lump Sum General Conditions	\$21,885,851.00	\$8,857,378.00	\$595,690.00	\$0.00	\$9,453,068.00	\$12,432,783.00	
	OCO No. 9	\$11,202.00						
	OCO No. 19	\$24,832.00	\$11,202.00			\$11,202.00		
	OCO No. 36	\$2,769.00				\$24,832.00	\$2,769.00	
	OCO No. 37	\$901.00	\$901.00			\$901.00		
	OCO No. 43	\$941.00		\$941.00		\$941.00		
	OCO No. 44	\$1,034.00		\$1,034.00		\$1,034.00		
	OCO No. 45	\$753.00		\$753.00		\$753.00		
	OCO Work - Additional Gen. Cond.	\$42,432.00	\$12,103.00	\$27,560.00		\$39,663.00	\$2,769.00	
	Insurance	\$8,856,536.00		\$0.00		\$0.00	\$8,856,536.00	
Design Services		\$13,595,198.00	\$7,801,497.00	\$408,671.00		\$8,210,168.00	\$5,385,030.00	
Construction Site Services								
	Cost of Work General Conditions	\$10,629,439.00	\$1,200,160.11	\$197,807.98		\$1,397,968.09	\$9,231,470.91	
02 Sitework								
	Earthwork & Foundations	\$133,000.00					\$133,000.00	
	Temp Site Requirements	\$1,017,245.00					\$1,017,245.00	
	Pour Strip / Ice Floor	\$75,000.00					\$75,000.00	
	Fences & Barriers	\$262,880.00					\$262,880.00	
Subcontracts								
	9412 MFM Contracting Corp	\$39,536.00	\$39,536.00	\$0.00	\$0.00	\$39,536.00		\$0.00

Line	Account	Debit	Credit	Balance	Debit	Credit	Balance
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Project	Phase	Task	Start Date	End Date	Duration	Status	Assigned To	Progress (%)	Comments	Financial Data											
										Budget	Actual	Variance	Forecast	Estimate	Actual	Variance	Forecast	Estimate	Actual	Variance	Forecast
Project A	Phase 1	Task A1.1	2023-01-01	2023-01-15	15 days	Completed	John Doe	100%	On schedule	1000	980	20	1000	1000	0	1000	1000	0	1000	1000	0
		Task A1.2	2023-01-16	2023-01-30	15 days	Completed	John Doe	100%	On schedule	1200	1180	20	1200	1200	0	1200	1200	0	1200	1200	0
		Task A1.3	2023-01-31	2023-02-15	15 days	Completed	John Doe	100%	On schedule	1500	1480	20	1500	1500	0	1500	1500	0	1500	1500	0
		Task A1.4	2023-02-16	2023-02-28	13 days	Completed	John Doe	100%	On schedule	1800	1780	20	1800	1800	0	1800	1800	0	1800	1800	0
		Task A1.5	2023-03-01	2023-03-15	15 days	Completed	John Doe	100%	On schedule	2000	1980	20	2000	2000	0	2000	2000	0	2000	2000	0
	Phase 2	Task A2.1	2023-03-16	2023-03-30	15 days	In Progress	John Doe	80%	On schedule	1000	950	50	1000	1000	0	1000	1000	0	1000	1000	0
		Task A2.2	2023-03-31	2023-04-15	15 days	In Progress	John Doe	60%	On schedule	1200	1150	50	1200	1200	0	1200	1200	0	1200	1200	0
		Task A2.3	2023-04-16	2023-04-30	15 days	In Progress	John Doe	40%	On schedule	1500	1450	50	1500	1500	0	1500	1500	0	1500	1500	0
		Task A2.4	2023-05-01	2023-05-15	15 days	In Progress	John Doe	20%	On schedule	1800	1750	50	1800	1800	0	1800	1800	0	1800	1800	0
		Task A2.5	2023-05-16	2023-05-30	15 days	In Progress	John Doe	10%	On schedule	2000	1950	50	2000	2000	0	2000	2000	0	2000	2000	0
Project B	Phase 1	Task B1.1	2023-06-01	2023-06-15	15 days	Completed	Jane Smith	100%	On schedule	1000	980	20	1000	1000	0	1000	1000	0	1000	1000	0
		Task B1.2	2023-06-16	2023-06-30	15 days	Completed	Jane Smith	100%	On schedule	1200	1180	20	1200	1200	0	1200	1200	0	1200	1200	0
		Task B1.3	2023-07-01	2023-07-15	15 days	Completed	Jane Smith	100%	On schedule	1500	1480	20	1500	1500	0	1500	1500	0	1500	1500	0
		Task B1.4	2023-07-16	2023-07-30	15 days	Completed	Jane Smith	100%	On schedule	1800	1780	20	1800	1800	0	1800	1800	0	1800	1800	0
		Task B1.5	2023-08-01	2023-08-15	15 days	Completed	Jane Smith	100%	On schedule	2000	1980	20	2000	2000	0	2000	2000	0	2000	2000	0
	Phase 2	Task B2.1	2023-08-16	2023-08-30	15 days	In Progress	Jane Smith	80%	On schedule	1000	950	50	1000	1000	0	1000	1000	0	1000	1000	0
		Task B2.2	2023-08-31	2023-09-15	15 days	In Progress	Jane Smith	60%	On schedule	1200	1150	50	1200	1200	0	1200	1200	0	1200	1200	0
		Task B2.3	2023-09-16	2023-09-30	15 days	In Progress	Jane Smith	40%	On schedule	1500	1450	50	1500	1500	0	1500	1500	0	1500	1500	0
		Task B2.4	2023-10-01	2023-10-15	15 days	In Progress	Jane Smith	20%	On schedule	1800	1750	50	1800	1800	0	1800	1800	0	1800	1800	0
		Task B2.5	2023-10-16	2023-10-30	15 days	In Progress	Jane Smith	10%	On schedule	2000	1950	50	2000	2000	0	2000	2000	0	2000	2000	0

[illegible]

HUNT CONSTRUCTION GROUP, INC
INVOICE NO. 1287-11

FEE CALCULATION

Total Completed & Stored to Date Less CM Fee	\$67,071,928.35	(1)
Less Ellerbe Design Fees	\$8,210,168.00	
Less CCE Fee	\$8,839,018.00	
Total Cost of Work to Date	<u>\$50,022,742.35</u>	

Total Adjusted GMP	\$479,426,612.00
Less Design Builders Fee	\$18,238,607.00
Less Ellerbe Design Fees	\$13,595,198.00
Less CCE Fee	\$8,839,018.00
Total Adjusted Contract Amount	<u>\$438,753,789.00</u>

Percent Complete	11.40%
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DESIGN BUILD FEE	\$ 18,200,000.00
Percent Complete	11.40%

Fee Earned	\$ 2,074,999.54
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Construction Phase Fee Earned	\$2,074,999.54
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Less Fee Earned Previously	<u>\$1,825,914.55</u>
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Fee for November 2010	<u>\$ 249,084.99</u>
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Total Fee Earned to Date	\$ 2,074,999.54
--------------------------	-----------------

Less Fee Paid To Date	<u>\$1,825,914.55</u>
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Fee Due This Month	\$ 249,084.99
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(1) Amount equals AIA 703 Grand Total Column G minus CM Fee to date from AIA 703 Column G

LIEN WAIVER

MECHANIC'S LIEN WAIVER

		1287-011 Arena
Contractor:	Hunt Construction Group, Inc	Date: 12/1/10
Trade:	Design / Builder	Period Ending: 11/30/10
Project:	The Barclays Center Project	Contract Price: \$475,755,507.00
		Net Extras & Deductions: (\$5,167,913.00)
Site:	600 Atlantic Avenue	Adjusted Contract Price: \$470,587,594.00
	Kings County, Block	Amount Paid to Date: \$ 50,321,630.04
		Amount of Current Payment: \$ 6,216,387.10

STATE OF NEW YORK)
COUNTY OF Middlesex) ss.

THE UNDERSIGNED, as authorized representative of Contractor and on behalf of the Contractor, (1) acknowledges receipt of the amount set forth above as payments received to date, (2) to the extent of such payments, and the amount of the current payment set forth above, waives and releases any claim which it may now or hereafter have upon the land and improvements described above, (3) that the amount of payments received to the date of this waiver, plus the amount of the current payment, represents the current amount due in accordance with Contractor's Agreement for work completed, and (4) warrants that it has not and will not assign any claims for payment or right to perfect a lien against such land and improvements and warrants that it has the right to execute this waiver and release. The Contractor represents that the adjusted Contract Price set forth above is inclusive of all additional work performed or additional costs incurred under the Agreement as of the date of this Lien Waiver.

In consideration and to the extent of the amounts and sums previously received and the Current Payment, Contractor hereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever, in equity or law, arising out of, through or under the above mentioned Agreement and the performance of Work pursuant thereto, up to and including the date of this Lien Waiver.

THE UNDERSIGNED Contractor further warrants that, to the extent of payments received through last month's Application for Payment: (1) all workmen employed by it or its subcontractors on this Project have been fully paid, (2) all materialmen from whom the undersigned or its subcontractors purchased materials used in the Project have been paid for materials delivered, and (3) none of such workmen and materialmen has any claim or demand or right of lien against the land and improvements described above. In addition, the undersigned stipulates that he is an authorized officer with full power to execute this Lien Waiver on Contractor's behalf.

THE UNDERSIGNED agrees that the Owner of the Project, and any Lender, title insurer, or other entity may rely upon this Lien Waiver.

WITNESS the signature and seal of the undersigned as of this 1th day of December, 2010.

Hunt Construction Group, Inc

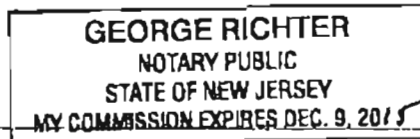
By: _____

Name: H. Mark Gladden
Title: Project Executive

Sworn to before me this

01 day of December, 2010.

George Richter
Notary Public



APPLICATION AND CERTIFICATE FOR PAYMENT

TO (Owner): Brooklyn Events Center LLC
c/o Forest City Ratner Companies
1 Metrotech Center
Brooklyn, NY 11201

Project: BARCLAYS CENTER
at ATLANTIC YARDS
Brooklyn, NY

APPLICATION # 004-1878
APPLICATION DATE 12/07/10
PERIOD TO: 11/20/10
PROJECT NO: XXXX

Distribution to:

OWNER	<input checked="" type="checkbox"/>
ARCHITECT	<input type="checkbox"/>
CONTRACTOR	<input type="checkbox"/>
OWNER'S REP	<input type="checkbox"/>

FROM (CONTRACTOR):
John Chivetta & Sons, Inc.
1123 Bronx River Avenue
Bronx, NY 10472

VIA (ARCHITECT):

CONTRACT FOR: General Contractor

CONTRACT DATE:


CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Contract.
Continuation Sheet is attached.

CHANGE ORDER SUMMARY			
Change Orders approved in previous months by Owner		ADDITIONS	DEDUCTIONS
TOTAL		1825000	
Approved this Month:		1,825,000.00	
Number	Date Approved		
3	11/18/2010	46,428.00	
4	11/18/2010	107,745.00	0.00
TOTALS		1,878,173.00	0.00
Net change by Change Orders		1,878,173.00	

1. ORIGINAL CONTRACT SUM	\$ 60,581,000
2. Net change by Change Orders	\$ 1,878,173
3. CONTRACT SUM TO DATE (Line 1+2)	\$ 62,560,173
4. TOTAL COMPLETED & STORED TO DATE (Column H on FC Summary)	\$ 8,474,788
5. RETAINAGE:	
a. 10 % of Completed Work (Column E+F on FC Summary)	912,411.30
b. 10 % of Stored Material (Column G on FC Summary)	0.00
Total Retainage (Line 5a + 5b or Total in Column I of FC Summary)	\$ 912,411
TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)	\$ 8,562,387
LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$ 5,499,847
CURRENT PAYMENT DUE	\$ 3,062,540
BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 8)	\$ 43,997,785

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: John Chivetta & Sons, Inc.
By:  DATE 12/07/10
Authorized Signature



State of New York
Subscribed and sworn to before me this December 7, 2010
Notary Public:
My Commission expires:

ANTHONY QUARANTA
Notary Public, State of New York
No. 01QU4703600
Qualified in Kings County
Commission Expires Aug. 31, 2013

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED
(Attach explanation if amount certified differs from any amount applied for.)

ARCHITECT: 
By:  DATE: 12/8/10
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

DIET AIL

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 351–357

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DIET AIL

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DATE	APPROVED COST CODE OF APPLICABLE	THIRD CASH	DESCRIPTION OF WORK	ORIGINAL CONTRACT SUM	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT VALUE (A+B)	PREVIOUS APPLICATION	CURRENT APPLICATION	STORIED MATERIALS (see in B or C)	TOTAL COMPLETED AND STORIED TO DATE	RETENTION TO DATE (in mil %)	TOTAL PAYABLE TO DATE (B-D)	% COMP	LESS PREVIOUS PAYMENTS FOR PAYMENT	NET PAYMENT DUE THIS APPLICATION (C-D)	BALANCE TO COMP. INCL. RETENTION (D-C)	RETENTION FROM PREVIOUS PERIOD (in mil %)	RETENTION TO NEXT PERIOD (in mil %)	RETENTION DATE
				A	B		D	E	F	G	H	I	J	K	L	M	N	O	P

CHANGE ORDERS - IRT Tunnel Restoration Work

DATE	APPROVED COST CODE OF APPLICABLE	THIRD CASH	DESCRIPTION OF WORK	ORIGINAL CONTRACT SUM	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT VALUE (A+B)	PREVIOUS APPLICATION	CURRENT APPLICATION	STORIED MATERIALS (see in B or C)	TOTAL COMPLETED AND STORIED TO DATE	RETENTION TO DATE (in mil %)	TOTAL PAYABLE TO DATE (B-D)	% COMP	LESS PREVIOUS PAYMENTS FOR PAYMENT	NET PAYMENT DUE THIS APPLICATION (C-D)	BALANCE TO COMP. INCL. RETENTION (D-C)	RETENTION FROM PREVIOUS PERIOD (in mil %)	RETENTION TO NEXT PERIOD (in mil %)	RETENTION DATE
10-01				A	B		D	E	F	G	H	I	J	K	L	M	N	O	P
10-02																			
10-03																			
			TOTAL CHANGE ORDERS																
			TOTAL CHANGE ORDERS TO DATE																
			TOTAL CONTRACT FROM OCT 1 SUM TO DATE																

MECHANIC'S LIEN WAIVER

Contractor:	John Civetta & Sons, Inc.	Date:	\$12/07/2010
Trade:	General Construction	Period Ending:	\$11/30/2010
Project:	Atlantic Yards – Transit Improvements	Contract Price:	\$50,581,000.00
Owner:	Atlantic Rail Yards, LLC	Net Extras & Deductions:	\$1,979,173
Site:	Kings County Tax Blocks 1118, 1119 and 1127, and the beds of 5 th Avenue, between Flatbush Avenue and Atlantic Avenue, and Pacific Street, between Flatbush Avenue and 6 th Avenue.	Adjusted Contract Price:	\$52,560,173
		Amount Paid to Date:	\$2,931,047
		Amount of Current Payment:	\$3,092,440

STATE OF NEW YORK)
) ss.
 COUNTY OF Bronx)

THE UNDERSIGNED, as authorized representative of Contractor, (1) acknowledges receipt of payments equal to the sum described above as "Amount Paid to Date", (2) to the extent of such payments, and the sum set forth above as the "Amount of Current Payment", waives and releases any claim which it may now or hereafter have upon the land and improvements located at the "Site" described above, (3) that the "Amount Paid to Date", plus the "Amount of Current Payment", represents the current amount due in accordance with Contractor's Agreement for work completed, and (4) warrants that it has not and will not assign any claims for payment or right to perfect a lien against such land and improvements and warrants that it has the right to execute this waiver and release. The Contractor represents that the adjusted Contract Price set forth above is inclusive of all additional work performed or additional costs incurred under the Agreement as of the date of this Lien Waiver.

