PERIODIC REVIEW REPORT AND SITE MANAGEMENT PLAN OPERATION REPORT

(Reporting Period 6/15/2015 to 6/14/2020)

For

KIPS BAY FUEL TERMINAL Tax Block 967, Lots 1 and Lot 2 New York, New York NYSDEC BCP No. C234014

Prepared For:

616 First Avenue, LLC 104 Fifth Avenue, Ninth Floor New York, New York 10011

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza 360 West 31st Street, 8th Floor New York, New York 10001

LANGAN

July 31, 2020 170234201

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1.0 INTRODUCTION

1.1 General

This Periodic Review Report (PRR) and Site Management Plan (SMP) Operation Report was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved September 2011 SMP, February 4, 2016 SMP Addendum 1 and Section 6.3 of NYSDEC Division of Environmental Remediation (DER)-10. This report documents site inspections at the former Kips Bay Fuel Terminal site (Brownfield Cleanup Program [BCP] Site No. C234014) for the certification period of June 15, 2015 through June 14, 2020. The site, located at 626 First Avenue in the Murray Hill neighborhood of New York, New York, is identified on the New York City Tax Map as Tax Block 967, Lots 1 and 2. The site was remediated pursuant to a Brownfield Cleanup Agreement (BCA) and a Certificate of Completion (COC) was issued by NYSDEC in December 2011. As the site was not remediated to Track 1 standards, engineering controls and institutional controls (EC/IC) were implemented. A Site Location Map is provided as Figure 1. Figure 2 identifies the site area and tax lots subject to the requirements of the SMP. A copy of the SMP, its addendum and Environmental Easement (EE) are provided as Appendix A.

Although not considered an EC in the September 2011 SMP and February 4, 2013 EE, a vapor barrier and active sub-slab depressurization (SSD) system were installed throughout the new school building in Lot 2 (Public School M281) as part of construction. Additional information regarding inspections and actions associated with the SSD system prepared by ATC Group Services, LLC (ATC) during this reporting period are provided in Appendix B.

1.2 Site Location and Background

The approximately 68,800-square-foot rectangular-shaped site is bordered to the north by East 36th Street, to the east by the Franklin D. Roosevelt (FDR) Drive, to the south by East 35th Street, and to the west by First Avenue. The site is located in a neighborhood primarily characterized by multi-story commercial and residential developments. The site operated as a lumber and coal/wood yard prior to 1899. By 1910, the northern portion of the site had been developed with a one-story building and was occupied by the Liquid Carbonic Company. The remainder of the site continued to operate as a lumberyard until circa 1926 when the eastern portion of the site was redeveloped into a steam plant operated by the New York Steam Corporation.

By 1980, the steam plant was owned by the Con Edison Company. Fuel oil underground storage tanks (UST) and transformers were located on the west side of the property. The steam plant was demolished between circa 1987 and circa 1994. The site was then occupied by the Kips Bay Fuel Terminal, which stored fuel oil in a 255,000-gallon UST and served as a backup fuel depot for the natural gas-powered steam boilers at Con Edison's Waterside Generating Station.

The site was remediated in accordance with Voluntary Cleanup Order (VCO) Index #D2-001-01-03, which was executed on June 27, 2001. In 2005, 616 First Realty Company LLC acquired the site from Con Edison. Remediation at the site was completed between March 2001 and August 2004. Remediation included:

- Demolition and asbestos abatement of existing site structures
- Removal of a 255,000-gallon UST (No 4/6 fuel oil) and associated petroleum-impacted soil
- Removal of Pipeline No. 5 (fuel oil supply line) and associated petroleum-impacted soil
- Remediation of transformer area polychlorinated biphenyl (PCB)-impacted soil
- Excavation and disposal of an ash pit
- Removal of Pipeline No. 6 (fuel oil supply line)
- Removal of a 475-gallon UST and associated petroleum-impacted soil
- Remediation of site-wide soil impacts

In December 2009, the New York City SCA acquired a portion of the site (Block 967, Lot 2) for construction of a new public school. The 2001 VCO was superseded BCA Index # A2-0515-0405, which was executed by the NYSDEC) in June 2010. A COC was issued in December 2011. In February 2013, Block 967, Lot 1 was acquired by 616 First Avenue, LLC with the intention of constructing two high-rise residential towers.

Foundations for the two new residential-use high-rise towers were constructed across the majority of Block 967, Lot 1 between 2013 and 2015. As documented in the 2015 PRR, site material was excavated, stockpiled and transported off site for disposal at facilities permitted to accept the material in accordance with the SMP. Langan provided professional engineering services to document and report on the intrusive activities. The SMP operation was considered complete on May 28, 2015. At completion, excavated materials had been removed from the site and the site cover system was restored with new building structures with reinforced concrete pressure slabs, a four-inch concrete mud slab, and concrete sidewalks. One area of the site outside of the building footprint is a utility easement in the southeastern portion of the site. This area was temporarily capped by approximately 2 feet of gravel. The utility easement area in the southeastern portion of Block 967, Lot 1 was paved with concrete following building construction during this reporting period.

There have been no changes in site use during this reporting period. During the reporting period, the ECs and ICs were maintained, and a concrete cap was placed over the utility easement area located in the southeast corner of Lot 1 in early 2018.

This report is organized as follows:

• <u>Section 2 – Periodic Review Report Certification</u> – Summarizes the annual certifications documenting that ECs/ICs were operated, maintained and monitored in accordance with the SMP.

- <u>Section 3 Annual Inspections</u> Describes the annual SMP inspections completed within Lot 1 between June 2015 and June 2020.
- <u>Section 4 through 7 SMP Operation Report</u> Describes SMP operations associated with utility easement area capping in the southeast corner of Lot 1.

2.0 PERIODIC REVIEW REPORT CERTIFICATION

2.1 Institutional Controls – Lot 1

The IC for Lot 1 is an EE that contains restrictions and/or prohibitions with respect to disturbances of soil below development depth¹ and usage of groundwater. There have been no changes or actions during this reporting period that require modification to the EE. All ICs were maintained during the reporting period and the EE within Lot 1 remains in-place. A copy of the EE is included as Appendix A.

2.2 Institutional Controls – Lot 2

The IC for Lot 2 is an EE that contains restrictions and/or prohibitions with respect to disturbances of soil below development depth, site use restrictions (Restricted Residential and Commercial Use) and usage of groundwater. There have been no changes or actions during this reporting period that require modification to the EE. All ICs were maintained during the reporting period and the EE within Lot 2 remains in-place.

2.3 Engineering Controls – Lot 1

The ECs for Lot 1 include:

- <u>Composite Cover System</u> The Lot 1 footprint is covered with reinforced concrete pressure slabs, a four-inch concrete mud slab, and/or concrete sidewalks.
- <u>Fencing/Access Control</u> Access to the new residential buildings within Lot 1 is restricted to tenants and authorized visitors.

One utility easement area in the southeastern portion of Lot 1, outside of the development footprint, was temporarily capped by about 2 feet of gravel and was permanently capped with concrete during this reporting period following building construction in early 2018.

ECs within Lot 1 were inspected on November 30, 2016, December 19, 2017, December 20, 2018, and December 20, 2019 by Langan. Observations are described in Section 3 and the ECs are shown on Figure 2. Copies of annual inspection forms for Lot 1 are provided in Appendix C.

¹ Development depth was redefined in the February 4, 2016 SMP Addendum 1 as the bottom of foundation. Based on final excavation depths as part of site redevelopment, the Development Depth ranges from el. -21.975 to -36.725 NAVD88.

2.4 Engineering Controls – Lot 2

The ECs for Lot 2 include:

- <u>Composite Cover System</u> The Lot 2 footprint is covered with reinforced concrete pressure slabs, and/or concrete sidewalks.
- <u>Fencing/Access Control</u> Access to the public school within Lot 2 is restricted to students, teachers/ employees, and authorized visitors.

ECs within Lot 2 were inspected on May 28, 2015, August 25, 2016, April 24, 2018, April 2, 2019, and May 7, 2020 by ATC. Copies of annual inspection forms for Lot 2 prepared by ATC are provided in Appendix B.

2.5 SMP Compliance – Lot 1

One utility easement area in the southeastern portion of Lot 1, outside of the development footprint, was temporarily capped by about 2 feet of gravel and was permanently capped with concrete during this reporting period following building construction in early 2018. There have been no additional changes or actions in Lot 1 during this reporting period.

2.6 SMP Compliance – Lot 2

There have been no changes or actions associated with the ICs/ECs in Lot 2 during this reporting period.

2.7 Institutional and Engineering Controls Certificate

The certification period covered by this report is June 15, 2015 through June 14, 2020. Annual inspections, as described in Section 3, were completed in accordance with the requirements of the BCP as certified by the owner and Professional Engineer in the EC/IC Certificate Form. The completed and signed EC/IC Certificate Form for Lot 1 is provided in Appendix D. The completed and signed EC/IC Certificate Form prepared by ATC for Lot 2 is provided in Appendix E.

3.0 ANNUAL INSPECTIONS – LOT 1

In accordance with the SMP, Langan completed annual site inspections within the Lot 1 footprint. Annual inspection activities are described below. Annual inspections performed by ATC within the Lot 2 footprint are documented in annual reports provided in Appendix B. The section below summarizes Langan's observations made within Lot 1 during the reporting period.

3.1 Annual Site Inspection

In accordance with the SMP monitoring requirements, Langan conducted annual SMP site inspections of Lot 1 on November 30, 2016, December 19, 2017, December 20, 2018, and

December 20, 2019. The ECs (composite cover system and fencing/access control) were documented to comply with the SMP. Copies of the annual site inspection forms are provided in Appendix C. Photographs documenting observations from each site inspection are provided in Appendix F.

4.0 SMP OPERATIONS – LOT 1

Modifications to the site ECs included installation of a concrete cap over the utility easement in the southeast corner of Lot 1. During the 2014 to 2015 reporting period, the utility easement area outside of the building footprint in the southeast corner of the site was temporarily capped with about 2 feet of clean gravel. The utility easement area was capped with concrete during the 2016 to 2017 reporting period. Photographs of the site cover system are provided in Appendix F.

5.0 COMPLIANCE WITH SMP

With respect to Lot 1, specific SMP measures implemented during construction and/or the annual site inspections are described in the following sections.

5.1 Construction Health and Safety Plan

The annual site inspections were performed in compliance with the site-specific Construction Health and Safety Plan (CHASP) and applicable laws and regulations. The health and safety Program Manager for Langan was William Bohrer, PG. Langan was not present on site during concrete placement over the utility easement area in the southeast corner of the site as there were no ground-intrusive activities and no import or export of material.

5.2 Community Air Monitoring Plan

Ground intrusive activities were not conducted during this reporting period and therefore the SMP Community Air Monitoring Plan (CAMP) was not implemented.

5.3 Soil/Materials Management Plan

The Soil/Materials Management Plan (SMMP) provides details for managing soil/materials at the site, including excavation, material handling, stockpile management, transport and disposal. The plan includes controls to guide effective remedial activities in compliance with applicable laws and regulations. Ground intrusive activities were not conducted during this reporting period and therefore, the SMMP was not implemented.

5.4 Stormwater Pollution Prevention

Stormwater pollution prevention measures, including the use of silt fences along site perimeters, were implemented as part of construction, as necessary.

5.5 Deviations from the Site Management Plan

No deviations from the SMP were identified during this reporting period.

6.0 SMP OPERATION DESCRIPTION

Construction activities within Lot 1 associated with concrete composite cover placement over the utility easement area were performed in early 2018 on behalf of the owner, 616 First Avenue LLC. JDS Development Group performed construction management. Photographs of site operations are included as Appendix F.

The following sections describe SMP operations performed within Lot 1 during this reporting period.

6.1 Site Controls

6.1.1 Erosion and Dust Control

No ground intrusive activities took place on site; therefore, erosion and dust control measures were not necessary during the reporting period.

6.1.2 Soil Screening

Residual material beneath the site cap was not disturbed during this reporting period; therefore, soil screening for staining, odors, and elevated photoionization detector (PID) readings was not implemented.

6.1.3 Stockpile Management

Stockpiles were not constructed during this reporting period.

6.1.4 Fluids Management

No fluids requiring treatment and off-site disposal were generated during the reporting period.

6.1.5 Truck Inspection

Soil was not excavated for off-site disposal from the site during this reporting period; therefore, truck inspections were not necessary.

6.1.6 Site Security

The site access gates were monitored and secured to prevent public access during construction of the two new high-rise residential towers. Following construction, access to the new residential towers was limited to tenants and authorized visitors.

6.1.7 Nuisance Control

Community nuisance complaints were not received during construction work.

6.1.8 Reporting

A Langan field engineer performed annual site inspections to monitor the ECs in place throughout the site. Observations were recorded in field books that included:

- Project number
- Statement of the activities and locations of work performed
- Photographs of notable site conditions and activities

Digital photographs of from the annual site inspections are provided in Appendix F.

6.2 Material Handling and Excavation

Material below the existing composite cover system was not excavated during this reporting period.

6.3 Material Characterization

Soil material characterization was not conducted during this reporting period.

6.4 Transport and Off-Site Disposal

Material below the existing composite cover system was not excavated during this reporting period; therefore, transportation and off-site disposal of site material was not conducted during this reporting period.

6.5 Imported Backfill

No material was imported to the site for use as backfill material during this reporting period.

7.0 POST-OPERATION ENGINEERING CONTROL STATUS

Engineering Control Status - Lot 1:

- Site Cover System *Intact*
- Fencing/Access Control Intact

With respect to Lot 1, this report provides documentation that composite cover system construction activities were completed in accordance with the NYSDEC-approved SMP. At completion of the SMP operation, the composite cover system in the utility easement area was capped with concrete.

A copy of the EC/IC certification for Lot 1 is included in Appendix D. The completed and signed EC/IC Certificate Form prepared by ATC for Lot 2 is provided in Appendix E.

APPENDIX A

SITE MANAGEMENT PLAN, ADDENDUM, AND ENVIRONMENTAL EASEMENT



Revised February 4, 2016

Ronnie Lee New York State Department of Environmental Conservation Division of Environmental Remediation, BURB 625 Broadway Albany, NY 12233-7016

Re: Site Management Plan - Addendum 1 **Kips Bay Fuel Terminal Site 626 First Avenue** New York, New York BCP Index No. A2-0515-0405, Site No. C234014 Langan Project No.: 170234201

Dear Mr. Lee:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) prepared this addendum, on behalf of 616 First Avenue Developer LLC, to modify the existing September 2011 Site Management Plan (SMP) for the property located at 626 First Avenue in New York, New York (the Site). Alternate addresses for the Site include 616 First Avenue and 435 East 35th Street. The site is also identified as New York City tax block 967, lots 1 and 2.

SMP Modification

The proposed modifications below will supersede the September 2011 SMP, which is included as Attachment A. Proposed modifications include the following:

- 1) Periodic Review Report Frequency The September 2011 SMP requires an annual Periodic Review Report. Due to the extensive removal of contaminated soil and groundwater and the construction of new building structures on both lots, we recommend reducing the frequency of periodic reporting from annual to every five years. We will continue to perform site inspections on an annual basis irrespective of the Periodic Review Report schedule. This proposed modification supersedes the first paragraph of Section 8.2 (Periodic Review Report) and all references to Periodic Review Report frequency in the NYSDEC-approved September 2011 SMP.
- 2) Development Depth The September 2011 SMP defines the Development Depth as the depth to the top of competent bedrock or the mean high water table (el -0.4 feet in the Manhattan Borough Datum [corresponding to el. 1.25 NAVD88], whichever is

Langan Project No.: 170234201

higher. We propose to redefine the Development Depth on Lot 1 as the bottom of foundation on the attached foundation drawings (Attachment A). Based on final excavation depths as part of site redevelopment, the Development Depth ranges from el. -21.975 to -36.725 NAVD88). Intrusive activities that disturb the waterproofing and soil beneath the foundation will be subject to the provisions of the SMP. This proposed modification to the Development Depth supersedes the fifth paragraph of Section 1.0 (Introduction & Purpose), the first paragraph, second sentence of Section 5.4 (Cover System), and all references to Development Depth in the NYSDEC-approved September 2011 SMP. No changes to the Development Depth are proposed for Lot 2 at this time.

Closing

Should you have any questions regarding the proposed modifications of the SMP, please call me at (212) 479-5582.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Ryan Manderbach, CHMM Senior Project Manager

Jason Hayes, P.E., LEED^{AP} Senior Associate

Enclosure: Attachment A- 2011 September SMP Prepared by TRC Engineers, Inc.

Attachment B- Lot 1 Foundation Drawings

cc: W. Scaglione, M. Stern – 616 First Ave LLC

J. Good – Langan

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Attachment A2011 September SMP Prepared by TRC Engineers, Inc.



FOR FORMER KIPS BAY FUEL TERMINAL 616 FIRST AVENUE NEW YORK, NEW YORK

NYSDEC BROWNFIELD CLEANUP PROGRAM Site Number C231014

Prepared by

TRC Engineers, Inc. New York, New York

TRC Project No. 180360

September 2011

Revisions to Final Approved Site Management Plan:

Revision #	Submitted	Summary of Revision	DEC Approval
	Date		Date

SITE MANAGEMENT PLAN FOR FORMER KIPS BAY FUEL TERMINAL

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SITE MANAGEMENT PLAN FOR FORMER KIPS BAY FUEL TERMINAL

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1.0 INTRODUCTION AND PURPOSE

This document is required as an element of the remedial program at the Kips Bay Fuel Terminal Site (hereinafter referred to as the "Site") under the New York State Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Voluntary Cleanup Order (VCO) Index #D2-0001-01-03; Site #V00430-2, which was executed on June 27, 2001. This agreement was later superseded by Brownfield Cleanup Agreement (BCA) Index# A2-0515-0405, Site #C231014, which was executed by the NYSDEC on June 16, 2010.

The former Kips Bay Fuel Terminal Site at 616 First Avenue, New York, New York is a 1.6-acre vacant property currently owned by 616 First Realty Company LLC and the New York City School Construction Authority. The location of the property is shown on Figure 1. The Site was characterized during several previous investigations and remediation of the Site was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Supplemental Soil Investigation Final Report and Remediation Work Plan dated August 2003 (RWP) and Final Report for Kips Bay Fuel Terminal Remediation Work Plan dated March 2006 (Final Report).

As part of the remediation, all Site soil was removed vertically to a depth slightly below Development Depth. As soil excavation proceeded along the property sidewalls, TRC placed imported clean sand from Amboy Aggregates along the property boundaries to maintain a safe excavation perimeter sloping in accordance with NYCDOB and OSHA requirements. Excavated soil from the sidewalls was temporarily stockpiled on-site until it was transported to an appropriate off-site disposal facility. Imported sand was backfilled and compacted, extending five feet inside the property line and graded down to the Development Depth at a slope of 1.5/1.

The remainder of the Site was backfilled with 6 to 12 inches of imported 1.5-inch crushed stone from Tilcon New York, Inc., West Nyack, New York. Approximately 2,030 tons of stone were used to backfill the Site. Stone was used rather than sand in order to provide a more secure base for vehicular site access and to assist in avoiding surficial ponding of precipitation.

This Site Management Plan ("SMP") primarily establishes the procedures for the management of soil and groundwater generated from below Development Depth, if any, during future construction activities associated with Site redevelopment. As presented in the Final Report and consistent with TRC's contract with the Site Developer, the Development Depth is defined as the



depth to the top of competent bedrock or the mean high water table (-0.4 feet in the Manhattan Highway Datum), whichever is higher. A figure showing the Site boundaries to which the SMP applies and the current property ownership is provided in Appendix A.

This plan is not intended to serve as a design document for the construction activities related to redevelopment activities. It is the owners' or owner designee's responsibility to prepare a design that incorporates the requirements for cover and soil/groundwater management as set forth in this SMP.

Failure to implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion. Failure to comply with the SMP is also a violation of Environmental Conservation Law, 6 NYCRR Part 375 and the BCA (Index #A2-0515-0405, Site #C231014) for the Site, and thereby subject to applicable penalties.

1.1 Overview and Objectives

The objective of the SMP is to set guidelines for management of soil and groundwater generated from below Development Depth during any future redevelopment activities, and to identify periodic reporting requirements.

The SMP establishes the procedures for the following activities:

- 1. Soil disturbance activities below Development Depth
- 2. Groundwater dewatering, if required,
- 3. Management of excavated soil and dewatered groundwater,
- 4. Management of new fill material,
- 5. Site-specific health and safety requirements during construction,
- 6. Notification of Change in Use of Property, and
- 7. Notification and reporting.

The SMP does not require groundwater and other environmental monitoring, public health monitoring, or monitoring to assess the effectiveness of the remedy. However, periodic inspections must be performed to assess the performance and effectiveness of the remedy.

1.2 Site History

The Site consists of a 340-by-200-foot rectangular-shaped lot. The Site is bordered by East 36th Street to the north, the Franklin D. Roosevelt (FDR) Drive to the east, East 35th Street to the south, and First Avenue to the west.



The area around the Site contains a mix of commercial and residential establishments. High-rise residential buildings are located on blocks immediately to the north and south of the Site. The New York University (NYU) Medical Center and Bellevue Hospital occupy city blocks to the south of the property. St. Vartan's Park is located to the west of the Site.

The Site was initially operated solely as a lumber and coal/wood yard, with various sheds, until 1899. By 1910, a one-story building occupied by the Liquid Carbonic Company had replaced the coal yard on the northern end of the Site. The remainder of the Site continued to be used as a lumberyard until circa 1926 when the New York Steam Corporation built a steam plant on the eastern side of the Site. At that time, the western end of the Site was vacant, and a Provision Factory had replaced the Liquid Carbonic Company as the occupant of the one-story building at the northernmost end of the Site. A 1950 historic Sanborn Map shows that the New York Steam Corporation occupied the entire Site, except for the southwest corner which was vacant. Coal, transported via a conveyer over the FDR Drive, provided fuel to the Steam Plant.

By 1980, the on-site steam plant occupied only the east side of the property, and the plant owner had become Con Edison Company, Incorporated. Three structures associated with underground fuel oil storage tanks, several transformers and vapor vents were present on the west side of the property. Much of the northwestern end of the Site was vacant. Historic Sanborn Maps from approximately 1950-1994 show the current on-site structures located on the western side of the property and the Steam Plant on the eastern side of the property. In the 1996 Historic Sanborn Map, the Steam Plant had been razed and the east end of the Site was shown to be vacant. Demolition of the steam plant began in 1987 and was completed circa 1994.

The Kips Bay Fuel Terminal stored fuel oil in a 255,000-gallon underground tank and served as a back-up fuel depot for the natural gas-powered steam boilers at Con Edison's Waterside Generating Station.

In 2005 616 First Realty Company LLC acquired the Site from Con Edison and in December of 2009 the New York City School Construction Authority acquired a portion of the Site (Block 967, Lot 2) for construction of a new elementary school.



2.0 PREVIOUS INVESTIGATIONS

2.1 Chronology

Several environmental investigations were performed at the property since 1998. The following reports present a chronological summary of the significant investigations performed at the property.

Phase I Environmental Site Assessment, Kips Bay Fuel Oil Terminal, Manhattan, NY, Foster Wheeler Environmental Corporation, September 14, 1998.

Phase II Environmental Site Assessment, Kips Bay Fuel Oil Terminal, 417 East 35th Street, New York, New York, GZA GeoEnvironmental, Inc., March 15, 2000.

Supplemental Soil Investigation Final Report and Remediation Work Plan, Kips Bay Fuel Terminal 616 First Avenue, New York, New York, TRC Engineers, Inc., August 2003.

Environmental remediation was completed at the property in August 2004, as documented in the following report:

Final Report for Kips Bay Fuel Terminal Remediation Work Plan, TRC Engineers, March 2006.

Copies of these reports can be found at NYSDEC's Albany Office and at the BCP document repository at the Science, Industry and Business branch of the New York City Public Library, located at 188 Madison Avenue, Manhattan.

2.2 Nature and Extent of Contamination

The remediation completed at the Site, as reported in the Final Report, resulted in the removal of all soil above the Development Depth. The Site was partially backfilled above Development Depth with clean sand meeting TAGM 4046 requirements and clean crushed stone. The constituents of potential concern (COPCs) for soil remaining at the Site below Development Depth consist primarily of metals and polycyclic aromatic hydrocarbons (PAHs). Results of groundwater sampling indicate that constituents in the soil below Development Depth have not significantly impacted groundwater quality. However, bedrock groundwater at the Site contains several volatile organic compounds (VOCs), each at concentrations slightly above NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards.



3.0 CONTEMPLATED USE

The objective of the RWP activities was to ready the Site for development for the Contemplated Use (i.e., residential and commercial development) in accordance with Track 4, restricted residential use with site-specific soil cleanup objectives (see 6 NYCRR Part 375-3.8(e)). During the remediation, all materials above the Development Depth were removed and disposed off-site. Activities that will disturb materials below the Development Depth must be conducted in accordance with this SMP and the Site is subject to the institutional controls set forth in the Environmental Easements attached hereto as Appendix F.

The Notification requirements of Section 8.0 of this SMP will be triggered by any change of use, including transfer of the title to all or part of the Site, or the erection of structures on the Site.



4.0 SUMMARY OF REMEDY IMPLEMENTED

As presented in the Final Report, the following remedial activities were completed to ready the Site for the Contemplated Use:

- Asbestos abatement, decommissioning and demolition of all buildings and subsurface structures to Development Depth;
- Removal of the 255,000-gallon UST and the concrete-lined ash pit;
- Excavation and disposal of all impacted soils and solids from the ash pit;
- Excavation and disposal of petroleum- and PCB-impacted soil;
- Excavation and disposal of all soil above Development Depth;
- Evaluation of groundwater conditions within the bedrock and shallow aquifer by installation and sampling of three bedrock monitoring wells and two shallow aquifer monitoring wells for VOCs, PAHs and metals;
- Close-out of all open NYSDEC spill numbers for previously-reported on-site impacts; and,
- Two feet of compacted clean soil meeting TAGM 4046. See Section 5.4 for a description of the future cover system for the Site.

As per the NYSDEC letters dated June 13, 2006 and July 28, 2006 (Appendix B) approving Site remediation and the Final Report, the Site meets the standards for development for the Contemplated Use.

In summary, all soils at the Site were removed to Development Depth; therefore, only those activities which will disturb soils and/or groundwater below Development Depth are governed by this SMP.



5.0 REMEDY MANAGEMENT/LONG TERM MAINTENANCE

Site redevelopment may disturb certain areas of the Site below Development Depth. Implementation of the SMP relative to these activities will be the responsibility of the property owner or owner's designee.

5.1 Site Preparation

As part of redevelopment or future intrusive on-site activities, the Site may require grading prior to construction of final Site structures and cover. Soil above Development Depth does not require any special handling for Site preparation activities.

5.2 Erosion and Dust Control

Silt fencing and hay bales will be utilized, as required, to prevent soils from below Development Depth from leaving the Site. Soil from below Development Depth adhered to construction vehicles and equipment will be removed prior to such vehicles and equipment leaving the Site. Brooms, shovels, washing or steam cleaning will be utilized for the removal of such soil from vehicles and equipment. Soil or construction debris from below Development Depth will be removed from vehicles and equipment at a designated area of the Site. Wastewater generated by the decontamination process for materials generated below Development Depth will be collected and analyzed for waste characterization and off-site disposal.

If required, dust suppression measures will be implemented during soil disturbance activities below Development Depth, and will include misting of soil and/or construction debris with water and, if appropriate, applying a dust suppressant, in high vehicle traffic areas. To evaluate the effectiveness of the dust suppression measures, dust particulate levels will be monitored utilizing real-time dust monitoring instrumentation as per the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (gCAMP; Appendix C).

5.3 Excavation Below Development Depth

The property owner or owner's designee will provide NYSDEC with notification of activities that disturb soil below Development Depth or generate dewatering fluids as per the notification requirements presented in Section 8.0 of this SMP. Access to soil/fill on the property will be controlled until final cover is placed to prevent direct contact with soils below Development Depth.



5.3.1 Management of Soil and Other Potential Solid Waste

The area of the Site where soil exists below the Development Depth is shown in Appendix D. Excavated soil and other potential solid waste (i.e., concrete rubble, remnants of former foundation piles, etc.) from below Development Depth will be stockpiled separately from other construction materials at the Site. Excavated soil will be temporarily stockpiled on plastic and covered with plastic or placed in a covered roll-off in a prepared area of the Site. Excavation below Development Depth will be overseen by a person who will provide the requisite annual certification.

Soil temporarily excavated from below Development Depth may be placed below Development Depth again during redevelopment-related construction. Any excess soil or other solid waste from below Development Depth that will not be placed back below Development Depth during redevelopment-related construction will be disposed off-site in accordance with all relevant federal, state and local regulations. Any soils which show obvious signs of significant contamination or free product will be segregated and disposed of off-site in accordance with relevant federal, state and local regulations. Segregation of contaminated soil for off-site disposal will be based on visual, olfactory and instrument-based soil screening performed by a qualified environmental professional during all development excavations below the Development Depth. Based upon the volume of stockpiled soil intended for off-site disposal, a representative number of composite and/or grab samples will be collected for laboratory analysis in accordance with potential disposal vendor requirements to determine waste disposal characterization. The analyses to be performed will depend upon the requirements of the off-site disposal facility selected by the property owner, and may include full toxic characteristic leaching procedure (TCLP) parameters, VOCs, PCBs, PAHs and metals. Based upon the results of the laboratory analyses, the final disposition of these materials will be determined.

Transport of materials will be performed by licensed haulers in accordance with appropriate local, state, and federal regulations, including 6 NYCRR Part 364. Contaminated material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used. In addition, (a) trucks will be prohibited from stopping and idling in the neighborhood outside the project Site; (b) egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site development; and (c) queuing of trucks will be performed on-site in order to minimize off-site disturbance.



Generally, trucks leaving the Site shall exit the Site onto 35th Street and proceed west to the nearest local City of New York-designated truck routes [i.e., First Avenue (to then travel north) or to Second Avenue (to then travel south)]. Trucks will travel via local truck routes to through truck routes leading out of the City. The labeling, packaging, and transportation of the waste shall be in compliance with federal and state rules and regulations, as well as those of the bridge and tunnel operators (i.e. the Port Authority of New York and New Jersey and MTA Bridges and Tunnels). Wastes must travel over or through only those specific bridges or tunnels that are designated for that specific type of waste. Figure 2 depicts the location of the Site and nearby truck transport routes from the Site to locations to the north, east and west.

5.3.2 Management of Construction Water and Groundwater

Water pumped from excavations below Development Depth will be managed properly in accordance with all applicable regulations so as to prevent endangerment of public health, property, or any portion of the construction.

Site development may require the dewatering of groundwater. Dewatered groundwater will be managed using any of the following three methods:

- 1. Discharge to the New York City sewer system with authorization from the New York City Department of Environmental Protection (NYCDEP);
- 2. Discharge to surface water pursuant to a SPDES Equivalent permit issued by the NYSDEC; or,
- 3. Transportation and disposal at an off-site treatment facility.

Discharge to the New York City sewer system is a convenient method for management of dewatering fluids during construction. The NYCDEP regulates discharges to the New York City sewers under NYCDEP's Title 15, Rules of the City of New York (RCNY) Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the dewatering fluids meets New York City's Sewer Use Guidelines. If necessary, the dewatering fluid will be pretreated to meet the New York City effluent discharge criteria.

The contractor may alternatively discharge to surface water (e.g., the East River). The NYSDEC regulates such discharges under 6 NYCRR 750. If the discharge utilizes the NYCDEP sewer system, then NYCDEP authorization will also be required as described above. The contractor may alternatively utilize an outfall to surface water not controlled by NYCDEP. Construction of



such an outfall would require NYSDEC and U.S. Army Corps of Engineers permits and approvals.

If discharge to the New York City sewer system is not feasible or is not desirable, the dewatering fluids will be managed by transportation and disposal at an off-site treatment facility, in accordance with all relevant federal, state and local regulations. A representative number of composite or grab samples will be collected for laboratory analysis in accordance with potential disposal vendor requirements to determine waste disposal characterization. Based upon the results of the laboratory analysis, the final disposition of the dewatering fluids will be determined

5.4 Cover System

Future Site development will constitute the cover system at the Site. Based on the elevation of Development Depth (approximately 6 to 9 feet below sidewalk grade elevation), there will be greater than two feet of cover over the entire Site. The cover system will consist of the building structures, clean fill soil, landscaping, and concrete and asphalt paving, in accordance with the New York City Department of Buildings (NYCDOB)-approved development plan for the Site.

Site redevelopment may, in addition to the new building structures, require the importation of clean fill to restore Site grade above Development Depth. Any soils imported to the Site must meet the backfill and cover soil quality standards established in 6 NYCRR Part 375-6.7(d)(1)(ii)(b) or otherwise approved by the NYSDEC. Appendix E provides a table listing the respective allowable constituent levels applicable to soil material to be placed above and below the Development Depth, respectively.

The NYSDEC previously approved the use of clean fill obtained from Amboy Aggregates, South Amboy, New Jersey for this Site. Additional laboratory testing of fill soil from any Site other than Amboy Aggregates will be performed. One representative sample from virgin soils will be obtained and analyzed for TCL VOCs, SVOCs, pesticides, PCBs, and Priority Pollutant metals to document compliance with TAGM RSCOs. Non-virgin soils will be tested via the collection of one composite sample per 500 cubic yards of material from each fill source area. If more that 1000 cubic yards of soil are borrowed from a given non-virgin soil source area and both samples of the first 1000 cubic yards meet TAGM RSCOs, the sample collection frequency will be reduced to one composite sample for every 2500 cubic yards of additional soils from the same source, up to 5000 cubic yards. For borrow sources greater than 5000 cubic yards, sampling



frequency will be reduced to one sample per 5000 cubic yards, provided all earlier samples met TAGM RSCOs.

5.5 Institutional Controls

The institutional control for the Site (referred to herein after as the Controlled Property) will consist of an Environmental Easement applying to disturbances of soil below Development Depth and usage of groundwater (Appendix F). Soil or material below Development Depth must be properly handled and disposed, if removed, in accordance with all applicable regulations. Any groundwater that is removed from the Site must be properly treated for disposal purposes.

The Institutional Controls that are applicable to this Site are as follows:

- 1. Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- 2. All Engineering Controls must be maintained as specified in this SMP;
- 3. All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP; and,
- 4. Groundwater, soil vapor and other environmental or public health monitoring are not required to be performed as part of this SMP. However, periodic inspections must be performed to assess the performance and effectiveness of the remedy.

The Site also has a series of Institutional Controls in the form of site restrictions that apply to the Controlled Property as follows:

- 1. The property may only be used for restricted-residential and commercial use below the Development Depth provided that the long term Engineering and Institutional Controls included in this SMP are employed. No environmental easements, engineering controls, institutional controls, or any other consents, approvals, or authorizations are required for any activities above the Development Depth.
- 2. A higher level of use, such as residential use, will not be allowed for activities below the Development Depth without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- 3. All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP; and,
- 4. The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use.



The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable (see Section 8.0).

5.6 Maintenance

Maintenance of the remedy is the responsibility of the property owner. Erosion of the soil cover system will be reduced by maintaining the cover system. Cover materials will be inspected annually and repaired as needed. The property owner will implement Site maintenance as part of future construction and normal property operations in accordance with NYCDOB requirements. The owner of the subject property will identify a qualified environmental consultant to provide all services described in this SMP. The responsibility to comply with this SMP will be transferred to any future property owners.



6.0 HEALTH AND SAFETY

The Site is not subject to the HAZWOPER requirements under 29 CFR 1910.120. Other OSHA provisions, specifically Construction Safety and Hazard Communication standards, apply. Soil and groundwater disturbance activities below Development Depth will be performed in accordance with all applicable federal, state and local regulations to protect worker health and safety. All contractors performing such work for the property owner will prepare a site-specific, activity-specific Health and Safety Plan (HASP). The HASP must also include provisions for protection of the community as described in Section 6.2 of this SMP.

6.1 Construction Personnel Protection

Contractors engaged in subsurface construction or maintenance activities will be required to implement appropriate construction health and safety procedures. These procedures will involve, at a minimum, donning adequate personal protective clothing and equipment, performing appropriate air monitoring, and implementing other procedures as necessary to avoid potential ingestion, inhalation and contact with residual constituents in the soil or groundwater below Development Depth. Workers will receive appropriate hazard communication information and training.

6.2 Community Air Monitoring Program

Air monitoring for dust particulates and volatile organic compounds (VOCs) will be performed during Site development activities below Development Depth in accordance with the NYSDOH Generic Community Air Monitoring Plan (gCAMP; Appendix C). All air monitoring readings will be recorded in a logbook or other means and will be available for review by the NYSDEC and NYSDOH.



7.0 QUALITY ASSURANCE/QUALITY CONTROL

7.1 Analytical Data

All waste characterization samples collected during Site redevelopment activities below Development Depth will be analyzed using the most recent NYSDEC Analytical Services Protocol (ASP), consistent with Section 2 of DER-10, the Technical Guidance for Site Investigation and Remediation.

The laboratory proposed to perform the analyses will be certified through the New York State Department of Health Environmental Laboratory Approval Program (ELAP) to perform Contract Laboratory Program (CLP) analysis and Solid Waste and Hazardous Waste Analytical testing on all media to be sampled during Site redevelopment. The laboratory will maintain this certification for the duration of the work.