In consideration of the amounts and sums previously received and the Current Payment, Contractor hereby waives, releases and relinquishes any and all claims, rights or causes of action whatsoever, in equity or law, arising out of, through or under the above mentioned Agreement and the performance of Work pursuant thereto, up to and including the date of this Lien Waiver.

THE UNDERSIGNED Contractor further warrants that (1) all workmen employed by it or its subcontractors on this Project have been fully paid to the date hereof, (2) all materialmen from whom the undersigned or its subcontractors purchased materials used in the Project have been paid for materials delivered on or prior to the date hereof, (3) none of such workmen and materialmen has any claim or demand or right of lien against the land and improvements described above, and (4) stipulates that he is an authorized officer with full power to execute this Lien Waiver.

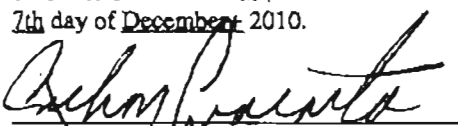
THE UNDERSIGNED agrees that the "Owner" described above, the Brooklyn Arena Local Development Corporation, the New York State Urban Development Corporation d/b/a Empire State Development Corporation, and any title insurer or other entity may rely upon this Lien Waiver.

WITNESS the signature and seal of the undersigned as of this 7th day of December, 2010.

JOHN CIVETTA & SONS, INC.

By: 
 Name: Theodore Civetta Jr.
 Title: Authorized Signature

Sworn to before me this
 7th day of December, 2010.


 Notary Public

ANTHONY QUARANTA
 Notary Public, State of New York
 No. 01QU4703600
 Qualified in Kings County
 Commission Expires Aug. 31, 2013

REQUISITION FOR PAYMENT

TO: The Bank of New York Mellon, a New York banking corporation, as Bond Trustee under the PILOT Indenture described below (the "Bond Trustee").

FROM: Merritt & Harris ("Construction Monitor").

RE: Master PILOT Indenture of Trust, between Brooklyn Arena Local Development Corporation (the "Agency") and the Bond Trustee, dated as of December 1, 2009 (the "PILOT Indenture"), with respect to the financing of a project (the "Project") as defined in the PILOT Indenture.

REQUISITION NO.: 8 /

AMOUNT OF DRAW REQUESTED: \$ 12,431,654.79 /

DATE: December 20, 2010.

This Requisition for Payment (this "Requisition") is submitted by the Construction Monitor to the Bond Trustee pursuant to the requirements of Section 4.02 and Section 5.02(c) of the PILOT Indenture in order to induce the Bond Trustee to approve the requested disbursement of funds (a "Bond Proceeds Draw") from the Senior PILOT Bonds Construction and Acquisition Account of the PILOT Bonds Project Fund established under the PILOT Indenture and pursuant to the requirements of Section 2.13 of the First Supplemental PILOT Indenture in order to induce the Bond Trustee to approve the requested disbursement of funds (a "Additional Rent Draw") from the Series 2009 Additional Rent Account of the PILOT Bonds Project Fund established under the First Supplemental PILOT Indenture. All capitalized terms used herein which are not otherwise specifically defined shall have the same meanings herein as in the PILOT Indenture and the First Supplemental PILOT Indenture.

(a) The Construction Monitor hereby requests that the Bond Trustee approve a Draw for \$ 12,431,654.79. \$ 12,431,654.79 of the Draw will be an Additional Rent Draw and \$ 0.00 of the Draw will be a Bond Proceeds Draw. Details of the requested Draw are set forth on Exhibit A attached hereto.

(b) The Draw of \$ 12,431,654.79 requested hereby, when added to all prior Draws in the aggregate amount of \$ 70,522,342.22, will result in aggregate Draws of \$ 82,953,997.01. The Additional Rent Draw of \$ 12,431,654.79 requested hereby, when added to all prior Additional Rent Draws in the aggregate amount of \$ 70,522,342.22, will result in aggregate Additional Rent Draws of \$ 82,953,997.01. The Bond Proceeds Draw of \$ 0.00 requested hereby, when added to all prior Bond Proceeds Draws in the aggregate amount of \$ 0.00, will result in aggregate Bond Proceeds Draws of \$ 0.00.

(c) The Construction Monitor hereby certifies that:

(i) Each of the Construction Agreements, or substitute construction agreements (including, but not limited to, the Guaranty to the Arena Lease Agreement (the "Guaranty")) to the extent the Guarantor is performing Guaranteed Work pursuant to the Guaranty, is in full force and effect on the date hereof and have not been modified or amended, except as permitted by the terms thereof. Except for notices, if any, relating to matters which have been cured or waived, or except as may be stated on Exhibit B attached hereto, the Construction Monitor has no knowledge of receipt by the Company nor has the Construction Monitor received any notice of default from a Contractor under the Construction Agreements or such substitute construction agreement.

(ii) Except as may be stated on Exhibit B attached hereto, construction of the Project has been performed to date substantially in accordance with the requirements of the Construction Agreements or substitute construction agreements (including, but not limited to, the Guaranty).

(iii) Except as may be stated on Exhibit C attached hereto, all permits required to construct the Project at this stage of construction have been issued and are in full force and effect, and the Construction Monitor has no notice or knowledge as of the date hereof of any actions pending to revoke any of such permits.

(iv) This Requisition is for costs that constitute Project Costs and that have not been the basis of any prior Requisition for Payment from the PILOT Bonds Project Fund, including without limitation the Series 2009 Additional Rent Account therein. This Requisition contains no items representing payment on account of any amounts not yet required or otherwise not permitted to be paid as of the date hereof.

(v) To the best of the Construction Monitor's knowledge, except as may be stated in Exhibit D attached hereto, (a) construction of the Project is proceeding on Schedule and (b) Substantial Completion of the Project will occur by the Scheduled Completion Date.

(vi) To the best of the Construction Monitor's knowledge, the Construction Monitor has no reason to believe that the funds needed to achieve Substantial Completion of the Project will exceed the amounts available under the PILOT Indenture.

(vii) To the best of the Construction Monitor's knowledge, the Construction Monitor has no reason to believe that the funds needed to achieve Substantial Completion of the Infrastructure Improvements will exceed the amounts available under the Trust Agreement.

(viii) The proceeds of all prior Draws have been expended solely for the purposes for which they were requisitioned.

(ix) No event or discovery has occurred which would give rise to the right of the Company to terminate the Lease Agreement in accordance with the provisions of

Section 16.2(a) thereof and no Hazardous Materials notice has been delivered in accordance with such Section.

(x) The items of cost set forth on Exhibit A attached hereto are correct and proper under Section 5.02(c) of this Master PILOT Indenture and each such item has been properly paid or incurred as an item of Project Cost.

(xi) Except as otherwise permitted in the Tax Certificate, no item of cost set forth on Exhibit A attached hereto was incurred or paid prior to NA.

(xii) The payees and amounts stated in Exhibit A attached hereto are true and correct and each item of cost so stated is due and owing.

(xiii) It has no knowledge of any vendor's lien, mechanic's lien or security interest which should be satisfied or discharged before the payment herein requested is made or which will not be discharged by such payment.

(xiv) Each item of cost set forth in Exhibit A attached hereto is consistent in all material respects with the Tax Certificate.

(xv) To the extent a payment herein requested is a reimbursement to the Company for costs or expenses of the Company incurred by reason of work performed or supervised by officers or employees of the Company, such officers or employees were specifically employed for such purpose and the amount to be paid does not exceed the actual cost thereof to the Company and such costs or expenses will be treated by the Company on its books as a capital expenditure in conformity with generally accepted accounting principles applied on a consistent basis.

(xx) Each item of cost for which payment is herein requested is chargeable to the capital account of the Project for Federal income tax purposes, or would be so chargeable either with an election by the Company or but for the election of the Company to deduct the amount of such item.

(xxi) (A) No Default or Event of Default has occurred and is continuing under the Bond Documents or the Lease Documents nor any condition, event or act which, with notice or lapse of time or both would constitute such a Default or Event of Default or (B) the Guarantor is performing Guaranteed Work pursuant to the Guaranty.

(xxii) Each condition precedent to the PILOT Bond Trustee's obligation to approve the requested Draw, including all applicable conditions in Section 5.02(c) of the PILOT Indenture and Section 2.13 of the First Supplemental, has been satisfied.

(xxiii) There have been no material Change Orders other than those permitted by the Construction Management Agreement.

(xxiv) Attached is a true and complete copy of the approved Project Budget. Moneys and/or Additional Rent Account Credit Facilities on deposit in the PILOT

Bonds Project Fund, including the Series 2009 Additional Rent Account therein, are sufficient to pay the amounts set forth in the approved Project Budget attached as **Exhibit E** hereto.

(xxv) This Requisition constitutes the representation and warranty that the information set forth in this. Requisition is true, accurate and complete in all material respects.

(xxvi) The Construction Monitor has been provided with and approved (a) a complete schedule of bills or invoices supporting such requisition (stamped "paid" if reimbursement is to be made to the Company) or other evidence reasonably satisfactory to the PILOT Bond Trustee including evidence that the bill, invoice or other evidence was not incurred or paid on a date prior to September 11, 2009 except as otherwise provided by the Tax Certificate, (b) a partial waiver of lien from any contractor which is being paid from any disbursement and (c) evidence that any vendor's lien, mechanic's lien or security interest, recorded in the lien book maintained by the Trustee, which will not be discharged by such payment, has been either (i) resolved (or will be resolved) in accordance with the Resolution Notice; (ii) bonded or otherwise discharged; or (iii) secured by an undertaking, the form of which has been certified by the Company as being in accordance with the applicable requirements of the Lease Agreement and satisfactory to LDC; provided that no such evidence shall be required if the Series 2009 PILOT Bonds Construction and Acquisition Subaccount in the Senior PILOT Bonds Construction and Acquisition Account of the PILOT Bonds Project Fund Series and the 2009 Additional Rent Account in the PILOT Bonds Project Fund contain in the aggregate at least 110% of the amount of all vendor's liens, mechanic's liens or security interests recorded in the lien book maintained by the Trustee that have not otherwise been bonded, secured or discharged.

This Requisition and the accompanying supporting documentation are submitted to the Bond Trustee for the purpose of inducing the PILOT Bond Trustee to approve the Draw, and the Construction Monitor intends that the PILOT Bond Trustee shall be entitled to rely upon each of the same as being true, accurate and complete in all material respects.

(d) If this Requisition is approved for payment and all other conditions precedent to the PILOT Bond Trustee's obligation to make the Draw are satisfied, please disburse the Draw on _____ 20_, as follows:

(i) **\$ 12,431,654.79** by wire transfer to:

Bank Name:	JPMorgan Chase Bank
ABA #	021000021
Account Name:	Brooklyn Events Center, LLC
Account Number:	837 489 632

IN WITNESS WHEREOF, the Construction Monitor has caused this Requisition to be
duly executed as of 12/23/10, 2010.


As Construction Monitor

By Merr. H & Harris Inc.
Name: Robert G. Weiland
Title: Principal

ACKNOWLEDGED BY:

THE BANK OF NEW YORK MELLON

By _____
Name: _____
Title: _____

BROOKLYN EVENTS CENTER, LLC

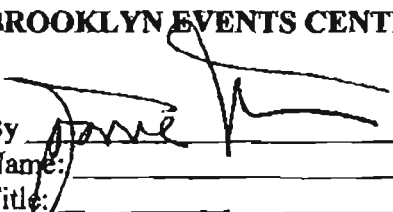
By  _____
Name: _____
Title: _____

Exhibit A to Requisition for Payment

Details of the requested Draw:

SEE ATTACHED

Exhibit B to Requisition for Payment

Description of notices from the Contractor: None

Description of variances:

Exhibit C to Requisition for Payment

Description of actions pending to revoke permits: **None**

Exhibit D to Requisition for Payment

Description of construction delays and/or cost overruns: **None**

Copy of Approved Budget Exhibit E to Requisition for Payment*

SEE ATTACHED

SCHEDULE A TO REQUISITION NO. 8

Amount

Payee (with address)

Purpose

Receipt is hereby acknowledged of a payment in the amount of \$ 70,522,342.22 in connection with the submission of the attached Requisition.

BROOKLYN EVENTS CENTER LLC]

By 

Name:

Title:

Date: _____

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
SUMMARY**

	(A) Original Budget	(B) Budget	(C) Revised Budget	(D) Originally Estimated	(E) Change	(F) + (D) + (E) Total Estimate	(G) - (C) - (F) Remaining Balance
1 Elite Acquisition Costs:							
2 Hard Costs:							
3 Trucks	124,125,125	0	124,125,125	124,125,125	0	124,125,125	0
4 GC / Civil Fee	471,704,488	(4,862,485)	466,841,943	50,917,899	7,887,728	58,804,625	408,417,567
5 GMP Contingency	60,634,032	1,746,000	62,380,032	14,155,477	1,200,904	18,085,381	46,374,651
6 Mini Add / Alternative Allowance for Site Rest. & FF&E	19,879,350	0	19,879,350	0	0	0	19,879,350
7 Preconstruction Estimating Services	0	0	0	0	0	0	0
8 Permits, Bonds	11,334,909	0	11,334,909	10,927,403	0	10,927,403	408,406
9 Owner's Testing/Survey	2,201,484	500,000	1,701,484	840,558	96,978	780,554	1,020,931
10 Owner's Design/Scope Contingency	1,540,908	500,000	1,040,908	369,062	115,870	504,921	1,535,087
11 Total Hard Costs	30,711,748	(1,800,000)	28,911,748	77,770,197	8,213,478	86,483,683	20,811,748
12 Soft Costs and Other:							
13 Architecture & Engineering	98,243,749	1,500,000	99,743,749	82,837,477	848,974	93,481,451	8,862,298
14 Legal	2,825,180	0	2,825,180	804,413	25,490	860,893	1,864,287
15 Development Costs	45,000,000	0	45,000,000	38,222,780	0	38,222,780	6,777,220
16 Insurance / Commissioning / Other	29,245,305	170,000	29,415,305	22,807,733	33,361	22,842,894	6,472,311
17 Development Contingency	3,514,840	3,088,285	6,603,125	1,025,648	2,417,771	3,441,319	3,133,906
18 Total Soft Costs & Other	188,108,454	4,718,285	192,826,739	152,701,393	3,335,644	156,037,037	28,715,415
19 Total Project Costs	304,281,733	0	304,281,733	235,127,243	12,431,918	308,055,227	83,138,518
20 Total AP				(358,195)	(7,310)	(365,145)	366,145
21 Total Liability	0	0	0	0	0	0	0
22 TOTAL USES	304,281,733	0	304,281,733	235,127,243	(7,310)	308,055,227	83,138,518
23 SOURCES							
24 Contribution from NYCHHS							
25 Tax-Exempt Bond Proceeds	(181,000,000)	0	(181,000,000)	(131,000,000)	0	(131,000,000)	0
26 Funds to Construction Account from Non-Asset Account Escrow	(516,598,997)	0	(516,598,997)	(112,801,430)	0	(112,801,430)	(397,098,567)
27 Projected Interest Earnings on Bond Fund (Pretax to Vacant Possession)	(1,057,282)	0	(1,057,282)	48,825	0	48,825	(46,875)
28 Projected Interest Earnings on Construction Account	(6,291,727)	0	(6,291,727)	(1,837,350)	0	(1,837,350)	(8,091,727)
29 Costs of Financing from Bond Proceeds and certain Interest Earnings							
30 Total Construction Account Sources	115,539,719	0	115,539,719	115,539,719	0	115,539,719	0
31 Additional Rent	(136,712,880)		(136,712,880)	(272,106,196)	(112,431,855)	(204,537,722)	(112,431,855)
32 Projected Interest Earnings on Non-Asset Account	(20,057)		(20,057)	(38,850)	0	(38,850)	0
33 Projected Interest Earnings on Additional Rent Account	(14,255)		(14,255)	2,262	0	2,262	(784,255)
34 Surplus Costs of Insurance Deposit to Additional Rent Account	0		0	0	0	0	(2,262)
35 Non-Asset Account Escrow	0		0	18,115,002	0	18,115,002	(18,115,002)
36 Deposit to Additional Rent Account from Non-Asset Account Escrow	0		0	0	0	0	0
37 Additional Rent Account Balance	0		0	0	0	0	0
38 Costs of Financing from Additional Rent and certain Interest Earnings							
39 Total Additional Rent Sources (Net of COF)	0		0	0	0	0	0
40 TOTAL SOURCES (NET OF COF)	115,539,719	0	115,539,719	115,539,719	0	115,539,719	115,539,719
41 Additional Rent Account at Vacant Possession (5-12-10):	115,539,719		115,539,719	115,539,719	0	115,539,719	115,539,719
42 Construction Account Balance at Vacant Possession (5-12-10):	0		0	0	0	0	0

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA BUILDING**

	(A) Arena Building Balanced	(B) Change Orders	(C) Reviewed Balanced	(D) Previously Expended	(E) Current Requisition	(F) = (D+E) Total Expended to Date	(G) = (C-F) Remaining Balance	(H) Relationship to Base
1 <u>Site Acquisition Costs:</u>	124,125,125	0	124,125,125	124,125,125	0	124,125,125	0	-
2 <u>Hard Costs:</u>	385,246,107	(3,236,385)	382,009,722	45,039,103	4,754,909	48,794,013	342,215,709	3,805,881
3 Trades	58,842,649	0	58,842,649	13,805,799	1,085,218	15,001,008	43,841,641	-
4 GC / CM Fee	19,879,350	0	19,879,350	0	0	0	19,879,350	-
5 GMP Contingency	0	0	0	0	0	0	0	-
6 Permit Add / Alternate Allowance for Site Reqs. & FF&E	8,914,565	0	8,914,565	8,914,565	0	8,914,565	0	-
7 Preconstruction Estimating Services	750,000	0	750,000	373,759	58,743	432,501	317,498	-
8 Permits, Bonds	1,341,007	0	1,341,007	388,052	103,283	492,346	848,662	-
9 Owner's Testing/Survey	22,819,332	0	22,819,332	0	0	0	22,819,332	-
10 Owner's Design/Scope Contingency	507,193,010	(3,236,385)	503,956,625	88,822,288	6,012,184	74,834,432	479,322,194	3,805,881
11 <u>Total Hard Costs</u>	83,238,818	(960,000)	82,278,818	86,733,764	883,864	87,417,723	4,861,086	-
12 <u>Soft Costs and Other:</u>	2,665,000	0	2,665,000	771,233	25,480	796,713	1,868,287	-
13 Architecture & Engineering	45,000,000	0	45,000,000	36,222,782	0	36,222,780	8,777,220	-
14 Legal	28,085,305	0	28,085,305	22,703,187	30,552	22,733,719	6,351,586	-
15 Development Costs	3,128,084	2,724,281	5,852,365	883,848	2,056,737	2,963,603	2,888,763	-
16 Project Expenses / Marketing	2,671,785	0	2,671,785	0	0	0	2,671,785	-
17 Insurance / Commissioning / Other	175,787,983	1,764,281	177,552,264	147,324,794	2,788,724	150,124,818	27,428,746	-
18 Development Contingency	807,105,138	(1,472,124)	805,633,014	340,872,186	8,811,888	349,684,074	455,948,940	3,805,881
19 <u>Total Soft Costs</u>	0	0	0	(351,016)	(7,310)	(368,326)	358,326	-
20 <u>Total AP</u>	0	0	0	(351,016)	(7,310)	(368,326)	358,326	-
21 <u>Total Liability</u>	0	0	0	(351,016)	(7,310)	(368,326)	358,326	-
22 <u>TOTAL USES</u>	807,105,138	(1,472,124)	805,633,014	339,721,171	8,804,578	348,525,750	457,107,265	3,805,881

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA STEWARK**

	(A) Arena Stewark Budget	(B) Budgeted Provisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D+E) Total Expended to date	(G) = (C-F) Remaining Budget	(H) Balance to Date
1	Site Acquisition Costs:	0	0	0	0	0	0	
2	Hard Costs:							
3	Trades	15,734,080	0	332,012	0	332,012	15,402,068	
4	GC / CM Fee	1,888,087	0	0	0	0	1,888,087	
5	GMP Contingency	0	0	0	0	0	0	
6	Hard Cost / Alternates Allowance for Site Reqs. & FF&E	0	0	0	0	0	0	
7	Preconstruction Estimating Services	150,000	0	31,598	0	31,598	118,402	
8	Permits, Bonds	354,016	0	0	(848)	(848)	354,864	
9	Owner's Testing/Survey	198,901	0	0	0	0	198,901	
10	Owner's Design/Scope Contingency	1,817,284	0	0	0	0	1,817,284	
11	Total Hard Costs	20,143,348	0	363,610	(848)	362,762	19,780,586	
12								
13	Soft Costs and Other:							
14	Architecture & Engineering	2,480,631	980,000	2,787,872	86,470	2,874,342	556,289	
15	Legal	0	0	0	0	0	0	
16	Development Costs	0	0	0	0	0	0	
17	Project Expenses / Marketing	160,000	45,000	170,450	1,183	171,633	33,367	
18	Insurance / Commissioning / Other	86,676	72,025	31,017	81,887	112,903	45,787	
19	Development Contingency	0	0	0	0	0	0	
20	Total Soft Costs & Other	2,707,307	1,077,025	2,989,339	149,540	3,138,879	835,468	
21								
22	Total Project Costs	22,850,655	1,077,025	3,357,149	148,662	3,505,811	20,418,041	
23								
24	Total AP	0	0	0	0	0	0	
25								
26	Total Liability	0	0	0	0	0	0	
27								
28	TOTAL USES	22,850,655	1,077,025	3,357,149	148,662	3,505,811	20,418,041	
29								

**EXHIBIT A
BARCLAYS ARENA
REQUISITION # 8
ARENA MITIGATION**

	(A) Arena Mitigation Budget	(B) Budget Revisions	(C) Revised Budget	(D) Previously Expended	(E) Current Requisition	(F) = (D)+(E) Total Expended to date	(G) = (C)-(F) Remaining Balance	(H) Rate Page To Date
1 <u>Site Acquisition Costs:</u>	0	0	0	0		0	0	
2								
3 <u>Hard Costs:</u>								
4 Trades	2,200,800	0	2,200,800	80,690		80,690	2,120,110	
5 GC / CM Fee	163,286	0	163,286	0		0	163,286	
6 GMP Contingency	0	0	0	0		0	0	
7 Hunt Add / Alternate Allowance for Site Reqs. & FF&E	0	0	0	0		0	0	
8 Preconstruction Estimating Services	50,000	0	50,000	0		0	50,000	
9 Permits, Bonds	30,618	0	30,618	0		0	30,618	
10 Owner's Testing/Survey	0	0	0	0		0	0	
11 Owner's Design/Scope Contingency	241,172	0	241,172	0		0	241,172	
12 <u>Total Hard Costs</u>	<u>2,585,086</u>	<u>0</u>	<u>2,585,086</u>	<u>80,690</u>	<u>0</u>	<u>80,690</u>	<u>2,504,396</u>	<u>-</u>
13								
14 <u>Soft Costs and Other:</u>								
15 Architecture & Engineering	28,451	0	28,451	28,451		28,451	0	
16 Legal	0	0	0	0		0	0	
17 Development Costs	0	0	0	0		0	0	
18 Project Expenses / Marketing	0	0	0	0		0	0	
19 Insurance / Commissioning / Other	17,010	0	17,010	0		0	17,010	
20 Development Contingency	0	0	0	0		0	0	
21 <u>Total Soft Costs & Other</u>	<u>45,461</u>	<u>0</u>	<u>45,461</u>	<u>28,451</u>	<u>0</u>	<u>28,451</u>	<u>17,010</u>	<u>-</u>
22								
23 <u>Total Project Costs</u>	<u>2,732,547</u>	<u>0</u>	<u>2,732,547</u>	<u>110,141</u>	<u>0</u>	<u>110,141</u>	<u>2,622,406</u>	<u>-</u>
24								
25 <u>Total AP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>-</u>
26								
27 <u>Total Liability</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>-</u>
28								
29 <u>TOTAL USES</u>	<u>2,732,547</u>	<u>0</u>	<u>2,732,547</u>	<u>110,141</u>	<u>0</u>	<u>110,141</u>	<u>2,622,406</u>	<u>-</u>

**ARENA
REQUISITION #8**

Sum of Reg #8	Regulation Sheet					
Regulation Line	Vendor Name	Invoice	ARENA-BIDS	ARENA-TRANSP	ARENA-INTERIOR	Grand Total
04 - Trades	Hunt Construction Group Inc.	APP1287-011 BA	4,712,487.13			4,712,487.13
	Hunt Construction Group Inc. Total		4,712,487.13			4,712,487.13
	John Chvetta and Sons, Inc.	APP004-1878		2,832,817.00		2,832,817.00
	John Chvetta and Sons, Inc. Total			2,832,817.00		2,832,817.00
	SimplexGrinnell LP	APP002-1928	42,412.21			42,412.21
	SimplexGrinnell LP Total		42,412.21			42,412.21
04 - Trades Total			4,754,906.34	2,832,817.00		7,587,723.34
05 - GC/CM Fee	Hunt Construction Group Inc.	APP1287-011 BA	1,085,218.97			1,085,218.97
	Hunt Construction Group Inc. Total		1,085,218.97			1,085,218.97
	John Chvetta and Sons, Inc.	APP004-1878		114,885.00		114,885.00
	John Chvetta and Sons, Inc. Total			114,885.00		114,885.00
05 - GC/CM Fee Total			1,085,218.97	114,885.00		1,200,103.97
06 - Permits & Bonds	Aon Risk Services Company	14800000063688	(21,297.50)	(2,855.00)	(847.50)	(25,000.00)
	Aon Risk Services Company Total		(21,297.50)	(2,855.00)	(847.50)	(25,000.00)
	Jam Consultants Inc.	APP002	80,040.00			80,040.00
	Jam Consultants Inc. Total		80,040.00			80,040.00
	John Chvetta and Sons, Inc.	APP004-1878		44,838.00		44,838.00
	John Chvetta and Sons, Inc. Total			44,838.00		44,838.00
06 - Permits & Bonds Total			58,742.50	42,083.00	(847.50)	99,978.00
10 - Owners Testing	Atlantic Engineering Laborator	APP001-1941		12,578.82		12,578.82
	Atlantic Engineering Laborator Total	APP005-1860	75,883.14			75,883.14
	Atlantic Engineering Laborator Total		75,883.14	12,578.82		88,461.96
	Langan Engineering & Environ.	APPS-0188778	27,428.95			27,428.95
	Langan Engineering & Environ. Total		27,428.95			27,428.95
10 - Owners Testing Total			103,312.09	12,578.82		115,890.91
15 - Architecture & Engineering	Burwood Group, Inc.	APP#6	8,890.44			8,890.44
	Burwood Group, Inc. Total	APP#7	15,227.03			15,227.03
	Hunt Construction Group Inc.	APP1287-011 BA	408,871.00			408,871.00
	Hunt Construction Group Inc. Total		408,871.00			408,871.00
	Lovell Silverman Construction	APP12-02833381N	11,722.25			11,722.25
	Lovell Silverman Construction Total		11,722.25			11,722.25
	Shop Architects PC	090705-19 Plaza			88,489.84	88,489.84
	Shop Architects PC	090705-19 Rev	248,333.98			248,333.98
	Shop Architects PC Total		248,333.98		88,489.84	336,823.82
	Stantec Consulting Services Inc	APP12-448578		88,550.18		88,550.18
	Stantec Consulting Services Inc. Total			88,550.18		88,550.18
15 - Architecture & Engineering Total			683,954.28	88,550.18	88,489.84	861,094.30
16 - Legal	Howery, LLP	9010044130	141.00			141.00
	Howery, LLP	9010044803	1,410.00			1,410.00
	Howery, LLP Total	9010048852	283.87			283.87
	Paul Weiss, Rind & Wharton	245333	3,982.28			3,982.28
	Paul Weiss, Rind & Wharton Total	245334	8,593.35			8,593.35
	Thompson Hine And Flory	2358894	9,182.58			9,182.58
	Thompson Hine And Flory	2358895	788.75			788.75
	Thompson Hine And Flory	2374739	824.00			824.00
	Thompson Hine And Flory Total	2378239	2,284.28			2,284.28
16 - Legal Total			13,089.81			13,089.81
18 - Project Expenses/Marketing	Darryl E. Greene & Associates	BEC-2010-8	28,291.44	3,525.38	1,183.17	31,000.00
	Darryl E. Greene & Associates Total		28,291.44	3,525.38	1,183.17	31,000.00
	Bardon LLP	1179247	4,281.00			4,281.00
	Bardon LLP Total		4,281.00			4,281.00
18 - Project Expenses/Marketing Total			30,582.44	3,525.38	1,183.17	35,291.00
25 - Total AP	Fried, Frank, Harris, Sturver	108385	(7,309.72)			(7,309.72)
	Fried, Frank, Harris, Sturver Total		(7,309.72)			(7,309.72)
25 - Total AP Total			(7,309.72)			(7,309.72)
19 - Insurance/Commissioning/Other	Wills of New York, Inc.	1007828	987,158.25	132,384.37	38,205.38	1,157,748.00
	Wills of New York, Inc.	1009462	1,072,577.98	143,782.61	42,681.53	1,259,042.10
	Wills of New York, Inc. Total		2,059,736.23	276,166.98	81,886.91	2,417,771.10
19 - Insurance/Commissioning/Other Total			2,059,736.23	276,166.98	81,886.91	2,417,771.10
Grand Total			8,184,578.38	3,478,884.32	148,482.22	12,431,844.79