Procedures for chain of custody, laboratory instrumentation calibration, laboratory analyses, reporting of data, internal quality control, and corrective actions shall be followed as per NYSDEC ASP and as per the laboratory's Quality Assurance Plan. If applicable, trip blanks, field blanks, field duplicates, and matrix spike, matrix spike duplicates will be performed at a rate of 5% (1 per up to 20 samples) and will be used to assess the quality of the data. The laboratory's in-house QA/QC limits will be utilized whenever they are more stringent than those suggested by the EPA methods.



8.1 Notifications

Notification to the NYSDEC will be required for transfer of the title to all or part of the Site, Site development (erection of structure) and maintenance activities below Development Depth.

Any change in ownership of the Site or the responsibility for implementing this SMP will include the following notifications: (1) at least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the BCA, and all approved work plans and reports including this SMP; and (2) within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing.

The following NYSDEC notification requirements apply to the Site:

- Seven (7) day advance notice of any proposed ground-intrusive activities;
- Notice within 48 hours of any damage or defect to the foundations of structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action taken to mitigate the damage or defect;
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the Site, with written confirmation within seven (7) days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public; and,
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the Department within 45 days and shall describe and document actions to restore the effectiveness of the Engineering Controls.

The requirements for notification shall cease once the Environmental Easement is removed, as approved by NYSDEC.



Notification contacts are as follows:

NYSDEC Division of Environmental Remediation 625 Broadway Albany, New York 12233-7011

8.2 Periodic Review Report

The Periodic Review Report (PRR) will be submitted to the Department on an annual basis, beginning 18 months after the Certificate of Completion is issued. The PRR will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of the certification period.

The PRR will include the following:

- Identification, assessment and certification of all Engineering Controls/Institutional Controls required by the remedy for the Site;
- The results of the required annual Site inspection:
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- If intrusive work was done below Development Depth during the period covered by that PRR:
 - o A certification that all work was performed in conformance with this SMP.
 - o Plans showing areas and depth of fill removal and replacement (if applicable).
 - Description of the excavation/dewatering activities performed, quantities of material excavated/pumped, disposal locations for the soil/groundwater, documentation of proper disposal (waste manifests or waybills).
- If backfill material was imported to the Site during the period covered by that PRR:
 - o Location of backfill material source.
 - Copy of analytical test results for backfill material, if applicable, documenting compliance with 6 NYCRR Part 375-6.7(d)(1)(ii)(b) or otherwise approved by the NYSDEC.



- A Site evaluation, which includes the following:
 - o The compliance of the remedy with the requirements of the site-specific Remedial Action Work Plan;
 - o The overall performance and effectiveness of the remedy.

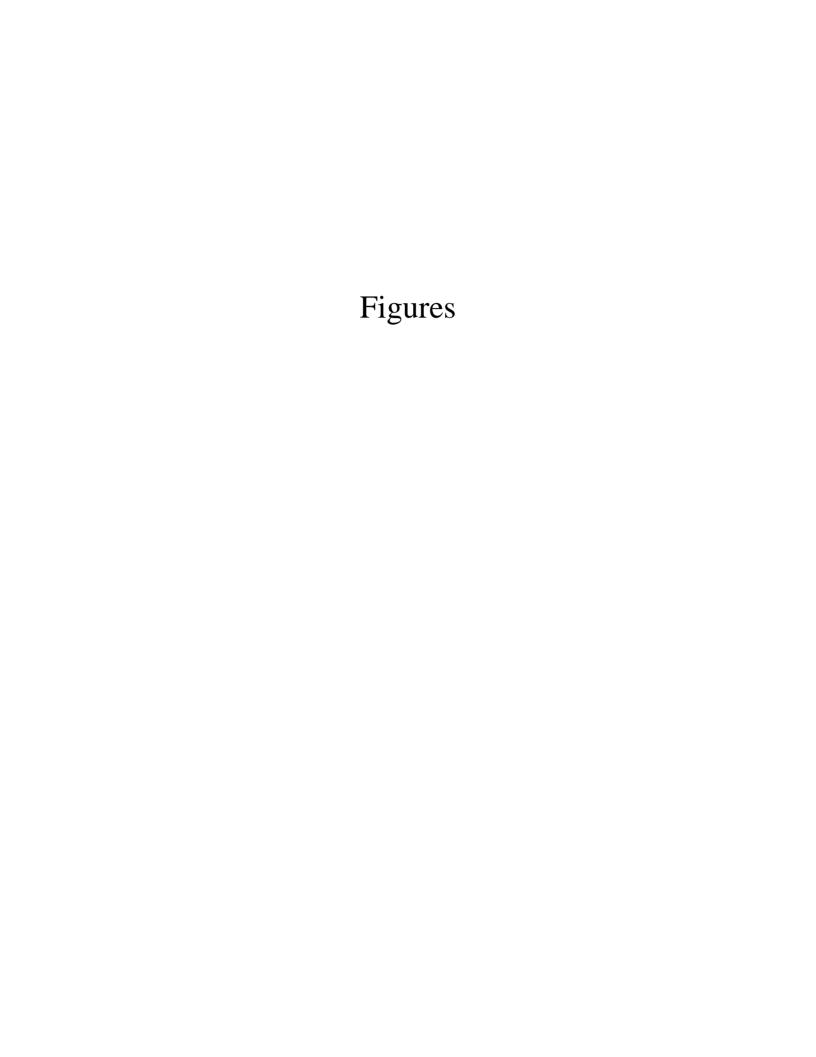
The PRR shall be submitted in electronic format to NYSDEC Central Office and the NYSDOH Bureau of Environmental Exposure Investigation.

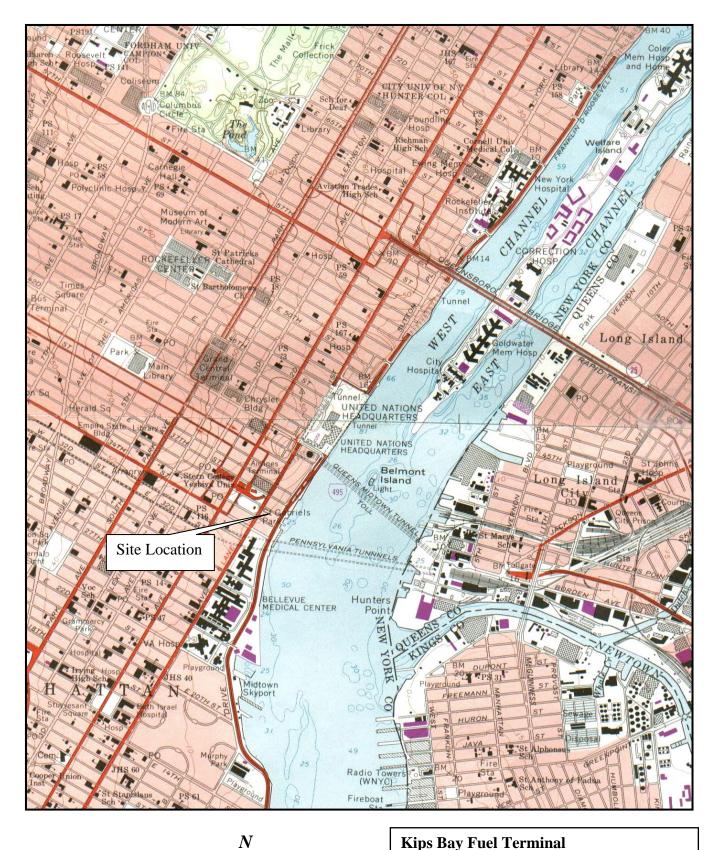
The requirement for reporting shall cease once the Environmental Easement is removed, as approved by NYSDEC.

8.3 Corrective Measures Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measure plan until it is approved by the NYSDEC.











New York, New York

616 First Avenue

Figure 1: Site Location Map Approximate Scale 1: 24,000

Source: USGS Topographical Survey Maps Central Park NY – NJ Quadrangle, Photorevised 1979 Brooklyn, NY, Photorevised 1979





1430 BROADWAY, 10TH FLOOR NEW YORK, NEW YORK 10018 212-221-7822

Son

DATE: MAY 2011 SCALE: AS SHOWN PROJECT NUMBER: 180360.0000.0000

DRAWING TITLE:

TRUCK TRANSPORTATION ROUTES

2

Appendix A Site Survey Maps

ALTA/ACSM LAND TITLE SURVEY 931 933

VICINITY MAP

NOT TO SCALE

SCHEDULE B ITEMS

- 1. Sewer Easement Grant by Consolidated Edison Company of New York, Inc. to The City of New York dated 06/23/65 recorded 7/27/65 in Liber 5335 Cp. 259 for the conveyance and transmission of sewage for the Newtown Creek Pollution Control Project.
- 2. Terms, Covenants and Conditions of the Water Grant made by the Mayor, Alderman and Commonalty of the City of New York to Henry J. Anderson dated 08/01/1850 recorded 08/08/1850 in Liber 553 Cp. 46 (Liber "H" of City Grants, Cp. 514).
- 3. Terms, Covenants and Conditions of Fixture Rezoning Covenant by and between Consolidated Edison Company of New York, Inc., 616 First Realty Company, LLC, 708 First Realty Company LLC and East River Realty Company LLC dated 3/25/05 recorded 5/4/05 in CRFN 2005000259034.
- 4. Restrictive Declaration made by 616 First Realty Company, LLC, 685 First Realty Company, LLC, 700 First Realty Company, LLC and 7085 First Realty Company, LLC dated as of 3/24/2008, recorded 4/17/2008 in CRFN 2008000153631.

With Regard Thereto:

- a. Waiver of Restrictive Declaration/Subordination of Covenant made by the Consolidation Edison Company of New York dated as of 3/24/2008, recorded 4/17/2008 in CRFN 2008000153630.
- b. First Modification to Restrictive Declaration made by 616 First Realty Company, LLC, 685 First Realty Company, LLC, 700 First Realty Company, LLC and 708 First Realty Company, LLC dated as of 12/21/2009, recorded 1/8/2010 in CRFN 2010000007223.
- c. Waiver of Restrictive Declaration/Subordination of Covenant made by The Consolidated Edison Company of New York dated as of 12/21/2009, recorded 1/8/2010 in CRFN 2010000007222.
- 5. Declaration made by 616 First Realty Company, LLC, as successor to East River Realty Company, LLC (f/k/a FSM East Rier Associates, LLC) dated 5/7/2008, recorded 5/19/2008 in CRFN 2008000200591.
- 6. Declaration of Zoning Lot Restrictions made by 616 First Realty Company, LLC and The New York City School Construction Authority dated 12/03/2009, recorded 1/8/2010 in CRFN 2010000007225.
- 7. Declaration of Zoning Lot Covenants and Restrictions made by and between The New York City School

Metes and Bounds Description Tax Block 967 Tax Lot 1

ALL that certain plot, piece or parcel of land situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as

BEGINNING at the corner formed by the intersection the easterly side of First Avenue (100 feet) with the southerly side of East 36th Street (60 feet wide);

RUNNING THENCE easterly, along the southerly side of East 36th Street, 344 feet 1 inch to the corner formed by the intersection of the southerly side of East 36th Street with the westerly side of F.D.R. Drive;

RUNNING THENCE southerly, along the westerly side of F.D.R Drive, 197 feet 8 inches to the corner formed by the intersection of the westerly side of F.D.R Drive with the northerly side of East 35th Street (60 feet wide);

RUNNING THENCE westerly, along the northerly side of East 35th Street, 159 feet 9 7/8 inches to a point;

feet 6 inches to a point; RUNNING THENCE westerly, parallel with the northerly side of East 35th Street,

RUNNING THENCE northerly, parallel with the easterly side of First Avenue, 122

192 feet 6 inches to the easterly side of First Avenue;

RUNNING THENCE northerly, along the easterly side of First Avenue, 75 feet to the corner, the point or place of BEGINNING.

Being the same parcel described in CRFN 2010000007226 recorded 01-08-2010 more particularly described as follows:

The premises comprises of an area of 45,190 sq.ft. or 1.0372 acres.

ALL that certain lot, piece or parcel of land situate, lying and being in the Borough of Manhattan, City, County and State of New York, bounded and described as follow:

BEGINNING at the corner formed by the intersection of the northerly line of East 35th Street with the easterly line of First Avenue;

RUNNING THENCE northerly along the easterly line of First Avenue, 197 feet 6 inches to the corner formed by the intersection of the southerly line of East 36th Street with the easterly line of First Avenue;

THENCE easterly along the southerly line of East 36th Street, 344 feet 1 inch to the corner formed by the intersection of the southerly line of East 36th Street with the westerly line of Franklin D. Roosevelt Drive;

THENCE southerly along the westerly line of Franklin D. Roosevelt Drive, 197 feet 8 inches to the corner formed by the intersection of the northerly line of East 35th Street with the westerly line of Franklin D. Roosevelt Drive;

THENCE westerly along the northerly line of 35th Street, 352 feet 3 7/8 inches to the point or place of BEGINNING.

LESS AND EXCEPTING THEREFROM:

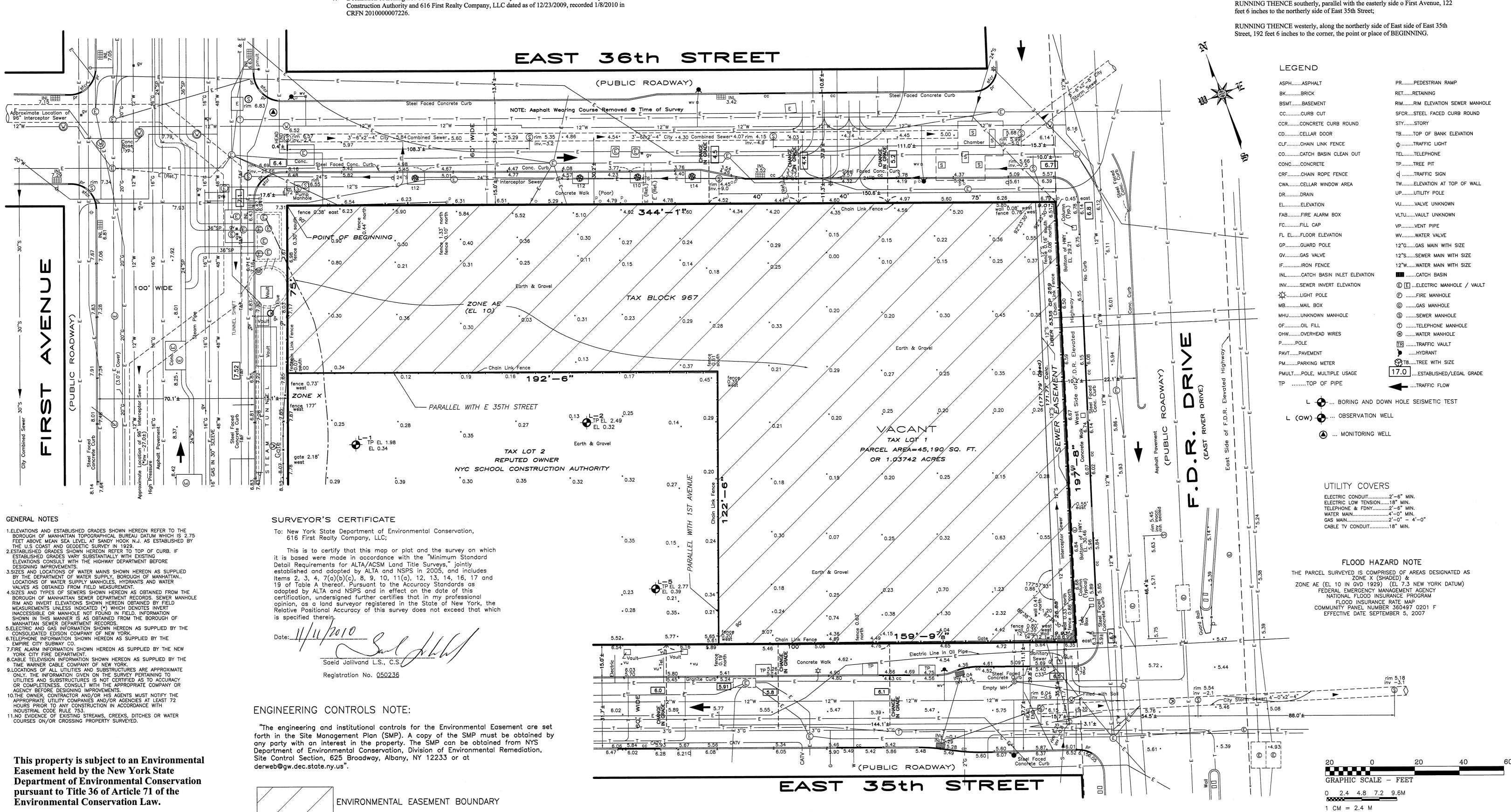
ALL that certain plot, piece of parcel of land, situate, lying and being in the Borough of Manhattan, City, County and State of New York, bounded and described as

BEGINNING at the corner formed by the intersection of the northerly side of East 35th Street (60 feet wide) with the easterly side of First Avenue (100 feet wide):

RUNNING THENCE northerly along the easterly side of First Avenue, 122 feet 6 inches to a point;

RUNNING THENCE easterly, parallel with the northerly side of East 35th Street, 192 feet 6 inches to a point;

RUNNING THENCE southerly, parallel with the easterly side o First Avenue, 122 feet 6 inches to the northerly side of East 35th Street;



ESTABLISHED 1876 * SUCCESSOR TO:

B.G. MEINIKHEIM C.S.*C.U. POWELL C.E., C.S.*L.C.L. SMITH C.S.*NATHAN CAMPBELL C.E., C.S.*A.U. WHITSON C.E., C.S.* WILLIAM L. SAVACOOL C.E., L.S., C.S. *A.U. WHITSON INC. C.E., C.S. *G. WEBER L.S., C.S. *C. STIDOLPH R.A., L.S. *WHITSON & POWELL INC. P.E.,L.S.,C.S.*KELLER & POWELL P.E.,L.S.,C.S.*LOUIS MONTROSE C.E.,L.S.,C.S.*FRED J. POWELL P.E.,L.S.,C.S.*

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW DESCRIPTION REV DATE REV DATE DESCRIPTION ALTA-ACSM LAND TITLE SURVEY /11-10-10 ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THI SURVEY IS PREPARED AND ON HIS BEHALE TO THE TITLE COMPANY. GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION, CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS

MONTROSE SURVEYING CO., LLP.

ALL RIGHTS RESERVED 2010

CITY OF NEW YORK COUNTY: NEW YORK TAX BLOCK: 967 CITY & LAND SURVEYORS TAX LOT 1 116 20 METROPOLITAN AVE * RICHMOND HILL NX 11418-1090 * (718) 849-0600

SCALE: 1" = 20'

38

SCHEDULE B ITEMS

1. Sewer Easement Grant by Consolidated Edison Company of New York, Inc. to The City of New York dated 06/23/65 recorded 7/27/65 in Liber 5335 Cp. 259 for the conveyance and transmission of sewage for the Newtown Creek Pollution Control Project. (Affects lot 1 only)

VICINITY MAP

NOT TO SCALE

- 2. Terms, Covenants and Conditions of the Water Grant made by the Mayor, Alderman and Commonalty of the City of New York to Henry J. Anderson dated 08/01/1850 recorded 08/08/1850 in Liber 553 Cp. 46 (Liber "H" of City Grants, Cp. 514).
- Terms, Covenants and Conditions of Fixture Rezoning Covenant by and between Consolidated Edison Company of New York, Inc., 616 First Realty Company, LLC, 708 First Realty Company LLC and East River Realty Company LLC dated 3/25/05 recorded 5/4/05 in CRFN 2005000259034.
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- 6. Declaration of Zoning Lot Restrictions made by 616 First Realty Company, LLC and The New York City School Construction Authority dated 12/03/2009, recorded 1/8/2010 in CRFN 2010000007225.
- Declaration of Zoning Lot Covenants and Restrictions made by and between The New York City School Construction Authority and 616 First Realty Company, LLC dated as of 12/23/2009, recorded 1/8/2010 in CRFN 2010000007226.

Metes and Bounds Description

Tax Block 967 Tax Lot 2 CRFN 2010000007224, Recorded 01-08-2010

ALL that certain plot, piece or parcel of land situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows;

BEGINNING at the corner formed by the intersection of the northerly side of East 35th Street (60 feet wide) with the easterly side of First Avenue (100 feet wide);

RUNNING THENCE northerly, along the easterly side of First Avenue, 122 feet 6 inches to a

RUNNING THENCE easterly, parallel with the northerly side of East 35th Street, 192 feet 6

RUNNING THENCE southerly, parallel with the easterly side of First Avenue, 122 feet 6

inches to the northerly side of East 35th Street;

RUNNING THENCE westerly, along the northerly side of East 35th Street, 192 feet 6 inches to the corner, the point or place of BEGINNING.

The premises comprises of an area of 23,581 sq.ft. or 0.54135 acres.

ALTA/ACSM LAND TITLE SURVEY

L-6 (OW) TP EL 3,58 EL 0,34

ZONE AE

6.71

High Pressure

fence 0.73' west

ZONE X

GENERAL NOTES

DESIGNING IMPROVEMENTS.

MANHATTAN SEWER DEPARTMENT RECORDS.

1.ELEVATIONS AND ESTABLISHED GRADES SHOWN HEREON REFER TO THE BOROUGH OF MANHATTAN TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.75

FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK N.J. AS ESTABLISHED BY THE U.S COAST AND GEODETIC SURVEY IN 1929.

2.ESTABLISHED GRADES SHOWN HEREON REFER TO TOP OF CURB. IF

STABLISHED GRADES VARY SUBSTANTIALLY WITH EXISTING ELEVATIONS CONSULT WITH THE HIGHWAY DEPARTMENT BEFORE

3.SIZES AND LOCATIONS OF WATER MAINS SHOWN HEREON AS SUPPLIED BY THE DEPARTMENT OF WATER SUPPLY, BOROUGH OF MANHATTAN. LOCATIONS OF WATER SUPPLY MANHOLES, HYDRANTS AND WATER VALVES AS OBTAINED FROM FIELD MEASUREMENT.

4.SIZES AND TYPES OF SEWERS SHOWN HEREON AS OBTAINED FROM THE

RIM AND INVERT ELEVATIONS SHOWN HEREON OBTAINED BY FIELD MEASUREMENTS UNLESS INDICATED (*) WHICH DENOTES INVERT

NACCESSIBLE OR MANHOLE NOT FOUND IN FIELD. INFORMATION SHOWN IN THIS MANNER IS AS OBTAINED FROM THE BOROUGH OF

BOROUGH OF MANHATTAN SEWER DEPARTMENT RECORDS, SEWER MANHOLE

-POINT OF BEQINAING

5.ELECTRIC AND GAS INFORMATION SHOWN HEREON AS SUPPLIED BY THE CONSOLIDATED EDISON COMPANY OF NEW YORK.

7.FIRE ALARM INFORMATION SHOWN HEREON AS SUPPLIED BY THE NEW

8.CABLE TELEVISION INFORMATION SHOWN HEREON AS SUPPLIED BY THE

R COMPLETENESS. CONSULT WITH THE APPROPRIATE COMPANY OR

TIME WARNER CABLE COMPANY OF NEW YORK.

9.LOCATIONS OF ALL UTILITIES AND SUBSTRUCTURES ARE APPROXIMATE
ONLY. THE INFORMATION GIVEN ON THE SURVEY PERTAINING TO
UTILITIES AND SUBSTRUCTURES IS NOT CERTIFIED AS TO ACCURACY

10.THE OWNER, CONTRACTOR AND/OR HIS AGENTS MUST NOTIFY THE APPROPRIATE UTILITY COMPANIES AND/OR AGENCIES AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION IN ACCORDANCE WITH

INDUSTRIAL CODE RULE 753.

11.NO EVIDENCE OF EXISTING STREAMS, CREEKS, DITCHES OR WATER COURSES ON/OR CROSSING PROPERTY SURVEYED.

6.TELEPHONE INFORMATION SHOWN HEREON AS SUPPLIED BY THE

EMPIRE CITY SUBWAY CO.

YORK CITY FIRE DEPARTMENT.

AGENCY BEFORE DESIGNING IMPROVEMENTS.

ENGINEERING CONTROLS NOTE:

"The engineering and institutional controls for the Environmental Easement are set forth in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@gw.dec.state.ny.us".

ENVIRONMENTAL EASEMENT BOUNDARY 0.29 -- PARALLEL WITH E 35TH STREET * 0.37 VACANT *0.20 TAX LOT 1 TÁX BLOCK 967 REPUTED OWNER TAX LOT 2 616 FIRST REALTY COMPANY, LLC PARCEL AREA=23,581 SQ. FT. OR 0.54135 ACRES 0.15 0.32 0.18 * 0.35 × 0.28 ×0.24 0.35 * *0.74 5.52× Concrete Walk SEWER ON STREET

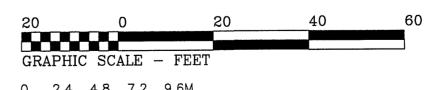
FLOOD HAZARD NOTE

35th STREET

5.06 5.84 CATV 5.93

6.28 6.219

THE PARCEL SURVEYED IS COMPRISED OF AREAS DESIGNATED AS ZONE X (SHADED) & ZONE AE (EL 10 IN GVD 1929) (EL 7.3 NEW YORK DATUM) FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 360497 0201 F EFFECTIVE DATE SEPTEMBER 5, 2007



ALL-RIGHTS RESERVED 2010

0 2.4 4.8 7.2 9.6M 1 CM = 2.4 M

(PUBLIC ROADWAY)

This property is subject to an Environmental Easement held by the New York State **Department of Environmental Conservation** pursuant to Title 36 of Article 71 of the **Environmental Conservation Law.**

LEGEND

PR.....PEDESTRIAN RAMP ASPH.....ASPHALT BK.....BRICK RET.....RETAINING RIM.....RIM ELEVATION SEWER MANHOLE BSMT.....BASEMENT SFCR....STEEL FACED CURB ROUND CC.....CURB CUT STY.....STORY CCR......CONCRETE CURB ROUND TB.....TOP OF BANK ELEVATION CD.....CELLAR DOOR ₼TRAFFIC LIGHT CLF......CHAIN LINK FENCE CO......CATCH BASIN CLEAN OUT TEL.....TELEPHONE TP.....TREE PIT CONC.....CONCRETE dTRAFFIC SIGN CRF.....CHAIN ROPE FENCE TW......ELEVATION AT TOP OF WALL CWA......CELLAR WINDOW AREA UP.....UTILITY POLE DR.....DRAIN VU.....VALVE UNKNOWN EL.....ELEVATION FAB.....FIRE ALARM BOX VLTU.....VAULT UNKNOWN FC.....FILL CAP VP.....VENT PIPE FL EL....FLOOR ELEVATION WV......WATER VALVE GP.....GUARD POLE 12"G.....GAS MAIN WITH SIZE GV.....GAS VALVE 12"S.....SEWER MAIN WITH SIZE 12"W.....WATER MAIN WITH SIZE IF.....IRON FENCECATCH BASIN INL.....CATCH BASIN INLET ELEVATION € E ...ELECTRIC MANHOLE / VAULT INV.....SEWER INVERT ELEVATION -- LIGHT POLE FFIRE MANHOLE MB.....MAIL BOX ©GAS MANHOLE SSEWER MANHOLE MHU.....UNKNOWN MANHOLE OF.....OIL FILL ①TELEPHONE MANHOLE OHW.....OVERHEAD WIRES WWATER MANHOLE P.....POLE TRTRAFFIC VAULT

....HYDRANT

行为T8.....TREE WITH SIZE

17.0ESTABLISHED/LEGAL GRADE

.....TOP OF PIPE L ----- BORING AND DOWN HOLE SEISMETIC TEST

L (OW) - ... OBSERVATION WELL

PAVT.....PAVEMENT

PM.....PARKING METER

PMULT.....POLE, MULTIPLE USAGE

(A) ... MONITORING WELL

UTILITY COVERS FLECTRIC CONDUIT......2'-6" MIN. ELECTRIC LOW TENSION......18" MIN. TELEPHONE & FDNY......2'-6" MIN.

WATER MAIN......4'-0" MIN. GAS MAIN.....2'-0" - 4'-0" CABLE TV CONDUIT......18" MIN.

1. BELOW GRADE ENCROACHMENTS AND VAULTS IF ANY NOT LOCATED.

2. THERE ARE NO PARKING SPACES ON THE PREMISES.

3. THE PREMISES IS SERVED BY GAS, WATER, ELECTRICITY, TELEPHONE AND SANITARY SEWER LINES INSTALLED IN STREET. 4. NO EVIDENCE OF THE SITE BEING USED AS SOLID WASTE DUMP.

5. THE PREMISES HAS ACCESS TO 35TH STREET & 1ST AVENUE.

SURVEYOR'S CERTIFICATE

To: New York State Department of Environmental Conservation, New York City School Construction Authority;

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes Items 2, 3, 4, 7(a)(b)(c), 8, 9, 10, 11(a), 12, 13, 14, 16, 17 and 19 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of New York, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

DESCRIPTION REV DATE REV DATE DESCRIPTION **MONTROSE** ALTA-ACSM LAND TITLE SURVEY / 11-10-10 ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL SURVEYING CO., LLP. OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES CITY & LAND SURYEYORS CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED AND ON HIS BEHALF TO THE TITLE COMPANY. GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE 116 20 METROPOLITAN AVE * RICHMOND HILL NY 1418 1090 * (718) 849-0600 LENDING INSTITUTION, CERTIFICATIONS
ARE NOT TRANSFERABLE TO ADDITIONAL

CITY OF NEW YORK COUNTY: NEW YORK TAX BLOCK: 967

TAX LOT 2

SCALE: 1" = 20'

ESTABLISHED 1876 * SUCCESSOR TO:

inches to a point;

B.G. MEINIKHEIM C.S.*C.U. POWELL C.E., C.S.*L.C.L. SMITH C.S.*NATHAN CAMPBELL C.E., C.S.*A.U. WHITSON C.E., C.S.* WILLIAM L. SAVACOOL C.E., L.S., C.S. *A.U. WHITSON INC. C.E., C.S. *G. WEBER L.S., C.S. *C. STIDOLPH R.A., L.S. *WHITSON & POWELL INC. P.E., L.S., C.S. *KELLER & POWELL P.E., L.S., C.S. *LOUIS MONTROSE C.E., L.S., C.S. *FRED J. POWELL P.E., L.S., C.S. *

Appendix B NYSDEC Approval Letters

APPENDIX B NYSDEC APPROVAL LETTERS

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, Albany, New York 12233-7016 Phone: (518) 402-9768 • FAX: (518) 402-9773

Website: www.dec.state.ny.us



June 13, 2006

Mr. Michael Skirka TRC Environmental Corporation 1200 Wall Street West, 2nd Floor Lyndhurst, New Jersey 07071

RE:

Voluntary Cleanup Project

First Avenue Properties VCP Sites

Kips Bay Fuel Terminal, 616 First Avenue

VCP # V00430 Final Report

Dear Mr. Skirka:

The New York State Department of Environmental Conservation (NYSDEC), along with the New York State Department of Health (NYSDOH), have completed a review of the "Final Report for Kips Bay Fuel Terminal Remediation Work Plan" (March 2006) and the "Letter Report, Groundwater Sampling Results for April 2006" (May 17, 2006) for the above-referenced site.

The Final Report indicates that all required remedial activities at the Site have been completed to ready the site for the contemplated use. The site is ready for unrestricted and unencumbered commercial and residential development down to the Development Depth, as described in Section 1.1 of the "Supplemental Soil Investigation Final Report and Remediation Work Plan" dated August 2003 as well as in Section 1.1 of the Final Report, contingent on the approval of a Site Management Plan (SMP).

For sites where institutional and engineering controls are required by the remedy, and will remain in place for longer than 18 months, a SMP must submitted to the Department and approved prior to the approval of the final engineering report. The SMP should provide guidance for the development, implementation and management of the site institutional and engineering controls to ensure that they are in place and remain effective. The institutional/engineering control certification will be scheduled and reported on a periodic basis and provided to the Department in writing by the Property Owner.

Once the SMP is approved by the Department, development may begin at any time, without restriction above Development Depth. If you have any questions, don't hesitate to call me at (518) 402-9768.

Sincerely,

Thomas Gibbons Project Manager

Remedial Bureau B, Section D

Division of Environmental Remediation

cc:

R. Cozzy/File

T. Gibbons

N. Walz (DOH)

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, Albany, New York 12233-7016 Phone: (518) 402-9768 • FAX: (518) 402-9773

Website: www.dec.state.ny.us



July 28, 2006

Mr. Michael Skirka TRC Environmental Corporation 1200 Wall Street West, 2nd Floor Lyndhurst, New Jersey 07071

RE: Volun

Voluntary Cleanup Project

First Avenue Properties VCP Sites

Kips Bay Fuel Terminal, 616 First Avenue

VCP # V00430 Final Report

Dear Mr. Skirka:

In a follow-up to my letter of June 13, 2006 (enclosed), approving the "Final Report for Kips Bay Fuel Terminal Remediation Work Plan", dated March 2006, I would like to clarify a few issues concerning this approval:

- DEC/DOH approve the March 2006 Final Report and its conclusions and the remedy is complete;
- No post-construction testing or engineering or institutional controls will be required at the site with respect to soil vapor intrusion;
- No deed restrictions, engineering controls, institutional controls, or any other consents, approvals, or authorizations are required for any activities above the Development Depth;
- The Site Management Plan (SMP) is required solely to document the existence of the institutional
 controls with respect to management of soil and groundwater below the Development Depth and that
 actions with respect to those media will be conducted in accordance with the SMP and applicable
 laws and regulations; and
- The agencies will consider the March 2006 Final Report, combined with the final SMP, to constitute the "final engineering report" for the Kips Bay site.

If you have any questions, don't hesitate to call me at (518) 402-9768.

Sincerely

Thomas Gibbons Project Manager

Remedial Bureau B, Section D

Division of Environmental Remediation

enclosure

cc:

R. Cozzy/File

T. Gibbons

N. Walz (DOH)

Appendix C NYSDOH Generic Community Air Monitoring Plan

APPENDIX C NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN

New York State Department of Health Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during <u>non-intrusive</u> activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m³ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m³ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m³ of the upwind level and in preventing visible dust migration.

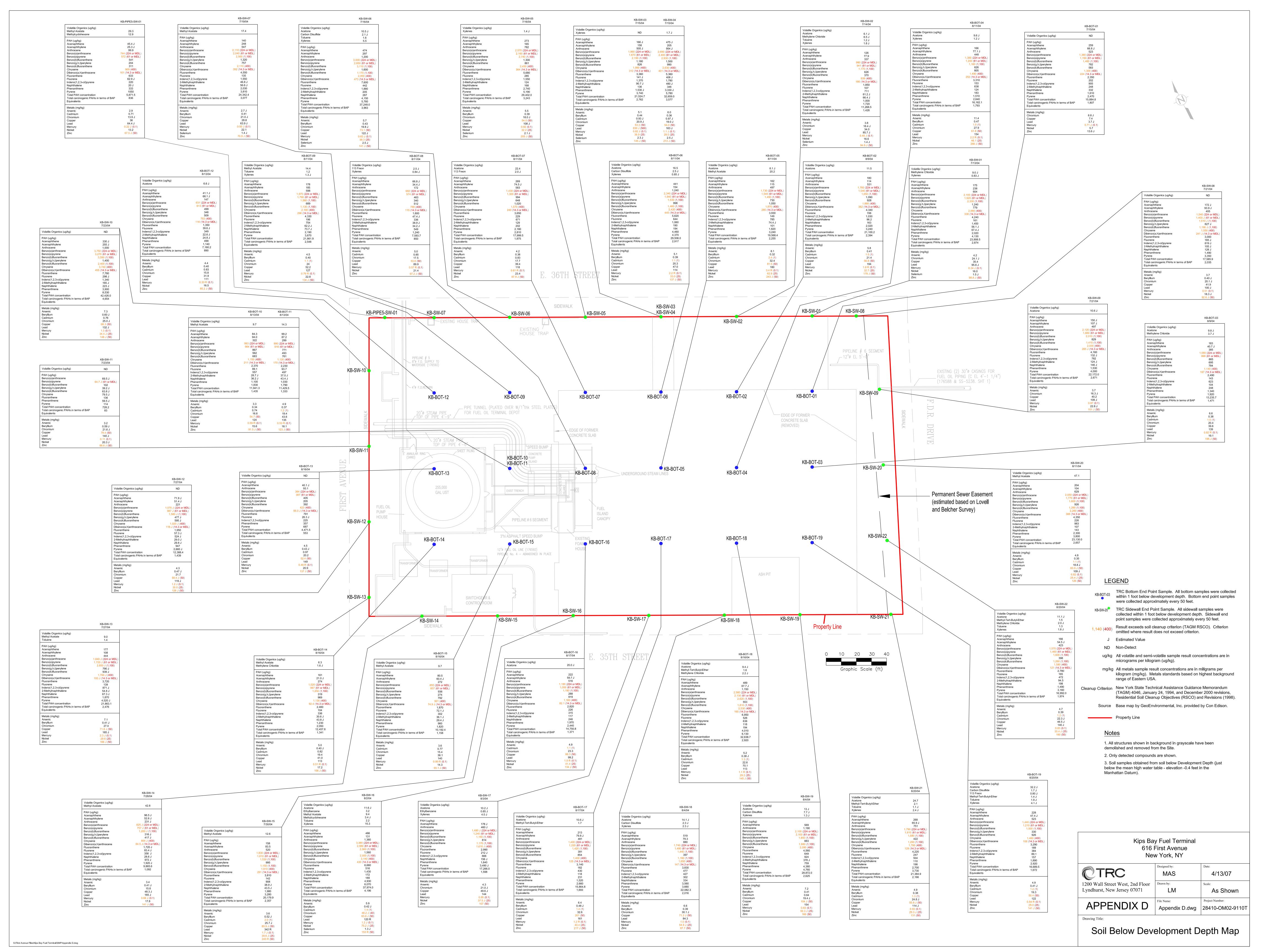
All readings must be recorded and be available for State (DEC and DOH) personnel to review.