OWNER CHANGE ORDER SUMMARY

	Total Previous Change Orders	Change Order Value	Cumulative Total	As Budgeted on OPA
40 Budget Transfer from site req to United Fence	\$ 3,147,367.00	\$ -	\$ 478,902,874.00	\$ -
41 Budget Transfer Temps site to MFM Contract	\$ 3,147,367.00	\$ -	\$ 478,902,874.00	\$ -
42 Budget Transfer Temps site to MFM SCO-01	\$ 3,147,367.00	\$ -	\$ 478,902,874.00	\$ -
43 Additional SOE for Con Ed Vault	\$ 3,147,367.00	\$ 21,005.00	\$ 478,923,879.00	\$ 21,005.00
44 Add'l Engineering to Previous SOE Plans	\$ 3,168,372.00	\$ 23,077.00	\$ 478,946,956.00	\$ 23,077.00
45 OT work in prep for Owner Visit	\$ 3,191,449.00	\$ 16,797.00	\$ 478,963,753.00	\$ 16,797.00
46 Budget Transfr Install of 1st Phase of Crane Pad	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
47 Budget Transfr EJ Ermo Generator enclosure	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
48 Budget Transfer Laquilla PPE Mobil Lot	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
49 Budget Transfer Laquilla Lay Down Area Banker	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
50 Budget Transfer United Hoist Ph 2 Sidewalk Br	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
51 FCRC Vold Change Order	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
52 Budget Transfer COW GC Mockups	\$ 3,208,246.00	\$ -	\$ 478,963,753.00	\$ -
\$ 3,208,246.00				
FCRC Contract Value				\$ 478,963,753.00
CCE				\$ 8,839,018.00
Should match contract value on Comb OPA				\$ 487,802,771.00

OWNER CHANGE ORDER SUMMARY

	Original Contract Value less CCE	Budget Transfer (Low Voltage Scope from Division 17 to Division 18)	Total Previous Change Orders	Change Order Value	Cumulative Total	As Budgeted on OPA
1			0		\$ 475,755,507.00	\$ 475,755,507.00
2		Banker Steel OCIP Deduct	\$ -		\$ 475,755,507.00	\$ -
3		Budget Transfer	\$ (895,700.00)	\$ (895,700.00)	\$ 474,859,807.00	\$ (895,700.00)
4		Laquila OCIP Deduct SCO #1	\$ (895,700.00)		\$ 474,859,807.00	\$ -
5		Almar OCIP Deduct	\$ (2,666,621.00)	\$ (1,770,921.00)	\$ 473,088,886.00	\$ (1,770,921.00)
6		Design - On Grade Bus Ramp	\$ (2,886,621.00)	\$ (220,000.00)	\$ 472,868,886.00	\$ (220,000.00)
7		Design - Wind/Falling Ice	\$ (2,829,305.00)	\$ 57,316.00	\$ 472,926,202.00	\$ 57,316.00
8		Design - Sight line Study for Hockey	\$ (2,858,805.00)	\$ (28,500.00)	\$ 472,896,702.00	\$ (29,500.00)
9		United Hotel - Upgrade Fence	\$ (2,855,877.00)	\$ 2,928.00	\$ 472,899,630.00	\$ 2,928.00
10		United Hotel - Fence @ Lot 21 Demo	\$ (2,605,883.00)	\$ 249,994.00	\$ 473,149,624.00	\$ 249,994.00
11		Reassign Structural Precast to Banker	\$ (2,379,511.00)	\$ 226,372.00	\$ 473,375,996.00	\$ 226,372.00
12		United Hotel Ph 2 Upgrade	\$ (2,379,511.00)		\$ 473,375,996.00	\$ -
13		Laquila - Waste Disposal SCO #2	\$ (1,824,731.00)	\$ 554,780.00	\$ 473,930,776.00	\$ 554,780.00
14		Oris OCIP Deduct	\$ 5,922,219.00	\$ 7,746,950.00	\$ 481,677,726.00	\$ 7,746,950.00
15		ASJ OCIP Deduct	\$ 5,869,057.00	\$ (53,162.00)	\$ 481,624,584.00	\$ (53,162.00)
16		Separate CCE and GMP	\$ 4,802,957.00	\$ (1,066,100.00)	\$ 480,558,484.00	\$ (1,066,100.00)
17		H Mak Inc OCIP	\$ 4,802,957.00	\$ 0.00	\$ 480,558,484.00	\$ -
18		American Stair OCIP	\$ 4,649,757.00	\$ (153,200.00)	\$ 480,405,284.00	\$ (153,200.00)
19		GC's & Fee to Hunt for Fence Upgrade Addition OCO 12	\$ 4,628,841.00	\$ (20,916.00)	\$ 480,384,368.00	\$ (20,916.00)
20		Con Ed Network Room Relocate	\$ 4,680,759.00	\$ 51,918.00	\$ 480,436,286.00	\$ 51,918.00
21		Reconciliation of previous OCO 1 thru 20	\$ 4,755,759.00	\$ 75,000.00	\$ 480,511,286.00	\$ 75,000.00
22		Super Haz Material Trucking	\$ 4,755,759.00	\$ -	\$ 480,511,286.00	\$ -
23		Budget Transfer Façade Allowance to ASI for Signage	\$ 5,079,014.00	\$ 323,255.00	\$ 480,834,521.00	\$ 323,255.00
24		For Early Payment to ASI	\$ 5,079,014.00		\$ 480,834,521.00	\$ -
25		United Hotel Ph 2 OCIP	\$ 4,644,014.00	\$ (435,000.00)	\$ 480,399,521.00	\$ (435,000.00)
26		OCIP Deduct EJ/Ermo	\$ 4,513,014.00	\$ (131,000.00)	\$ 480,268,521.00	\$ (131,000.00)
27		JE Thompson OCIP Deduct	\$ 4,057,389.00	\$ (455,625.00)	\$ 479,812,896.00	\$ (455,625.00)
28		Slaging Concept OCIP Deduct	\$ 4,052,389.00	\$ (5,000.00)	\$ 479,807,896.00	\$ (5,000.00)
29		Site Security COW-GC transfer	\$ 3,972,501.00	\$ (79,888.00)	\$ 479,728,008.00	\$ (79,888.00)
30		Commodore OCIP Deduct	\$ 3,972,501.00		\$ 479,728,008.00	\$ -
31		Deduct Food carts from H Mak scope	\$ 3,693,501.00	\$ (279,000.00)	\$ 479,449,008.00	\$ (279,000.00)
32		Design Elevator Hoistway	\$ 3,000,780.00	\$ (692,721.00)	\$ 478,756,287.00	\$ (692,721.00)
33		Hunt Laquila Haz & Super Haz Disposal	\$ 3,030,023.00	\$ 29,243.00	\$ 478,785,530.00	\$ 29,243.00
34		Design Con Ed Network Rev Rm Layout	\$ 3,062,353.00	\$ 32,330.00	\$ 478,817,860.00	\$ 32,330.00
35		Partial September Reconciliation	\$ 3,065,473.00	\$ 3,120.00	\$ 478,820,980.00	\$ 3,120.00
36		Add Pass thru Window w/ Heat lamp	\$ 3,065,473.00	\$ -	\$ 478,820,980.00	\$ -
37		Relocate gate, remove plywood; replace chainlink fence per DOT / DOB	\$ 3,127,268.00	\$ 61,795.00	\$ 478,882,775.00	\$ 61,795.00
38		Budget Transfer for Laquila SCO-8	\$ 3,147,367.00	\$ 20,099.00	\$ 478,902,874.00	\$ 20,099.00
39		Budget Transfer Ceveta from excav to COW GC	\$ 3,147,367.00	\$ -	\$ 478,902,874.00	\$ -

0001 - Committed Contracts with Changes (Fixed)

HUNT_ARENA

Period from 01/01/1980 to 11/23/2010

52009: Atlantic Yards
11/23/2010 9:03:18AM
Page 8 of 9

Job Number	Job Title	Number	Date Entered	Date Approved	Description/Title	Line Item ID - Description	Approved Contract	Approved Change Order	Revised Contract	Pending Contract	Pending Change Order
2101-0030-00	Change Order	00001653-CR0014	07/23/10	10/06/10	AL SC-05C - Biegling Concepts Inc. - Ornamental Metals - Rallir	002 - ALSC-05C - ornamental metals/railings and portable platforms	3,232,367.00	0.00	3,232,367.00	0.00	0.00
					Change Order 00001653-CR0014 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0015	09/02/10	11/15/10	ALSC-13B - Ice Floor and Dasherboards - Clinco Refrigeration I	001 - Transfer from trades budget to SC-13B for Ice Floor & Dash	(3,450,600.00)	0.00	(3,450,600.00)	0.00	0.00
					Change Order 00001653-CR0015 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0016	09/02/10	09/24/10	AL SC-14 Truck Turntable - J.E. Thompson and Co.	001 - AL SC-14 to design, furnish and install of one steel deck in	(724,000.00)	0.00	(724,000.00)	0.00	0.00
					Change Order 00001653-CR0016 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0017	09/30/10	10/21/10	AL SC-03A Superstructure Concrete - Commodore Construction	001 - AL SC-03A Superstructure Concrete	(9,070,000.00)	0.00	(9,070,000.00)	0.00	0.00
					Change Order 00001653-CR0017 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0018	10/25/10	11/04/10	Hunt - Award of the GMP Contingency from Trades Budget to C	001 - Award of the GMP Contingency from Trades Budget to C	(19,879,310.00)	0.00	(19,879,310.00)	0.00	0.00
					Change Order 00001653-CR0018 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0019	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	012 - Redlass Ellerbe Beckel Consultants to Single Cost Code	4,551,475.00	0.00	4,551,475.00	0.00	0.00
					Change Order 00001653-CR0019 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0020	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	010 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(910,000.00)	0.00	(910,000.00)	0.00	0.00
					Change Order 00001653-CR0020 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0021	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	008 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(234,000.00)	0.00	(234,000.00)	0.00	0.00
					Change Order 00001653-CR0021 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0022	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	002 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(2,250,000.00)	0.00	(2,250,000.00)	0.00	0.00
					Change Order 00001653-CR0022 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0023	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	001 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(18,000.00)	0.00	(18,000.00)	0.00	0.00
					Change Order 00001653-CR0023 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0024	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	009 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(38,000.00)	0.00	(38,000.00)	0.00	0.00
					Change Order 00001653-CR0024 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0025	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	011 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(48,000.00)	0.00	(48,000.00)	0.00	0.00
					Change Order 00001653-CR0025 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0026	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	004 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(180,000.00)	0.00	(180,000.00)	0.00	0.00
					Change Order 00001653-CR0026 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0027	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	009 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(33,000.00)	0.00	(33,000.00)	0.00	0.00
					Change Order 00001653-CR0027 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0028	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	003 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(53,475.00)	0.00	(53,475.00)	0.00	0.00
					Change Order 00001653-CR0028 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0029	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	007 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(245,000.00)	0.00	(245,000.00)	0.00	0.00
					Change Order 00001653-CR0029 Total		0.00	0.00	0.00	0.00	0.00
2101-0030-00	Change Order	00001653-CR0030	07/13/10	07/13/10	Hunt - Redlass Ellerbe Beckel Consultants to Single Cost Code	005 - Redlass Ellerbe Beckel Consultants to Single Cost Code	(560,000.00)	0.00	(560,000.00)	0.00	0.00
					Change Order 00001653-CR0030 Total		0.00	0.00	0.00	0.00	0.00
					Revised Contract 00001653 Total		475,755,597.00	(5,211,995.00)	470,543,602.00	0.00	80,811.00
					Hunt Construction Group, Inc. (HUNCON) Total		475,755,597.00	(5,211,995.00)	470,543,602.00	0.00	80,811.00
					Grand Total		475,755,597.00	(5,211,995.00)	470,543,602.00	0.00	80,811.00

Total

TRANSIT CONNECTIONS

Period from 01/01/1990 to 11/23/2010

Year	Job Number	Number	Project Title	Date Entered	Date Approved	Description Title	Approved Contracts	Approved Change Orders	Revised Contracts	Pending Contracts	Pending Change Orders
						Uma Barn ID - Description	248,300.00	237,551.00	485,861.00	8.00	0.00
						WSP Flack & Kurtz, Inc. (FLAKUR) Total	58,518,149.43	6,569,712.63	66,087,861.96	170,289.00	524,479.00
						Grand Total					

Total
 PLO

Hunt Construction Inventory of Stored Material

Contractor Name

SUMMARY OF MATERIALS IN STORAGE- REQUISITION NO. 1287-011 November 2010

PROJECT NAME

Barclays Center Arena
Brooklyn, NY

GENERAL CONTRACTOR

Hunt Construction Group, Inc.

MATERIALS LOCATED AT:

Various Subcontractors Listed

Description of Material	Quantity	Unit Price	Previously Stored	Value Withdrawn	Value Added	Presently in Storage	Amount of this Requisition
Bankers Steel Co			\$ 4,890,950.00	\$ 1,836,400.00	\$ 2,387,155.00	\$ 5,441,705.00	\$ 990,755.00
ASI Limited			\$ 2,335,650.00		\$ 448,250.00	\$ 2,783,900.00	\$ 448,250.00
ASM Mechanical			\$ 594,000.00		\$ 706,000.00	\$ 1,300,000.00	\$ 706,000.00
EJ/ERMCO JV			\$ -		\$ 15,600.00	\$ 15,600.00	\$ 15,600.00
Totals			\$ 7,820,600.00	\$ 1,836,400.00	\$ 3,557,005.00	\$ 9,541,205.00	\$ 2,160,605.00

SF 364



Work Permit Department of Buildings

Permit Number: 320100234-01-NB

Issued: 11/22/2010

Expires: 09/01/2011

Address: BROOKLYN

620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

NEW BUILDING - REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.



Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

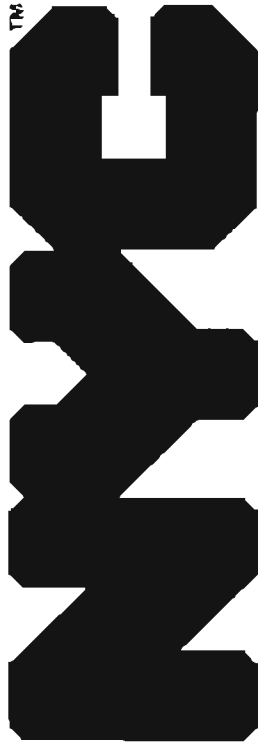
Borough Commissioner:

John Lee, P.A.

Commissioner of Buildings:

Robert L. Di

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



Buildings

Work Permit Department of Buildings

Permit Number: 320100234-01-EQ-FN

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN

620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

NEW BUILDING - CONSTRUCTION EQUIPMENT - FENCE REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.



Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert L. L...

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Buildings

Work Permit Department of Buildings

Permit Number: 320140682-02-KW-07

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - SHEET/SHOR/BRAC APPLICATION FILED FOR SHEETING, SHORING AND BRACING DETAILS IN CONJUNCTION WITH SUPPORT OF EXCAVATION ALONG ATLANTIC AVENUE.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert L. L...

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



Work Permit Department of Buildings

Permit Number: 320148782-01-SW-OT

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: ROBERT WOODS

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - SHEET/SBOR/BRAC APPLICATION FILED FOR WORK ALONG FLATBUSH AVENUE TO FACILITATE THE INSTALLATION OF THE UTILITIES IN FLATBUSH AVENUE. NO FOUNDATION WORK WILL BE DONE UNDER THIS APPLICATION.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

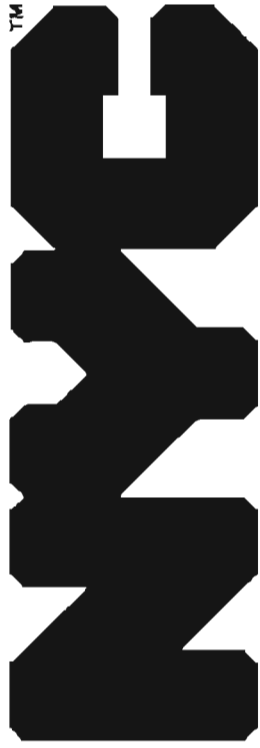
Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert A. Lee

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Buildings

Work Permit Department of Buildings

Permit Number: 320140682-01-EW-OT

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN

620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - FOUNDATION APPLICATION FILED FOR FOUNDATION WORK ALONG ATLANTIC AVENUE TO FACILITATE THE INSTALLATION OF THE UTILITIES IN ATLANTIC AVENUE.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert L. Di

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Buildings

Work Permit Department of Buildings

Permit Number: 320140682-02-KW-OT

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - SHEET/SHEOR/BRAC APPLICATION FILED FOR SHEETING, SHORING AND BRACING DETAILS IN CONJUNCTION WITH SUPPORT OF EXCAVATION ALONG ATLANTIC AVENUE.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2009, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert M. L...

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Buildings

Work Permit Department of Buildings

Permit Number: 320140682-01-BW-OT

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - FOUNDATION APPLICATION FILED FOR FOUNDATION WORK ALONG ATLANTIC AVENUE TO FACILITATE THE INSTALLATION OF THE UTILITIES IN ATLANTIC AVENUE.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert Lieber

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



Buildings

Work Permit Department of Buildings

Permit Number: 320100234-01-NB

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

NEW BUILDING - REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.



Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert Di

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



Buildings

Work Permit Department of Buildings

Permit Number: 320100234-01-EQ-FN

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: MARK GLADDEN

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

NEW BUILDING - CONSTRUCTION EQUIPMENT - FENCE REVIEW FOR ZONING, NEW BUILDING CONSTRUCTION.



Review is requested under Building Code: 2008

SITE FILL: ON-SITE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert L. Li

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.



Buildings

Work Permit Department of Buildings

Permit Number: 320148782-01-EW-OT

Issued: 11/22/2010 Expires: 09/01/2011

Address: BROOKLYN 620 ATLANTIC AVENUE

Issued to: ROBERT WOODS

Business: HUNT CONSTRUCTION GROUP

Contractor No: GC-604041

Description of Work:

ALTERATION TYPE 2 - SHEET/SBOR/BRAC APPLICATION FILED FOR WORK ALONG FLATBUSH AVENUE TO FACILITATE THE INSTALLATION OF THE UTILITIES IN FLATBUSH AVENUE. NO FOUNDATION WORK WILL BE DONE UNDER THIS APPLICATION.



Review is requested under Building Code: 2008

SITE FILL: NOT APPLICABLE

To see a Zoning Diagram (ZD1) or to challenge a zoning approval filed as part of a New Building application or Alteration application filed after 7/13/2008, please use "My Community" on the Buildings Department web site at www.nyc.gov/buildings.

Emergency Telephone Day or Night: 311 SITE SAFETY PHONE : 212 669-7043

Borough Commissioner:

John Lee, R.A.

Commissioner of Buildings:

Robert L. White

Tampering with or knowingly making a false entry in or falsely altering this permit is a crime that is punishable by a fine, imprisonment or both.

HELLER AND JOHNSEN

Geotechnical Engineering Consultants

November 17, 2010
File No. 19295

Hayward Baker, Inc.
260 Green Street
South Hackensack, New Jersey 07606

Attn.: Mr. Todd Culp

Re.: Brooklyn Arena Mass Transit
New York, New York

SUBMITTAL RECEIVED
STANTEC CONSULTING ENGINEERS-LANDSCAPE ARCHITECTS-PLANNERS 50 WEST 23RD STREET, NEW YORK, NY 10010-5205
REVIEWING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND THE GENERAL COMPLIANCE WITH THE SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION AND FOR COORDINATION OF HIS/HER WORK WITH THAT OF ALL OTHER TRADES.
<input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> DISAPPROVED
REVIEWED BY <u>S. LEFERME</u> DATE <u>12/02/2010</u>

DEC 01 2010

IVETTA & SONS, INC.

Dear Mr. Culp:

The second test pile was installed on October 22, 2010 and its load test started on October 27, 2010. The design load is 250 tons and its test load is 500 tons.

Between the 99th hour and the 147th hour, the pile top deflection based on the average dial gauge reading changed from 1.274 inches to 1.286 inches. This change meets the project's specifications for the test load's creep criteria of 0.012 inches in a 48 hour period.

The load test also meets the two test acceptance criteria in the project's specification. The load test meets the first criteria because its gross settlement is less than 5 inches. The load test also meets the second criteria because the gross settlement as of test hold hour 147 minus the pile's theoretical elastic shortening of 1,005 inches is 0.281 inches, which is less than 0.75 inches. The calculations for the theoretical elastic shortening of the pile are attached.

On November 8, 2010, the pile was reloaded to 150% of the design load and failure did not occur. The pile is therefore acceptable for a design load of 250 tons.

Very truly yours,



Michal D. Thomas, P.E.



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DEC 03 2010

Stantec Consulting

PROJECT: Brooklyns Avenue Mass Transit
 PILE NO.: Test Pile 2, Design Load 250 Tons

PROJECT: Brooklyn Avenue Mass Transit PILE NO.: Test Pile 2, Design Load 240 Tons													
LOAD INCR.	TIME INCR. (MIN)	TIME (HRS)	LOAD (TONS)	GAGE PRESS. FOR LOAD (PSI)	ACTUAL GAGE PRESS. (PSI)	DIAL READINGS (INCHES)				AVG. DISPL. (IN)	WIRE READING (IN)	WIRE DISPL. (IN)	NOTES
						GAUGE 1 READ	GAUGE 1 DISPL	GAUGE 2 READ	GAUGE 2 DISPL	GAUGE 3 READ	GAUGE 3 DISPL		
10%	0	08:11	25	250	750	1.955	0.045	1.920	0.080	1.978	0.022	0.049	2 1764
25%	0.5	08:17	62.5	750	750	1.954	0.046	1.920	0.080	1.977	0.023	0.050	2 1764
	1	08:18				1.954	0.046	1.920	0.080	1.977	0.023	0.050	2 1764
	2	08:19				1.953	0.047	1.919	0.081	1.977	0.023	0.050	2 1864
	4	08:21				1.953	0.048	1.918	0.082	1.976	0.024	0.051	2 1864
	8	08:25				1.951	0.049	1.917	0.083	1.976	0.024	0.052	2 1864
	15	08:32				1.950	0.050	1.916	0.084	1.975	0.025	0.053	2 1864
	30	08:47				1.949	0.051	1.915	0.085	1.975	0.025	0.054	2 1764
	60	09:17											
50%	0.5	09:19	125	1450	1450	1.866	0.134	1.828	0.172	1.901	0.097	0.134	2 2364
	1	09:19				1.864	0.136	1.827	0.173	1.902	0.098	0.136	2 2364
	2	09:20				1.864	0.136	1.826	0.174	1.901	0.099	0.136	2 2364
	4	09:22				1.863	0.137	1.825	0.175	1.901	0.099	0.137	2 2364
	8	09:26				1.862	0.138	1.825	0.175	1.900	0.100	0.138	2 2364
	15	09:33				1.861	0.139	1.824	0.176	1.900	0.100	0.138	2 2464
	30	09:48				1.860	0.140	1.823	0.177	1.899	0.101	0.139	2 2464
	60	10:18				1.859	0.141	1.822	0.178	1.898	0.102	0.140	2 2464
75%	0.5	10:21	187.5	2175	2175	1.768	0.232	1.726	0.274	1.811	0.189	0.232	2 3064
	1	10:22				1.766	0.234	1.724	0.276	1.809	0.191	0.234	2 3064
	2	10:23				1.765	0.235	1.724	0.276	1.808	0.192	0.234	2 3064
	4	10:25				1.764	0.236	1.722	0.278	1.808	0.192	0.235	2 3064
	8	10:29				1.764	0.236	1.721	0.279	1.807	0.193	0.236	2 3064
	15	10:36				1.763	0.237	1.720	0.280	1.806	0.194	0.237	2 3064
	30	10:51				1.761	0.239	1.719	0.281	1.805	0.195	0.238	2 3064
	60	11:21				1.760	0.240	1.718	0.282	1.804	0.196	0.239	2 3064
100%	0.5	11:23	250	2875	2875	1.647	0.313	1.635	0.365	1.723	0.277	0.318	2 3664
	1	11:23				1.644	0.316	1.634	0.366	1.723	0.277	0.320	2 3664
	2	11:24				1.644	0.316	1.633	0.367	1.723	0.277	0.320	2 3664
	4	11:26				1.643	0.317	1.631	0.369	1.723	0.277	0.321	2 3664
	8	11:30				1.641	0.319	1.630	0.370	1.722	0.278	0.322	2 3664
	15	11:37				1.640	0.320	1.629	0.371	1.720	0.280	0.324	2 3664
	30	11:52				1.638	0.322	1.627	0.373	1.719	0.281	0.325	2 3664
	60	12:22				1.637	0.323	1.625	0.375	1.717	0.283	0.327	2 3664
	90	12:52				1.634	0.326	1.623	0.377	1.714	0.286	0.330	2 3664
	120	13:22				1.633	0.325	1.622	0.374	1.716	0.284	0.328	2 3664
125%	0.5	13:27	312.5	3600	3600	1.538	0.412	1.525	0.475	1.621	0.379	0.422	2 4264
	1	13:27				1.535	0.415	1.522	0.478	1.617	0.383	0.425	2 4264
	2	13:28				1.534	0.416	1.521	0.479	1.616	0.384	0.426	2 4364
	4	13:30				1.533	0.417	1.520	0.480	1.615	0.385	0.427	2 4364
	8	13:34				1.531	0.419	1.518	0.482	1.613	0.387	0.429	2 4364
	15	13:41				1.529	0.421	1.516	0.484	1.611	0.389	0.431	2 4364
	30	13:56				1.527	0.423	1.514	0.486	1.610	0.390	0.433	2 4364
	45	14:11				1.526	0.424	1.513	0.487	1.608	0.392	0.434	2 4364
	60	14:26				1.525	0.425	1.512	0.488	1.607	0.393	0.435	2 4364
	75	14:41				1.524	0.426	1.511	0.489	1.606	0.394	0.436	2 4364
	90	14:56				1.523	0.427	1.510	0.490	1.605	0.395	0.437	2 4364
	105	15:11				1.522	0.428	1.509	0.491	1.604	0.396	0.437	2 4364
	120	15:26				1.521	0.429	1.508	0.492	1.603	0.397	0.438	2 4364
	135	15:41				1.520	0.430	1.507	0.493	1.602	0.398	0.438	2 4364
150%	0.5	15:37	375	4300	4300	1.422	0.518	1.404	0.598	1.505	0.494	0.536	2 5064
	1	15:38				1.421	0.519	1.403	0.599	1.502	0.498	0.538	2 5064
	2	15:39				1.420	0.520	1.402	0.600	1.500	0.500	0.540	2 5064
	4	15:41				1.418	0.522	1.399	0.601	1.498	0.502	0.542	2 5064
	8	15:41				1.416	0.524	1.397	0.603	1.496	0.504	0.544	2 5064

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DEC 01 2011

JOHN GIVETTA & SONS

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DEC 01 2010

JOHN GIVETTA & SONS, INC.