June 20, 2000

H:\Southern\gCAMPr1.doc

APPENDIX D SOIL BELOW DEVELOPMENT DEPTH MAP

Appendix D Soil Below Development Depth Map



Appendix E NYSDEC Allowable Constituent Levels for Imported Soil

APPENDIX E NYSDEC CRITERIA FOR IMPORTED SOILS SITE MANAGEMENT PLAN FORMER KIPS BAY FUEL TERMINAL 616 FIRST AVENUE, NEW YORK NEW YORK

VOLATILE ORGANIC COMPOUNDS (VOCs)	Residential Use	Restricted Residential Use
1,1,1-Trichloroethane	0.68	0.68
1,1-Dichloroethane	0.27	0.27
1,1-Dichloroethene	0.33	0.33
1,2,4-Trimethylbenzene	3.6	3.6
1,2-Dichlorobenzene	1.1	1.1
1,2-Dichloroethane	0.02	0.02
1,3,5-Trimethylbenzene	8.4	8.4
1,3-Dichlorobenzene	2.4	2.4
1,4-Dichlorobenzene	1.8	1.8
1,4-Dioxane	0.1	0.1
Acetone	0.05	0.05
Benzene	0.06	0.06
Carbon tetrachloride	0.76	0.76
Chlorobenzene	1.1	1.1
Chloroform	0.37	0.37
cis-1,2-Dichloroethene	0.25	0.25
Ethylbenzene	1	1
Methylene Chloride	0.05	0.05
MTBE	0.93	0.93
n-Butylbenzene	12	12
N-Propylbenzene	3.9	3.9
sec-Butylbenzene	11	11
tert-Butylbenzene	5.9	5.9
Tetrachloroethene	1.3	1.3
Toluene	0.7	0.7
trans-1,2-Dichloroethene	0.19	0.19
Trichloroethene	0.47	0.47
Vinyl chloride	0.02	0.02
Xylenes, Total	1.6	1.6

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Residential Use	Restricted Residential Use
Acenaphthene	98	98
Acenaphthylene	100	100
Anthracene	100	100
Benzo[a]anthracene	1	1
Benzo[a]pyrene	1	1
Benzo[b]fluoranthene	1	1
Benzo[g,h,i]perylene	100	100
Benzo[k]fluoranthene	1	1.7
Chrysene	1	1
Dibenz(a,h)anthracene	0.33	0.33
Dibenzofuran	14	59
Fluoranthene	100	100
Fluorene	100	100
Hexachlorobenzene	0.33	1.2
Indeno[1,2,3-cd]pyrene	0.5	0.5
m-Cresol	0.33	0.33
o-Cresol	0.33	0.33
p-Cresol	0.33	0.33
Naphthalene	12	12
Pentachlorophenol	0.8	0.8
Phenanthrene	100	100
Phenol	0.33	0.33
Pyrene	100	100

METALS	Residential Use	Restricted Residential Use
Arsenic	16	16
Barium	350	400
Beryllium	14	47
Cadmium	2.5	4.3
Chromium, hexavalent	19	19
Chromium, trivalent	36	180
Copper	270	270
Cyanide, Total	27	27
Lead	400	400
Manganese	2000	2000
Mercury	0.73	0.73
Nickel	130	130
Selenium	4	4
Silver	8.3	8.3
Zinc	2200	2480

POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES	Residential Use	Restricted Residential Use
Total PCBs	1	1
4,4'-DDD	2.6	13
4,4'-DDE	1.8	8.9
4,4'-DDT	1.7	7.9
Aldrin	0.019	0.097
alpha-BHC	0.02	0.02
beta-BHC	0.072	0.09
Chlordane (alpha)	0.91	2.9
delta-BHC	0.25	0.25
Dieldrin	0.039	0.1
Endosulfan I	NC	NC
Endosulfan II	NC	NC
Endosulfan sulfate	NC	NC
Total Endosulfans	4.8	24
Endrin	0.06	0.06
gamma-BHC (Lindane)	0.1	0.1
Heptachlor	0.38	0.38
Silvex (2,4,5-TP)	3.8	3.8

- 1) Concentrations presented in mg/kg milligrams per kilogram.
 2) All levels from 6 NYCRR 375-6. Table 375-6.8(b) Restricted Use Soil Cleanup Objectives, in accordance with 6 NYCRR Part 375-6.7(d)(1)(ii)(b).
 3) Residential Use allowable levels apply to soils to be placed above Development Depth.
 4) Restricted Residential Use allowable levels apply to soils to be placed below Development Depth.
 5) NC No criterion.

Appendix F Environmental Easements

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 700 First Avenue in the City of New York, County of New York and State of New York, known and designated on the tax map of the Borough of Manhattan as tax map Block 970 Lot 1, being the same as that property conveyed to Grantor by deed dated May 31, 2005 and recorded in the City Register of the City of New York in Instrument No. CRFN 2005000335189, comprising approximately 4.47 acres, and hereinafter more fully described in the Land Title Survey dated November 10, 2010, which will be attached to the Site Management Plan. The property description (the "Controlled Property") is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of human health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of BCA Index Number: A2-0515-0405, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

- 1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.
- 2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.
 - A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii) and Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii), and any other uses permitted under applicable laws, rules, regulations, codes and/or ordinances to the extent not inconsistent with (x) 6 NYCRR Part 375-1.8(g)(2)(ii) and 6 NYCRR Part 375-1.8(g)(2)(iii) or (y) the other restrictions expressly set forth in Section 2. of this Environmental Easement.

- (2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan ("SMP");
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.
- (4) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- (5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- (6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- (7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- (8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

(9) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

- B. The Controlled Property shall not be used for raising livestock or producing animal products for human consumption, and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.
- C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer
NYSDEC – Region 2
Division of Environmental Remediation
47-40 21st St.
Long Island City, NY 11101
Phone: (718) 482-4995

or

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

- D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.
- E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

- G. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:
- (1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).
 - (2) the institutional controls and/or engineering controls employed at such site:
 - (i) are in-place;
- (ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and
- (iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;
- (3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;
- (4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;
- (5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- (6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and
 - (7) the information presented is accurate and complete.
- 3. <u>Right to Enter and Inspect.</u> Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.
- 4. <u>Reserved Grantor's Rights</u>. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:
- A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;
- B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

- B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.
- C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.
- D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.
- 6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number C2341013

Office of General Counsel

NYSDEC 625 Broadway

Albany New York 12233-5500

With a copy to:

Site Control Section

Division of Environmental Remediation

NYSDEC 625 Broadway Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

- 7. <u>Recordation</u>. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 8. <u>Amendment</u>. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 9. <u>Extinguishment.</u> This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

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County: New York

Site No: C231013

BCA Index No: A2-0515-0405

IN WITNESS WHEREOF, Grantor and Grantee each has caused this instrument to be signed in its name.

700 First Realty Company

Print Name: Sheldon H. Solow

Title: President Date: 1/13/2011

Grantor's Acknowledgment

STATE OF NEW YORK

COUNTY OF Menr York) ss:

On the 13 day of James, in the year 20 11, before me, the undersigned, personally appeared full H. Son, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

AMALIA C. DELUCIA
Notary Public, State of New York
No. 01DE6032868
Qualified in Queens County
Commission Expires November 8, 20/3

County: New York

Site No: C231013

BCA Index No: A2-0515-0405

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By:

Dale A. Desnoyers Director Division of Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
COUNTY OF A (band) ss:

Notary Public - State of New York

Drew A. Wellette
Notary Public, State of New York
Qualified in Schenectady Co.
No. 01WE6089074
Commission Expires 03/17/

County: New York S

Site No: C231013

BCA Index No: A2-0515-0405

SCHEDULE A PROPERTY DESCRIPTION

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, City, County and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly line of East 38th Street with the easterly line of First Avenue;

RUNNING THENCE northerly, along the easterly line of First Avenue, 515 feet 0 inches;

THENCE easterly, parallel with the northerly line of East 38th Street, 411 feet 7 3/8 inches to a point in the westerly line of Franklin D. Roosevelt Drive;

THENCE southerly, along the westerly line of Franklin D. Roosevelt Drive, on the arc of a circle curving to the right having a radius of 2431 feet 8 inches and a central angle of 6° 13' 33 inches, 264 feet 2 5/8 inches to a point of tangency;

THENCE southerly still along the westerly line of Franklin D. Roosevelt Drive, 56 feet 4 ¼ inches to an angle point therein;

THENCE easterly, still along the westerly line of Franklin D. Roosevelt Drive and parallel with the northerly line of East 38th Street, 1 foot 2 3/8 inches to an angle point therein;

THENCE southerly, still along the westerly line of Franklin D. Roosevelt Drive, 200 feet 3 1/8 inches to the corner formed by the intersection of the northerly line of East 38th Street with the westerly line of Franklin D. Roosevelt Drive;

THENCE westerly, along the northerly line of East 38th Street, 336 feet 10 3/8 inches to a point or place of BEGINNING.

Attachment B- Lot 1 Foundation Drawings

ABBREVIATIONS: LOW ANCHOR BOLT LINK BEAM ABOVE AIR CONDITIONER POUNDS AMERICAN CONCRETE INSTITUTE LB/FT POUNDS PER FOOT ADD'L ADDITIONAL DEVELOPMENT LENGTH ADJACENT LONG LIVE LOAD ABOVE FINISHED FLOOR LATERAL LOAD RESISTING SYSTEM AMERICAN INSTITUTE OF STEEL CONSTRUCTION LLRS LOW POINT ALTERNATE ALUM ALUMINUM LRFD LOAD RESISTANCE FACTOR DESIGN ANCH ANCHOR ANG ANGLE LIGHT WEIGHT APPD APPROVED APPROX APPROXIMATE ARCH MAXMAXIMUM ARCHITECTURAL ASTM MASONRY AMERICAN SOCIETY FOR TESTING AND MATERIALS MAS MATER MATERIAL AVERAGE AVG AMERICAN WELDING SOCIETY MAXMAXIMUM AWS MOMENT CONNECTION METAL DECK BETW BETWEEN MECH MECHANICAL MECHANICAL ELECTRICAL AND PLUMBING BRACE FRAME MEZZ MEZZANINE BRACKET MOMENT FRAME BUILDING LINE BLDG BUILDING MFG MANUFACTURER MINIMUM MISC MISCELLANEOUS BOTTOM BRK BRICK NORTH B/STL BOTTOM OF STEEL NOT APPLICABLE BOTH SIDES NIC NOT IN CONTRACT NUMBER CANT CANTILEVER NORTH-SOUTH N-SCUBIC FOOT NOT TO SCALE NTS CENTER OF GRAVITY NORMAL WEIGHT CAST IN PLACE CONCRETE JOINT CENTER LINE ON CENTER OPNG OPENING CEILING OPPOSITE CONSTRUCTION MANAGER PILE CAP CMU CONCRETE MASONRY UNITS PCF POUNDS PER CUBIC FEET CONCRETE POUNDS PER LINEAR FOOT COND CONDITIONS POUNDS PER SQUARE FOOT CONN CONNECTION POUNDS PER SQUARE INCH CONST CONSTRUCTIONS POST TENSION CONT CONTINUOUS CONTR CONTRACTOR COORD REINFORCED CONCRETE COORDINATE CORR ROOF DRAIN CORRUGATED REFERENCE CUBIC YARD REINF REINFORCEMENT DEMO DEMOLITION REQ'D REQUIRED DEPARTMENT REQUEST FOR INFORMATION RFI DETAIL DIAMETER SOUTH SPANDREL BEAM DIMENSION DIRECTION SCHED SCHEDULE DOWN SECTION DOWEL SQUARE FOOT DRAWING SHEET SLAB SPACING EACH **SPEC** SPECIFICATIONS EACH FACE SQUARE ELEVATION ELECTRIC STANDARD STIFF ELEVATOR STIFFENER EMBD EMBEDMENT STEEL ENCL ENCLOSURE STRUCT STRUCTURAL EOR ENGINEER OF RECORD SHEARWALL EOS EDGE OF SLAB SIM SIMILAR EMBEDDED PLATE TOP AND BOTTOM EQUAL EQUIP EQUIPMENT THICK ETCETERA TOP OF EACH WAY TO BE DETERMINED EAST WEST $\mathsf{E}\!-\!\mathsf{W}$ TEMPORARY EXIST EXISTING TONS PER SQUARE FOOT EXPANSION TYPICAL EXP JT EXPANSION JOINT EXTENSION UON UNLESS OTHERWISE NOTED EXTR EXTERIOR UPTURNED BEAM FLOOR VERT VERTICAL FOUNDATION VERIFY IN FIELD FACE OF BUILDING FIRE PROOFING WITH FOOTING W/O WITH OUT WIDE FLANGE GAUGE WORKING POINT GALV GALVANIZED WATER PROOFING GENERAL CONTRACTOR WATER STOP GRADE BEAM WIND TRUSS GRTG GRATING WELDED WIRE FABRIC GYP. BD GYPSUM BOARD CENTERLINE HIGH PLATE HDR HEADER ANGLE HGT HEIGHT HORIZ HORIZONTAL DIAMETER HIGH POINT HOUR HIGH STRENGTH HEAT, VENTILATION & AIR CONDITIONING INSIDE DIAMETER INTERIOR FACE INCH INCLUDING INFORMATION INSULATION KIP (1000 POUNDS) KIPS PER SQUARE FOOT KIPS PER SQUARE INCH

GENERAL NOTES: 1. ALL WORK TO BE PERFORMED IN COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE, LATEST EDITION AND ALL SUPPLEMENTS. 2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND BE RESPONSIBLE

3. TEMPORARY SHORING IS REQUIRED, WHERE CONTRACTOR IS RESPONSIBLE FOR ENGINEERING AND CONTROLLED INSPECTION OF TEMPORARY SYSTEMS. 4. THE CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE ENGINEER.

5. ALL SHEETING, SHORING OR OTHER CONSTRUCTION REQUIRED FOR THE SUPPORT OF ADJACENT PROPERTIES, BUILDINGS, SIDEWALKS, UTILITIES, ETC., SHALL BE SUBJECT TO SPECIAL INSPECTION AS REQUIRED BY THE CODE. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER ACCEPTABLE TO THE ENGINEER OF RECORD TO PROVIDE THE NECESSARY DESIGN AND THE REQUIRED INSPECTION. THE CONTRACTOR'S PROFESSIONAL ENGINEER SHALL PREPARE AND FILE THE REQUIRED FORMS FOR THE WORK WITH THE BUILDING DEPARTMENT. 🖒 6. ALL COORDINATES, COLUMN LOCATIONS AND GENERAL ARRANGEMENT OF SLAB EDGES AND OPENINGS TO BE SET BY THE ARCHITECTURAL DRAWINGS.

FOUNDATION NOTES:

FOR ACCURATE COORDINATION WHERE POSSIBLE.

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A. PILE NOTES 1. FOUNDATION DESIGN AND PILE STRENGTH ARE BASED ON GEOTECHNICAL REPORT BY RA CONSULTANTS LLC 2. PILE CAPACITY TO BE 250 TONS IN COMPRESSION AND 4 TONS IN

LATERAL CAPACITY IN WEAK AXIS AND 10 TONS IN STRONG AXIS. TO BE VERIFIED BY PILE DRIVING CONTRACTOR FOLLOWING A TEST PILE PROGRAM. (SEE PILING SPECIFICATION) THE PROPOSED PILE IS AS FOLLOWS: A. PILES TO BE HP14x89 (Fy=50ksi) B. SEE SPECS FOR PILE DRIVING OPERATIONS

3. PILE DRIVING TO BE SUPERVISED BY A LICENSED PROFESSIONAL ENGINEER 2008 NYC BUILDING CODE. 4. ALL PILES TO CONFORM WITH THE REQUIREMENTS OF LATEST OF NYC EDITION OF NYC BUILDING CODE AND IN ACCORDANCE WITH PROJECT PILE SPECIFICATIONS. 5. ALL PILES TO BE DRIVEN TO MINIMUM PENETRATION IN BEARING STRATUM AND TO MINIMUM DRIVING RESISTANCE OF 5 BLOWS PER 1/4" WITH A 75k-ft HAMMER

WITH THE BUILDING DEPARTMENT. 7. AN "AS-DRIVEN" PILE LOCATION PLAN(S) AND PILE LOG SHALL BE FILED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE BUILDING DEPARTMENT. NO PILE CAPS ARE TO BE PLACED BEFORE THIS IS DONE. 8. PLANS TO INDICATE MINIMUM REQUIRED PENETRATION OF ALL PILES, SHALL BE FILED WITH THE BUILDING DEPARTMENT.

9. LOAD TESTS SHALL BE PERFORMED AS PER REQUIREMENTS OF THE NYC BUILDING CODE. 10. ALL PILE CAP REINF. TO BE PLACED AS BOTTOM REINFORCING AS SHOWN ON PILE CAP DETAIL U.O.N. TOP REINFORCING TO BE PROVIDED WHERE SHOWN OR NOTED. ABBREVIATIONS: L.W. = LONG WAYS.W. = SHORT WAYE.W. = EACH WAY

6. A PLAN SHOWING THE IDENTIFICATION OF ALL PILES AND PILE NUMBERING PLAN SHALL BE FILED

ALL HOOK BARS ARE STANDARD 90° HOOK U.O.N. THE SPLICE LENGTH OF HOOK BARS TO MAIN BOTTOM BARS SHALL NOT BE LESS THAN 36d (BAR DIAMETER). EXTEND BEAM REINFORCING INTO PILE CAP WHERE BEAMS INTERSECT PILE CAPS. SEE PLAN FOR REFERENCE TO DETAILS & SECTIONS 11. ALL COSTS RELATIVE TO THE CERTIFICATION OF PILE DRIVING, PILE LOCATION, PILE IDENTIFICATION AND CORRECTIVE MEASURES RELATED TO PILE

B. CAISSON NOTES

1. THE DESIGN AND INSTALLATION OF CAISSONS, CAISSONS CAPS, AND RELATED CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS SET FORTH IN THE NEW YORK

CITY BUILDING CODE AND THE SPECIFICATIONS. 2. DRILLED CAISSONS SHALL HAVE THE FOLLOWING PARAMETERS AS PER RECOMMENDATION FROM GEOTECHNICAL ENGINEER:

A. 24"ø x ½" (MIN.) CAISSON = 1500 T COMPRESSIVE LOAD CAPACITY TENSION LOAD CAPACITY = 750 TB. 13.325ø x ½" (MIN.) CAISSON TENSION AND COMPRESSIVE CAPACITY = 250 T

DEVIATIONS SHALL BE BORNE BY THE CONTRACTOR.

C. UPLIFT AND LATERAL FIELD TEST ARE REQUIRED. 4. CAISSON ROCK SOCKETS TO BE SUPERVISED BY A LICENSED PROFESSIONAL ENGINEER. 5. CAISSON OPERATIONS TO BE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE, AND ARE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH NEW YORK CITY

BUILDING CODE. 6. A PLAN SHOWING THE IDENTIFICATION OF ALL CAISSONS AND A CAISSONS NUMBERING PLAN IS TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR FILING WITH THE BUILDING DEPARTMENT PRIOR TO COMMENCEMENT OF DRILLING OPERATIONS. 7. LOAD TESTS (IF NECESSARY) SHALL BE PERFORMED AS PER THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE. LOCATION OF TEST CAISSONS TO BE APPROVED BY THE

ENGINEER OF RECORD. ALD ROCK SOCKETS SHALL BE VIDEO INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM CLASS 1C BEDROCK OR BETTER. 8. ALL CAISSON GROUPS AND CAISSON CAPS TO BE CONCENTRIC WITH COLUMNS AND WALLS ABOVE UNLESS OTHERWISE NOTED ON PLAN.

9. RECORDS OF PENETRATION OF EVERY CAISSON AND THE BEHAVIOR OF SAME DURING DRILLING ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD. 10. AN "AS-DRILLED" CAISSON LOCATION PLAN AND CAISSON LOGS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL, NO CAISSON CAPS ARE TO BE PLACED BEFORE

THIS IS DONE. 11. ESTIMATED AVERAGE CAISSON LENGTH IS PER GEOTECHNICAL CONSULTANT. CAISSON LENGTH COULD VARY DUE TO ACTUAL SOIL CONDITION. 12. FOR CAISSON DETAILS AND DESIGN REFER TO GEOTECHNICAL CONSULTANT REPORT AND SPECIFICATIONS.

C. FOOTING NOTES

1. ALL FOOTINGS, PIER AND FOUNDATION WALLS SHALL BEAR ON ROCK WITH A SAFE BEARING CAPACITY OF 40 TON PER SQ. FT. SEE FOOTING SCHEDULE ON DRAWING FO-100. 2. WHERE THE REQUIRED BEARING MATERIAL IS NOT FOUND AT THE ANTICIPATED ELEVATION SHOWN (ELEVATION BASED ON BORING INTERPOLATED DATA) THE FOOTINGS SHALL BE LOWERED TO A DEPTH AT WHICH THE REQUIRED BEARING CAPACITY IS FOUND. PROVIDE PIER AS REQUIRED. FOR MIN. REQUIREMENTS SEE TYP. DETAILS.

CONCRETE AND STEEL REINFORCEMENT

AT EAST & WEST TOWER

1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONTROLLED CONCRETE, U.O.N., AND COMPLY WITH A.C.I. BUILDING CODE AND THE CURRENT NEW YORK CITY. BUILDING CODE. 2. CONCRETE STRENGTH SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED: -PILE CAPS/FOOTING/MAT SLAB 7200 PSI

> -PILE CAPS AND MAT SLAB 5000 PSI AT LOW RISE AREA -COLUMNS/SHEARWALLS SEE COLUMN SCHEDILE -STRUCTURAL SLAB 6000 PSI (U.O.N.)* -FOUNDATION WALL & BUTTRESSES 6000 PSI (U.O.N. ON PLAN)

CONCRETE SLABS (IF POURED BEFORE THE COLUMNS ABOVE) MUST BE OF A STRENGTH ACCORDING TO THE "DETAIL OF BEAM AND SLAB CONCRETE PLACEMENT AT HIGH STRENGTH COLUMN." DWG. S-962. 3. ALL STEEL REINFORCEMENT SHALL HAVE AN ULTIMATE TENSILE STRENGTH OF 90,000 PSI AS PER A.S.T.M. A615-92 GRADE 60 U.O.N.. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL

THE NECESSARY CHAIRS, REBARS, TIES, SPACERS, ETC., TO SECURE AND SUPPORT THE REINFORCING WHILE PLACING THE CONCRETE. ALL REBARS LARGER THAN #11 SHALL HAVE A MINIMUM YIELD STRESS OF

*WHERE SUPPORTING COLUMN STRENGTH IS 8400 PSI OR GREATER THE

fy=75ksi AND SHALL BE MECHANICALLY TENSION/COMPRESSION SPLICED. 4. ALL BARS MARKED CONTINUOUS, SHALL BE LAPPED AS PER TENSION LAP TABLES (MIN 36 DIA) AT SPLICES AND CORNERS EXCEPT AS OTHERWISE SHOWN ON PLANS. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND BOTTOM BARS AT SUPPORTS. HOOK TOP BARS AT DISCONTINUOUS ENDS.

5. CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, ETC., AS REQUIRED FOR THE VARIOUS TRADES.

6. PARKING FLOORS, RAMPS, DRIVEWAYS EXPOSED TOPPING, SIDE WALLS - ALL DIRECTLY EXPOSED TO CARS AND/OR PEDESTRIAN TRAFFIC A. DCI (CALCIUM NITRITE) CORROSION INHIBITOR, (4.0 GAL/YD3)

B. WATER/CEMENT RATIO NOT TO EXCEED 0.40 C. USE OF SUPERPLASTICIZER TO ACHIEVE THE W/C RATIO.

D. CONCRETE TO CONTAIN SILICIA FUME (5% OF TOTAL CEMENT) OR SLAG (40%) E. 1.5 LBS/YD3 FIBER MESH.

F. ENTRAINED AIR AT $6\% \pm 1$. G. THE CURING SHALL BE ONLY MOIST TYPE. NO CURING COMPOUND ACCEPTABLE.

H. ALL TOP REBARS TO BE EPOXY COATED. J. ALTHOUGH PROTECTIVE MEASURES WERE INCORPORATED IN THE DESIGN OF THE PARKING AREAS AND RAMPS, THESE AREAS MUST BE CAREFULLY MAINTAINED

IN ORDER TO PREVENT EARLY DETERIORATION. I. ALL EMBEDDED METALLIC ITEMS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

7. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 11/2" FOR SLABS AND INTERIOR WALL SURFACES EXPOSED TO VEHICULAR/PEDESTRIAN TRAFFIC; AND COLUMNS (TIES, STIRRUPS OR PRIMARY REINFORCEMENT), FOR ALL CONCRETE EXPOSED TO WEATHER AND EARTH FILL, COVER SHALL BE 2". FOR CONCRETE PLACED AGAINST EARTH, MINIMUM COVER SHALL BE 3' TOP COVER FOR REINFORCEMENT IN RETAIL (AND RESIDENTIAL) SLABS TO BE 3/4"

8. THE CONTRACTOR MUST SUBMIT REINFORCING SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONSTRUCTION IS TO BE STARTED UNTIL THE SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER. 9. THE STRUCTURAL ENGINEER OR HIS FIELD QUALIFIED REPRESENTATIVE MUST CHECK AND APPROVE ALL STEEL REINFORCING PRIOR TO CONCRETE PLACEMENT.

G. CODES AND TESTS

TO A.S.T.M. A-36, U.O.N.

1. THIS STRUCTURE HAS BEEN DESIGNED UNDER THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE AS AMENDED AND A.C.I. 318. 2. ALL CONTROLLED CONCRETE SHALL COMPLY WITH THE A.C.I. 318 BUILDING CODE AND THE NEW YORK CITY BUILDING CODE. A SPECIAL

AMENDMENT FORM FOR CONTROLLED CONCRETE WITH CONCRETE TESTS AND CURVES OF TESTS FOR THE PRELIMINARY DESIGN MIX PREPARED BY AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER FOR FILING WITH THE BUILDING DEPARTMENT. NO CONCRETE IS TO BE PLACED BEFORE SUCH AN AMENDMENT IS APPROVED BY THE BUILDING DEPARTMENT. 3. DESIGN AND CONSTRUCTION OF FORMWORK IS TO COMPLY WITH THE A.C.I.

318 BUILDING CODE AND THE NEW YORK CITY BUILDING CODE AS 4. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH THE A.C.I. BUILDING CODE.

5. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT" A.S.T.M. A615 GRADE 60. THE STEEL SUPPLIER SHALL PROVIDE THE ENGINEER WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF THE A.S.T.M. 6. ALL STRUCTURAL STEEL (LINTELS, DUNNAGE BEAMS, ETC.) SHALL CONFORM

MASONRY NOTES

1. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS FOR C.M.U. MASONRY CONSTRUCTION AND APPEARANCE. DETAILS

AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO SUPPLEMENT ARCHITECTURAL REQUIREMENTS AND TO DEFINE ELEMENTS WHICH PROVIDE STRUCTURAL STRENGTH AND STABILITY.

2. DETAILS, SECTIONS, SCHEDULES, ETC. AND THESE NOTES, REPRESENT THE MINIMUM REQUIREMENTS FOR STRUCTURAL ADEQUACY. WHERE ARCHITECTURAL REQUIREMENTS DIFFER FROM STRUCTURAL, THE MORE STRINGENT SHALL BE FOLLOWED.

3. CODE: MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE NEW YORK CITY BUILDING CODE AND TO ACI 530/ASCE-5 AS REFERENCED BY THE NYC CODE. 4. MASONRY UNITS SHALL BE LIGHTWEIGHT HOLLOW LOAD BEARING CONCRETE MASONRY (CMU). COMPRESSIVE STRENGTH OF MASONRY F'M SHALL BE A MINIMUM

OF 1.500 PSI. 5. MORTAR SHALL BE TYPE M OR S. 6. HORIZONTAL JOINT REINFORCEMENT SHALL BE TRUSS TYPE GALVANIZED

COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A 951. 7. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN EVERY OTHER JOINT (16" O.C. VERTICALLY) UNLESS PLANS OR DETAILS CALL FOR CLOSER SPACING OR

ADDITIONAL REINFORCEMENT. 8. BAR REINFORCEMENT: ASTM A 615 GRADE 60, PER SCHEDULE. FOR ADDITIONAL REINFORCEMENT SEE WALL REINFORCEMENT ELEVATION. 9. ALL CELLS WITH REINFORCEMENT SHALL BE GROUTED SOLID FOR THE FULL

EXTENT OF BAR, VERTICAL AND HORIZONTAL. 10. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. GROUT SHALL BE "FINE" AS DEFINED BY ASTM C 476. 11. STEEL ANGLES: ASTM A 36. STEEL IN AN EXTERIOR WALL OR EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED. 12. CONTRACTOR SHALL COORDINATE ALL MASONRY WORK WITH WORK OF OTHER TRADES: ARCHITECTURAL, STRUCTURAL.

D. SEISMIC AND WIND CRITERIA NOTES:

1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST NEW YORK CITY BUILDING CODE (2008).

WIND DESIGN DATA WIND LOADS ARE BASED ON PROJECT SPECIFIC WIND TUNNEL TEST

MAY 24/2013 IN ACCORDANCE WITH PROVISION OF NYCBC 2008.

3. EARTHQUAKE DESIGN DATA AS PERRA CONSULTANT ENGINEERING GEOTECHNICAL REPORT DATED MAY 20, 2013. 3.1 EARTHQUAKE DESIGN DATA FOR WEST TOWER:

> – SEISMIC IMPORTANCE FACTOR = 1 $-S_{S}=0.293g$ $S_{1}=0.057g$ $F_0 = 1.20$ $F_1 = 1.7$

 SITE CLASS - ANALYSIS PROCEDURE USED = RESPONSE SPECTRUM ANALYSIS

- SEISMIC DESIGN CATEGORY = B

- SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALL

- DESIGN BASE SHEAR (V) $E/W = 1100^{k}$ $N/S = 1100^{k}$

- SEISMIC RESPONSE COEFFICIENT E/W = 0.0103N/S = 0.0103- RESPONSE MODIFICATION FACTORS R= 5

3.2 EARTHQUAKE DESIGN DATA FOR EAST TOWER:

– SEISMIC IMPORTANCE FACTOR = 1 $-S_S = 0.29g$ $S_1 = 0.057g$

Fa=1.57 $F_{V}=2.4$

- SITE CLASS = D- ANALYSIS PROCEDURE USED = RESPONSE SPECTRUM ANALYSIS

- SEISMIC DESIGN CATEGORY = B

- SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALL

- DESIGN BASE SHEAR (V) $E/W = 1000^{k}$ $N/S = 1000^{k}$

- SEISMIC RESPONSE COEFFICIENT E/W = 0.0133

- RESPONSE MODIFICATION FACTORS R= 5

4. STRUCTURAL SEPARATIONS, (NYCBC-1617.3.2): THE STRUCTURE SHALL BE SET BACK FROM THE PROPERTY LINE NOT COMMON TO A PUBLIC WAY BY 1"/50 ft. OF HEIGHT. SMALLER SETBACK SHALL BE PERMITTED WHEN JUSTIFIED BY ENGINEERING ANALYSIS BASED ON MAXIMUM EXPECTED GROUND MOTION.

N/S = 0.0133

	L	DADING S	CHEDULE	
OCCUPANCY		PARTITION/FILL &/OR FINISHES (PSF)	CEIL. & MECH. (PSF)	LIVE LOAD
ROOF		30	5	100
STAIRS		_	5	100
RESIDENTIAL CORRIDORS		30	5	40
RESIDENTIAL		12	5	40
MECHANICAL ROOMS		20	5	75
PUBLIC ROOF		50	5	100
PARKING STACKED		15	5	100
LOBBIES RETAIL		25	5	100
LEVEL 1 PLAZA		500	10	100
22.20.5	POOL	100	20	(WATER) 300
BRIDGE STRUCTURE	ROOF	50	20	100
	BALANCE	30	20	100

NON-STRUCTURAL ITEMS SHOWN ON THE STRUCTURAL/FOUNDATION DRAWINGS

1. THE FOLLOWING NON-STRUCTURAL ITEMS MAY BE SHOWN ON THE STRUCTURAL AND/OR FOUNDATION DRAWINGS FOR THE PURPOSE OF CLARITY IN INTERFACE WITH STRUCTURAL AND/OR FOUNDATION WORK. ITEMS BELOW MAY NOT BE FULLY DEFINED ON THE STRUCTURAL/FOUNDATION DRAWINGS. THE INFORMATION FOR NON-STRUCTURAL ELEMENTS IS FURNISHED BY OTHER CONSULTANTS AS LISTED BELOW. ALL RFI AND SHOP DRAWINGS RELATED TO THESE NON-STRUCTURAL ITEMS SHALL BE SUBMITTED TO THE CONSULTANTS LISTED BELOW FOR THEIR REVIEW AND APPROVAL.

GEOTECHNICAL ENGINEER:

- FOUNDATION/UNDERSLAB WATERPROOFING, DAMPPROOFING SYSTEMS - WALL AND UNDERSLAB DRAINAGE SYSTEM, INCLUDING SUMP PITS. GRAVEL & PIPING, CLEANOUTS ROCK ANCHORS

- CAISSONS AND PILES, INCLUDING REINFORCEMENT, SECANT PILE WALL

- WATERPROOFING/DAMPPROOFING APPLIED TO EXPOSED SURFACES, ELEVATOR OR SUMP PIT INTERIOR SURFACES

 FIREPROOFING - CONCRETE CURBS: HEIGHT, WIDTH, EXTENT, LOCATION - BRICK, BLOCK, TILE MASONRY, METAL PANELS, PRECAST FACADE PANELS, CURTAIN WALLS AND ALL OTHER FACADE SYSTEMS - ROOFING SYSTEMS, DRAIN LOCATIONS, SLOPES TO DRAINS FILLS, INSULATION, PAVERS OR GRAVEL

LEGEND:

INDICATES THE BOTTOM OF FOUNDATION WALL ELEVATION INDICATES THE TOP OF FOUNDATION WALL ELEVATION INDICATES THE TOP OF PILECAP ELEVATION INDICATES SIZE OF PIER IN INCHES, FIRST DIMENSION SHOWN IS IN THE EAST-WEST DIRECTION. e. ——— INDICATES ADDITIONAL TOP REINFORCEMENT AT SUPPORTS INDICATES ADD'L BOTTOM REINFORCING AT SUPPORTS INDICATES MAIN DIRECTION OF ONE-WAYS SLABS: 1) BOTTOM CONTINUOUS REINF. IN ELEVATED SLABS

2) TOP CONTINUOUS REINF. AT FOUNDATION SLABS h. —— INDICATES ADDITIONAL BOTTOM REINFORCEMENT CONTINUOUS BETWEEN SUPPORTS

1st & 4[™] LAYER INDICATES ORDER OF BAR PLACEMENT IN SLAB

INDICATES CHANGE IN ELEVATION INDICATES CONCRETE COLUMN/SHEARWALL/FOUNDATION WALL

INDICATES SLAB OPENING (FIRST DIMENSION IS IN EAST-WEST DIRECTION)

INDICATES CONCRETE COLUMN/FOUNDATION WALL/SHEARWALL BELOW

INDICATES COLUMN/POST ABOVE OR BELOW

INDICATES COLUMN DESIGNATION

INDICATES POST DESIGNATION

INDICATES HANGER DESIGNATION

INDICATES SHEARWALL DESIGNATION

INDICATES STIRRUPS INDICATES LENTON TERMINATORS

SPECIAL INSPECTIO	N2
(TERMINOLOGY PER CURRENT TR-1) SPECIAL INSPECTION	CURRENT CODE REFERENCES
STRUCTURAL STEEL — WELDING	1704.3.1
STRUCTURAL STEEL - ERECTION & BOLTING	1704.3.3
STRUCTURAL COLD - FORMED STEEL	1704.3.4
CONCRETE - CAST IN PLACE	1704.4
CONCRETE TEST CYLINDERS* (TR2)	1905.6
CONCRETE DESIGN MIX* (TR3)	1905.3
MASONRY	1704.5
SOILS - SITE PREPARATION	1704.7.1
SOILS - FILL PLACEMENT & IN-PLACE DENSITY	1704.7.2 1704.7.3
SOILS - INVESTIGATIONS (BORINGS/TEST PITS) (TR4)	1704.7.4
PILE FOUNDATIONS & DRILLED PIER INSTALLATION (TR5)	1704.8
PIER FOUNDATIONS	1704.9
WALL PANELS, CURTAIN WALLS AND VENEERS (ATTACHMENT TO BUILDING)	1704.10
SPRAYED FIRE RESISTANT MATERIALS	1704.11
STRUCTURAL SAFETY — STRUCTURAL STABILITY	1704.19
EXCAVATION — SHEETING, SHORING AND BRACING	1704.19 & 3304.4.1
FIRESTOP, DRAFTSTOP AND FIREBLOCK SYSTEMS	1704.25
PROGRESS INSPECTION	
FOOTING AND FOUNDATION	109.3.1
FINAL	28-116.2.4.2 & 109.5 AND DIRECTIVE 14-(1975)

* THESE TEST MUST BE PERFORMED BY A LICENSED CONCRETE TESTING LAB.

1. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS. 2. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE BY THE APPROVED SPECIAL INSPECTION

AGENCY RETAINED BY THE OWNER AND ACCEPTABLE TO THE ENGINEER OF RECORD. 3. REPORTS OF RESULTS SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT FOR REVIEW. SIGNED COPIES OF ALL TESTS AND INSPECTION REPORTS SHALL BE FILED WITH THE BUILDING DEPARTMENT (THROUGH THE APPLICANT).

4. REPORTS SHALL STATE WHETHER RESULTS COMPLY WITH CONTRACT REQUIREMENTS. SUMMARIZE THE TYPE OF TEST, THE LOCATION OR COMPONENT TESTED, AND RECOMMEND ANY REMEDIAL MEASURES REQUIRED. REPORT SHOULD NOTE ANY OTHER DEVIATIONS FROM THE CONTRACT DOCUMENTS.

5. FOR ITEMS OF WORK OF OTHER TRADES WHICH ARE SUBJECT TO SPECIAL INSPECTION,

SEE THE CITY OF NEW YORK BUILDING CODE, AS WELL AS ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS AND SPECIFICATIONS. 6. IN ADDITION TO THE ABOVE REQUIREMENTS, ALL COLUMN SPLICE, BEAM MOMENT CONNECTIONS AT BEAMS DESIGNATED AS "LLRS" AND BRACE FRAME OR WIND TRUSS CONNECTIONS (PER S-940 SERIES OF DWGS.) SHALL COMPLY WITH THE INSPECTION REQUIREMENTS OF AWS D1.8 "STRUCTURAL WELDING CODE-SEISMIC SUPPLEMENT",

IF WELDING IS PRESENT IN CONNECTION.



DEVELOPER

NEW YORK, NY 10011

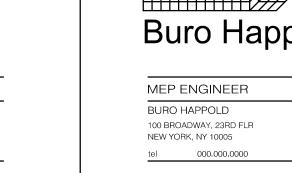
JDS DEVELOPMENT GROUP

212.889.9005

104 FIFTH AVENUE, 9TH FLR











tel 000.000.0000



LANDSCAPE ARCHITECT

277 BROADWAY, SUITE 1606

212.889.9005

NEW YORK, NY 10007

SCAPE/LANDSCAPE ARCHITECTURE PLLC



CIVIL ENGINEER

NEW YORK, NY 10016

440 PARK AVE SOUTH, 7TH FLR

000.000.0000



GEOTECHNICAL ENGINEERS

212.889.9005

RA CONSULTANTS LLC

47 WILKENS DRIVE

DUMONT, NJ 07628



CODE CONSULTANT

212.889.9005

METROPOLIS GROUP INC.

22 CORTLANDT ST. 10TH FLR

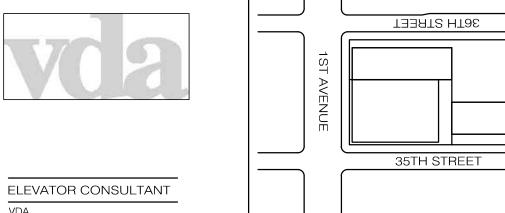
NEW YORK, NY 10007

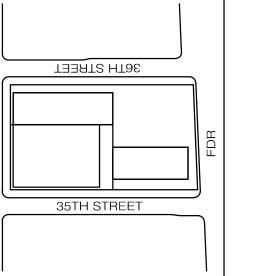


212.889.9005

5 REGENT ST. STE 524

LIVINGSTON, NJ 07039





(H) SITE DIAGRAM

1	08.22.14	BULLETIN #2
	05.05.14	DOB FILING SET
	04.04.14	ISSUED FOR 100% CONSTRUCTION DOCUME
BATS HT8E	02.20.14	ISSUED FOR FOUNDATION CONSTRUCTION
	11.15.13	50% CD
	11.07.13	SUPERSTRUCTURE BID ISS
	10.23.13	100% FOUNDATION CD
	08.16.13	100% DD SUBMISSION
TH STREET	06.07.13	90% FOUNDATION CD
	05.07.13	80% CD FOR PURCHASING
	05.03.13	100% SD SUBMISSION
	DATE	ISSUE

FLOATING/SECONDARY SLABS

1	08.22.14	BULLETIN #2
	05.05.14	DOB FILING SET
	04.04.14	ISSUED FOR 100% CONSTRUCTION DOCUMENTS
	02.20.14	ISSUED FOR FOUNDATION CONSTRUCTION
	11.15.13	50% CD
	11.07.13	SUPERSTRUCTURE BID ISSUE
→ HOLL	10.23.13	100% FOUNDATION CD
_	08.16.13	100% DD SUBMISSION
-	06.07.13	90% FOUNDATION CD
	05.07.13	80% CD FOR PURCHASING

626 1ST AVENUE

07.09.14 BULLETIN #1

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE

USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OF COMPLETION OF THIS PROJECT BY OTHERS.

NO DATE REVISION

_____ 626 1ST AVENUE NEW YORK, NY 10016

GENERAL NOTES AND LEGEND SEAL & SIGNATURE 08/16/13 PROJECT NO. 1302180

DRAWING TITLE

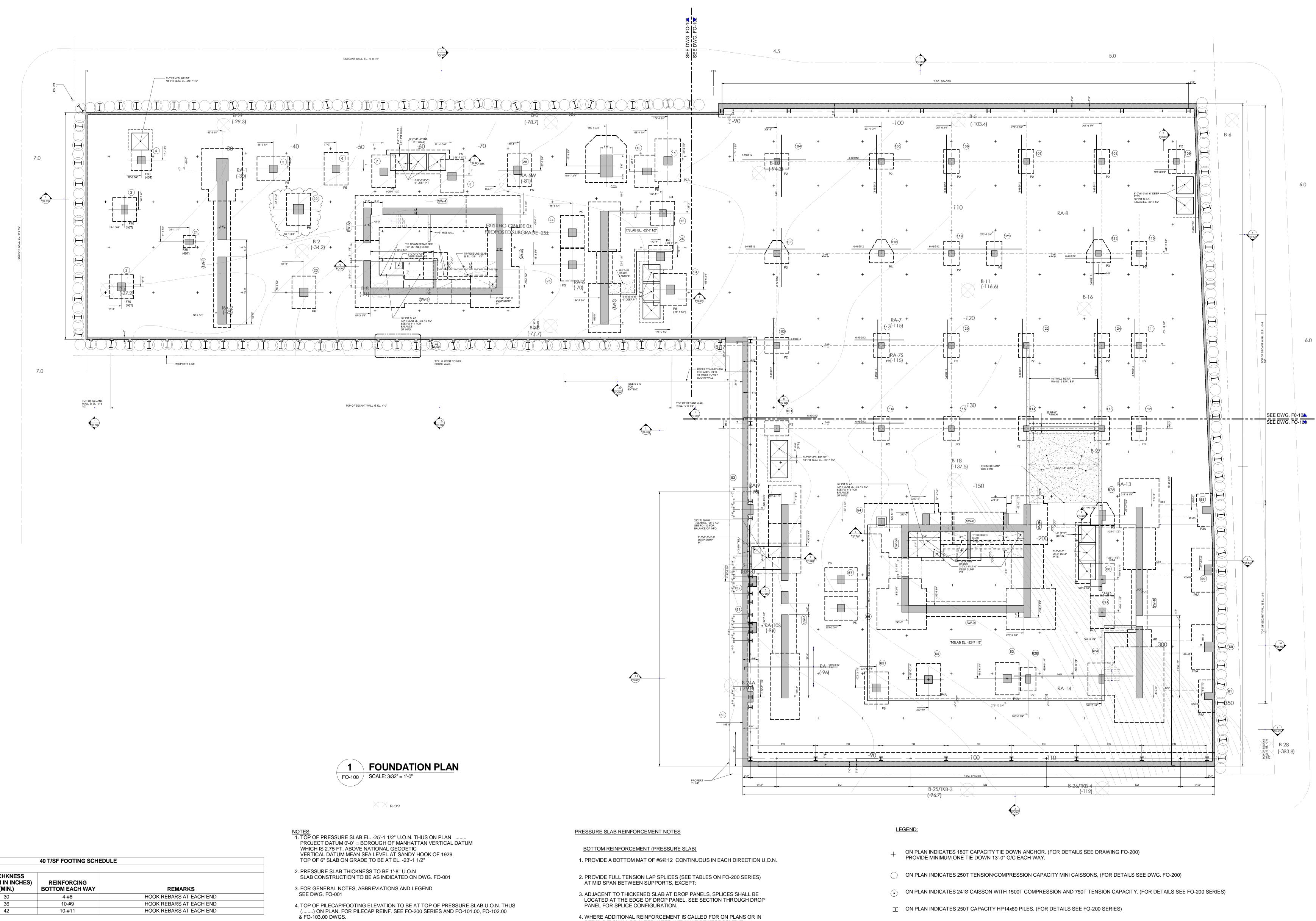
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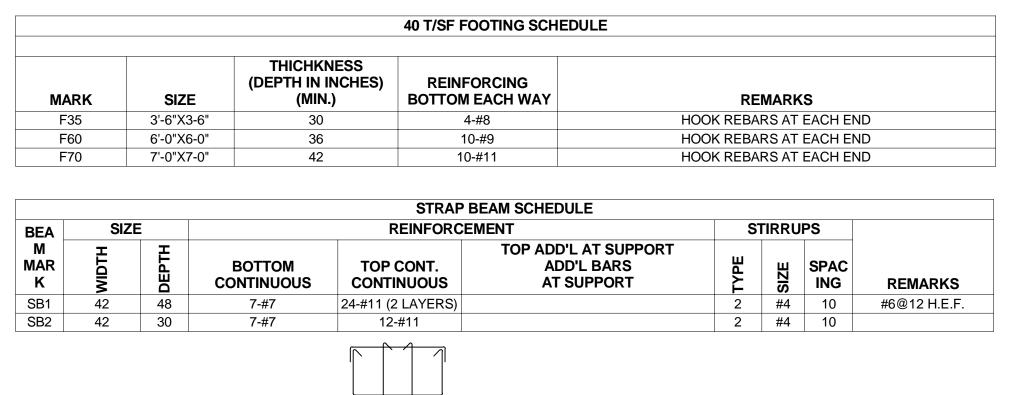
DRAWN BY

DOB NO.

CHECKED BY

CADD





TYPE 2

STIRRUP TYPES

- 5. CENTERLINE OF PILECAP SHALL COINCIDE WITH THE CENTERLINE OF SINGLE COLUMN / WALL ABOVE U.O.N.
- 6. PROVIDE DOWELS IN PILECAP TO MATCH VERTICAL WALL/PIER/COLUMN REINFORCEMENT. SEE SHEARWALL REINFORCING.
- 7. ALL SUBGRADE PREPARATION SHALL BE PER GEOTECHNICAL REPORT. 8. PROVIDE 6" SLAB (f'c=4000 psi) ON 1'-6" COMPACTED GRAVEL OVER PRESSURE SLAB S.P.G. TO BE
- REINFORCED WITH 6x6-W2.9xW2.9 EPOXY COATED W.W.F. ON TOP OF PRESSURE SLAB. 9. FOR PIT LOCATIONS & SIZE SEE ARCH. AND MEP DRAWINGS.
- 10. FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES

SEE FO-200 SERIES DWGS.

- 11. FOR FOUNDATION SECTIONS SEE FO-300 SERIES DWGS.
- 12. FOR COLUMN SIZE AND DETAILS, SEE S-950 SERIES DWGS.
- 13. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS IN CONCRETE SLABS & WALLS.

16. TOP OF DESIGN GROUND WATER AT EL. 6'-0" (SEE GEOTECH. REPORT).

- 15. DEWATERING OF THE SITE CAN STOP ONCE PRESSURE SLAB AND 6" SLAB ON GRAVEL IS IN PLACE AND TIEDOWNS ARE INSTALLED AND LOCKED OFF.
- 14. PIT SLAB REINFORCEMENT TO MATCH PRESSURE SLAB REINFORCEMENT U.O.N.

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- 5. ALL BOTTOM REINFORCEMENT IS TO BE HOOKED 90° AT OUTSIDE PERIMETER OF SLAB, AT OPENINGS AND AT ANY OTHER DISCONTINUITY. TOP REINFORCEMENT (PRESSURE SLAB)
- 1. PROVIDE A TOP MAT OF #6@12 CONTINUOUS IN EACH DIRECTION U.O.N. ALL REBARS AT PARKING AREAS TO BE EPOXY-COATED.
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DEVELOPER

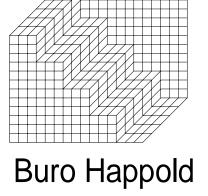
JDS DEVELOPMENT GROUP

104 FIFTH AVENUE, 9TH FLR

NEW YORK, NY 10011

tel 212.889.9005





tel 000.000.0000



SCAPE / LANDSCAPE ARCHITECTURE PLLC

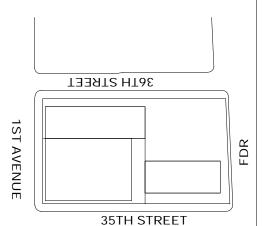




GEOTECHNICAL ENGINEERS



ELEVATOR CONSULTANT 5 REGENT ST, STE 524 LIVINGSTON, NJ 07039



10.20.14 BULLETIN #3 08/22/14 BULLETIN #2 05.05.14 DOB FILING SET 11.15.13 50% CD

04.04.14 100% CONSTRUCTION DOCUMENTS 11.07.13 SUPERSTRUCTURE BID ISSUE

626 1ST AVENUE NEW YORK, NY 10016

FOUNDATION PLAN (CELLAR LEVEL 2)

DRAWING TITLE

PROJECT NO. 1302180 DRAWN BY CHECKED BY DOB NO. DRAWING NUMBER

tel 212.889.9005

MEP ENGINEER BURO HAPPOLD 100 BROADWAY, 23RD FLR NEW YORK, NY 10005

STRUCTURAL ENGINEER WSP CANTOR SEINUK 228 EAST 45TH ST, 3RD FLR NEW YORK, NY 10017 tel 000.000.0000

LANDSCAPE ARCHITECT SCAPE/LANDSCAPE ARCHITECTURE PLLC 277 BROADWAY, SUITE 1606 NEW YORK, NY 10007 tel 212.889.9005

CIVIL ENGINEER 440 PARK AVE SOUTH, 7TH FLR NEW YORK, NY 10016 tel 000.000.0000

RA CONSULTANTS LLC 47 WILKENS DRIVE DUMONT, NJ 07628 tel 212.889.9005

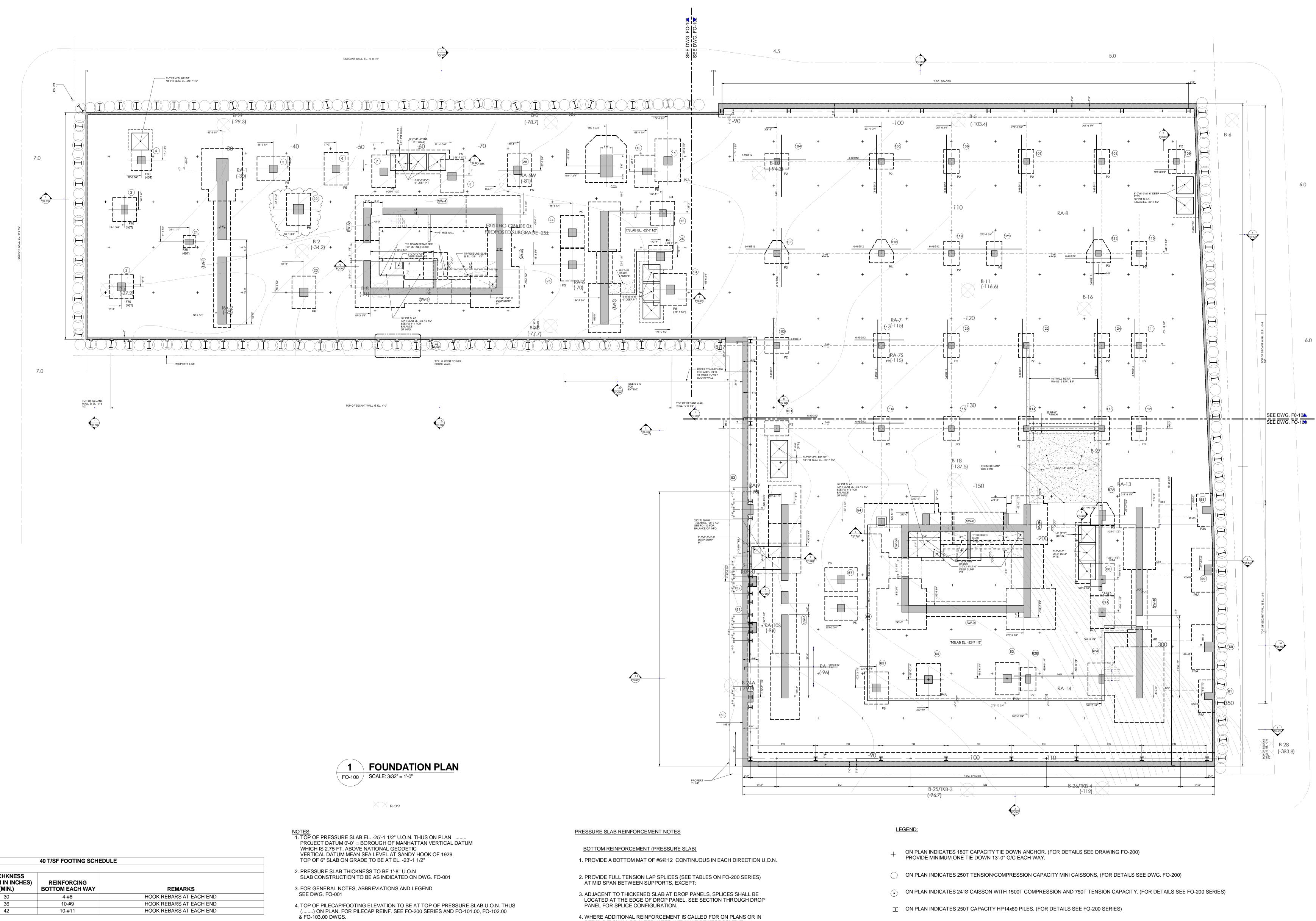
CODE CONSULTANT METROPOLIS GROUP INC. 22 CORTLANDT ST, 10TH FLR NEW YORK, NY 10007 tel 212.889.9005

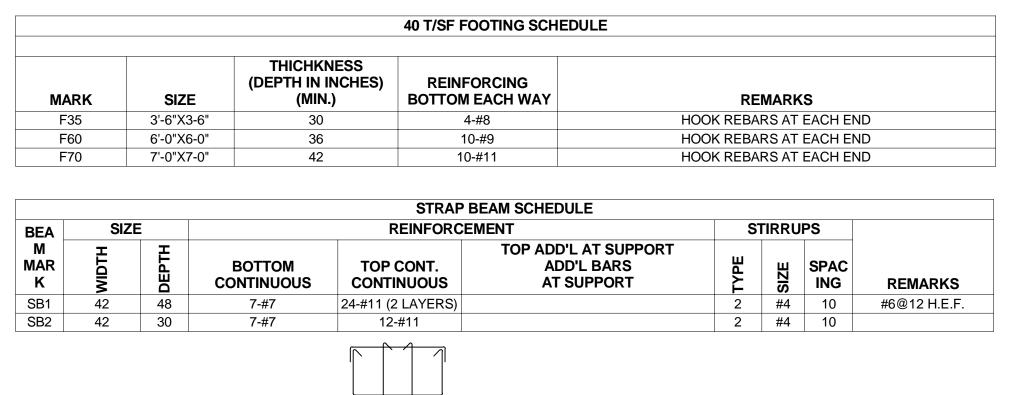
tel 212.889.9005

10.23.13 100% FOUNDATION CD 06.07.13 90% FOUNDATION CD 05.07.13 80% CD FOR PURCHASING 1. 07.09.14 BULLETIN #1 05.03.13 100% SD SUBMISSION DATE ISSUE NO. DATE REVISION

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SEAL & SIGNATURE





TYPE 2

STIRRUP TYPES

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DEVELOPER

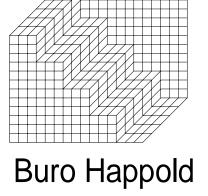
JDS DEVELOPMENT GROUP

104 FIFTH AVENUE, 9TH FLR

NEW YORK, NY 10011

tel 212.889.9005





tel 000.000.0000



SCAPE / LANDSCAPE ARCHITECTURE PLLC

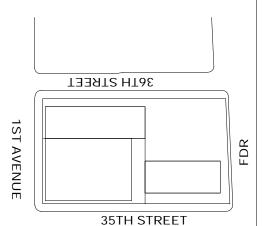




GEOTECHNICAL ENGINEERS



ELEVATOR CONSULTANT 5 REGENT ST, STE 524 LIVINGSTON, NJ 07039



10.20.14 BULLETIN #3 08/22/14 BULLETIN #2 05.05.14 DOB FILING SET 11.15.13 50% CD

04.04.14 100% CONSTRUCTION DOCUMENTS 11.07.13 SUPERSTRUCTURE BID ISSUE

626 1ST AVENUE NEW YORK, NY 10016

FOUNDATION PLAN (CELLAR LEVEL 2)

DRAWING TITLE

PROJECT NO. 1302180 DRAWN BY CHECKED BY DOB NO. DRAWING NUMBER

tel 212.889.9005

MEP ENGINEER BURO HAPPOLD 100 BROADWAY, 23RD FLR NEW YORK, NY 10005

STRUCTURAL ENGINEER WSP CANTOR SEINUK 228 EAST 45TH ST, 3RD FLR NEW YORK, NY 10017 tel 000.000.0000

LANDSCAPE ARCHITECT SCAPE/LANDSCAPE ARCHITECTURE PLLC 277 BROADWAY, SUITE 1606 NEW YORK, NY 10007 tel 212.889.9005

CIVIL ENGINEER 440 PARK AVE SOUTH, 7TH FLR NEW YORK, NY 10016 tel 000.000.0000

RA CONSULTANTS LLC 47 WILKENS DRIVE DUMONT, NJ 07628 tel 212.889.9005

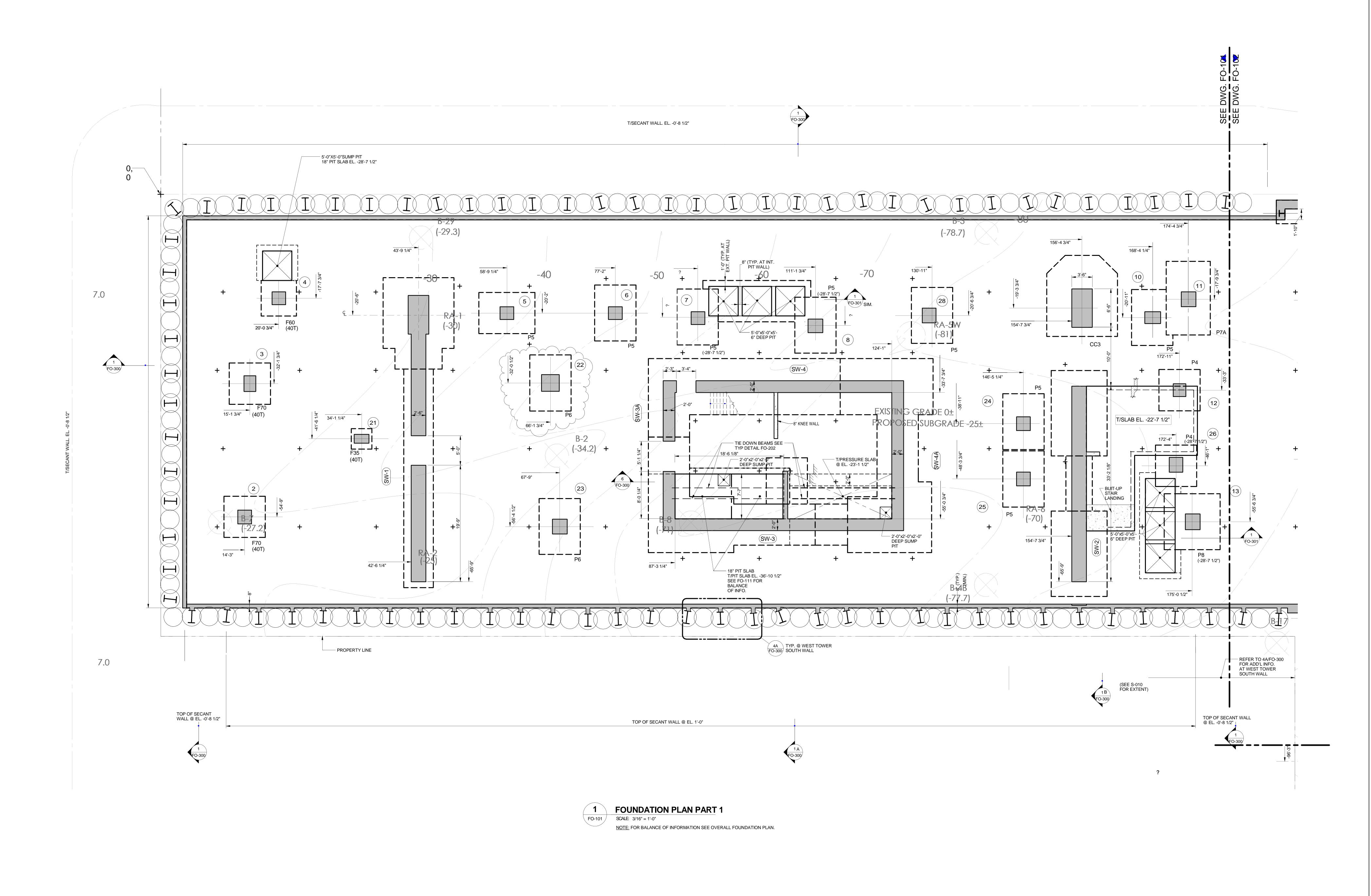
CODE CONSULTANT METROPOLIS GROUP INC. 22 CORTLANDT ST, 10TH FLR NEW YORK, NY 10007 tel 212.889.9005

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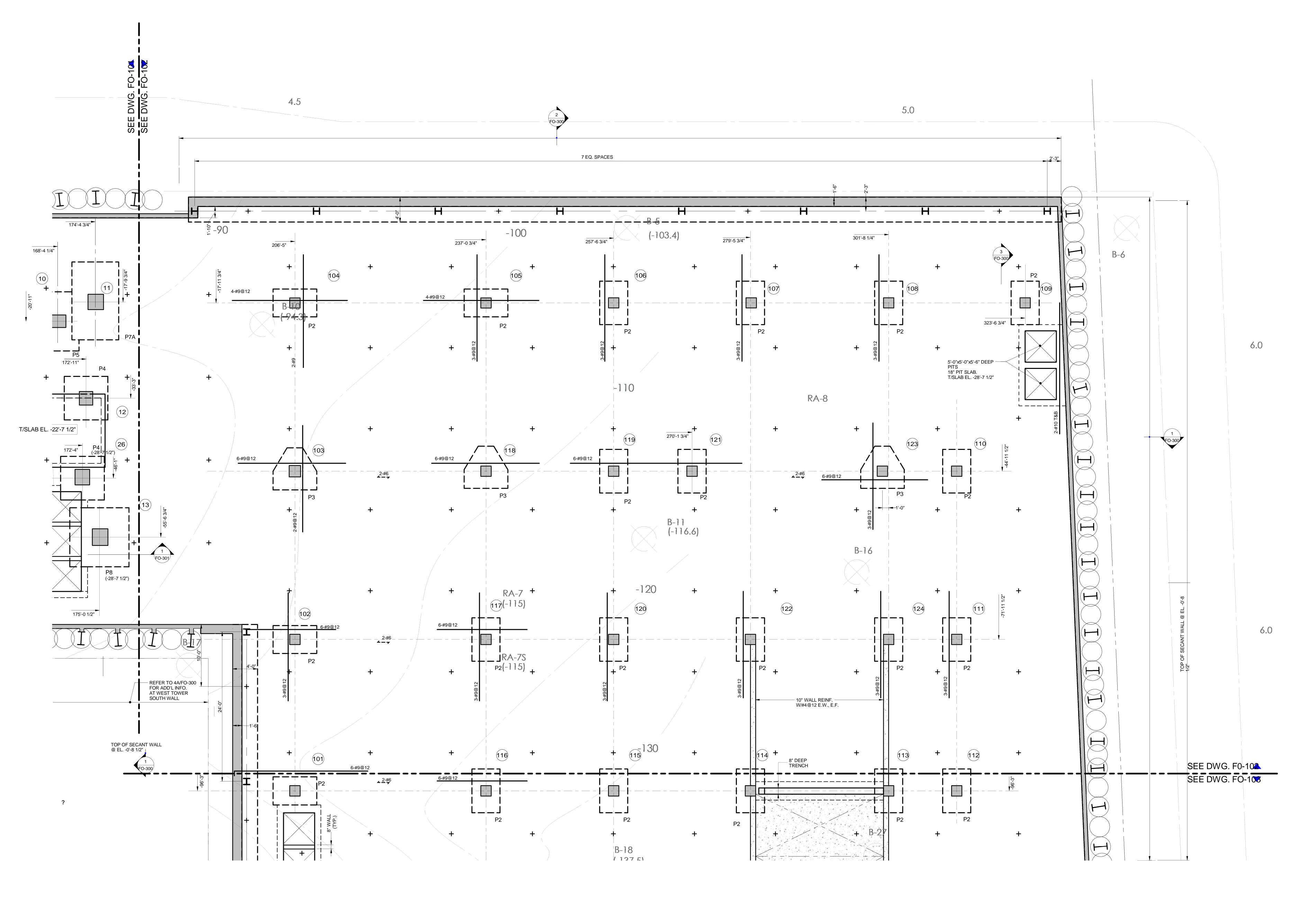
10.23.13 100% FOUNDATION CD 06.07.13 90% FOUNDATION CD 05.07.13 80% CD FOR PURCHASING 1. 07.09.14 BULLETIN #1 05.03.13 100% SD SUBMISSION DATE ISSUE NO. DATE REVISION

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SEAL & SIGNATURE



DRAWING TITLE FOUNDATION PLAN PART 1 626 1ST AVENUE Buro Happold SCAPE / LANDSCAPE ARCHITECTURE PLLC M f T R O P O L I S 36TH STREET NEW YORK, NY 10016 SEAL & SIGNATURE DATE PROJECT NO. 10.20.14 BULLETIN #3 DRAWN BY CHECKED BY 05.05.14 DOB FILING SET 35TH STREET 04.04.14 100% CONSTRUCTION DOCUMENTS DOB NO. 02.20.14 ISSUED FOR FOUNDATION CONSTRUCTION DEVELOPER ARCHITECT MEP ENGINEER STRUCTURAL ENGINEER LANDSCAPE ARCHITECT CIVIL ENGINEER GEOTECHNICAL ENGINEERS CODE CONSULTANT ELEVATOR CONSULTANT DRAWING NUMBER SHoP ARCHITECTS, P.C. 1. 07.09.14 BULLETIN #1 JDS DEVELOPMENT GROUP BURO HAPPOLD METROPOLIS GROUP INC. WSP CANTOR SEINUK SCAPE/LANDSCAPE ARCHITECTURE PLLC RA CONSULTANTS LLC 104 FIFTH AVENUE, 9TH FLR 11 PARK PLACE, PENTHOUSE 228 EAST 45TH ST, 3RD FLR 440 PARK AVE SOUTH, 7TH FLR 22 CORTLANDT ST, 10TH FLR 5 REGENT ST, STE 524 DATE ISSUE NO. DATE REVISION 100 BROADWAY, 23RD FLR 277 BROADWAY, SUITE 1606 47 WILKENS DRIVE NEW YORK, NY 10011 NEW YORK, NY 10017 NEW YORK, NY 10007 NEW YORK, NY 10007 DUMONT, NJ 07628 NEW YORK, NY 10007 NEW YORK, NY 10005 NEW YORK, NY 10016 LIVINGSTON, NJ 07039 THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS. tel 212.889.9005 tel 212.889.9005 tel 212.889.9005 tel 212.889.9005 tel 000.000.0000 tel 000.000.0000 tel 000.000.0000 tel 212.889.9005

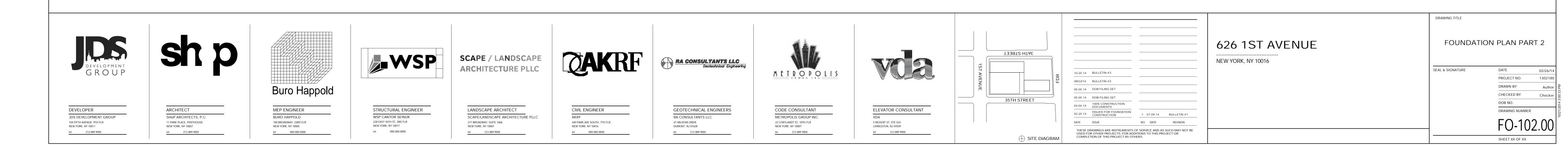


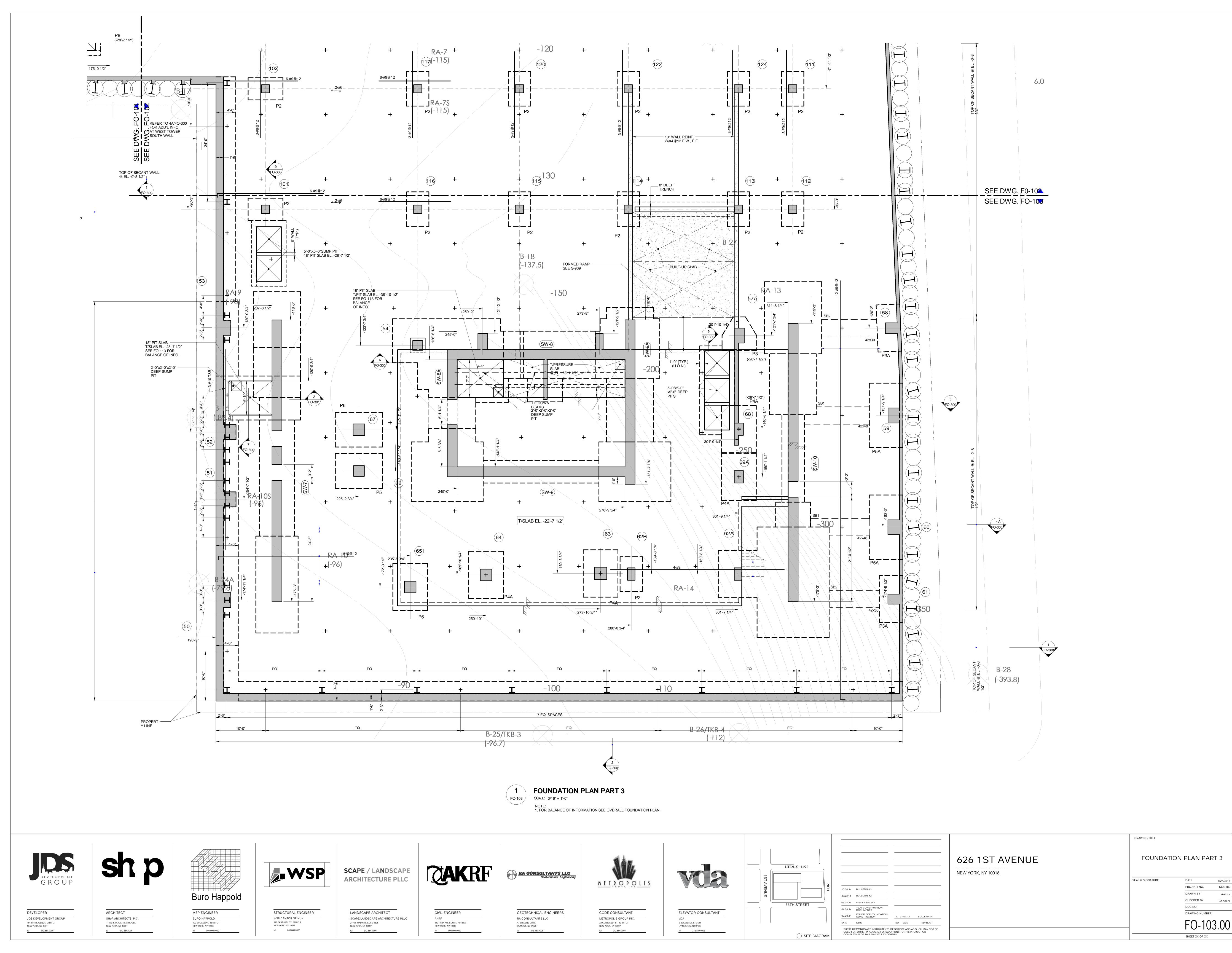
1 FOUNDATION PLAN PART 2

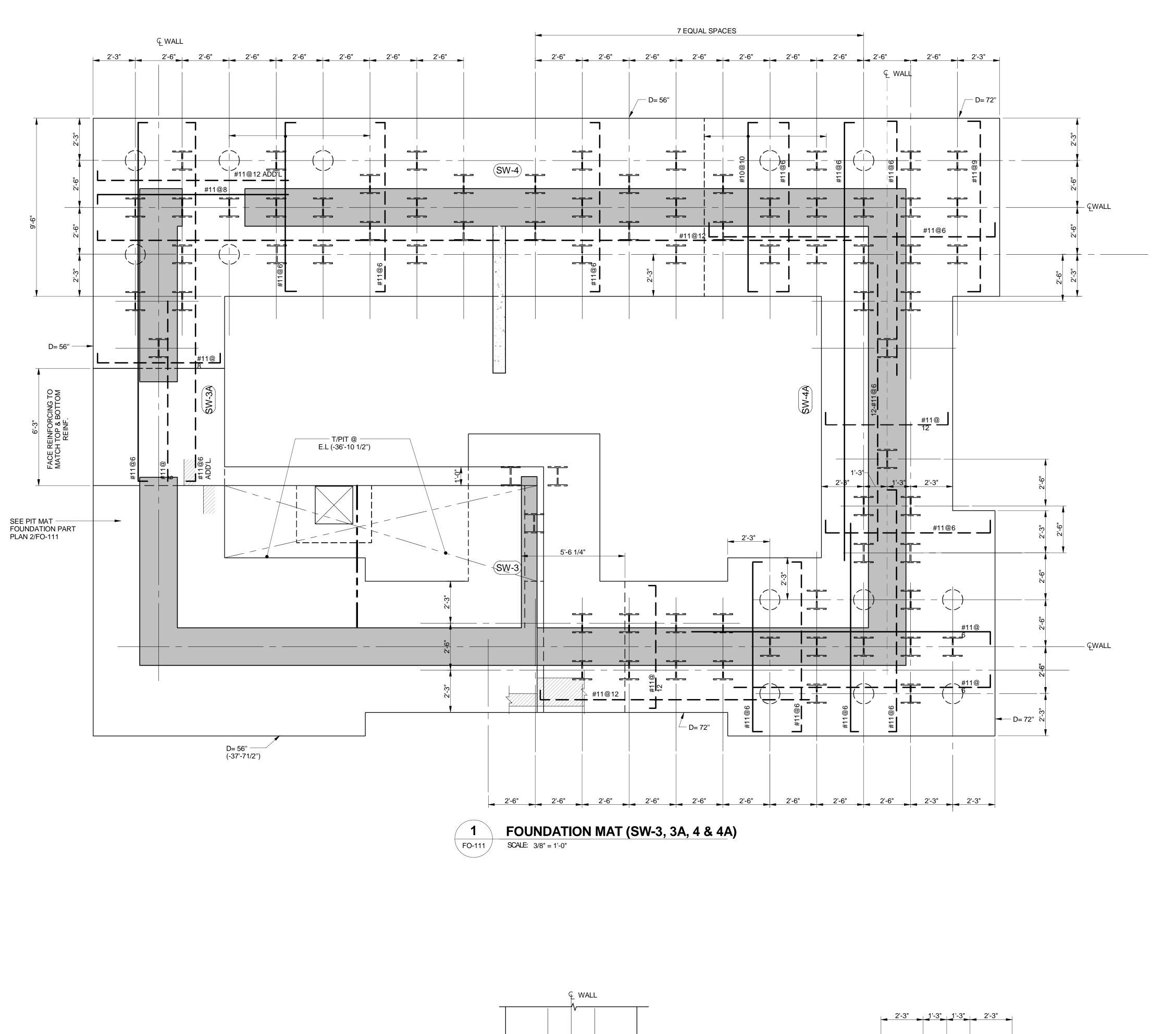
SCALE: 3/16" = 1'-0"