PROJECT: Brooklyn Avenue Mass Transist FILE NO.: Test Pile 2, Design Load 250 Tons										FILE NO.: 19295 DATE: 10/27/2010 to 1/18/2010		NOTES		
LOAD INCREMENT	TIME INCREM. (MIN)	TIME (HRS)	LOAD (TONS)	GAGE PRESS. FOR LOAD (PSI)	ACTUAL GAGE PRESS. (PSI)	DIAL READINGS (INCHES)								
						GAUGE 1 READ	GAUGE 1 DISPL.	GAUGE 2 READ	GAUGE 2 DISPL.	GAUGE 3 READ	GAUGE 3 DISPL.	AVG. DISPL. (IN.)	WIRE READING (IN)	WIRE DISPL. (IN.)
	15	15:48			4280	1.474	0.526	1.395	0.605	1.494	0.506	0.546	2.5164	39164
	30	16:03			4280	1.471	0.529	1.392	0.608	1.491	0.509	0.549	2.5164	39164
	45	16:18			4240	1.469	0.531	1.390	0.610	1.490	0.510	0.550	2.5164	39164
	60	16:33			4225	1.468	0.532	1.389	0.611	1.488	0.512	0.552	2.5164	39164
	75	16:48			4210	1.468	0.532	1.389	0.611	1.488	0.512	0.552	2.5164	39164
	90	17:03			4210	1.467	0.533	1.388	0.612	1.487	0.513	0.553	2.5264	40664
	105	17:18			4200	1.466	0.534	1.387	0.613	1.487	0.513	0.553	2.5264	40664
	120	17:33			4200	1.465	0.535	1.386	0.614	1.486	0.514	0.554	2.5264	40664
	135	17:48			4200	1.463	0.535	1.386	0.614	1.486	0.514	0.554	2.5264	40664
	0	17:50			4300									
	15	17:58			4350	1.307	0.693	1.724	0.776	1.725	0.675	0.715	2.6364	51164
	30	18:12			4325	1.303	0.697	1.720	0.780	1.721	0.679	0.719	2.6364	51164
	45	18:28			4325	1.300	0.700	1.718	0.782	1.720	0.680	0.721	2.6364	51164
	60	18:38			4325	1.299	0.701	1.716	0.784	1.719	0.681	0.722	2.6364	51164
	75	18:48			4320	1.298	0.702	1.716	0.784	1.719	0.681	0.722	2.6364	51164
	90	19:08			4310	1.297	0.703	1.715	0.783	1.717	0.683	0.724	2.6364	51164
	105	19:29			4300	1.297	0.703	1.715	0.783	1.717	0.683	0.724	2.6364	51164
	120	20:01			4300	1.295	0.705	1.712	0.788	1.716	0.684	0.724	2.6364	51164
	135	20:21			4300	1.295	0.705	1.712	0.788	1.716	0.684	0.724	2.6364	51164
	150	20:50			4300	1.292	0.728	1.688	0.812	1.691	0.709	0.746	3	52664
	165	21:10			4300	1.291	0.729	1.687	0.813	1.690	0.710	0.746	3	52664
	180	21:50			4300	1.289	0.731	1.685	0.815	1.688	0.712	0.753	3	53664
	195	22:10			4300	1.288	0.732	1.684	0.816	1.687	0.713	0.754	3	53664
	210	22:50			4250	1.287	0.733	1.683	0.817	1.685	0.715	0.755	3	53664
	225	23:40			4250	1.286	0.734	1.682	0.818	1.685	0.717	0.756	3	53664
	240	24:30			4250	1.285	0.735	1.681	0.819	1.683	0.717	0.757	3	53664
	255	25:20			4200	1.284	0.736	1.680	0.820	1.682	0.718	0.758	3	53664
	270	26:10			4200	1.284	0.736	1.680	0.820	1.682	0.718	0.758	3	53664
	285	27:00			4150	1.284	0.736	1.680	0.820	1.682	0.718	0.758	3	53664
	300	27:50			4100	1.284	0.736	1.680	0.820	1.682	0.718	0.758	3	53664
	315	28:40			4100	1.283	0.737	1.679	0.821	1.681	0.719	0.759	3	53664
	330	29:30			4100	1.282	0.738	1.678	0.822	1.680	0.720	0.760	3	53664
	345	30:20			4000	1.196	0.864	1.108	0.892	1.210	0.790	0.829	3	58664
	360	31:10			4000	1.195	0.865	1.106	0.894	1.208	0.792	0.830	3	58664
	375	32:00			4000	1.194	0.866	1.105	0.895	1.206	0.793	0.831	3	58664
	390	32:50			4000	1.193	0.867	1.104	0.896	1.206	0.794	0.832	3	58664
	405	33:40			4000	1.192	0.868	1.103	0.897	1.205	0.795	0.833	3	58664
	420	34:30			4000	1.192	0.868	1.102	0.898	1.204	0.796	0.834	3	58664
	435	35:20			4000	1.191	0.869	1.101	0.899	1.203	0.797	0.835	3	58664
	450	36:10			4000	1.190	0.870	1.100	0.900	1.202	0.798	0.836	3	58664
	465	37:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	480	37:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	495	38:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	510	39:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	525	40:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	540	41:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	555	42:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	570	42:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	585	43:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	600	44:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	615	45:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	630	46:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	645	47:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	660	47:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	675	48:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	690	49:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	705	50:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	720	51:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	735	52:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	750	52:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	765	53:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	780	54:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	795	55:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	810	56:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	825	57:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	840	57:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	855	58:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	870	59:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	885	60:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	900	61:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	915	62:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	930	62:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	945	63:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	960	64:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	975	65:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	990	66:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1005	67:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1020	67:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1035	68:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1050	69:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1065	70:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1080	71:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1095	72:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1110	72:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1125	73:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1140	74:30			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1155	75:20			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1170	76:10			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1185	77:00			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1200	77:50			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1215	78:40			4000	1.189	0.871	1.100	0.900	1.202	0.798	0.836	3	58664
	1230													

PROJECT: Brooklyn Access Mass Trench
 FILE NO.: Test File 2, Design Load 250 Tons

LOAD INCR.	TIME INCR.	TIME (HRS)	LOAD (TONS)	GAGE PRESS. FOR LOAD (PSI)	ACTUAL GAGE PRESS. (PSI)	GAUGE 1 READ	GAUGE 1 DISPL.	GAUGE 2 READ	GAUGE 2 DISPL.	GAUGE 3 READ	GAUGE 3 DISPL.	AVG. DISPL. (IN)	WIRE READING (IN)	WIRE DISPL. (IN)	NOTES
1	1	13:30			5410	0.989	0.901	0.999	1.005	0.995	1.028	1.028	3.1964	1.764	
2	2	13:31			5400	0.991	0.891	0.899	1.101	1.002	0.997	1.030	3.2064	1.864	
4	4	13:33			5400	1.005	0.991	0.899	1.101	1.002	0.997	1.030	3.2064	1.864	
8	8	13:37			5400	1.005	0.995	0.895	1.105	0.998	1.002	1.034	3.2064	1.864	
15	15	13:44			5400	1.004	0.996	0.894	1.106	0.996	1.004	1.035	3.2064	1.864	
30	30	13:59			5375	0.999	1.001	0.888	1.112	0.992	1.008	1.040	3.2064	1.864	
45	45	14:14			5375	0.999	1.001	0.888	1.112	0.992	1.008	1.040	3.2064	1.864	
60	60	14:29			5350	0.998	1.002	0.887	1.113	0.990	1.010	1.042	3.2064	1.864	
90	90	14:59			5325	0.996	1.004	0.884	1.116	0.988	1.012	1.044	3.2164	1.964	
120	120	15:29			5325	0.995	1.005	0.879	1.121	0.984	1.016	1.047	3.2164	1.964	
150	150	15:59			5325	0.993	1.007	0.876	1.124	0.981	1.019	1.050	3.2164	1.964	
180	180	16:29			5325	1.000	1.000	0.884	1.116	0.992	1.008	1.041	3.2164	1.964	
200%	0.5	16:35	500	5725	5400	0.917	1.083	0.791	1.209	0.902	1.098	1.130	3.2764	1.1564	
1	1	16:36			5775	0.914	1.086	0.787	1.213	0.898	1.102	1.134	3.2864	1.1664	
4	4	16:39			5775	0.912	1.088	0.785	1.215	0.896	1.104	1.136	3.2864	1.1664	
8	8	16:43			5780	0.910	1.090	0.784	1.216	0.894	1.106	1.137	3.2864	1.1664	
15	15	16:50			5725	0.907	1.093	0.780	1.220	0.891	1.109	1.141	3.2864	1.1664	
30	30	17:05			5700	0.904	1.096	0.777	1.223	0.888	1.112	1.146	3.2864	1.1664	
45	45	17:20			5700	0.901	1.099	0.773	1.225	0.885	1.115	1.146	3.2864	1.1664	
60	60	17:35			5800	0.882	1.118	0.753	1.247	0.865	1.135	1.167	3.3064	1.1864	
90	90	18:05			5775	0.878	1.122	0.749	1.251	0.859	1.141	1.171	3.3064	1.1864	
2	2	18:35			5725	0.875	1.125	0.747	1.253	0.858	1.142	1.173	3.3064	1.1864	
2.5	2.5	19:05			5710	0.873	1.127	0.744	1.256	0.855	1.145	1.176	3.3064	1.1864	
3	3	19:35			5710	0.872	1.128	0.744	1.256	0.854	1.146	1.177	3.3064	1.1864	
4hrs	4hrs	20:35			5650	0.870	1.130	0.741	1.259	0.852	1.148	1.179	3.3064	1.1864	
5hrs	5hrs	21:35			5675	0.868	1.132	0.739	1.261	0.850	1.150	1.181	3.3164	1.1964	
6hrs	6hrs	22:35			5600	0.868	1.132	0.739	1.261	0.849	1.151	1.181	3.3164	1.1964	
7hrs	7hrs	23:35			5550	0.868	1.132	0.739	1.261	0.849	1.151	1.181	3.3164	1.1964	
8hrs	8hrs	0:35			5525	0.868	1.132	0.739	1.261	0.849	1.151	1.181	3.3164	1.1964	
9hrs	9hrs	1:35			5500	0.868	1.132	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
10hrs	10hrs	2:35			5500	0.868	1.132	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
11hrs	11hrs	3:35			5500	0.869	1.131	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
12hrs	12hrs	4:35			5500	0.869	1.131	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
13hrs	13hrs	5:35			5500	0.869	1.131	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
14hrs	14hrs	6:35			5450	0.869	1.131	0.740	1.260	0.849	1.151	1.181	3.3164	1.1964	
15hrs	15hrs	7:35			5425	0.869	1.131	0.741	1.259	0.850	1.150	1.180	3.3164	1.1964	
16hrs	16hrs	8:35			5625	0.856	1.144	0.727	1.273	0.835	1.165	1.194	3.3264	1.2064	
17hrs	17hrs	9:35			5600	0.857	1.143	0.727	1.273	0.836	1.164	1.193	3.3264	1.2064	
18hrs	18hrs	10:35			5575	0.855	1.145	0.726	1.274	0.834	1.166	1.195	3.3264	1.2064	
19hrs	19hrs	11:35			5800	0.879	1.171	0.698	1.302	0.805	1.195	1.223	3.3464	1.2264	
20hrs	20hrs	12:35			5800	0.828	1.172	0.696	1.304	0.804	1.196	1.224	3.3464	1.2264	
21hrs	21hrs	13:35			5775	0.827	1.173	0.695	1.305	0.802	1.198	1.225	3.3464	1.2264	
22hrs	22hrs	14:35			5775	0.826	1.174	0.694	1.306	0.800	1.200	1.227	3.3464	1.2264	
23hrs	23hrs	15:35			5775	0.827	1.173	0.690	1.310	0.795	1.205	1.229	3.3464	1.2264	
24hrs	24hrs	16:35			5765	0.824	1.176	0.691	1.309	0.797	1.203	1.229	3.3464	1.2264	
25hrs	25hrs	17:35			5750	0.822	1.178	0.689	1.311	0.796	1.204	1.231	3.3464	1.2264	
26hrs	26hrs	18:35			5725	0.821	1.179	0.688	1.312	0.795	1.205	1.232	3.3464	1.2264	
27hrs	27hrs	19:35			5675	0.820	1.180	0.688	1.312	0.794	1.206	1.233	3.3464	1.2264	
28hrs	28hrs	20:35			5700	0.818	1.182	0.685	1.315	0.792	1.208	1.235	3.3464	1.2264	
29hrs	29hrs	21:35			5675	0.818	1.182	0.685	1.315	0.792	1.208	1.235	3.3464	1.2264	
30hrs	30hrs	22:35			5625	0.818	1.182	0.685	1.315	0.791	1.209	1.235	3.3464	1.2264	
31hrs	31hrs	23:35			5600	0.817	1.183	0.684	1.316	0.790	1.210	1.236	3.3464	1.2264	
32hrs	32hrs	0:35			5625	0.816	1.184	0.683	1.317	0.790	1.210	1.237	3.3464	1.2264	
33hrs	33hrs	1:35			5650	0.816	1.184	0.683	1.317	0.790	1.210	1.237	3.3464	1.2264	
34hrs	34hrs	2:35			5625	0.815	1.185	0.682	1.318	0.789	1.211	1.238	3.3464	1.2264	
35hrs	35hrs	3:35			5650	0.815	1.185	0.682	1.318	0.789	1.211	1.238	3.3464	1.2264	
36hrs	36hrs	4:35			5650	0.815	1.185	0.682	1.318	0.788	1.212	1.238	3.3464	1.2264	
37hrs	37hrs	5:35			5650	0.814	1.186	0.681	1.319	0.788	1.212	1.239	3.3464	1.2264	
38hrs	38hrs	6:35			5650	0.813	1.187	0.681	1.319	0.788	1.212	1.239	3.3464	1.2264	
39hrs	39hrs	7:35			5650	0.813	1.187	0.680	1.320	0.787	1.213	1.240	3.3564	1.2364	
40hrs	40hrs	8:35			5650	0.813	1.187	0.680	1.320	0.787	1.213	1.240	3.3564	1.2364	

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JOHN CIVETTA & SONS INC.