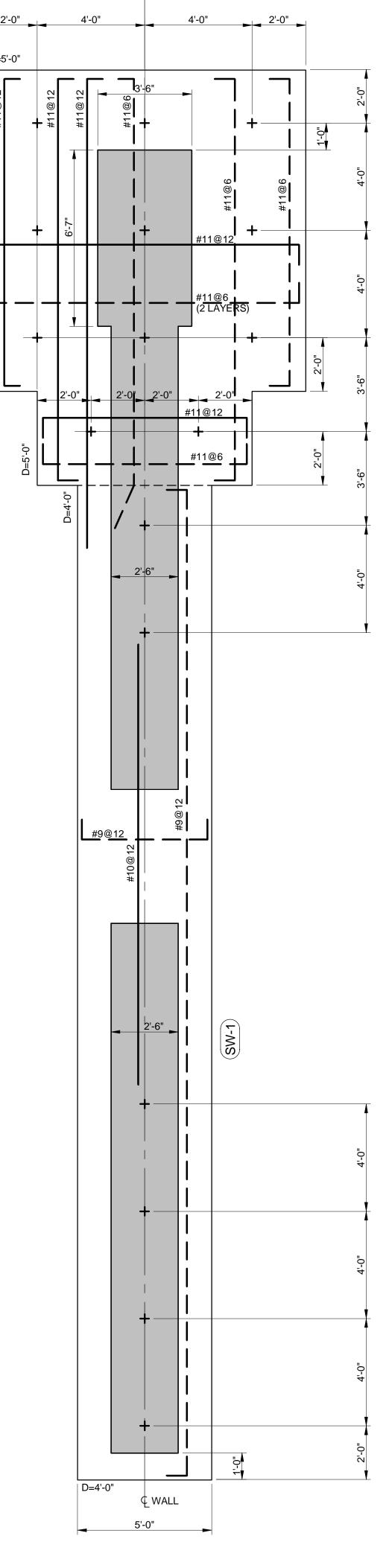
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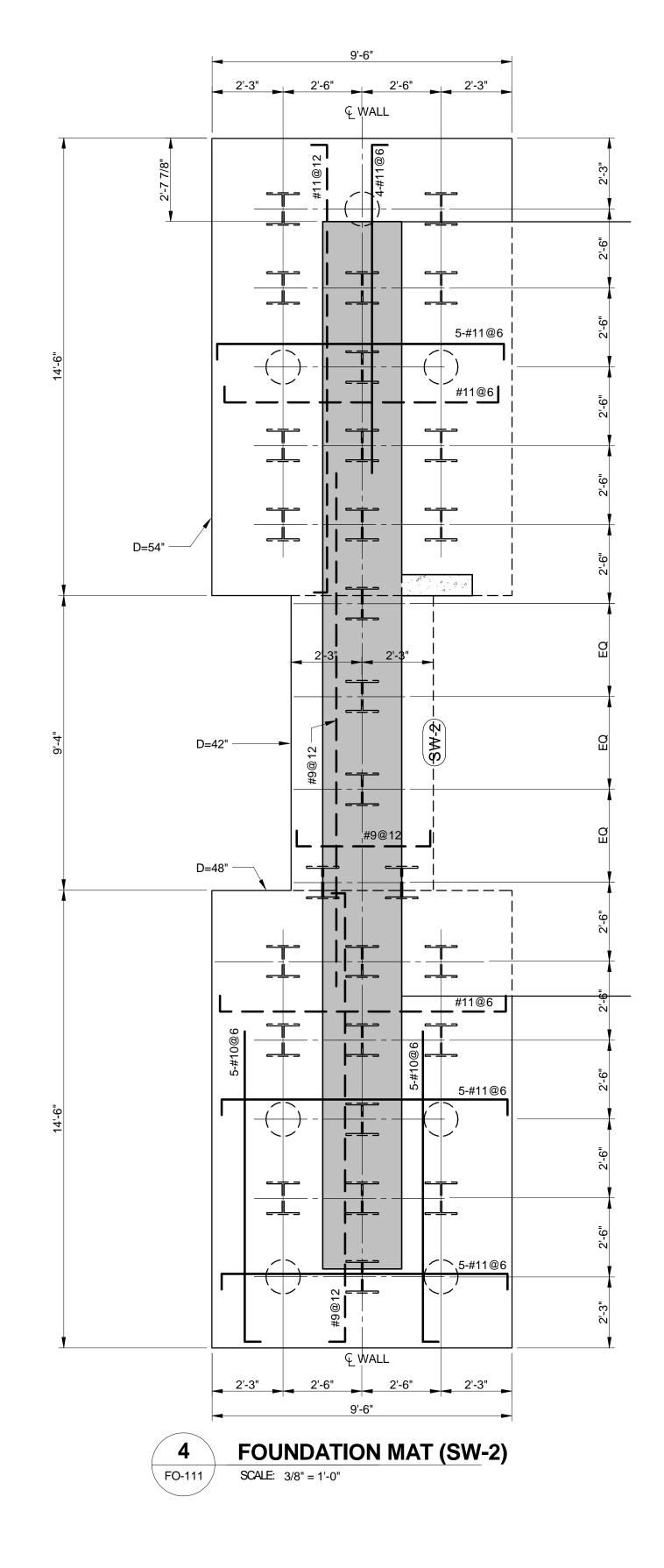
1. FOR BALANCE OF INFORMATION SEE OVERALL FOUNDATION PLAN.





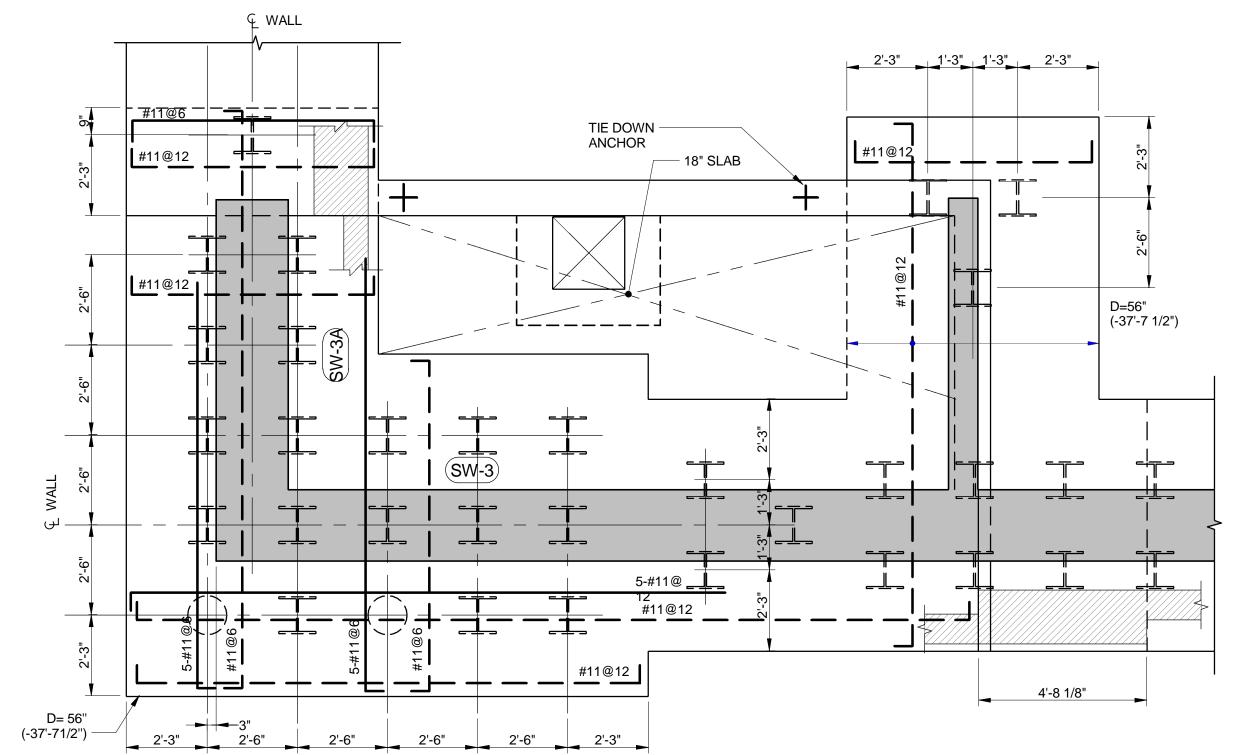






FOUNDATION MAT (SW-1) ON MIN. 40 TON/SF ROCK

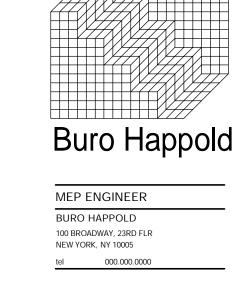
LEGEND: ON PLAN INDICATES 180T CAPACITY TIE DOWN ANCHOR. (FOR DETAILS SEE DRAWING FO-200) PROVIDE MINIMUM ONE TIE DOWN 13'-0" O/C EACH WAY. ON PLAN INDICATES 250T TENSION/COMPRESSION CAPACITY MINI CAISSONS, (FOR DETAILS SEE DWG. FO-200) ON PLAN INDICATES 24"Ø CAISSON WITH 1500T COMPRESSION AND 750T TENSION CAPACITY. (FOR DETAILS SEE FO-200 SERIES)



PART PLAN OF PIT FOUNDATION MAT (SW-3, 3A) FO-111 SCALE: 3/8" = 1'-0"









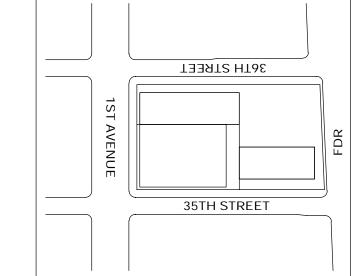












ON PLAN INDICATES 250T CAPACITY HP14x89 PILES. (FOR DETAILS SEE FO-200 SERIES)

10.20.14	BULLETIN #3				
08/22/14	BULLETIN #2				
05.05.14	DOB FILING SET				
04.04.14	100% CONSTRUCTION DOCUMENTS				
02.20.14	ISSUED FOR FOUNDATION CONSTRUCTION				
11.15.13	50% CD				
11.07.13	SUPERSTRUCTURE BID ISSU	JE			
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06.07.13	90% FOUNDATION CD				
05.07.13	80% CD FOR PURCHASING				
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DRAWING TITLE MAT FOUNDATION DETAILS 626 1ST AVENUE NEW YORK, NY 10016 SEAL & SIGNATURE DATE PROJECT NO. DRAWN BY CHECKED BY DOB NO.

DEVELOPER JDS DEVELOPMENT GROUP 104 FIFTH AVENUE, 9TH FLR NEW YORK, NY 10011 tel 212.889.9005

ARCHITECT SHoP ARCHITECTS, P.C. 11 PARK PLACE, PENTHOUSE NEW YORK, NY 10007 tel 212.889.9005





LANDSCAPE ARCHITECT SCAPE/LANDSCAPE ARCHITECTURE PLLC 277 BROADWAY, SUITE 1606 NEW YORK, NY 10007

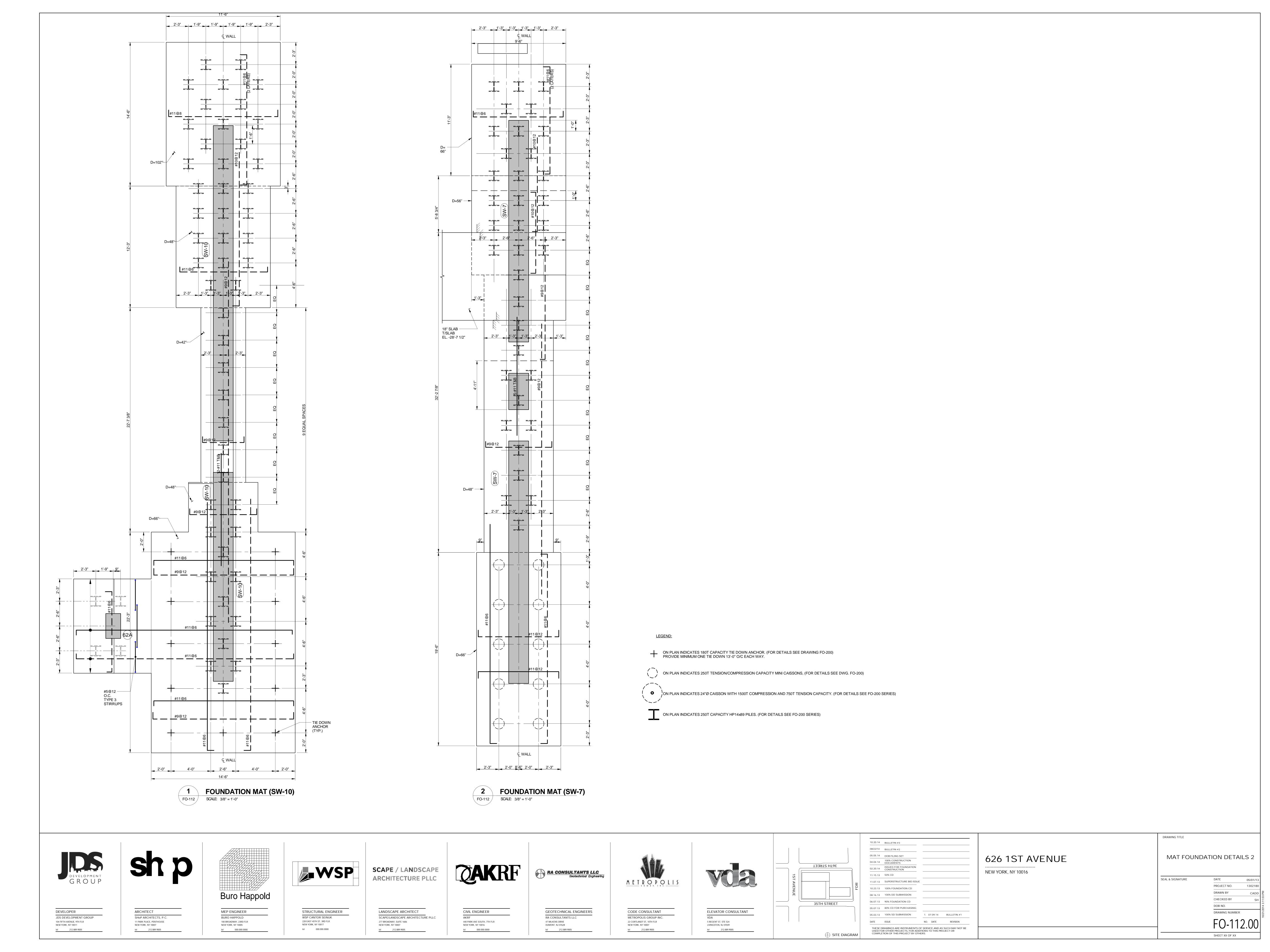


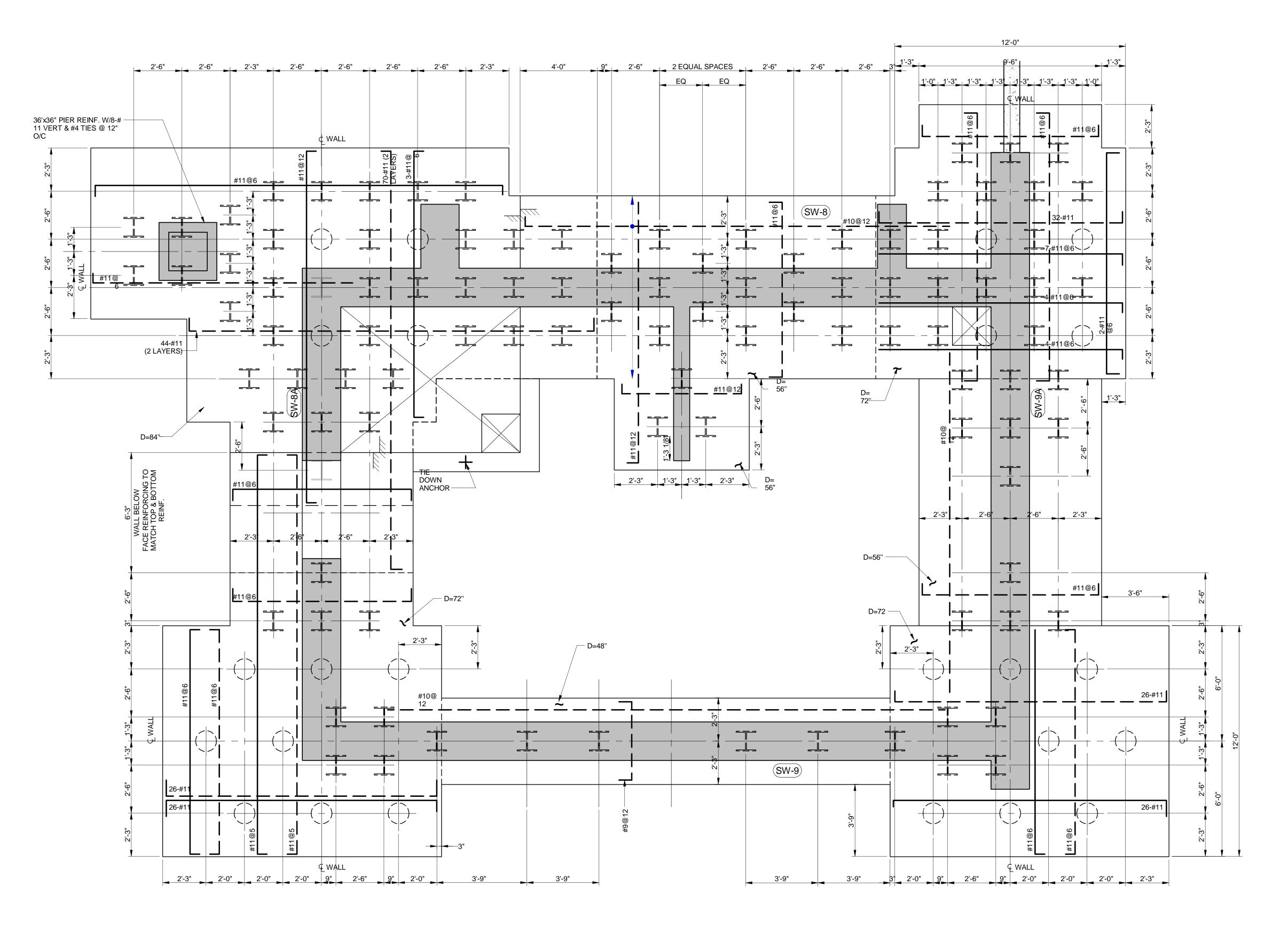


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CODE CONSULTANT METROPOLIS GROUP INC. tel 212.889.9005

ELEVATOR CONSULTANT 5 REGENT ST, STE 524 LIVINGSTON, NJ 07039 tel 212.889.9005 NO. DATE REVISION THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

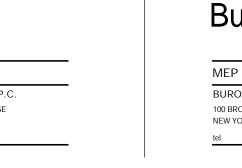


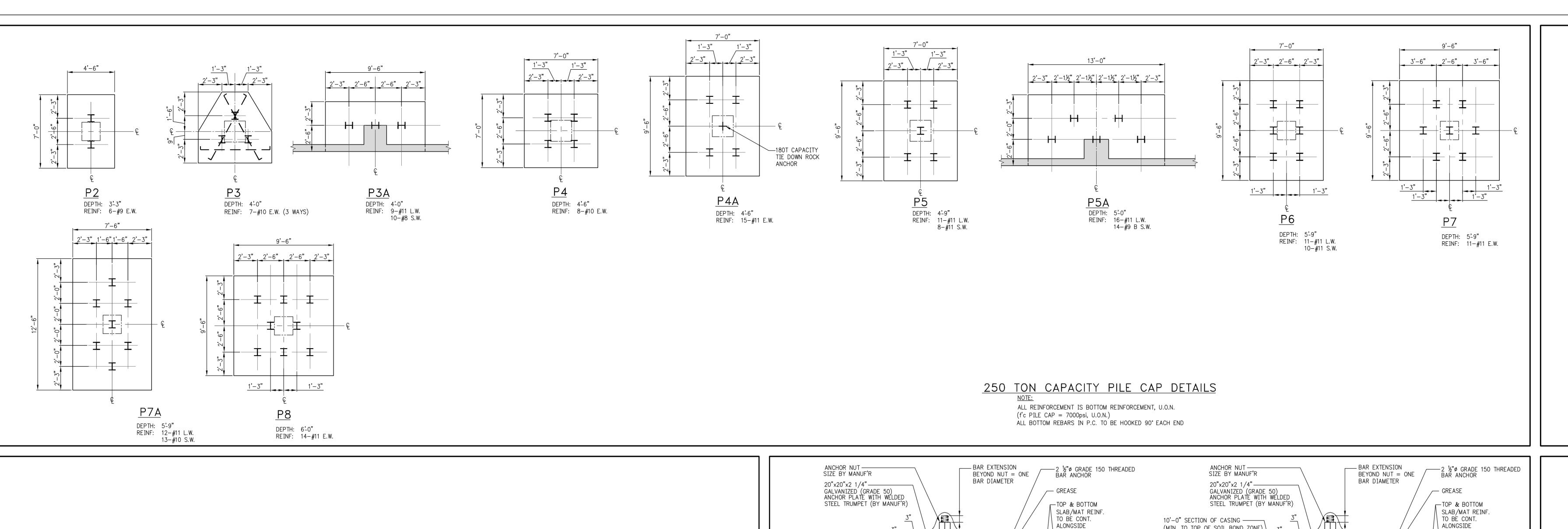


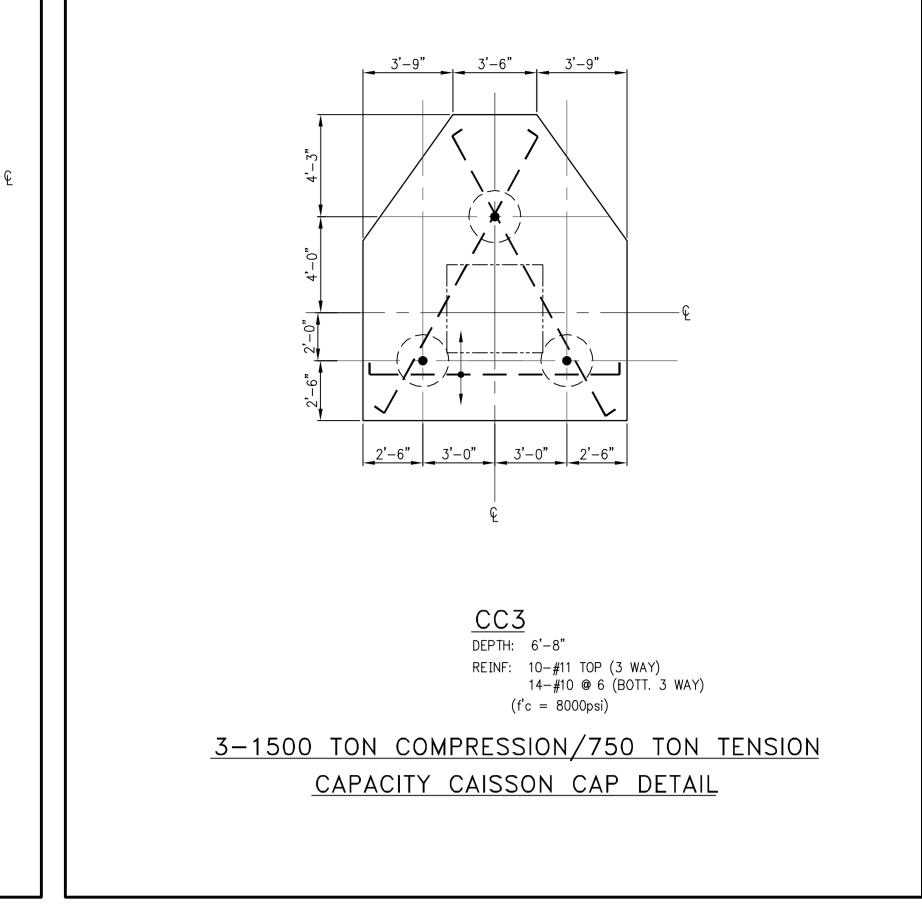


LEGEND: ON PLAN INDICATES 180T CAPACITY TIE DOWN ANCHOR. (FOR DETAILS SEE DRAWING FO-200) PROVIDE MINIMUM ONE TIE DOWN 13'-0" O/C EACH WAY. ON PLAN INDICATES 250T TENSION/COMPRESSION CAPACITY MINI CAISSONS, (FOR DETAILS SEE DWG. FO-200) ON PLAN INDICATES 24"Ø CAISSON WITH 1500T COMPRESSION AND 750T TENSION CAPACITY. (FOR DETAILS SEE FO-200 SERIES) ON PLAN INDICATES 250T CAPACITY HP14x89 PILES. (FOR DETAILS SEE FO-200 SERIES)









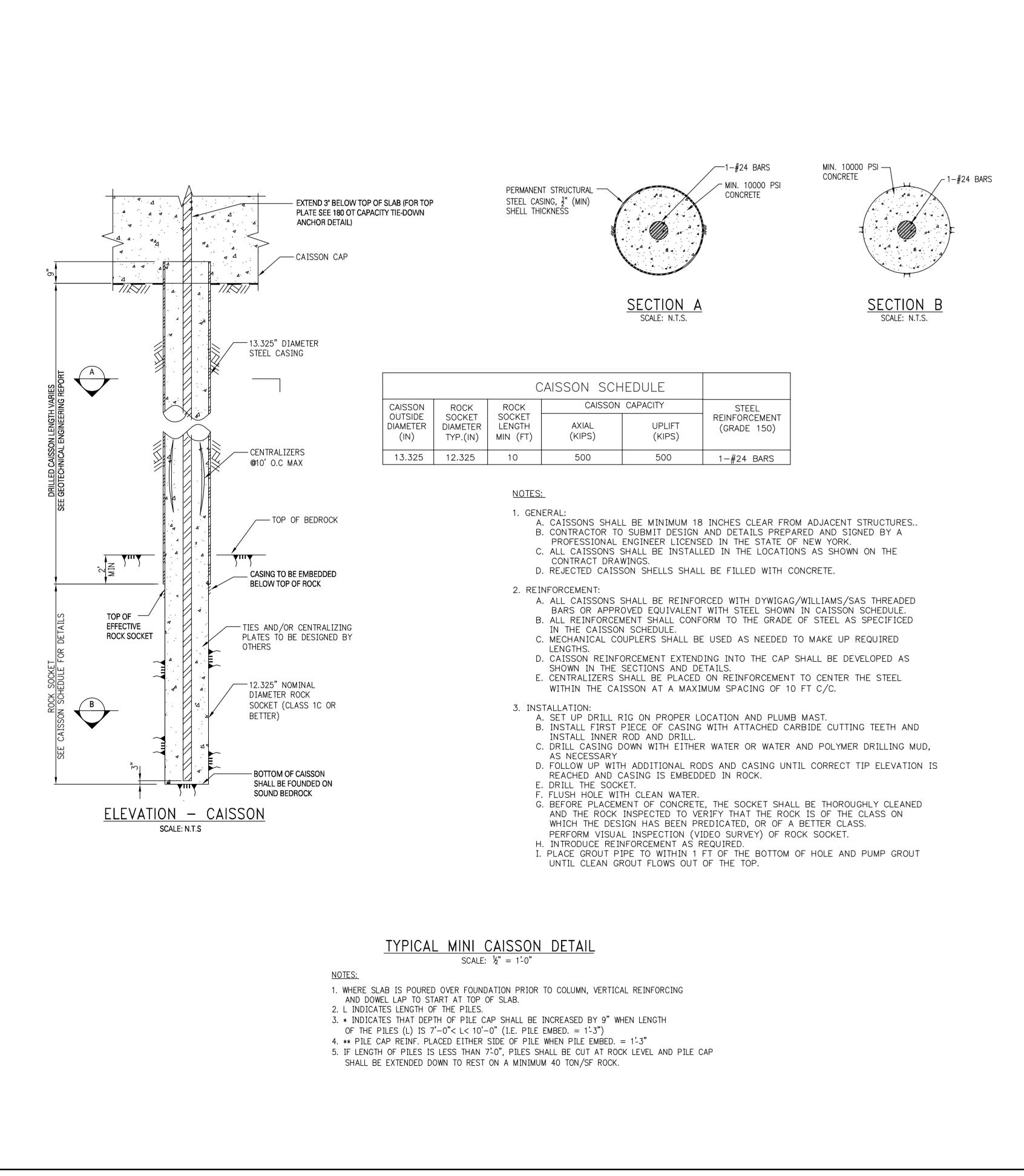
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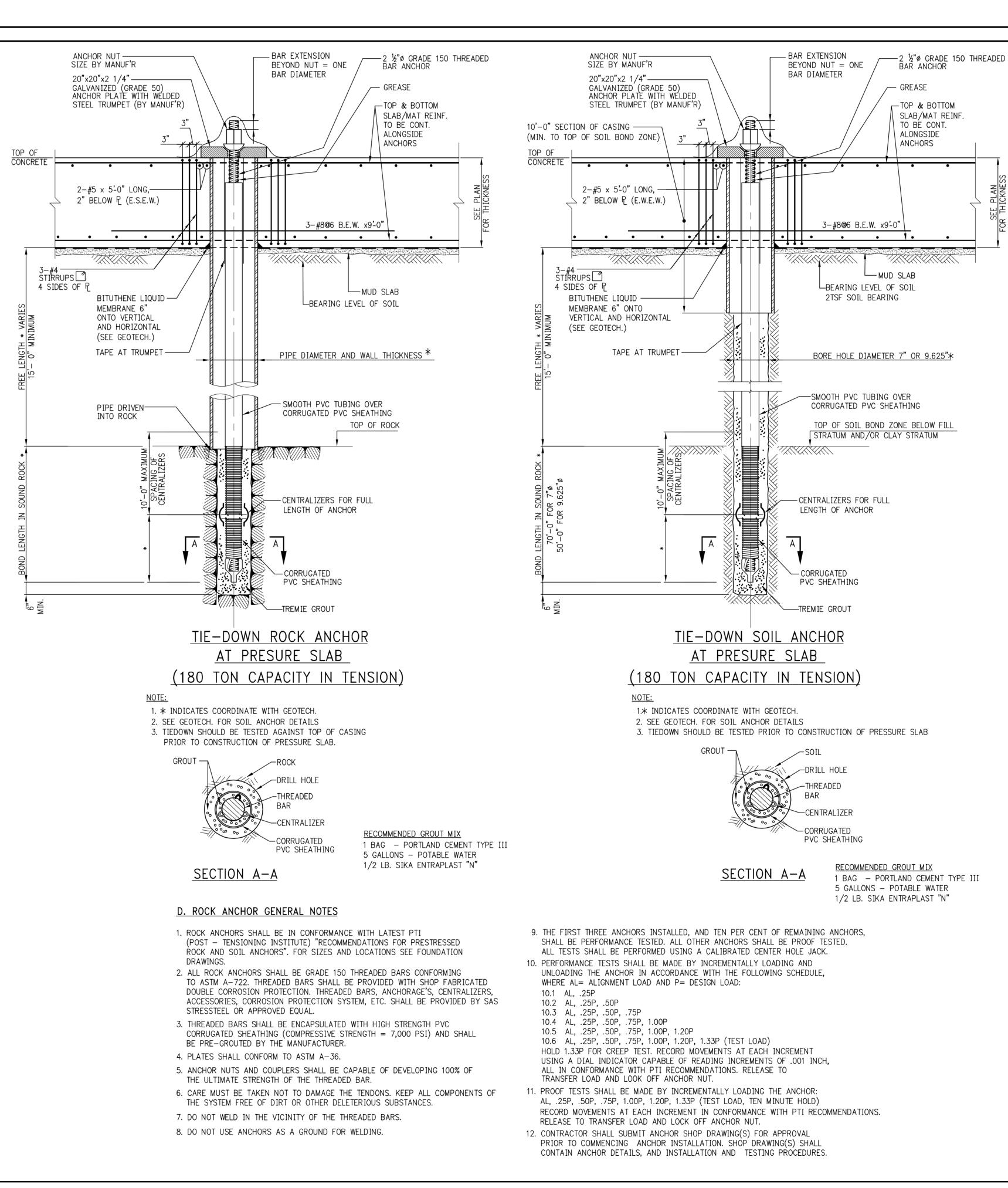
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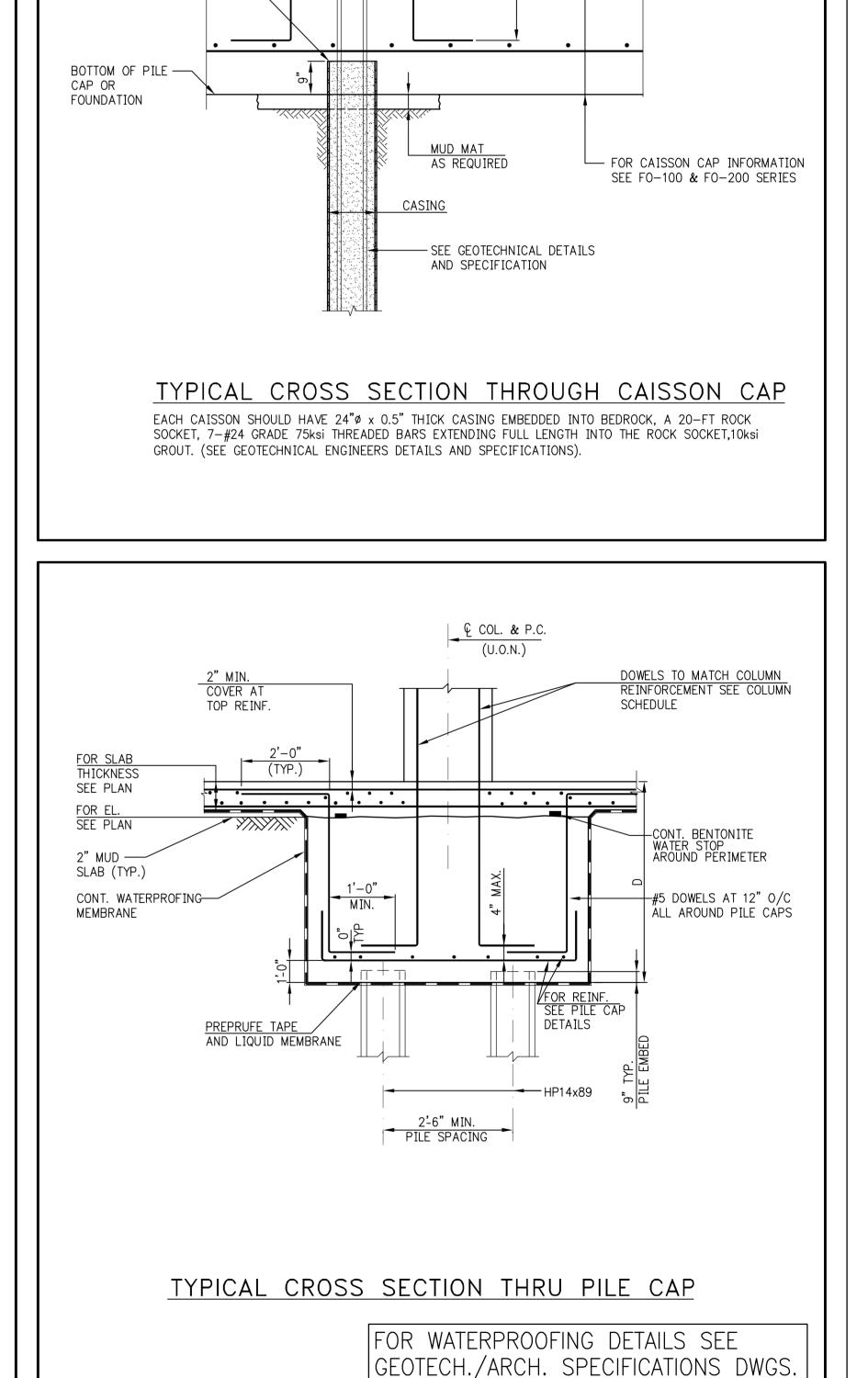
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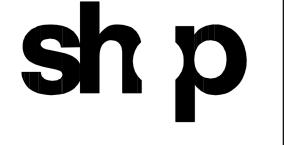
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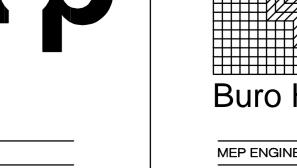


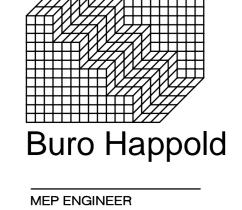














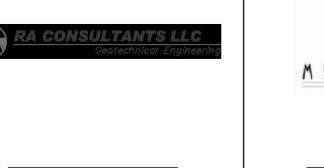
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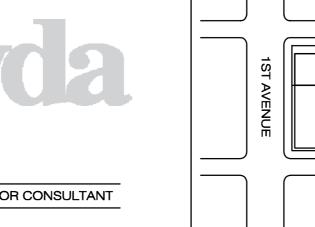
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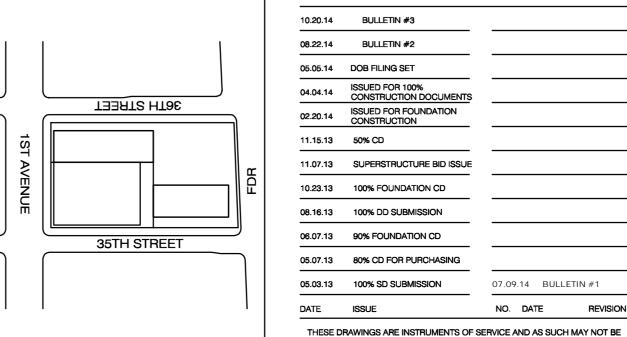




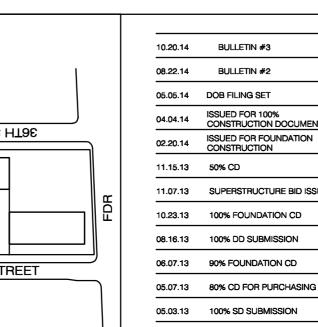


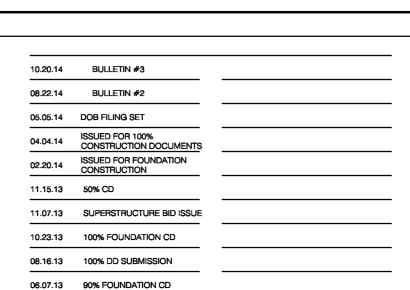




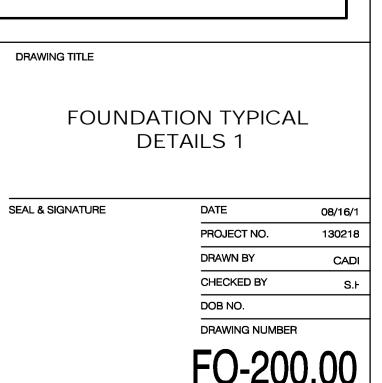


SITE DIAGRAM





626 1ST AVENUE _____



SHEET XX UE XX

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BURO HAPPOLD 100 BROADWAY, 23RD FLR NEW YORK, NY 10005 000.000.0000

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CIVIL ENGINEER 440 PARK AVE SOUTH, 7TH FLR NEW YORK, NY 10016 000.000.0000

47 WILKENS DRIVE

GEOTECHNICAL ENGINEERS RA CONSULTANTS LLC DUMONT, NJ 07628 212.889.9005

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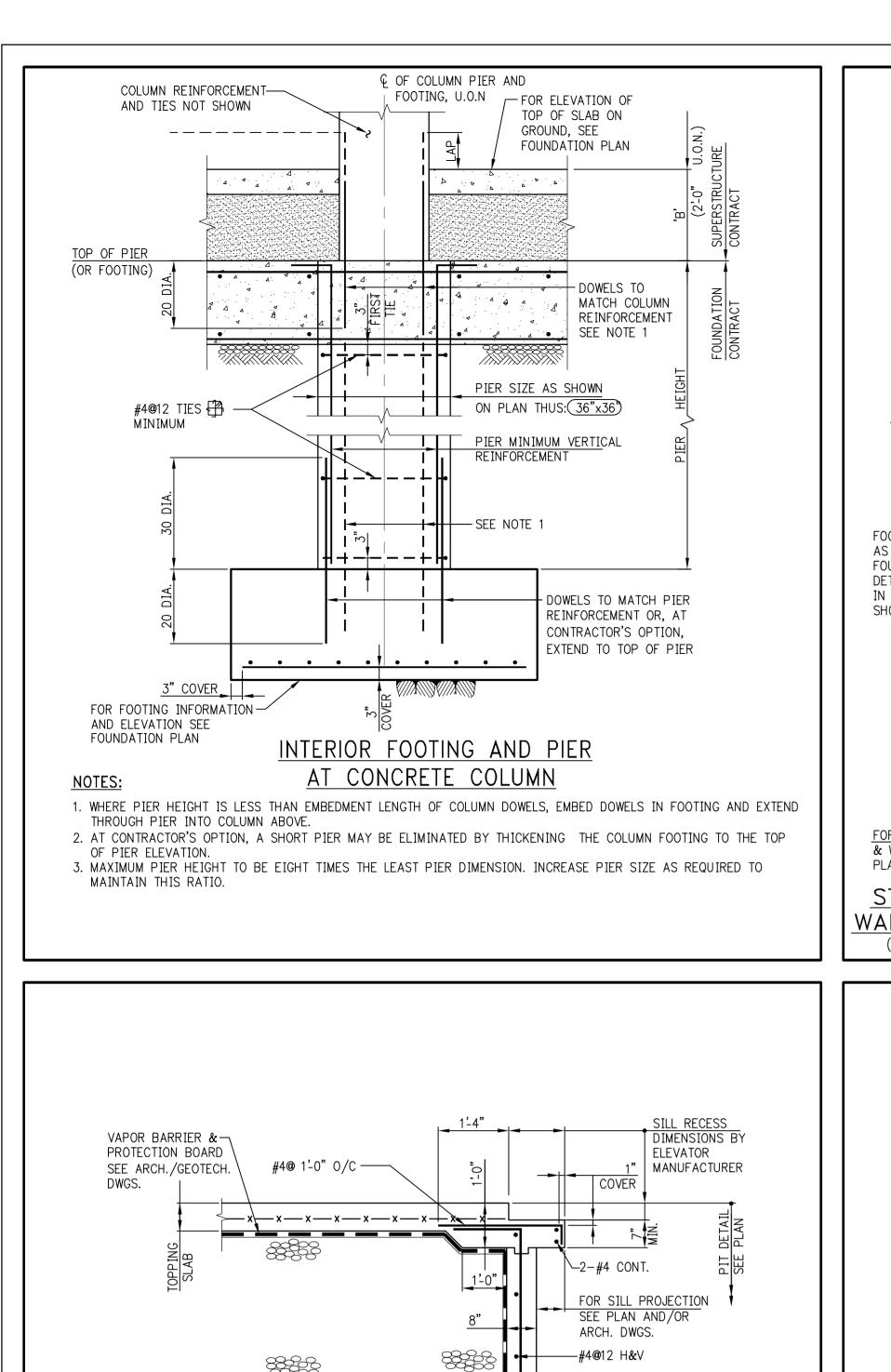
ELEVATOR CONSULTANT 5 REGENT ST, STE 524 LIVINGSTON, NJ 07039 J 212.889.9005

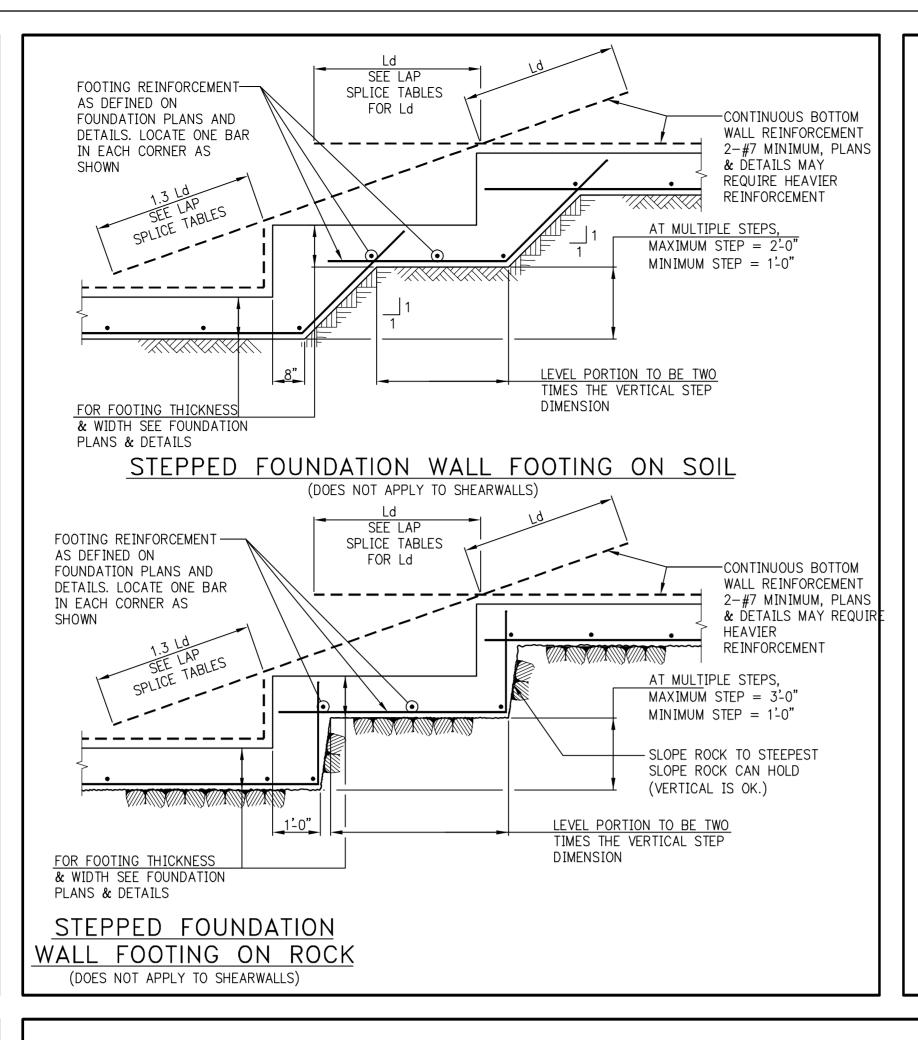
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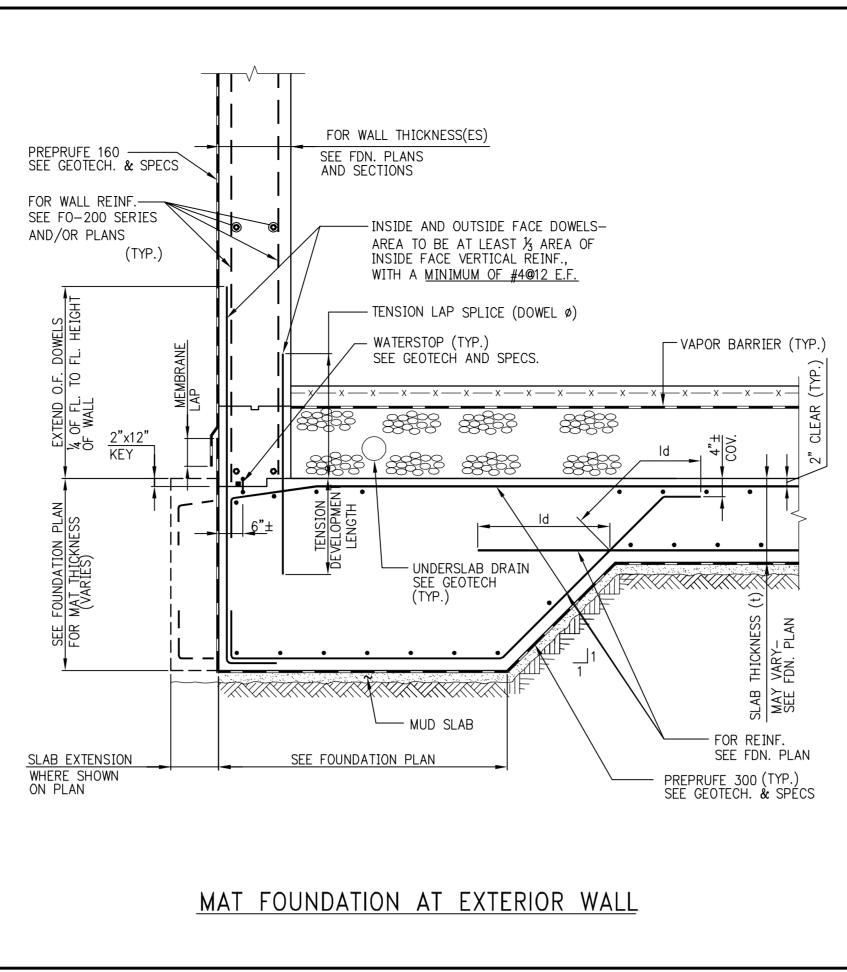
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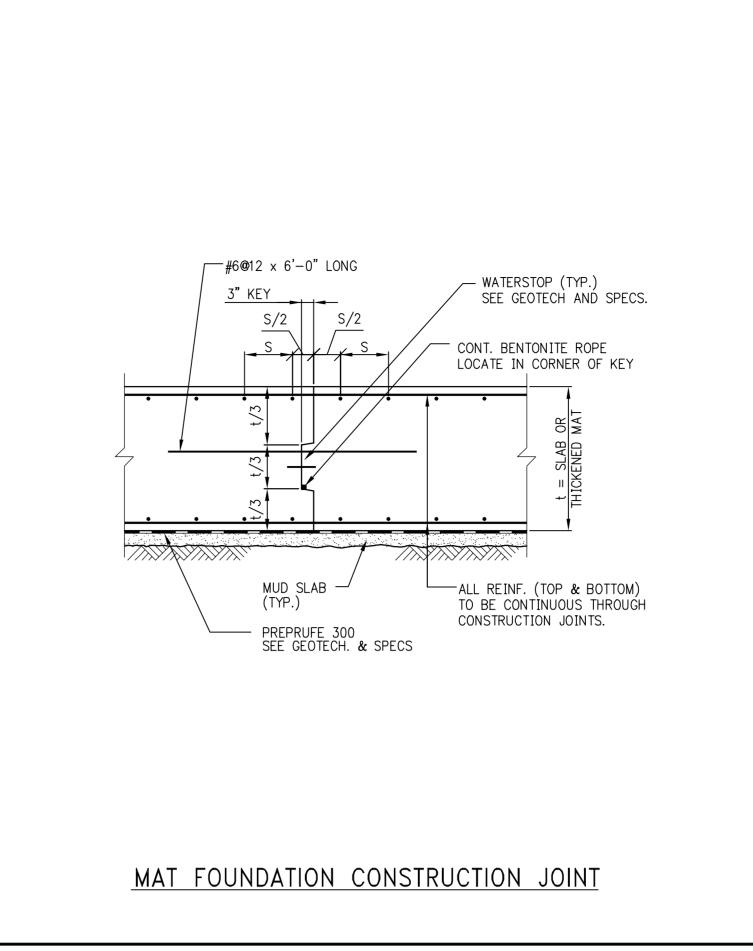
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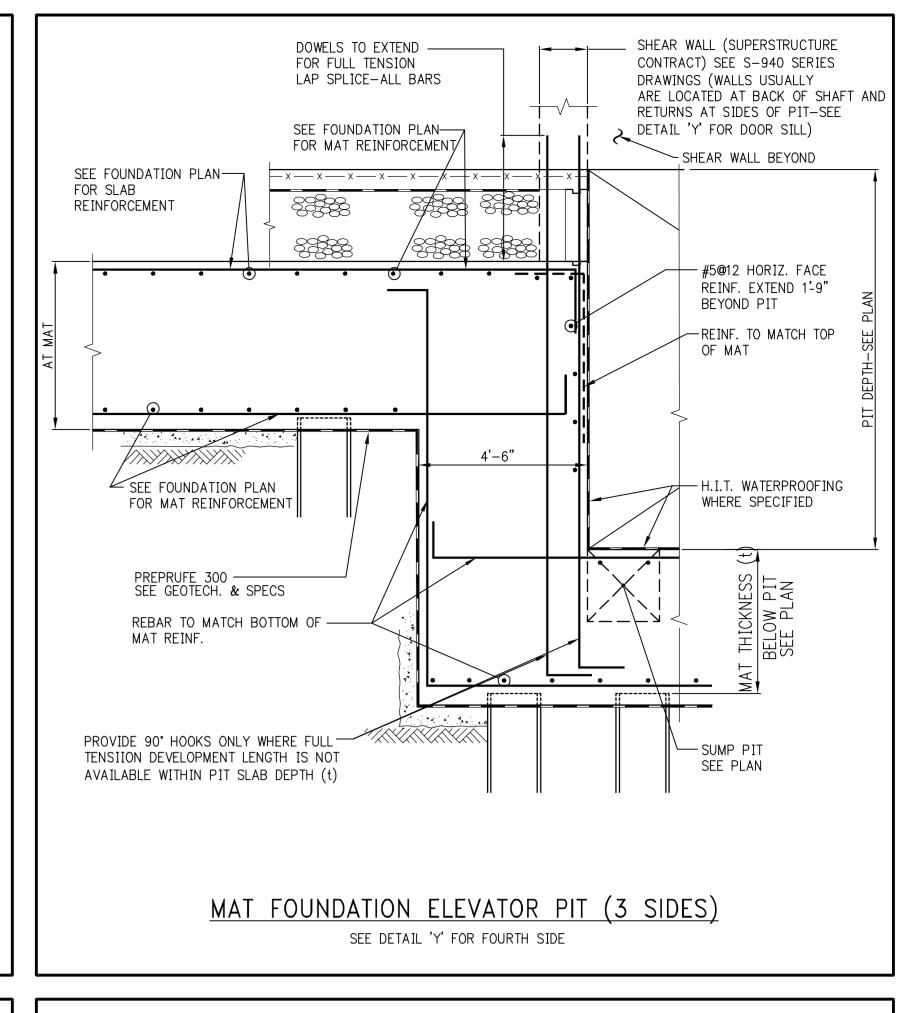
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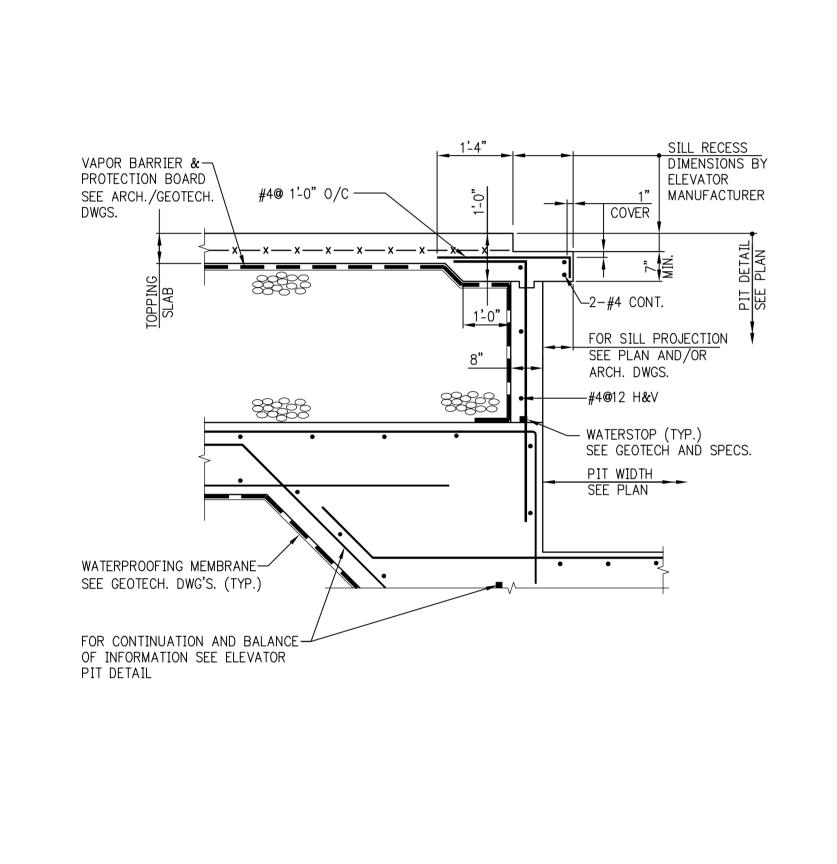




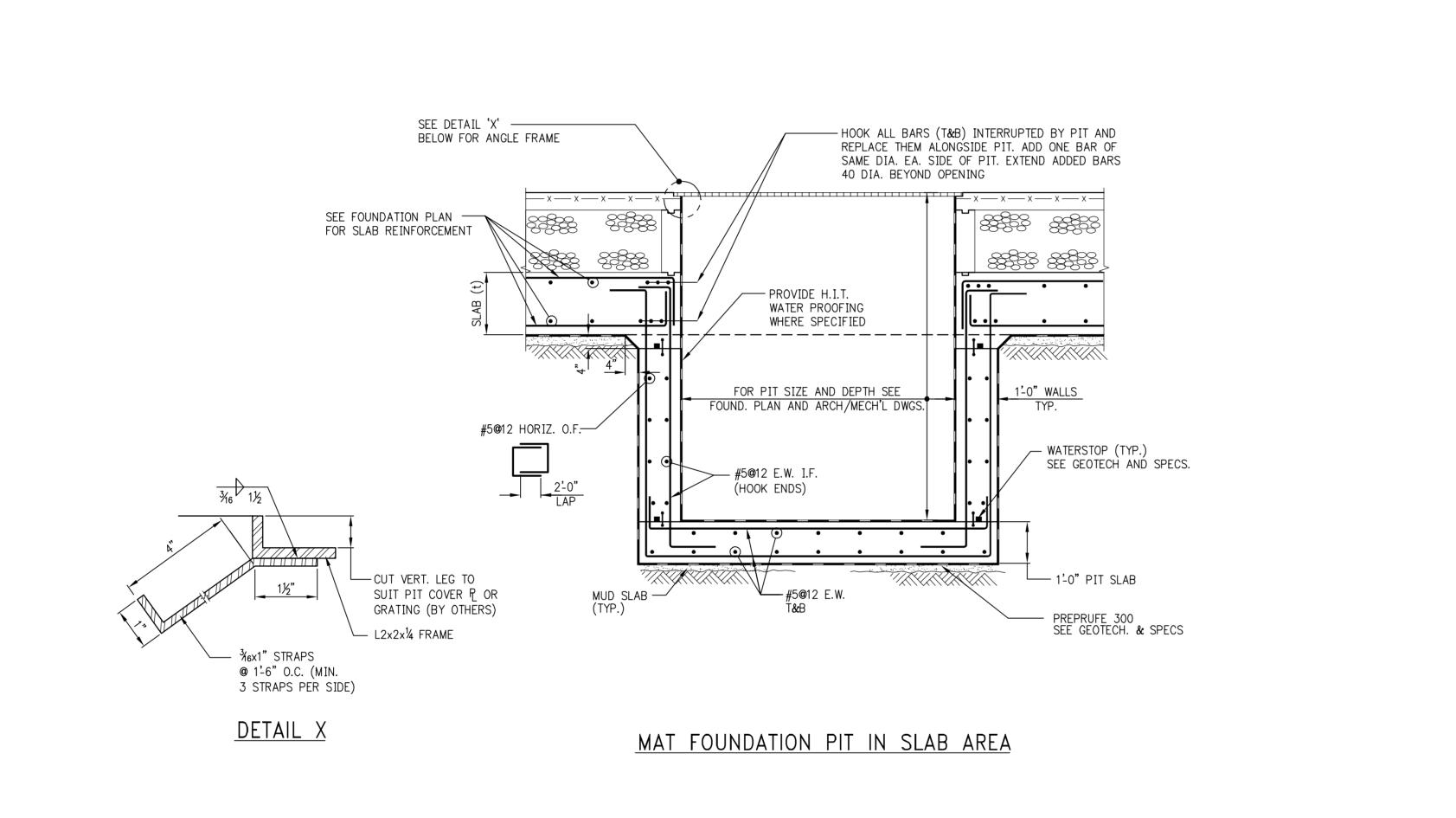


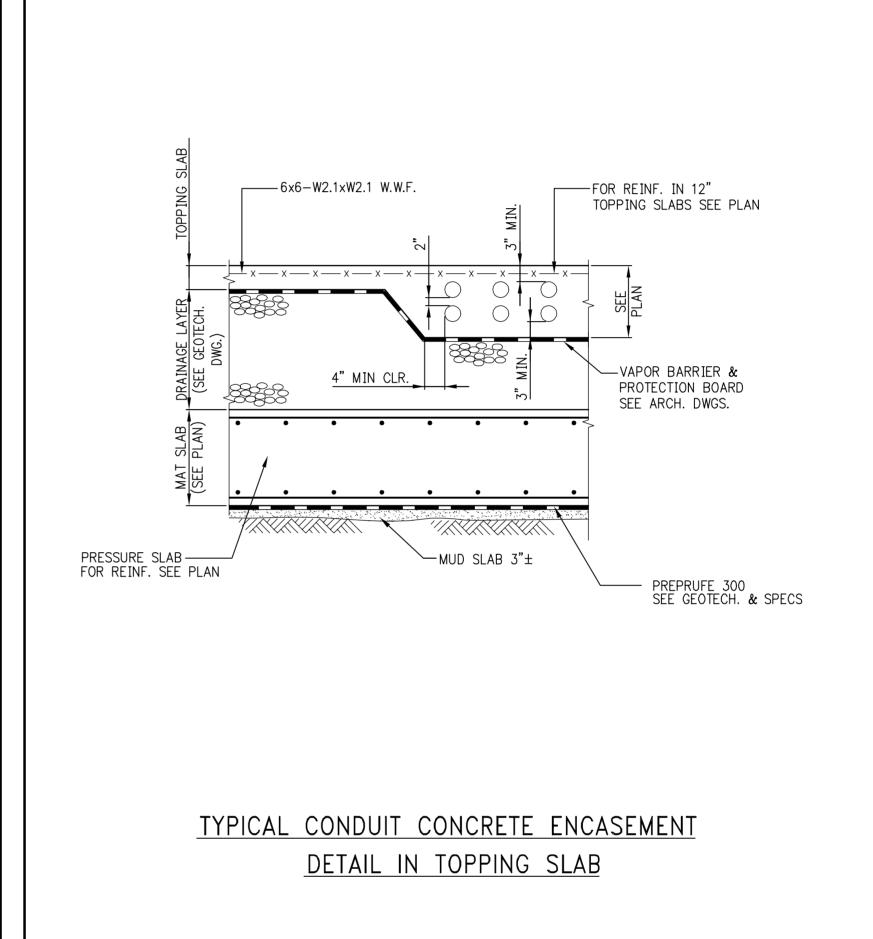


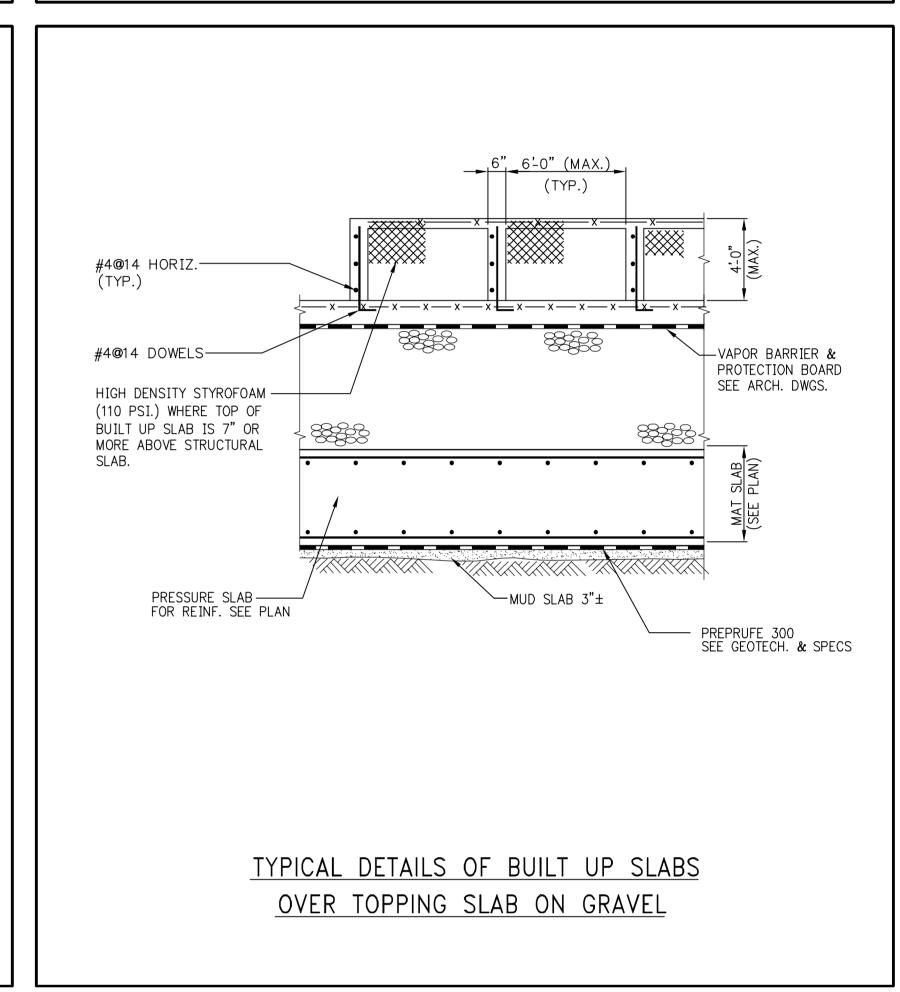


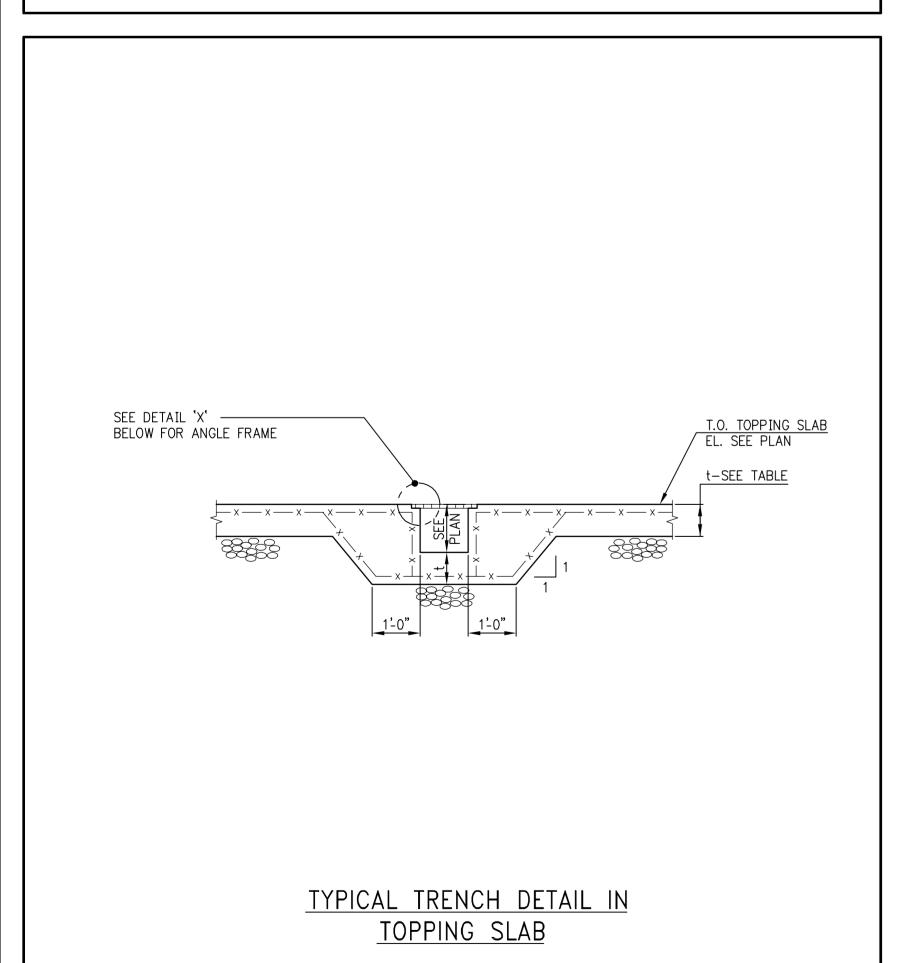


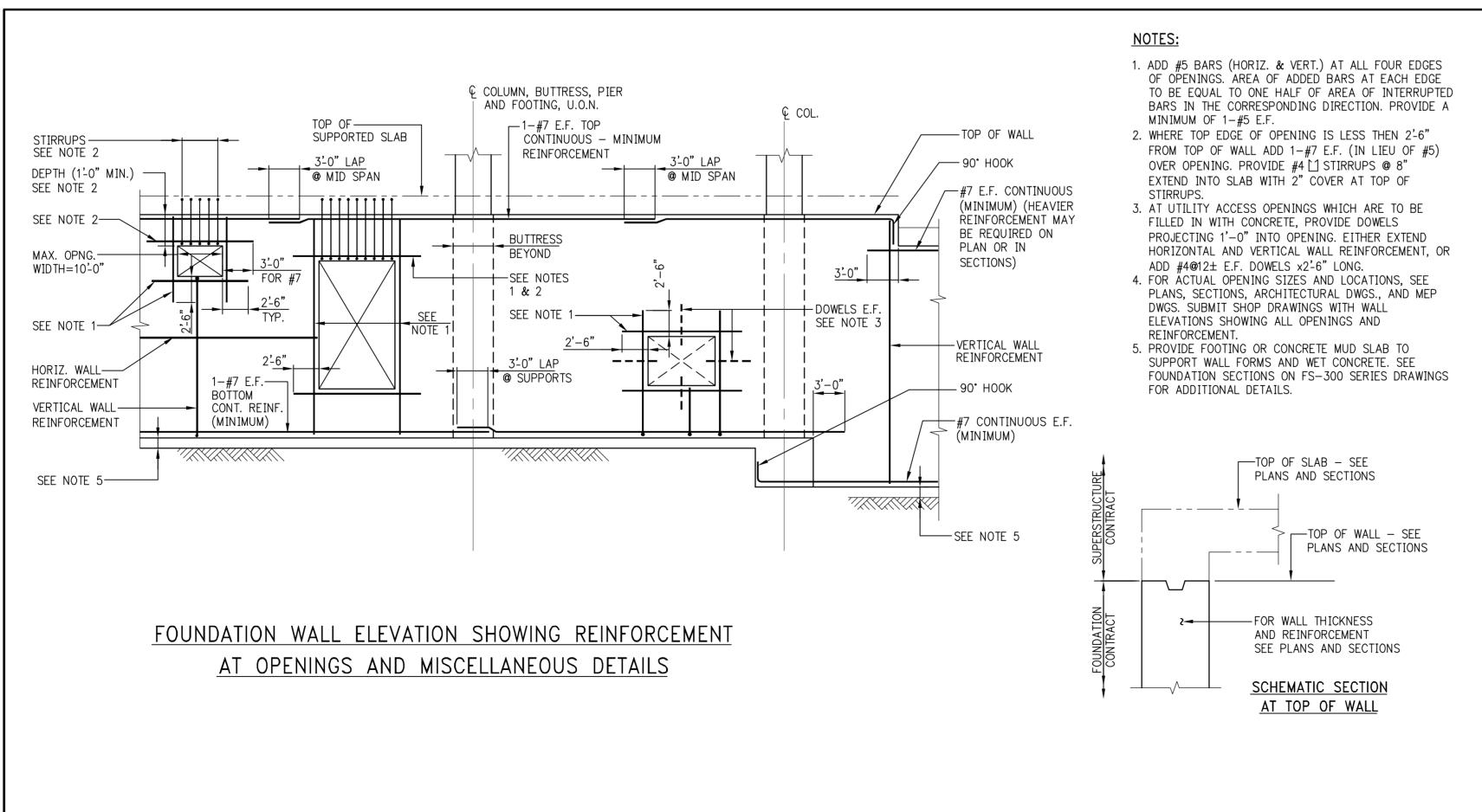
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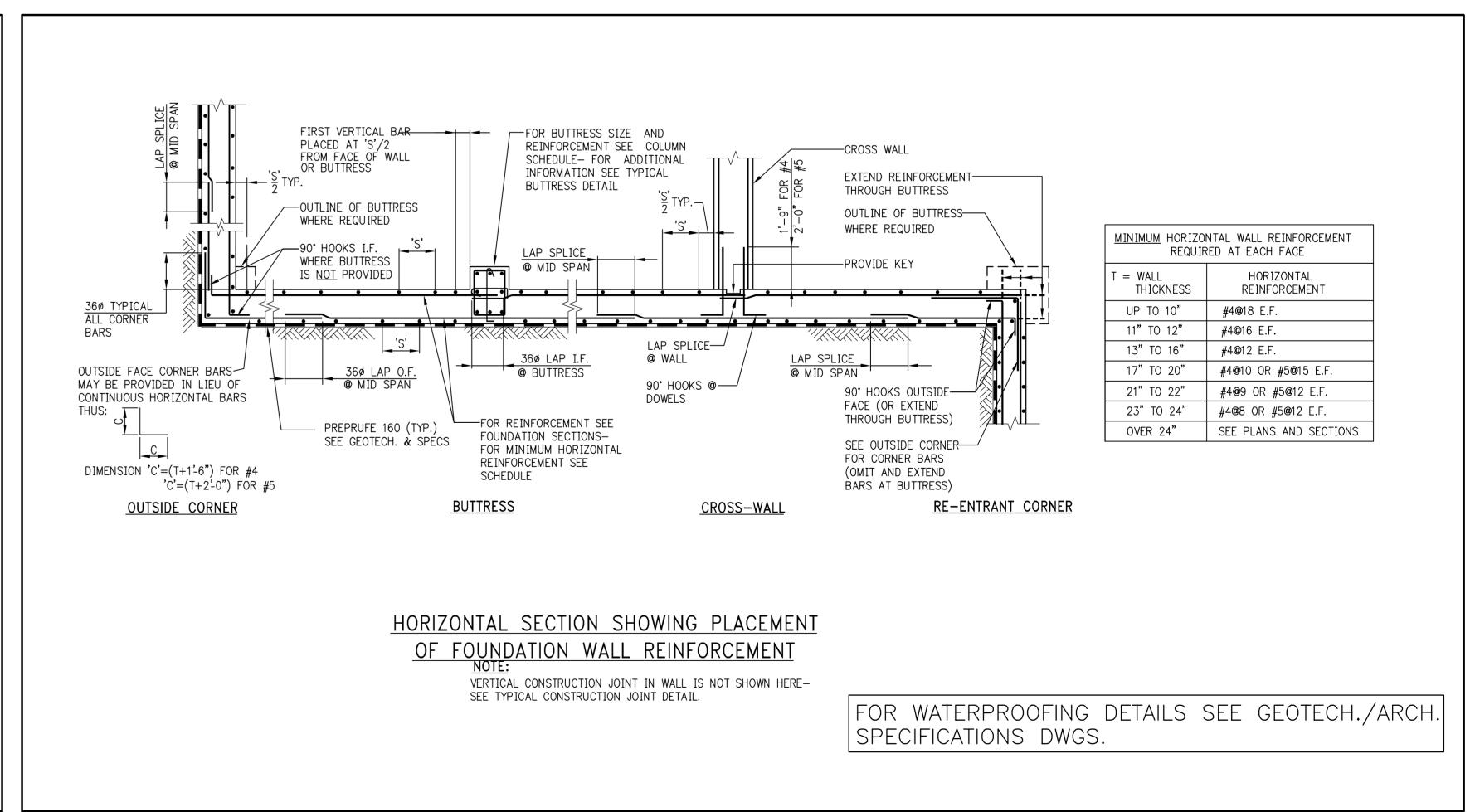