17:28 Bump in pressure to 5800 psi

08:07 Bump in pressure to 5675 psi

10:36 Bump in pressure to 5650 psi
 11:35 Bump in pressure to 6800 from 5810

Sun hitting beam
 Sun hitting beam

Bump in pressure
 Bump in pressure

08:05 Bump in pressure from 5610 to 5650

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PROJECT: Brooklyn Avenue Mass Transit
FILE NO.: Test Pile 2, Design Load 250 Tons

FILE NO.: 19295
DATE: 10/27/2010 to 11/8/2010

LOAD INCR/CM.	TIME INCR/CM (MIN)	TIME (HRS)	LOAD (TONS)	GAGE PRESS. FOR LOAD (PSI)	ACTUAL GAGE PRESS. (PSI)	DIAL READINGS (INCHES)						WIRE READING (IN)	WIRE DISPL. (IN)	NOTES
						GAGE 1 READ	GAGE 1 DISPL.	GAGE 2 READ	GAGE 2 DISPL.	GAGE 3 READ	GAGE 3 DISPL.			
	103	23:35			5600	0.780	1.230	0.646	1.354	0.748	1.252	3.3764	1.2564	
	104	0:35			5600	0.779	1.231	0.646	1.354	0.748	1.252	3.3764	1.2564	
	105	1:35			5600	0.779	1.231	0.646	1.354	0.748	1.252	3.3764	1.2564	
	106	2:35			5600*	0.779	1.231	0.645	1.353	0.748	1.252	3.3764	1.2564	
	107	3:35			5600	0.778	1.232	0.645	1.353	0.748	1.252	3.3764	1.2564	
	108	4:35			5600	0.778	1.232	0.645	1.353	0.747	1.253	3.3764	1.2564	
	109	5:35			5600	0.778	1.232	0.644	1.356	0.747	1.253	3.3764	1.2564	
	110	6:35			5600	0.778	1.232	0.644	1.356	0.747	1.253	3.3764	1.2564	
	111	7:35			5650	0.776	1.234	0.641	1.359	0.744	1.256	3.3764	1.2564	Bump in pressure to 5650 psi
	112	8:35			5650	0.777	1.233	0.642	1.358	0.744	1.256	3.3764	1.2564	
	113	9:35			5625	0.777	1.233	0.643	1.357	0.745	1.255	3.3764	1.2564	
	114	10:35			5625	0.777	1.233	0.643	1.357	0.745	1.255	3.3764	1.2564	
	115	11:35			5625	0.777	1.233	0.643	1.357	0.745	1.255	3.3764	1.2564	Sun hitting beam
	116	12:35			5625	0.777	1.233	0.643	1.357	0.742	1.258	3.3764	1.2564	Sun hitting beam
	117	13:35			5625	0.772	1.228	0.638	1.362	0.743	1.257	3.3764	1.2564	
	118	14:35			5625	0.776	1.224	0.632	1.358	0.742	1.258	3.3764	1.2564	
	119	15:35			5625	0.776	1.224	0.641	1.359	0.741	1.259	3.3764	1.2564	
	120	16:35			5625	0.776	1.234	0.642	1.358	0.742	1.258	3.3764	1.2564	
	121	17:35			5625	0.776	1.234	0.642	1.358	0.743	1.257	3.3764	1.2564	
	122	18:35			5625	0.775	1.225	0.641	1.359	0.744	1.256	3.3764	1.2564	
	123	19:35			5625	0.775	1.225	0.641	1.359	0.744	1.256	3.3764	1.2564	
	124	20:35			5625	0.774	1.226	0.640	1.360	0.743	1.257	3.3764	1.2564	
	125	21:35			5625	0.773	1.227	0.639	1.361	0.742	1.258	3.3764	1.2564	
	126	22:35			5625	0.773	1.227	0.639	1.361	0.742	1.258	3.3764	1.2564	
	127	23:35			5625	0.773	1.227	0.639	1.361	0.742	1.258	3.3764	1.2564	
	128	0:35			5625	0.772	1.228	0.638	1.362	0.742	1.258	3.3764	1.2564	
	129	1:35			5625	0.771	1.229	0.637	1.363	0.742	1.259	3.3764	1.2564	
	130	2:35			5625	0.771	1.229	0.637	1.363	0.741	1.259	3.3764	1.2564	
	131	3:35			5625	0.771	1.229	0.637	1.363	0.741	1.259	3.3764	1.2564	
	132	4:35			5625	0.770	1.230	0.637	1.363	0.741	1.259	3.3764	1.2564	
	133	5:35			5625	0.770	1.230	0.637	1.363	0.741	1.259	3.3764	1.2564	
	134	6:35			5610	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	135	7:35			5610	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	136	8:35			5610	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	137	9:35			5610	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	138	10:35			5625	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	139	11:35			5625	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	140	12:35			5625	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	141	13:35			5625	0.768	1.234	0.632	1.368	0.740	1.260	3.3764	1.2564	Sun hitting beam
	142	14:35			5625	0.770	1.230	0.636	1.364	0.741	1.259	3.3764	1.2564	
	143	15:35			5625	0.770	1.230	0.635	1.363	0.737	1.263	3.3764	1.2564	
	144	16:35			5625	0.769	1.231	0.635	1.365	0.740	1.260	3.3764	1.2564	
	145	17:35			5625	0.769	1.231	0.634	1.366	0.740	1.260	3.3764	1.2564	
	146	18:35			5625	0.769	1.231	0.634	1.366	0.739	1.261	3.3764	1.2564	
	147	19:35			5625	0.768	1.232	0.634	1.366	0.739	1.261	3.3764	1.2564	
	148	20:35			5625	0.768	1.232	0.634	1.366	0.739	1.261	3.3764	1.2564	
	149	21:35			5625	0.767	1.233	0.633	1.367	0.739	1.261	3.3764	1.2564	
	150	22:35			5625	0.767	1.233	0.633	1.367	0.739	1.261	3.3764	1.2564	
	151	23:35			5625	0.767	1.233	0.633	1.367	0.738	1.262	3.3764	1.2564	
	152	0:35			5625	0.765	1.231	0.633	1.367	0.738	1.262	3.3764	1.2564	
	153	1:35			5600	0.765	1.235	0.630	1.370	0.738	1.262	3.3764	1.2564	
	154	2:35			5500	0.764	1.236	0.629	1.371	0.737	1.263	3.3764	1.2564	
175%	0.5	7:25		5025		0.780	1.220	0.649	1.351	0.753	1.247	3.3764	1.2564	
	60	8:25				0.786	1.214	0.653	1.347	0.761	1.239	3.3764	1.2564	
150%	0.5	8:25		4500		0.840	1.160	0.713	1.287	0.821	1.179	3.3764	1.2564	
	60	9:25				0.843	1.157	0.715	1.285	0.823	1.177	3.3764	1.2564	

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PROJECT: Brooklyn Arena Mass Transit													
FILE NO.: 19235													
DATE: 10/27/2010 to 11/8/2010													
LOAD INCREM.	TIME INCREM (MIN)	TIME (HRS)	LOAD (TONS)	GAGE PRESS. FOR LOAD (PSI)	ACTUAL GAGE PRESS. (PSI)	DIAL READINGS (INCHES)						AVG. DISPL. (IN)	WIRE READING (IN)
						GAGE 1 READ	GAGE 1 DISPL.	GAGE 2 READ	GAGE 2 DISPL.	GAGE 3 READ	GAGE 3 DISPL.		
125%	0.5	9:25	312.5	3600	3600	0.905	0.905	0.785	0.785	0.892	0.892	1.139	1.1764
	60	10:25				0.910	0.910	0.789	0.789	0.905	0.905	1.132	1.1764
100%	0.5	10:25	250	2875	2875	1.003	0.997	0.893	0.893	1.107	1.107	1.036	1.1064
	60	11:25				1.008	0.992	0.897	0.897	1.103	1.103	1.032	1.1064
75%	0.5	11:25	187.5	2175	2175	1.120	0.980	0.870	0.870	1.117	0.883	0.914	1.1464
	60	12:25				1.125	0.975	0.873	0.873	1.119	0.881	0.911	1.1464
50%	0.5	12:25	125	1450	1450	1.235	0.745	1.171	0.829	1.258	0.742	0.772	3.464
	60	13:25				1.269	0.740	1.175	0.825	1.262	0.738	0.768	3.464
25%	0.5	13:25	62.5	750	750	1.410	0.590	1.344	0.656	1.322	0.678	0.641	2.5664
	60	14:25				1.415	0.585	1.347	0.653	1.324	0.676	0.638	2.5664
10%	0.5	14:25	25	187.5	187.5	1.537	0.443	1.504	0.486	1.500	0.420	0.453	2.4564
	60	15:25				1.560	0.440	1.507	0.493	1.501	0.419	0.451	2.4564
0%	0.5	15:25	0	0	0	1.636	0.364	1.603	0.397	1.607	0.330	0.365	2.3764
	60	16:25				1.646	0.354	1.618	0.382	1.673	0.327	0.354	2.3764
0%	0.5	16:25	0	0	0	1.651	0.349	1.625	0.375	1.699	0.301	0.342	2.2664
10%	0.5	16:25	25	250	250	1.846	0.354	1.809	0.391	1.802	0.318	0.354	2.3764
	60	17:25				1.847	0.353	1.809	0.391	1.803	0.317	0.354	2.3764
50%	0.5	17:25	125	1450	1450	1.409	0.591	1.334	0.666	1.438	0.562	0.606	2.5664
	60	18:25				1.409	0.591	1.334	0.666	1.437	0.563	0.607	2.5664
75%	0.5	18:25	187.5	2175	2175	1.273	0.727	1.285	0.715	1.295	0.705	0.716	3.2864
	60	19:25				1.272	0.728	1.284	0.716	1.295	0.705	0.716	3.2864
100%	0.5	19:25	250	2875	2875	1.151	0.849	1.052	0.948	1.166	0.834	0.877	3.1164
	60	20:25				1.149	0.851	1.050	0.950	1.166	0.834	0.878	3.1164
125%	0.5	20:25	312.5	3600	3600	1.039	0.961	0.927	1.073	1.052	0.948	0.994	3.1864
	60	21:25				1.036	0.964	0.925	1.073	1.045	0.955	0.998	3.1864
150%	0.5	21:25	375	4300	4300	0.932	1.068	0.812	1.188	0.935	1.065	1.107	3.2764
	60	22:25				0.927	1.073	0.807	1.199	0.932	1.068	1.111	3.2764
125%	0.5	22:25	312.5	3600	3600	0.956	1.044	0.836	1.164	0.961	1.039	1.083	3.2564
	60	23:25				0.954	1.046	0.836	1.164	0.961	1.039	1.083	3.2564
100%	0.5	23:25	250	2875	2875	1.032	0.968	0.924	1.076	1.045	0.955	1.000	3.2064
	60	24:25				1.034	0.966	0.924	1.076	1.046	0.954	0.999	3.2064
75%	0.5	24:25	187.5	2175	2175	1.138	0.862	1.038	0.962	1.156	0.844	0.889	3.1164
	60	25:25				1.139	0.861	1.039	0.961	1.157	0.843	0.888	3.1164
50%	0.5	25:25	125	1450	1450	1.288	0.712	1.204	0.796	1.314	0.686	0.731	3.1664
	60	26:25				1.289	0.711	1.205	0.795	1.315	0.685	0.730	3.1664
25%	0.5	26:25	62.5	750	750	1.629	0.571	1.363	0.637	1.460	0.540	0.583	2.5564
	60	27:25				1.630	0.570	1.364	0.636	1.460	0.540	0.582	2.5564
0%	0.5	27:25	0	0	0	1.627	0.572	1.601	0.599	1.688	0.512	0.561	2.3764
	60	28:25				1.630	0.570	1.604	0.596	1.690	0.510	0.559	2.3764

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JOHN CIVETTA & SONS, INC.

THEORETICAL SHORTENING OF PILE DUE TO 500 TON TEST LOAD

$$\text{tons} := 2000\text{ lbf} \quad \text{ksi} := 1000\text{ psi}$$

Cased Portion:

$$P_1 := 500\text{ tons} \quad L_1 := 49\text{ ft}$$

$$OD_c := 10.75\text{ in} \quad tw_c := 0.5\text{ in} \quad ID_c := OD_c - 2tw_c$$

$$A_c := \frac{\pi}{4}(OD_c^2 - ID_c^2) \quad A_{bar} := 9.61\text{ in}^2 \quad A_g := \frac{\pi}{4}ID_c^2 - A_{bar}$$

$$E_g := 29000000\text{ psi}$$

$$E_{g1} := 4500\text{ ksi} \quad \text{confined - as per FHWA}$$

$$AE_1 := (A_c + A_{bar})E_s + A_g E_{g1} \quad AE_1 = 1038342816\text{ lbf} \quad \frac{L_1}{AE_1} = 0.001133 \frac{\text{in}}{\text{tons}}$$

$$d_1 := \frac{P_1 \cdot L_1}{AE_1} \quad d_1 = 0.566\text{ in}$$

Uncased Portion:

$$P_2 := 250\text{ tons} \quad \text{Average load across length of bond zone.}$$

$$L_2 := 40\text{ ft}$$

$$A_{g2} := \frac{\pi}{4}OD_c^2 - A_{bar}$$

$$E_{g2} := 3300\text{ ksi} \quad \text{unconfined - as per FHWA}$$

$$AE_2 := A_{bar} E_s + A_{g2} E_{g2} \quad AE_2 = 546493498\text{ lbf}$$

$$d_2 := \frac{P_2 \cdot L_2}{AE_2} \quad d_2 = 0.439\text{ in} \quad \frac{L_2}{AE_2} = 0.001757 \frac{\text{in}}{\text{tons}}$$

Total Theoretical Shortening of Pile:

$$D := d_1 + d_2 \quad D = 1.005\text{ in}$$

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JOHN CIVETTA & SONS, INC.

W. B. EQUIPMENT SERVICE CO. INC
127 OAK STREET
WOOD RIDGE, NJ 07075
TEL: 201-438-7800 FAX: 201-438-7830

RECEIVED

DEC 01 2010

JOHN CIVETTA & SONS, INC.