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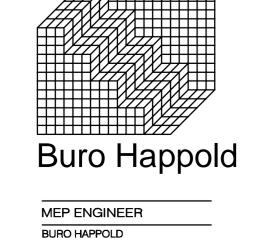
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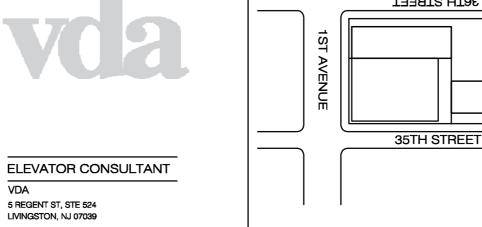
tel 212.889.9005

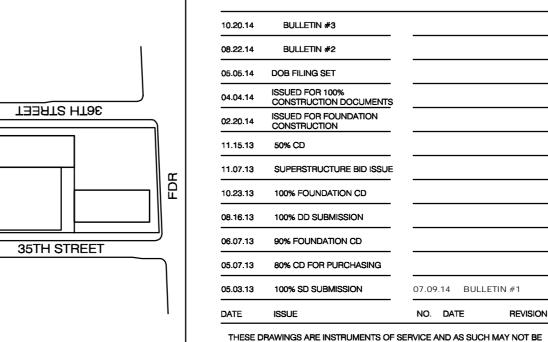


5 REGENT ST, STE 524

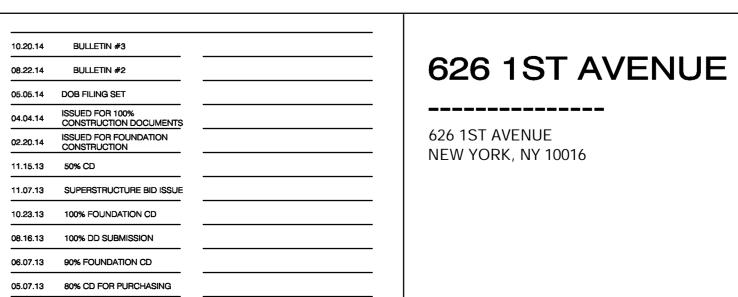
LIVINGSTON, NJ 07039

212.889.9005





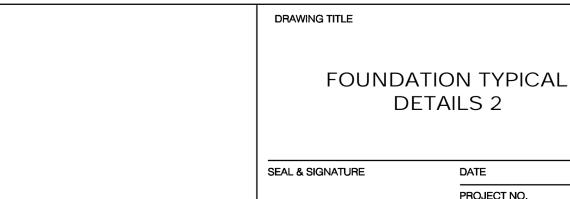
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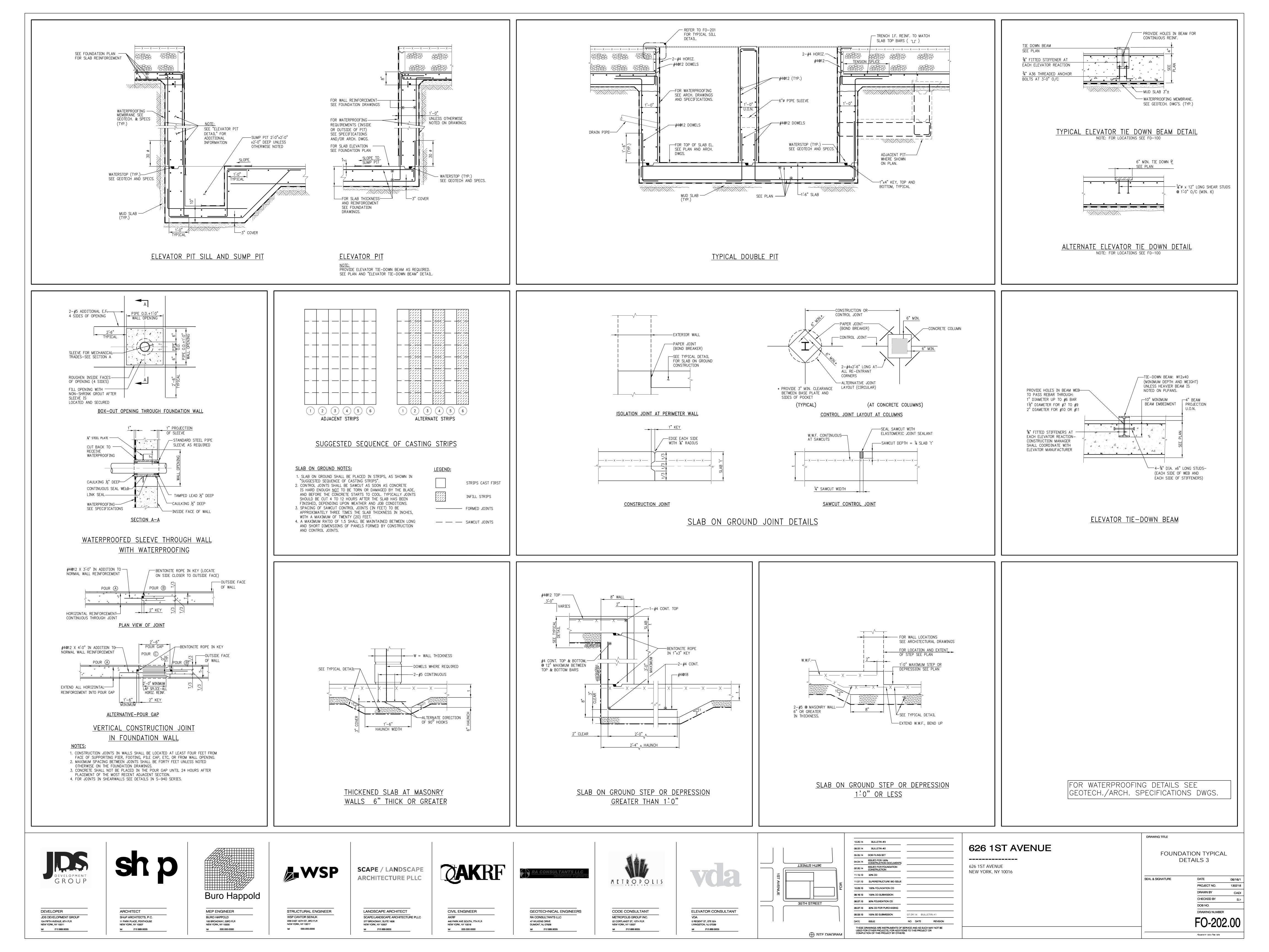
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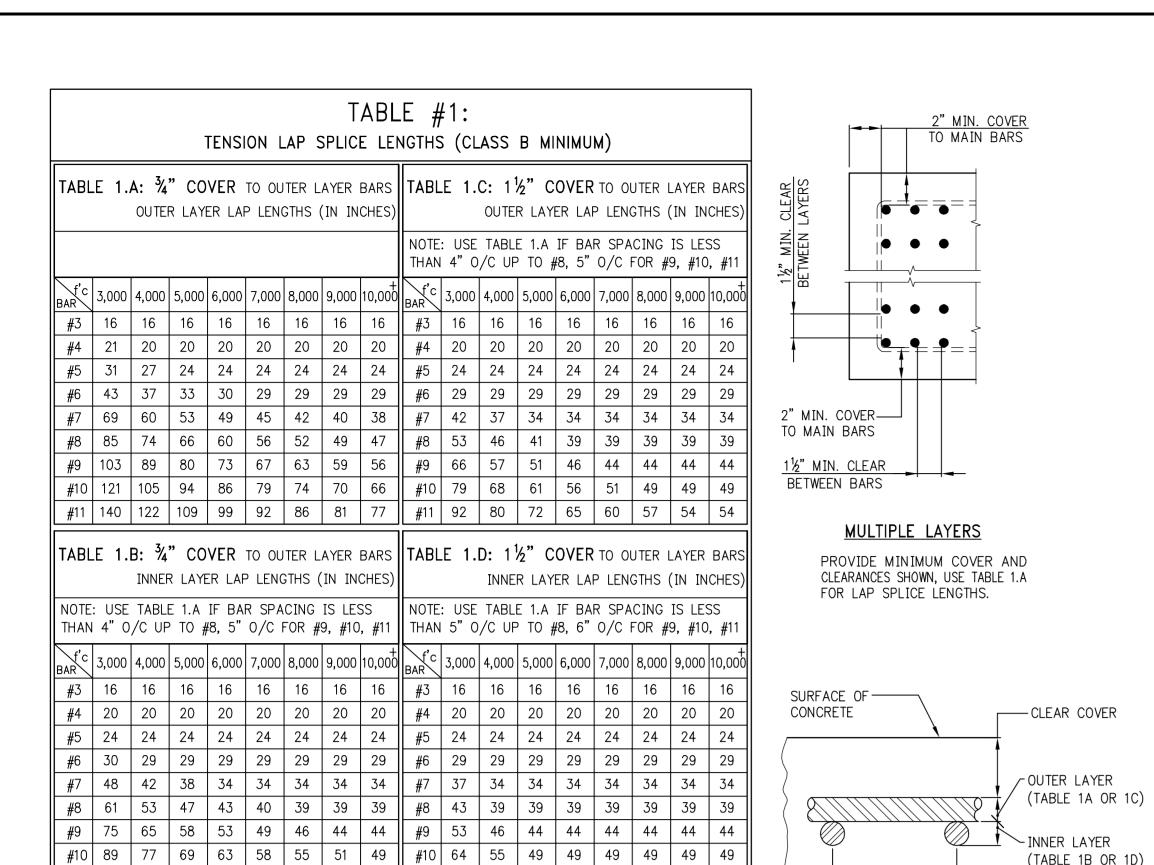
NO. DATE REVISION



08/16/1 PROJECT NO. DRAWN BY CHECKED BY DOB NO. DRAWING NUMBER FO-201.00

SHEET XX UE XX





1. ALL REBARS LARGER THAN #11 SHALL HAVE A MINIMUM YIELD STRESS OF fy=75ksi AND SHALL BE MECHANICALLY TENSION/COMPRESSION SPLICED.

|| #11 | 104 | 90 | 81 | 74 | 68 | 64 | 60 | 57 || #11 | 75 | 65 | 58 | 54 | 54 | 54 | 54 | 54 | 54

NOTES FOR TENSION LAP SPLICES

- 1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI. 2. CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- 3. FOR "TOP" BAR SPLICE LENGTHS ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
- 4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS: a. LIGHTWEIGHT CONCRETE1.3
- b. EPOXY-COATED BARS: 1.) BARS WITH COVER < 3db, <u>OR</u>
- WITH CLEAR SPACING < 6db ...1.5 FOR BOTTOM & 1.3 FOR 'TOP' BARS *
- 2.) ALL OTHER CONDITIONS1.2 * FOR EPOXY-COATED 'TOP' BARS THE MAXIMUM

FOR COMBINED FACTORS = 1.7

DEVELOPMENT LENGTH TABLES.

- 5. WHERE TENSION DEVELOPMENT LENGTH (Ld) IS REQUIRED ON PLANS OR IN DETAILS, SÉE TENSION
- 6. CLASS A LAP SPLICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (Ld). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.

TABLE 2.A: 34" COVER TO OUTER LAYER BARS OUTER LAYER DEVELOPMENT LENGTHS									TABL	E 2.						_AYER · LENG	
f'c BAR	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	f'c BAR	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,0
#3	12	12	12	12	12	12	12	12	#3	12	12	12	12	12	12	12	12
#4	16	14	13	12	12	12	12	12	#4	13	12	12	12	12	12	12	12
# 5	24	21	19	17	16	15	14	13	#5	16	14	13	13	13	13	13	13
#6	33	28	25	23	22	20	19	18	#6	20	17	15	15	15	15	15	15
#7	53	46	41	37	35	32	31	29	#7	32	28	25	23	21	20	19	18
#8	66	57	51	46	43	40	38	36	#8	41	36	32	29	27	25	24	23
#9	79	69	61	56	52	49	46	43	#9	50	44	39	36	33	31	29	28
		01	72	66	61	57	54	51	#10	60	52	47	43	40	37	35	33
#10	93	81	12														
#11	108	94	84	76	71	66	62	59	#11	71	61	55	50	46	43	41	39
#11	108	94 B: 3/4	84 " CO	76	71 TO OU	TER L	AYER	BARS	#11		D: 1 ¹	∕₂" C	OVER	TO OI	UTER I		BAF
#11	108 E 2.	94 B: 3/4 IN	84 " CO NER L	76 VER AYER	71 TO OU DEVEL	TER L	AYER IT LEN	BARS	TABL	E 2.	D: 1 ¹	½" C	OVER AYER	TO OI	UTER I	_AYER	BAF
#11 TABL	108 E 2.	94 B: 3/4 IN	84 " CO NER L	76 VER AYER	71 TO OU DEVEL	TER L	AYER IT LEN	BARS GTHS	TABL	E 2.	D: 1 ¹	½" C	OVER AYER	TO OI	UTER I	_AYER	BAF
#11 TABL	108 E 2.	94 B: ³ / ₄ IN 4,000	84 " CO NER L 5,000	76 VER AYER 6,000	71 TO OU DEVEL 7,000	TER LOPMEN	AYER IT LEN 9,000	BARS GTHS	TABL	E 2.	D: 1 ¹ / ₁ IN	½" C NER L 5,000	OVER AYER 6,000	TO 01 DEVEL 7,000	UTER I	_AYER	BAF IGTH 10,0
#11 TABL f'c BAR #3	108 E 2. 3,000	94 B: ³ / ₄ IN 4,000	84 " CO NER L 5,000 12	76 VER AYER 6,000 12	71 TO OU DEVEL 7,000 12	TER L OPMEN 8,000 12	AYER IT LEN 9,000 12	BARS GTHS 10,000	TABL f'c BAR #3	E 2.	D: 1 ¹ / _{IN} 4,000 12	½" C NER L 5,000	OVER AYER 6,000	TO 01 DEVEL 7,000 12	UTER I OPMEN 8,000	_AYER NT LEN 9,000 12	BAF
#11 TABL BAR #3 #4	108 E 2. 3,000 12 13	94 B: ¾ IN 4,000 12 12	84 " CO NER L 5,000 12 12	76 VER AYER 6,000 12 12	71 TO OUDEVEL 7,000 12 12	TER L OPMEN 8,000 12 12	AYER T LEN 9,000 12 12	BARS GTHS 10,000 12 12	TABL f'c BAR #3 #4	3,000 12 13	D: 1 ¹ / _{IN} 4,000 12 12	6" C NER L 5,000 12 12	OVER AYER 6,000 12 12	TO OI DEVEL 7,000 12 12	UTER I OPMEN 8,000 12 12	_AYER NT LEN 9,000 12 12	BAF IGTH 10,0 12
#11 TABL BAR #3 #4 #5	108 E 2. 3,000 12 13 16	94 B: 3/4 IN 4,000 12 12 14	84 " CO NER L 5,000 12 12 13	76 VER AYER 6,000 12 12 13	71 TO OUDEVEL 7,000 12 12 13	TER L OPMEN 8,000 12 12 13	AYER T LEN 9,000 12 12 13	BARS GTHS 10,000 12 12 13	TABL f'c BAR #3 #4 #5	3,000 12 13 16	D: 1.1 IN 4,000 12 12 14	½" C NER L 5,000 12 12 13	OVER AYER 6,000 12 12 13	TO OI DEVEL 7,000 12 12 13	UTER I OPMEN 8,000 12 12 13	-AYER NT LEN 9,000 12 12 13	BAR IGTH 10,0 12 13
#11 TABL BAR #3 #4 #5 #6	3,000 12 13 16 23	94 B: ¾ IN 4,000 12 12 14 20	84 " CO NER L 5,000 12 12 13 18	76 VER AYER 6,000 12 12 13 16	71 TO OU DEVEL 7,000 12 12 13 15	TER L OPMEN 8,000 12 12 13 15	AYER T LEN 9,000 12 12 13 15	BARS GTHS 10,000 12 12 12 13	TABL f'c BAR #3 #4 #5 #6	3,000 12 13 16 20	D: 1.7 IN 4,000 12 12 14 17	½" C NER L 5,000 12 12 13	OVER AYER 6,000 12 12 13 15	TO OIDEVEL 7,000 12 12 13 15	UTER I OPMEN 8,000 12 12 13 15	_AYER NT LEN 9,000 12 12 13 15	BAF IGTH 10,0 12 13 15
#11 TABL #3 #4 #5 #6 #7	108 E 2. 3,000 12 13 16 23 37	94 B: ¾ IN 4,000 12 12 14 20 32	84 " CO NER L 5,000 12 12 13 18 29	76 VER AYER 6,000 12 12 13 16 26	71 TO OU DEVEL 7,000 12 12 13 15 24	TER L OPMEN 8,000 12 12 13 15 23	9,000 12 12 13 15 22	BARS GTHS 10,000 12 12 13 15 20	TABL #3 #4 #5 #6 #7	3,000 12 13 16 20 29	D: 1 ¹ / ₁ 1N 4,000 12 12 14 17 25	½" C NER L 5,000 12 12 13 15 22	OVER AYER 6,000 12 12 13 15 20	TO 00 DEVEL 7,000 12 12 13 15 19	UTER I OPMEN 8,000 12 12 13 15	_AYER NT LEN 9,000 12 12 13 15	BAR IGTH 10,0 12 12
#11 TABL #3 #4 #5 #6 #7 #8	108 E 2. 3,000 12 13 16 23 37 47	94 B: 3/4 IN 4,000 12 12 14 20 32 41	84 " CO NER L 5,000 12 12 13 18 29 36	76 VER AYER 6,000 12 12 13 16 26 33	71 TO OUDEVEL 7,000 12 12 13 15 24 31	TER L OPMEN 8,000 12 12 13 15 23 29	AYER T LEN 9,000 12 12 13 15 22 27	BARS GTHS 10,000 12 12 13 15 20 26	TABL f'c BAR #3 #4 #5 #6 #7 #8	3,000 12 13 16 20 29 33	D: 1.1 IN 4,000 12 12 14 17 25 28	½" C NER L 5,000 12 12 13 15 22 25	OVER AYER 6,000 12 12 13 15 20 23	TO OI DEVEL 7,000 12 12 13 15 19 22	UTER I OPMEN 8,000 12 12 13 15 18 20	AYER 9,000 12 12 13 15 18 20	BAF IGTH 10,0 12 13 15 18

(TABLE 1B OR 1D)

- 1. ALL REBARS LARGER THAN #11 SHALL HAVE A MINIMUM YIELD STRESS OF fy=75ksi AND SHALL BE MECHANICALLY TENSION/COMPRESSION SPLICED.
- NOTES FOR TENSION DEVELOPMENT <u>LENGTHS (Ld)</u>
- 1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI. 2. CONCRETE IS NORMAL WEIGHT (144-150#/C.F.).
- 3. FOR "TOP" BAR DEVELOPMENT LENGTHS ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED
- LENGTHS MUST BE MULTIPLIED BY 1.3. 4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
- a. LIGHTWEIGHT CONCRETE1.3 b. EPOXY-COATED BARS:
- 1.) BARS WITH COVER < 3db, <u>OR</u> WITH CLEAR SPACING < 6db ...1.5 FOR BOTTOM & VERTICAL BARS, 1.3 FOR 'TOP' BARS *
- 2.) ALL OTHER CONDITIONS1.2 * FOR EPOXY-COATED 'TOP' BARS THE MAXIMUM
- FOR COMBINED FACTORS = 1.75. WHERE TENSION DEVELOPMENT LENGTH (Ld) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION

DEVELOPMENT LENGTH TABLES.

6. CLASS A LAP SPLICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (Ld). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.

TABLE #3 TENSION DEVELOPMENT LENGTHS FOR STANDARD END HOOKS (Idh) (LENGTHS IN INCHES)

BAR	CONCRETE STRENGTH (PSI)												
SIZE	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000					
#3	9	7	7	6	6	6	6	6					
#4	11	10	9	8	7	7	7	6					
#5	14	12	11	10	9	9	8	8					
#6	17	15	13	12	11	10	10	9					
#7	19	17	15	14	13	12	11	11					
#8	22	19	17	16	15	14	13	12					
#9	25	22	19	18	16	15	15	14					
#10	28	24	22	20	19	17	16	16					
#11	31	27	24	22	21	19	18	17					
#14	37	32	29	27	25	23	22	21					
#18	50	43	39	35	33	31	29	27					

1. TABLE 3 CONFORMS TO ACI 318-2002 (AND 2005). TABULATED VALUES ARE BASED UPON ACI 12.5.2 , ASSUMING GRADE 60 REINFORCEMENT AND NORMALWEIGHT CONCRETE.

2. PER ACI 12.5.3 a), FOR #11 AND SMALLER BARS, IF COVER TO BAR IS 2½ INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM Idh SHALL NOT BE LESS THAN 8db NOR 6 INCHES.

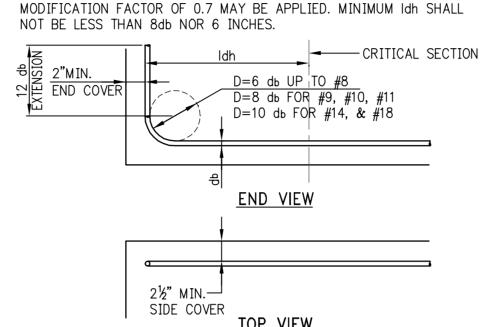


TABLE #4 COMPRESSION LAP SPLICES (LENGTHS IN INCHES)

BAR	GRADE	OF REINFORG	CEMENT
SIZE	60 KSI 75 KSI (30 DIA.) (44 DIA.)		80 KSI (48 DIA.)
#3	12	17	18
#4	15	22	24
# 5	19	28	30
#6	23	33	36
#7	27	39	42
#8	30	44	48
#9	34	50	54
#10	38	56	61
#11	43	62	68

1. LAP SPLICES ARE NOT PERMITTED. USE MECHANICAL CONNECTIONS OR WELDED SPLICES FOR #14 AND #18, PER ACI 318 (12.14.3). 2. LAP SPLICES OF #14 AND #18 BARS TO #11 AND SMALLER BARS ARE PERMITTED PER ACI 318 (12.16.2).

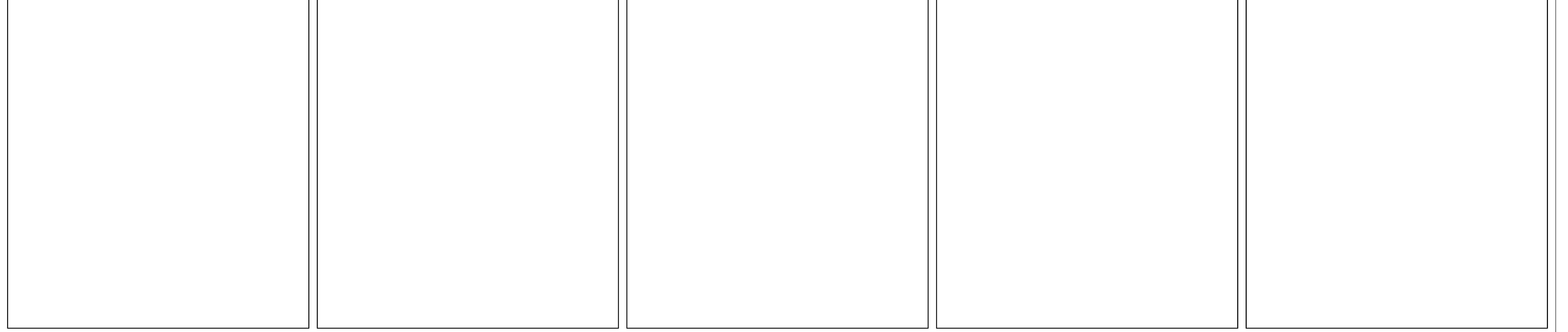
3. FOR BARS OF DIFFERENT SIZE, USE LARGER OF: SPLICE LENGTH OF SMALLER BAR (TABLE #4) OR DEVELOPMENT LENGTH OF LARGER BAR (FROM TABLE #5) PER ACI 318 (12.16.2).

TABLE #4 APPLIES FOR NORMALWEIGHT CONCRETE WITH f'c = 3,000 PSI OR GREATER.

TABLE #5 DEVELOPMENT LENGTHS FOR BARS IN COMPRESSION (LENGTHS IN INCHES)

	fy =	= 60,000	PSI	fy =	= 75,000	PSI	fy =	= 80,000	PSI
BAR	CONC. f'c (IN PSI)			CONC. f'c (IN PSI)			CONC. f'c (IN PSI)		
SIZE	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE
#3	12	12	12	12	12	12	12	12	12
#4	12	12	12	14	12	12	15	13	12
# 5	14	12	12	17	15	14	18	16	15
#6	17	15	14	21	18	17	22	19	18
# 7	19	17	16	24	21	20	26	22	21
#8	22	19	18	28	24	23	29	25	24
#9	25	22	21	31	27	25	33	28	27
#10	28	24	23	34	30	28	36	31	30
#11	31	27	26	38	33	31	40	34	33
#14	37	32	31	48	42	39	51	44	42

#18 50 43 41 62 54 51 65 56 54





DEVELOPER

JDS DEVELOPMENT GROUP

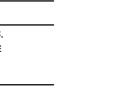
104 FIFTH AVENUE, 9TH FLR

NEW YORK, NY 10011

tel 212.889.9005









Buro Happold



STRUCTURAL ENGINEER WSP CANTOR SEINUK 228 EAST 45TH ST, 3RD FLR NEW YORK, NY 10017 tel 000.000.0000



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000.000.0000



GEOTECHNICAL ENGINEERS

RA CONSULTANTS LLC

212.889.9005

47 WILKENS DRIVE

DUMONT, NJ 07628



CODE CONSULTANT

METROPOLIS GROUP INC.

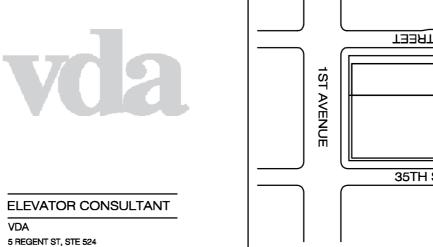
22 CORTLANDT ST, 10TH FLR

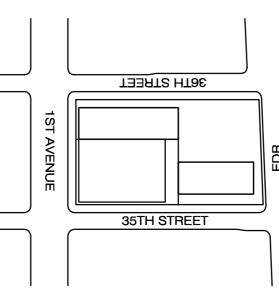
NEW YORK, NY 10007

tel 212.889.9005

LIVINGSTON, NJ 07039

el 212.889.9005





SITE DIAGRAM

10.20.14 BULLETIN #3 626 1ST AVENUE 08.22.14 BULLETIN #2 05.05.14 DOB FILING SET 04.04.14 ISSUED FOR 100%
CONSTRUCTION DOCUMENTS 02.20.14 ISSUED FOR FOUNDATION CONSTRUCTION 626 1ST AVENUE 11.15.13 50% CD

NO. DATE REVISION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS.