Date: 09/29/10

W.B. EQUIPMENT SERVICE CO. INC NO: _____

CUSTOMER: HAYWARD BAKER ORDER NO: _____

CYLINDER: 900 TONS STROKE: 12" SERIAL NO: WB933

GAUGE: 6 INCH DIAMETER: 10000 PSI SERIAL NO: WB649

CYLINDER FORCE	GAUGE READINGS-PSI		AVERAGE PRESSURE
TONS.	AT RAM EXTENSIONS		PSI
	1 INCH	2 INCH	
0	0	0	0
62.5	750	750	750
125	1425	1450	1450
187.5	2175	2175	2175
250	2875	2875	2875
312.5	3600	3600	3600
375	4275	4300	4300
437.5	5025	5025	5025
500	5700	5725	5725

TEST PERFORMED BY: DARREN CIRECO

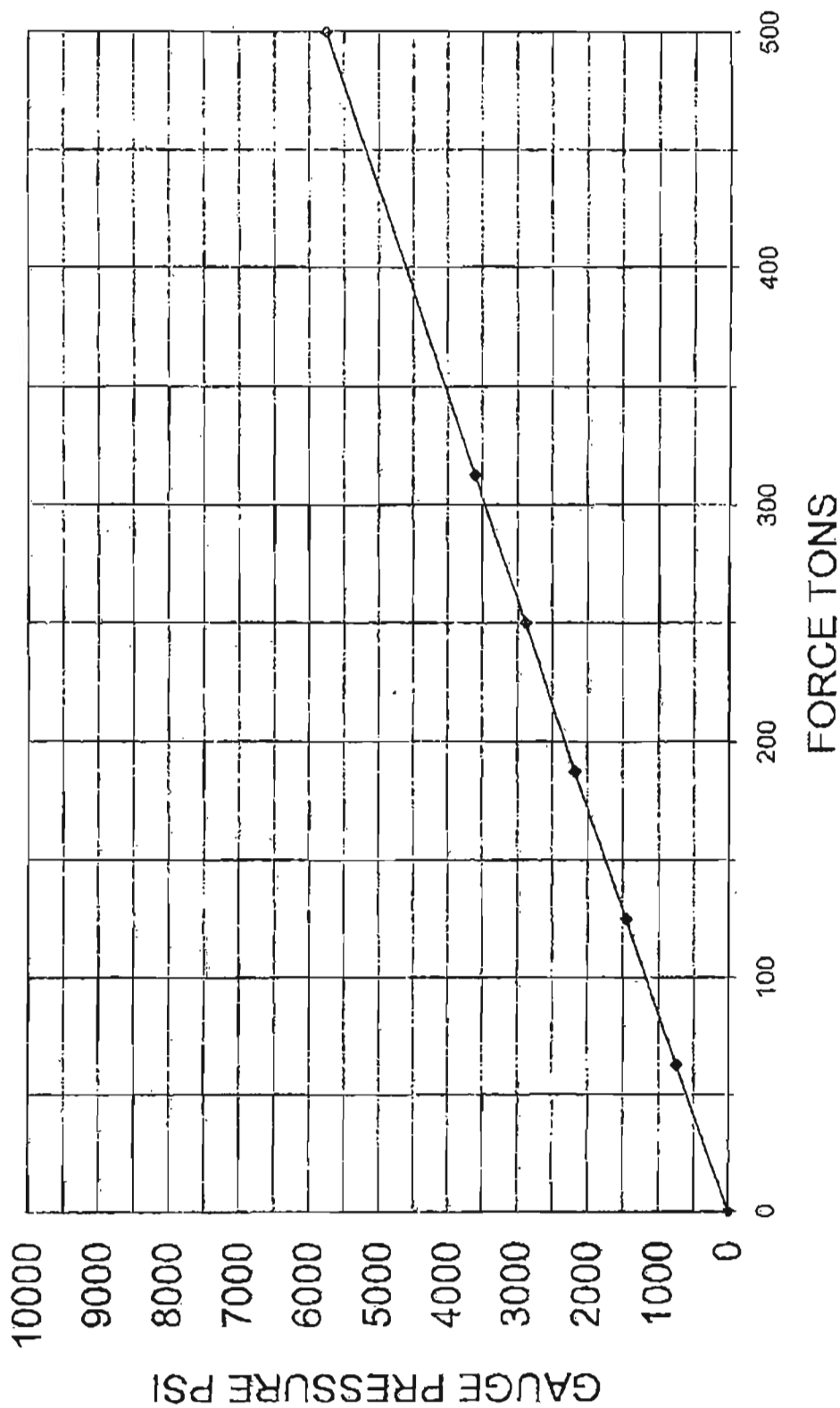
OUTPUT MEASURED BY LOADCELL SERIAL NUMBER D WITH STRAIN INDICATOR P3
SERIAL NUMBER 015889

RECEIVED

DEC 01 2010

JOHN CIVETTA & SONS, INC.

PRESSURE VS FORCE



W. B. EQUIPMENT SERVICE CO. INC.
127 OAK STREET
WOOD-RIDGE, NJ 07075
TEL: 201-438-7800 FAX: 201-438-7830

GAUGE CERTIFICATION

W. B. EQUIPMENT SERVICE CO NO:

DATE: 9/29/10

CUSTOMER: HAYWARD BAKER

ORDER NO:

GAUGE SERIAL NO:

CAPACITY

10000 PSI

WB649

6 INCH DIAL

WE CERTIFY THAT THE HYDRAULIC GAUGES LISTED ABOVE HAVE BEEN
TESTED PRIOR TO SHIPMENT AND FOUND TO BE WITHIN STANDARD
COMMERCIAL ACCURACY OF 2% PLUS-OR-MINUS OF FULL SCALE.

VERY TRULY YOURS,
W. B. EQUIPMENT SERVICE CO. INC.

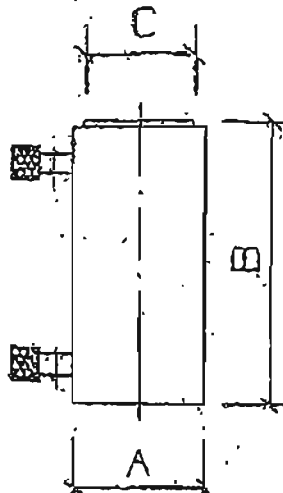
DARREN CIRECO

RECEIVED

DEC 01 2010

JOHN CIVETTA & SONS, INC.

DOUBLE ACTING JACK



RECEIVED

DEC 01 2010

JOHN CIVETTA & SONS, INC.

MODEL	CAPACITY TONS	STROKE INCH	AREA SQ. IN	WT LBS	A DIA	B	C DIA
WBLN4002	400	2	86.79	695	13	17.25	10.50
WBLN2802	280	2	56.79	280	10.8	10	8.10
WB5024	55	24	11.05	200	5	31.63	3.125
WB10018DR	100	18	19.63	195	6.25	31.25	4.00
WB1506DD	150	6	38.48	250	8.88	15.88	4.50
WB1506DT	150	6	33.19	218	8.5	15.50	5
WB15012DD	150	12	38.48	310	8.88	21.88	4.5
WB15012DT	150	12	33.19	295	8.50	21.50	5.00
WB2006DR	200	6.00	50.27	325	10.06	17.25	7.00
WB2006DE	200	6.00	44.2	325	9.75	16.94	5.25
WB20012DR	200	12.00	50.27	450	10.75	23.25	7.00
WB20010BDR	200	108	50.27	2400	11.00	128.8	12.00
WB2506DT	250	6.00	50.27	320	10.06	17.25	7.00
WB2506DE	250	6	56.79	350	10.75	13.13	6.38
WB5004DE	500	4.00	113.25	1000	15.76	19.00	8.6
*WB3004DE	300	4.00	113.25	1076	15.75	23.38	8.98
WB50013PT	500	13	99.4	1092	14.76	27.57	.8
WB90012	863	12	175.77	1800	20.5	32.25	10

*WITH TILT SADDLE

CUSTOMER:

DATE

BY

DWG

WB EQUIPMENT SERVICE CORPORATION

127 OAK STREET, WOOD RIDGE, NJ 07075

Phone (201) 438-7800 Fax (201) 438-7830

website: www.wbequipment.com

REFERENCE

REVISION

**MUESERRUTLEDGE
CONSULTING ENGINEERS**

☒ **APPROVED**

☐ **APPROVED AS NOTED**

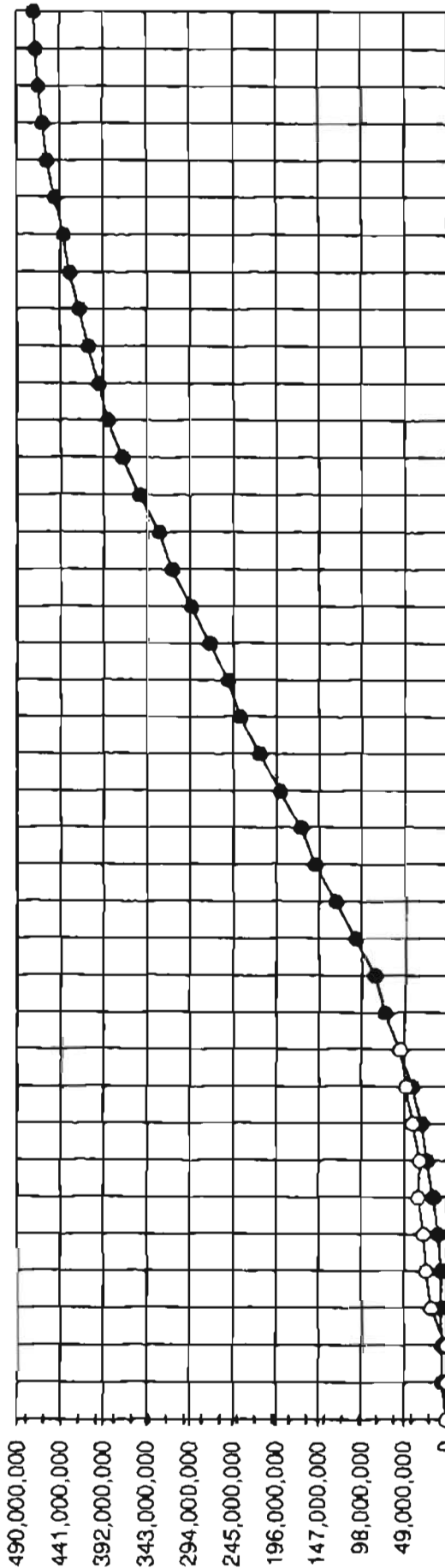
☐ **REVISE AND RESUBMIT**

☐ **REJECTED**

BY: SPL

DATE: 12-8-10

*** NETS ARENA *
BARCLAYS CENTER
BROOKLYN, NEW YORK
PROGRESS: PROJECTED VS. ACTUAL**



Jan 10 Mar 10 May 10 Jul 10 Sep 10 Nov 10 Jan 11 Mar 11 May 11 Jul 11 Sep 11 Nov 11 Jan 12 Mar 12 May 12 Jul 12 Sep 12 Nov 12 Jan 13 Mar 13

PROJECT NO. 22-041A
START DATE 1/1/2010
COMPLETION 2/28/2013
HARD COST 470,268,715
1BT S.O. DATE 5/15/2010
PROJECT DAYS 1164
PROJECT MGR. James Q. Costello

TIME
Prepared by Merritt & Harris, Inc. Information Management Center

—●— PROJECTED —○— ACTUAL

		MONTHS: FROM 1ST SITE OBSERVATION																											
		1-10	2-10	3-10	4-10	5-10	6-10	7-10	8-10	9-10	10-10	11-10	12-10	1-11	2-11	3-11	4-11	5-11	6-11	7-11	8-11	9-11	10-11	11-11	12-11	1-12	2-12	3-12	4-12
ESTIMATED		0	0	17587	80236	28659	6337	-2145	8532	7504	8062	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$,000'S PER MONTH		0	0	17587	80236	28659	6337	-2145	8532	7504	8062	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$,000'S CUMULATIVE		0	0	17587	97823	126482	132819	130674	139206	146710	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772
% COMPLETE PER MONTH		0.00	0.00	3.74	6.02	8.53	7.02	8.64	8.38	9.88	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% COMPLETE CUM.		0.00	0.00	3.74	9.54	18.07	25.09	33.73	42.11	51.99	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39
ACTUAL		0	0	17587	80236	28659	6337	-2145	8532	7504	8062	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$,000'S PER MONTH		0	0	17587	80236	28659	6337	-2145	8532	7504	8062	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\$,000'S CUMULATIVE		0	0	17587	97823	126482	132819	130674	139206	146710	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772	154772
% COMPLETE PER MONTH		0.00	0.00	3.74	6.02	8.53	7.02	8.64	8.38	9.88	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% COMPLETE CUM.		0.00	0.00	3.74	9.54	18.07	25.09	33.73	42.11	51.99	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39	63.39
% DIFFERENCE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



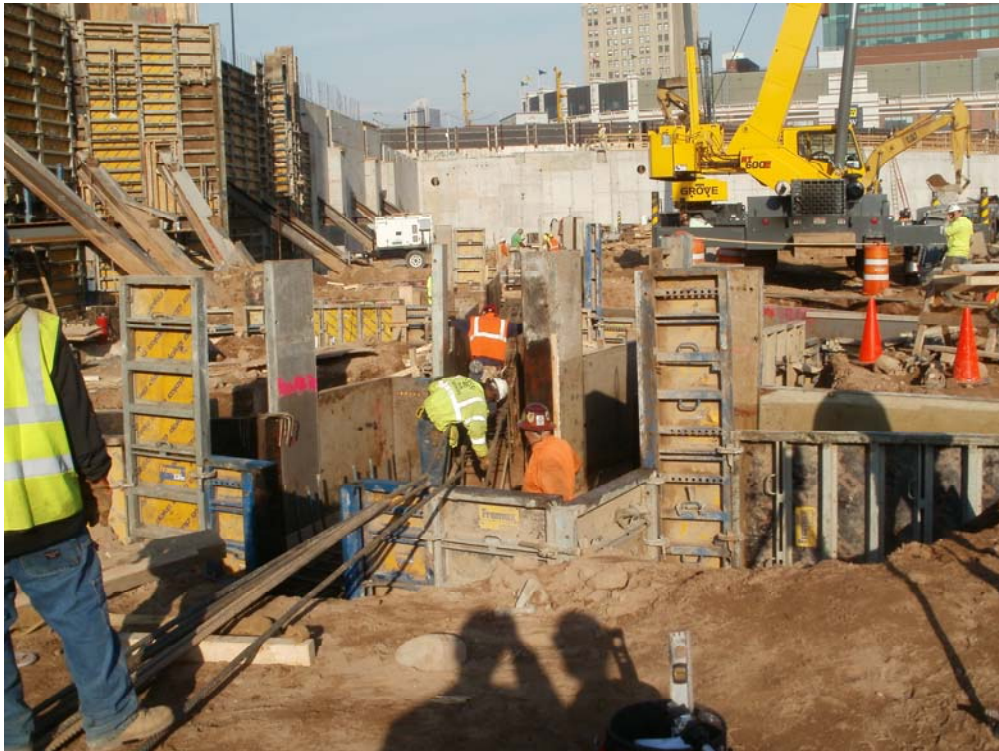
1. Formwork for interior footing at Line 1



2. Formwork for foundation wall along Flatbush Avenue



3. Underpinning at existing wall abutting MTA structure



4. Interior footing at Line 43



5. West retention tank concrete



6. Steel columns erected at Lines 5 - 7



7. Transit connection site



8. Piles driven along Atlantic Avenue at transit connection site