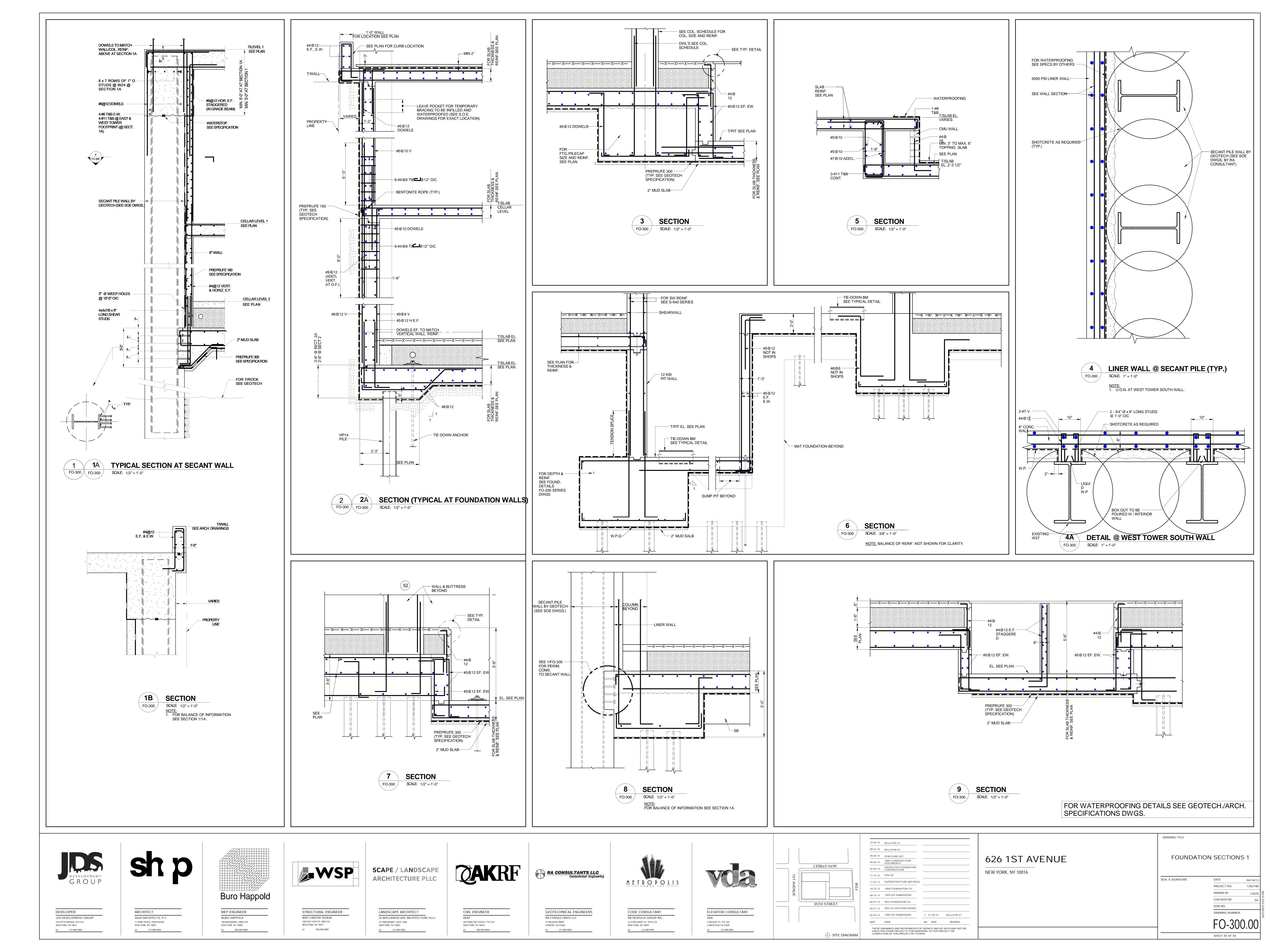
11.07.13 SUPERSTRUCTURE BID ISSUE 10.23.13 100% FOUNDATION CD 08.16.13 100% DD SUBMISSION 06.07.13 90% FOUNDATION CD 05.07.13 80% CD FOR PURCHASING

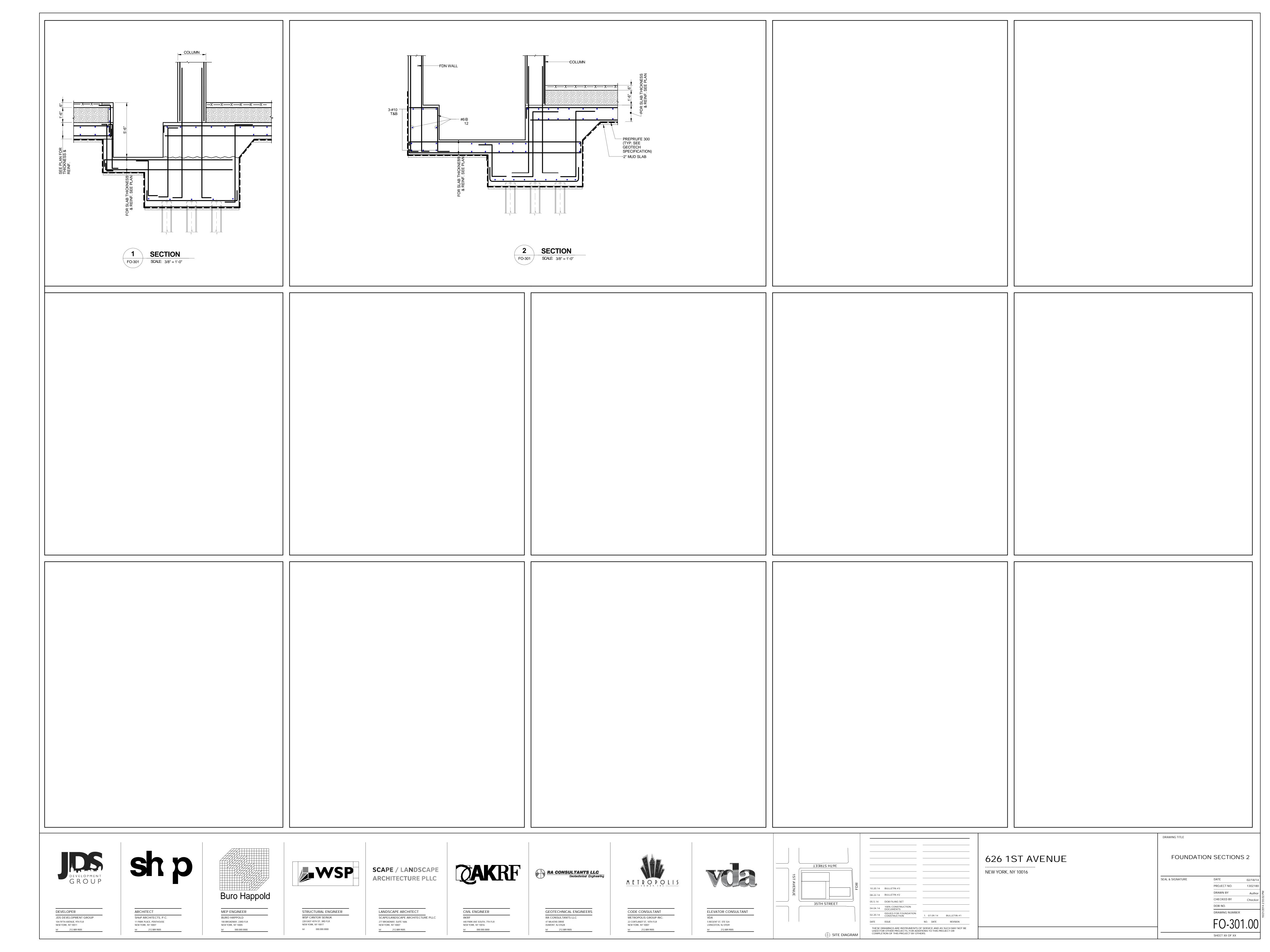
05.03.13 100% SD SUBMISSION

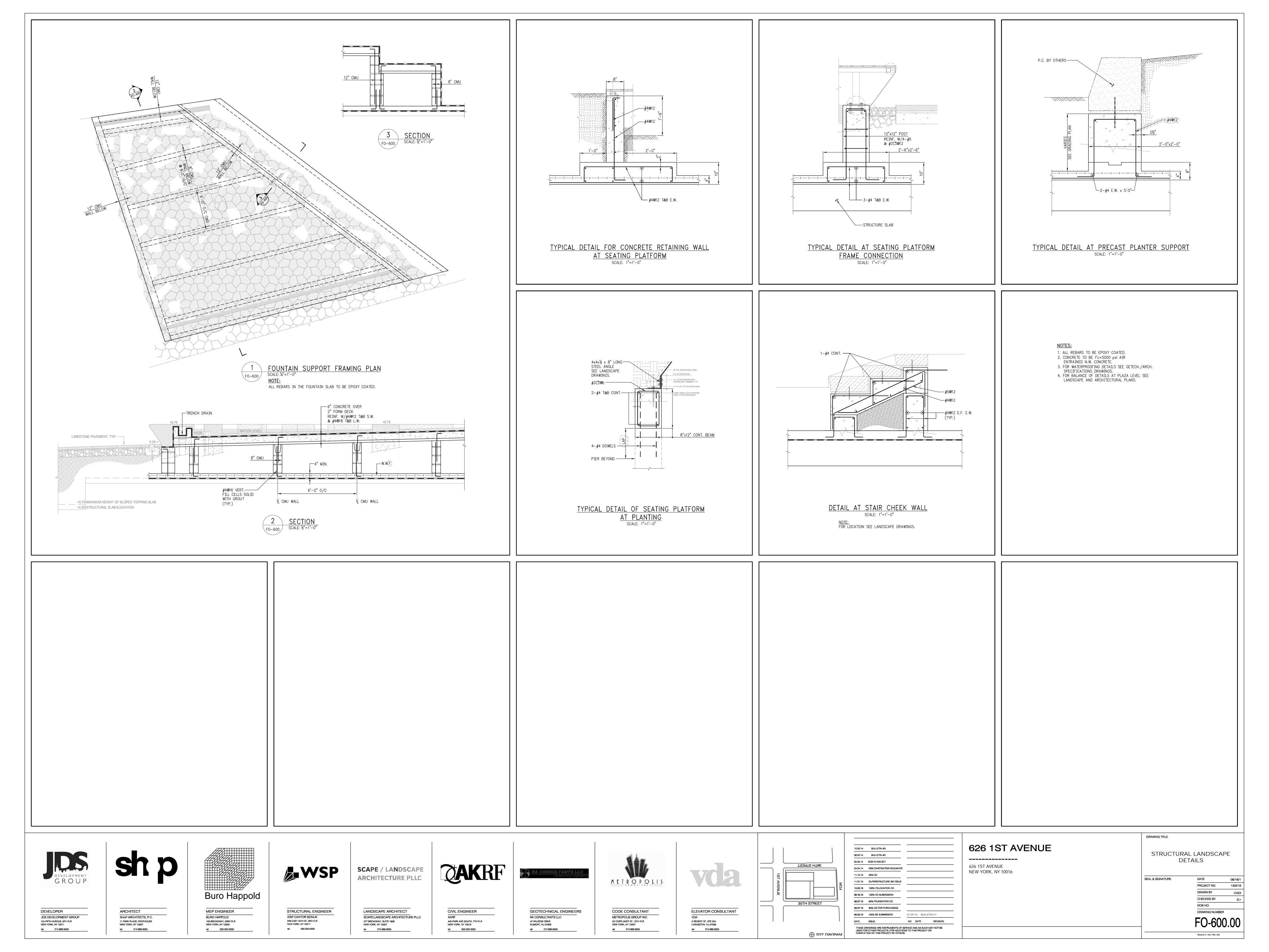
_____ NEW YORK, NY 10016

DRAWING TITLE FOUNDATION TYPICAL **DETAILS 4**

SHEET XX OF XX







APPENDIX B

LOT 2 – ANNUAL INSPECTION FORMS: 2015-2020 REPORTING PERIOD, PREPARED BY ATC GROUP SERVICES, LLC

ANNUAL INSPECTION REPORT PUBLIC SCHOOL 281M 425 EAST 35TH STREET NEW YORK, NY 10016

PREPARED FOR:



New York City Department of Education Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PREPARED BY:



104 East 25th Street, 10th Floor New York, New York 10010-2917

Date of Issue: June 19, 2015

Cardno ATC Project No. Z214YI0129



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PROJECT DIRECTORY

OWNER/CLIENT: New York City Department of Education

Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PROJECT LOCATION: Kips Bay (P.S. 281M)

425 East 35th Street

New York, NY, 10016

PROJECT TECHNICAL SUPPORT New York City School Construction Authority

30-30 Thomson Avenue

Long Island City, New York 11101

STV Incorporated

225 Park Avenue South

New York, New York 10003

DESCRIPTION OF WORK: Review O&M plan and prior reports; review

custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Nancy Guevara, Inspector



EXECUTIVE SUMMARY

Cardno ATC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Gas Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at P.S. 281M located at 425 East 35th Street New York, NY, 10016 on May 28, 2015.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Forms were prepared for the months of June 2014 through May 2015. In addition, the Routine and Preventative Maintenance Checklist was not completed. ATC observed that the SSDS fan unit was operational. The flexible connector on the fan stacks was observed to be cracked. ATC also observed that the Building Management System (BMS) is functional and connected to the SSDS. ATC did not observe any significant cracks in the ground floor. However, ATC observed surficial hairline cracks in Rooms 100 and 110. A spare fan unit was available at the school in Room 509. All monitoring points were checked and found to be in good condition, except MP-1 which was observed to be heavily rusted and missing all screws on the cover.

Based on the aforementioned, ATC concludes that the Engineering Controls have not changed and appear to be effective, and no changes have occurred that would reduce the ability of the controls to protect public health and the environment. However, monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff. The cracked flexible connector on the SSDS fan unit stack should be replaced. Even though hairline cracks in Rooms 100 and 110 are not a concern, ATC advised the custodian that any significant cracks observed during the monthly inspections should be sealed with patching cement or grout. Additionally, monitoring point MP-1 should be clear of any rust obstruction and the cover should be securely tightened. These recommendations were brought to the attention of the custodial staff as part of the refresher training.



1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to P.S. 281M located at 425 35th Street, New York, NY, 10016. The school is currently attended by approximately 80 students. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

- 1. Review of the school custodian's inspection logs indicating his routine walk-through to identify any observed changes to the interior surfaces and roof mounted fan units;
- 2. Roof vent SSDS inspection;
- 3. Ground floor inspection and exterior inspection for concrete cracks;
- 4. Verification of the condition of the monitoring points;
- 5. Review of prior reports; and
- 6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Ms. Nancy Guevara under direct supervision of Mr. Gilbert Gedeon, PE of ATC, conducted the annual site inspections on May 28, 2015. During the inspection, ATC was accompanied by Mr. Lentini, the school's building manager.

2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by STV Incorporated dated August 22, 2013, Public School 281M contains engineering controls that include a Gas Vapor Barrier and a Sub-Slab Depressurization System (SSDS) constructed beneath the school to prevent residual soil gas vapors from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Gas Vapor Barrier

The gas vapor barrier was installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier was installed above the SSDS gas permeable aggregate (gravel) layer below the ground floor slab.

2.2 Sub-Slab Depressurization System

An SSDS was also installed beneath the school as an added precaution to prevent any soil gas vapors from entering the school building in the future. The primary component of the SSDS contains four (4) sub-slab suction pits, one (1) vertical riser connecting the pits to one (1) roof top fan and four (4) monitoring points.



3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of the Custodian's Inspection Logs

The following was discussed with Mr. Lentini:

- 1. The custodian's Monthly or Severe Condition Inspection Forms were prepared for the months of June 2014 through May 2015. ATC noted the hairline cracks observed by the custodial staff in rooms 100 and 101 and verified that they were surficial cracks and thus not a concern. As part of the annual inspection, ATC provided annual refresher training and advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. The monthly inspection forms and training acknowledgement letter are included in Attachments 1 and 2, respectively.
- 2. The Routine and Preventative Maintenance Checklist was not completed. ATC advised the custodian to continue performing preventative maintenance and completing the checklist on a semiannual basis.

3.2 **ATC's Visual Observations**

ATC conducted visual observations and photographic documentation while accompanied by Mr. Lentini. Site photographs are included in Attachment 3, the Annual Inspection Form is included in Attachment 4 and the Annual Monitoring Point Inspection Checklist is included in Attachment 5.

During the walkthrough inspection, ATC noted the following:

- The SSDS fan unit is operational and connected to the BMS;
- Monitoring point MP-1 is heavily rusted and the cover is missing all screws; and
- A spare fan unit is available at the school and stored in Room 509.

3.2.1 SSDS Vent Inspection

- 1. The flexible connector on the SSDS fan stack was observed to be cracked. Mr. Lentini advised ATC that it would be replaced in a week's time;
- 2. ATC did not observe rust or other debris in the vicinity of the posts and sleeves of the vent stacks associated with the SSDS fan units;
- 3. SSDS fan stack guy wires were in good condition;
- 4. SSDS fan mounting and vibration isolators were intact;
- 5. Motor housing was intact and exterior surfaces were clean; and
- 6. Bolts and set screws were tight.

3.2.2 Ground Floor Inspection

ATC inspected the accessible areas of the ground floors and walls. ATC did not observe any significant concrete cracks penetrating into the ground floor during the annual inspection. As noted in the custodian's monthly inspection logs, ATC did observe hairline cracks in Rooms 100



and 110. The custodian was advised that monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout.

ATC also checked the monitoring points associated with the SSDS system to verify their condition. ATC observed that monitoring point MP-1 was heavily rusted and the bolts on the cover were missing. All other monitoring points were observed to be in good condition.

ATC's observation of the ground concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC did not have access to the elevator pits.

3.2.3 Exterior Inspection

ATC inspected the perimeter of the property including paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The SSDS fan unit is operational and connected to the BMS;
- 2. The flexible connector on the SSDS fan stack is cracked;
- 3. The cover on monitoring point MP-1 is heavily rusted and the cover is missing all screws;
- 4. A spare fan is available in Room 509;
- 5. Engineering controls have not changed and appear to be effective; and
- 6. No changes have occurred that would reduce the ability of the controls to protect public health and the environment.

Based on document review and visual observations, ATC recommends the following:

- 1. Clear monitoring point MP-1 of the rust on the cover and replace missing screws;
- 2. Replace the cracked flexible connector on the SSDS fan stack;
- 3. The surficial cracks observed in Rooms 100 and 110 are not a concern; however, these cracks should be monitored during monthly inspections for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material; and
- 4. Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff.

5.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in



this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please contact us at (212) 353-8280.

Sincerely, *CARDNO ATC*



Gilbert Gedeon, PE Division Manager

cc: Y. Efstathiou N. Guevara





Attachment 1 Custodian Monthly or Severe Condition Inspection Forms

Custodian Monthly or Severe Condition Inspection Form Vapor Barrier and SSDS Inspection Date/Time: 6 /9 PREND: Inspection Date/Time: 6 /9 /9 Purpose: (circle one) Monthly Inspection Severe Condition Inspection					
Walk the entire basement floor					
* Any visible cracks in the basement floor?	NO				
* Any visible cracks in the basement wall?	NO				
* Any other visible operings (unintended) in either the floor or waits?	NO				
Any construction activities in basement affecting basement floor/ watts7	NO	`			
 Notification of DSF is required if cracks are noted. Include the following i Draw approximate location of floor and/or wall cracks/openings on site i Note the length of the crack/opening. Note the width of the crack/opening. 	map,				
Walk the entire roof surface.					
* Any rust or other debris (bird nest, etc.) in or on SSDS Vent Stack #1?	NO				
* Any rust or other debris in or on SSDS Vent Stack #2?	NO				
* Are any SSDS fan units functioning at a lower air flow than other Vent Sta	cks?				
as pare fan unit avallable in the school?	485				
		-			
Inspector's Signature:					

-	Vapor Barrier and SSDS					
ŀ	Inspector's Name: GRY PREN): Inspection OnterTime: 2-9-14					
١	Inspection CaterTime: 2-9-14					
E	Purpose: (circle one) Monthly Inspection Sovere Condition Inspection					
		Yes/No*	Notified Person / Date			
ŀ	1. Walk the entire basement floor					
ľ	Any visible cracks in the basement floor?	LO .				
ŀ	Any visible creates in the basement wall?	No				
•	 Any other visible openings (unintended) in either the floor or walls? 	NO				
1	* Any construction activities in basement affecting basement floor/walls?	NO	,			
	Notification of DSF is required if cracks are noted, include the following information: Draw approximate location of floor and/or walj cracks/openings on site map. Note the length of the crack/opening. Note the width of the crack/opening.					
	Walk the entire roof surface.					
-	* Any rust or other debris (bird nest, etc.) In or on SSDS Vent Stack #1?	w				
	* Any rust or other delaris in or on SSDS Vent Stack #2?	10				
	* Are any SSDS fan units functioning at a lower air flow than other Vent Stacks?	NO				
-	tis a spare fan unit available in the school?	785				
	_					
			· · · · · · · · · · · · · · · · · · ·			
ľ	Inspector's Signature:					

	Inspector's Name: GREY FREND! Inspection Date/Time: 8-11-14		
	Inspection Date/Time: 8 - 1 - 4 Purpose: (circle one) Monthly Inspection Severe Condition Inspection		
		Yes/No°	Notified Person / Date
	1. Walk the entire basement floor		
	* Any visible cracks in the basement floor?	10	
-	* Any visible creaks in the basement wait?	NO	
	Any other visible openings (unintended) in either the floor or walls?	NO	
	Any construction activities in basement affecting basement floor/ walls?	100	
	 Notification of DSF is required if cracks are noted. Include the following information: Draw approximate location of floor and/or wall cracke/openings on site map. Note the length of the crack/opening. Note the width of the crack/opening. 		
	Walk the entire roof surface.		
Į	* Any rust or other debris (bird nest, etc.) in or on SSDS Vent Stack #1?	w	,
	* Any rust or other debris in or on SSOS Vent Stack #2?	NO	
	* Are any SSDS fan units functioning at a lower air flow than other Vent Stacks?	NO	
	Are any SSDS fan units functioning at a lower air flow than other Vent Stacks? Is a spare fan unit available in the school?	NO 925	

	Inspection Date/Time: 9/2014		
	Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (descri	be)
		Yes / No *	Notified Person / Date
NO	Walk the entire basement floor.		
ECT	* Any visible cracks in the floor or subgrade walls?	yes	5(A
INSP	* Any other visible openings (unintended) in the floor or subgrade walls?	NO	
RIER	* Any construction activities affecting the floor or subgrade walls?	PO	
BAR	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening.		`
	Walk the entire roof surface and check the SSDS risers at basement level.		
NOIT	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
PEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
B. SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
SSD	* Is the spare fan unit present/available at the school?	yes	
rci	(if NO, contact DOE DHS to ensure a replacement fan is made available) * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	40	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
	Vacuum		
	in WC Date taken:		
SF-2:	in WC Date taken:		
SSDS Rise	er Measurements:		
	Vaccum Flow		25
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	ig WC / VR-2:	CFM	Date taken:
lnone start	Simpleman		
mspectors	s Signature:		

		Yes / No *	Notified Person / Date
NO	Walk the entire basement floor.		
ECT	* Any visible cracks in the floor or subgrade walls? hairlise M	ues	SCA
NSW.	* Any other visible openings (unintended) in the floor or subgrade walls?	50	JCA.
RER	* Any construction activities affecting the floor or subgrade walls?	40	
BAR	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening.		`
	Walk the entire roof surface and check the SSDS risers at basement level.		
Į.	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	40	
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	100	
B. SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	70	1
B. SS	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	yes	
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	50	
C. ACTIONS TAKEN			
SDS Fan	Measurements:		
SF-1:	Vacuum in WC Date tak	on.	
		en: en:	
		J	
SDS Rise	vaccum Flow		
VR-1:	in WC	CFM D	ate taken:

	Inspection Date/Time: \\\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/	Inspection (describe)
		Yes / No *	Notified Person / Date
3	1. Walk the entire basement floor.		
ECT	* Any visible cracks in the floor or subgrade walls?	yes	SCA
INSP	* Any other visible openings (unintended) in the floor or subgrade walls?	No	
RER	* Any construction activities affecting the floor or subgrade walls?	NO	
BAR	* Any visible cracks in any accessible pits?	70	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 		`
50	Walk the entire roof surface and check the SSDS risers at basement level.	(0000)	
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
PEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	00	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	100	
	Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	105	
αi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	1501	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
	Vacuum		
		taken:	
57-2:	in WC Date to	taken:	
	or Measurements: Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
Inspector	s Signature:		
	4 //		

	Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (descri	be)	
		Yes / No *	Notified Person / Date	
NO	Walk the entire basement floor.			
PECT	* Any visible cracks in the floor or subgrade walls?	Ves	SCA	
SINS	* Any other visible openings (unintended) in the floor or subgrade walls?	00		
RRIEF	* Any construction activities affecting the floor or subgrade walls?	100		
BAR	* Any visible cracks in any accessible pits?	40		
A. VAPOR BARRIER INSPECTION	 ** Notification of DOE EHS is required if cracks are noted. include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length and width of the crack/opening. 			
0.24	Walk the entire roof surface and check the SSDS risers at basement level.			
NOIT	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	00		
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	20		
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	40		
B. SSI	 Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	ves		
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	50		
C. ACTIONS TAKEN				
SSDS Fan	Measurements:			
	Vacuum			
SF-1:in WC Date take				
SF-2:	in WC Date taken:	- 1117-1711-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
SSDS Rise	or Measurements:		,	
	Vaccum Flow			
	in WC VR-1:	CFM	Date taken:	
VR-2:	in WC VR-2:		Date taken:	
Inspector's Signature:				

	Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (descrii	be)
		Yes / No *	Notified Person / Date
ION	1. Walk the entire basement floor.		
ECT	* Any visible cracks in the floor or subgrade walls?	ves	SA
INSF	* Any other visible openings (unintended) in the floor or subgrade walls?	100	
RIER	* Any construction activities affecting the floor or subgrade walls?	NO	
BAR	* Any visible cracks in any accessible pits?	70	
A. VAPOR BARRIER INSPECTION	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map Note the length and width of the crack/opening.		
740	Walk the entire roof surface and check the SSDS risers at basement level.		
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	20	,
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	<i>NO</i>	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
B. SSÍ	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	VCS	
u l	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
	Vacuum		
SF-1:	in WC Date taken:		
SF-2:	in WC Date taken:		
SSDS Rise	er Measurements:		
	Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	ig/WC VR-2:	CFM	Date taken:
Inspectors	s Signature:		

		Yes / No *	Notified Person / Date
8	1. Walk the entire basement floor.		
INSPECT	* Any visible cracks in the floor or subgrade walls? Paiclise Al	US	C6 A
	* Any other visible openings (unintended) in the floor or subgrade walls?	1 100	
RIER	* Any construction activities affecting the floor or subgrade walls?	NO	
BAR	* Any visible cracks in any accessible pits?	100	
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening.		
	Walk the entire roof surface and check the SSDS risers at basement level.		
TIO	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
SPEC	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	100	
B. SSC	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	Jac S	
ш	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	60	
KEN			
e C. ACTIONS TAKEN	Measurements:		
ပ	Measurements:		
ပဲ DS Fan SF-1:	Vacuum in WC Date taker	1:	
ပဲ DS Fan SF-1:	Vacuum in WC Date taker		
OS Fan SF-1: SF-2:	Vacuum in WC Date taker in WC Date taker	1:	
OS Fan SF-1: SF-2:	Vacuum in WC Date taker	1:	
OS Fan SF-1: SF-2: OS Rise	in WC Date taken in WC Date taken er Measurements:	1:	Date taken:

		Yes / No *	Notified Person / Date			
ION	1. Walk the entire basement floor.					
ECT	* Any visible cracks in the floor or subgrade walls?	VC5				
INS.	* Any other visible openings (unintended) in the floor or subgrade walls?	100				
RER	* Any construction activities affecting the floor or subgrade walls?	00				
BAR	* Any visible cracks in any accessible pits?	vo				
A. VAPOR BARRIER INSPECTION	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map Note the length and width of the crack/opening.					
	Walk the entire roof surface and check the SSDS risers at basement level.					
NO!	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	SO	· · · · · · · · · · · · · · · · · · ·			
PEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	100				
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	100				
B. SSL	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	465				
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	1.0				
G C. ACTIONS TAKEN	Measurements:					
	Vacuum					
	in WC Date taken					
SF-2:	in WC Date taker	1:	y y y y y y y y y y y y y y y y y y y 			
SDS Rise	er Measurements:					
	Vaccum Flow					
VR-1:	in WC VR-1:	_CFM _ C	Date taken:			
VR-2:	in WC VR-2:	_CFM C	Date taken:			
	//_/ /					

	Inspection Date/Time: Purpose: (circle one)	4/2015 Monthly Ins	spection Seve	ere Condition Inspe	ection (descri	be)
			<u>ii </u>		Yes / No *	Notified Person / Date
ON	1. Walk the entire baseme	nt floor.				
ECTI	* Any visible cracks in the	floor or subgrade v	valls?	live al	186	CCA
INSP	Any other visible opening	gs (unintended) in t	he floor or subgrade walls	(1)	(V)	367
KER.	* Any construction activities	es affecting the floo	r or subgrade wails?		50	
3ARF	* Any visible cracks in any	accessible pits?			10	
A. VAPOR BARRIER INSPECTION	Notification of DOE EH Include the following in Draw approximate loc Note the length and w	formation: ation of floor/wall o	racks/openings on site map).		`
	Walk the entire roof sui			nt level.		
<u>8</u>	* Any rust or other debris (b	ird nest, etc.) in or	on SSDS Exhaust Stacks?		NO	
PEC	* Are SSDS fan units function		cuum than the previous ins	pection?	1,507	
SSDS INSPECTION	(record vacuum measurements below) Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)			100		
B. SSC	Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)			425		
	* Are any lights out on the S	SDS Monitoring Sys	stem (Light panel)? Which	one(s)?	60	
C. ACTIONS TAKEN						
SSDS Fan	Measurements:					
	Vacuum					
SF-1:		in WC		Date taken	:	
SF-2:		in WC		Date taken:		
SSDS Rise	er Measurements:					
	Vaccum		Flow			
VR-1:		in WC	VR-1:		CFM	Date taken:
VR-2:		in WC	VR-2:		_CFM	Date taken:
Inspector's	s Signature:	Am				

		Yes / No *	Notified Person / Date
A. VAPOR BARRIER INSPECTION	Walk the entire basement floor.		
	* Any visible cracks in the floor or subgrade walls?	Ves	SCA
	* Any other visible openings (unintended) in the floor or subgrade walls?	10	
	* Any construction activities affecting the floor or subgrade walls?	NO	
BAF	* Any visible cracks in any accessible pits?	NO	
A. VAPOR	** Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map. - Note the length and width of the crack/opening.		,
	Walk the entire roof surface and check the SSDS risers at basement level.		
NOL	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	40	
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
B. SS	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	VES	
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	20	
C. ACTIONS TAKEN	Measurements:		
SF_1·	in WC Date taken:	5/2	3/10
		7 - 247	
DS Rise	er Measurements:		
	Vaccum Flow		
VR-1:			Pate taken:
	in WC VR-2:		





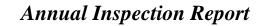
Attachment 2 Training Acknowledgement



104 East 25th St, 10th Floor New York, NY 10010-2917 www.cardnoatc.com 212-353-8280 Fax 212-353-8306

Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Custodian/Fireman: Juseph Loutini
I, Joseph Leuring, received annual refresher training on Engineering Controls Operation and Maintenance by Cardno ATC on 5\38\15. As part of the annual refresher training I conducted a walkthrough with Cardno ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion of the daily logs and monthly inspection form.
Signed by: Custodian/Fireman Date: 5\28\15
Recommendations:
 Monitoring point MP-1 in Room X2 missing screws, need replacement Flexible connector (Vibration isolator) observed to be
be replaced in kind.
- Continue conducting monthly inspections and





Attachment 3 Photographic Documentation



Photo 1: View of BMS indicating flow associated with fan unit SSDS-1.



Photo 3: View of operational SSDS fan unit on the roof.



Photo 5: View of cracked flexible connector on the SSDS fan stack.



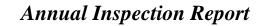
Photo 2: View of spare fan unit stored in Room 509.



Photo 4: View of vacuum gauge associated with SSDS fan unit.



Photo 6: View of typical monitoring point in Room 114A.

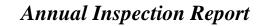




Attachment 4 Annual Inspection Form

P.S./I.S. 281M ANNUAL INSPECTION FORM

otion Date:	Cy GUEVAUVA	Weather Conditions: Air Temperature (°F):	COL
ection Date:	5/25/13		
ection Time:			
ments:			
PRE INSPECTION CH	CKLIST		
<i>[</i> ,			
./	ection when school is not occupied by stude	ents.	
/	onthly Inspection Checklists.		
// Meet with Custodial E. /over the last 12 month	ngineer and Principal to solicit comments/co	oncerns regarding the operation (or the Engineering Controls
/	sher Training with DOE EHS.		
. /	rotocols including lockout/tagout.		
Comments: A	N		
55,1115,15	7		
<u> </u>			
SSDS SYSTEM INSPE			
Walk the entire roof s	urface of school building amd check	SSDS risers at basement I	
* Inspect fan stack guy	1 / /	ht	1
	nts (look for obstructions, check manhole/b		-1 (Com X2) MIS
Record vacuum gaugi decreases in flow/vac	e and flowmeter readings on riser pipes and uum.		
* Ensure all SSDS acce	ssories listed in section 15880 are function	ing properly PXIDE	Connector oracre
Inspect bolts and set	screws for tightness and rusty condition.		
Inspect SSDS fan for	cleanliness. Clean exterior surfaces only.	Remove dust and grease on mot	or housing,
Are the indicator lights	on the Building Management System func	tioning properly? UES	
* is the spare fan unit p	resent/available at the school?	s loum	509
Comments (see or hear a	inything unusual?): n In 900 d Conc	lition	
VAPOR BARRIER INS	PECTION		
/ Walk all of the basem	ent floor		
* Review all cracks or o	ther openings identified in first floor during	previous inspections.	
* Any new visible crack	s in the floor?		
* Any new visible open	ng (unintended) in the floor? N O		
* Any new visible crack	s in accessible pits?		
Note the length of any	new cracks/openings in the floor.	V/A	
Draw approximate loc	ation of floor cracks/openings that appear t	have potential leak through var	oor barrier
Comments:	ine cracks i	h Rooms	100 9 101
I. IVel V		THE THE WAY AND THE	5 21-3
REPAIR			
	leted repairs to Engineering Controls:		
1. MPIIn	Room X2 is n	isted of miss	ing Screws on cov
	connector on		
oc. TICA		113V	The character





Attachment 5 Annual Monitoring Point Inspection Checklist

P.S/I.S. 281M ANNUAL MONITORING POINT INSPECTION CHECKLIST

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts intact?	Comments
MP-1	Ground Storage	Y (N)	Y (N)	MISSING SCIEWS
MP-2	Compressor Room	Y (N)	YN	Rm IIID
MP-3	Fire Pump Room	Y(N)	Y/N	Rm 100
MP-4	Water Service	Y (N)	YN	Rm 114A

Inspect all monitoring point locations for obstructions; check the manhole covers/bolts and quick connections inside the manhole.

ANNUAL INSPECTION REPORT KIPS BAY (PUBLIC SCHOOL 281M) 425 EAST 35TH STREET NEW YORK, NY 10016

PREPARED FOR:



New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101

PREPARED BY:

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING
104 East 25th Street, 10th Floor
New York, New York
10010-2917

Date of Issue: November 11, 2016 ATC Project No. Z214YI0440



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PROJECT DIRECTORY

OWNER/CLIENT: New York City Department of Education

Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PROJECT LOCATION: Kips Bay (Public School 281M)

425 East 35th Street New York, NY, 10016

PROJECT TECHNICAL SUPPORT New York City School Construction Authority

30-30 Thomson Avenue

Long Island City, New York 11101

STV Incorporated

225 Park Avenue South

New York, New York 10003

DESCRIPTION OF WORK: Review O&M plan and prior reports; review

custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Nancy Guevara, Inspector

Husam Zeidan, Inspector



EXECUTIVE SUMMARY

ATC Group Services, LLC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Gas Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at Kips Bay (Public School 281M) located at 425 East 35th Street New York, NY, 10016 on August 25, 2016.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Form was prepared for June 2015, however, forms were not prepared for the months of July 2015 through July 2016 due to a change in custodial staff. ATC completed the monthly form for August 2016 with the new custodian during the annual inspection. In addition, the Routine and Preventative Maintenance Checklist was not completed. ATC observed that the SSDS fan unit was operational. The flexible connector on the fan stacks that was observed to be cracked in last year's inspection has been repaired. ATC also observed that the Building Management System (BMS) is functional and connected to the SSDS. ATC did not observe any significant cracks in the ground floor. However, ATC observed surficial hairline cracks in Rooms 100 and 110. A spare fan unit was available at the school in Stair Bulkhead Room 712A. Monitoring points MP-3 and MP-4 were checked and found to be in good condition. MP-1 was observed to be heavily rusted and missing all screws on the cover. In addition, MP-2's cover was missing screws.

Based on the aforementioned, ATC concludes that the Engineering Controls have not changed and appear to be effective, and no changes have occurred that would reduce the ability of the controls to protect public health and the environment. However, monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff. Even though hairline cracks in Rooms 100 and 110 are not a concern, ATC advised the custodian that any significant cracks observed during the monthly inspections should be sealed with patching cement or grout. Additionally, monitoring points MP-1 and MP-2 should be clear of any rust obstruction and the covers should be securely tightened. These recommendations were brought to the attention of the custodial staff as part of the refresher training.



1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to Kips Bay (Public School 281M) located at 425 35th Street, New York, NY, 10016. The school is currently attended by approximately 80 students. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

- 1. Review of the school custodian's inspection logs indicating his routine walk-through to identify any observed changes to the interior surfaces and roof mounted fan units;
- 2. SSDS roof vent inspection;
- 3. Ground floor inspection and exterior inspection for concrete cracks;
- 4. Verification of the condition of the monitoring points;
- 5. Review of prior reports; and
- 6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Ms. Nancy Guevara and Mr. Husam Zeidan under direct supervision of Mr. Gilbert Gedeon, PE of ATC, conducted the annual site inspections on August 25, 2016. During the inspection, ATC was accompanied by Mr. Robert Ramos, the school's building manager.

2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by STV Incorporated dated August 22, 2013, Public School 281M contains engineering controls that include a Gas Vapor Barrier and a Sub-Slab Depressurization System (SSDS) constructed beneath the school to prevent residual soil gas vapors from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Fluid Applied Gas Vapor Barrier

The gas vapor barrier was installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier was installed above the SSDS gas permeable aggregate (gravel) layer below the ground floor slab.

2.2 Sub-Slab Depressurization System

An SSDS was also installed beneath the school as an added precaution to prevent any soil gas vapors from entering the school building in the future. The primary component of the SSDS contains four (4) sub-slab suction pits, one (1) vertical riser connecting the pits to one (1) roof top fan and four (4) monitoring points.



3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of the Custodian's Inspection Logs

The following was discussed with Mr. Ramos:

- 1. The custodian's Monthly or Severe Condition Inspection Form was prepared for June 2015, however, forms were not prepared for the months of July 2015 through July 2016 due to a change in custodial staff. ATC completed the monthly form for August 2016 with the new custodian during the annual inspection. ATC provided annual refresher training and advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. The monthly inspection forms and training acknowledgement letter are included in Attachments 1 and 2, respectively.
- 2. The Routine and Preventative Maintenance Checklist was not completed. ATC advised the custodian to continue performing preventative maintenance and completing the checklist on a semiannual basis.

3.2 ATC's Visual Observations

ATC conducted visual observations and photographic documentation while accompanied by Mr. Ramos. Site photographs are included in Attachment 3, the Annual Inspection Form is included in Attachment 4 and the Annual Monitoring Point Inspection Checklist is included in Attachment 5.

During the walkthrough inspection, ATC noted the following:

- The SSDS fan unit is operational and connected to the BMS;
- Monitoring points MP-1 and MP-2 are heavily rusted and the cover is missing all screws;
 and
- A spare fan unit is available at the school and stored in Stair Bulkhead Room 712A.

3.2.1 SSDS Roof Vent Inspection

- 1. The flexible connector on the SSDS fan stack that was observed to be cracked during last year's inspection has been repaired;
- 2. ATC did not observe rust or other debris in the vicinity of the posts and sleeves of the vent stacks associated with the SSDS fan units;
- 3. SSDS fan stack guy wires were in good condition;
- 4. SSDS fan mounting and vibration isolators were intact;
- 5. Motor housing was intact and exterior surfaces were clean; and
- 6. Bolts and set screws were tight.



3.2.2 Ground Floor Inspection

ATC inspected the accessible areas of the ground floors and walls. ATC did not observe any significant concrete cracks penetrating into the ground floor during the annual inspection. As noted in the custodian's monthly inspection logs, ATC did observe hairline cracks in Rooms 100 and 110. The custodian was advised that monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout.

ATC also checked the monitoring points associated with the SSDS system to verify their condition. ATC observed that monitoring points MP-1 and MP-2 were heavily rusted and the bolts on the covers were missing. All other monitoring points were observed to be in good condition.

ATC's observation of the ground concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC did not have access to the elevator pits.

3.2.3 Exterior Inspection

ATC inspected the perimeter of the property including paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The SSDS fan unit is operational and connected to the BMS;
- 2. The cover on monitoring points MP-1 and MP-2 are heavily rusted and the covers are missing all screws;
- 3. Surficial cracks were observed in Rooms 100 and 110;
- 4. A spare fan is available in Stair Bulkhead Room 712A;
- 5. Engineering controls have not changed and appear to be effective; and
- 6. No changes have occurred that would reduce the ability of the controls to protect public health and the environment.



Based on document review and visual observations, ATC recommends the following:

- 1. Clear monitoring points MP-1 and MP-2 of the rust on the covers and replace missing screws;
- 2. The surficial cracks observed in Rooms 100 and 110 are not a concern; however, these cracks should be monitored during monthly inspections for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material; and
- 3. Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff.

5.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please contact us at (212) 353-8280.

Sincerely, ATC GROUP SERVICES, LLC



Gilbert Gedeon, PE Principal Engineer

cc: Y. Efstathiou N. Guevara





Attachment 1	
Custodian Monthly or Severe Condition Inspection Forn	ns

P.S./I.S. 281M MONTHLY/SEVERE CONDITION INSPECTION FORM

			Yes / No *	Notified Person
NOI	Walk the entire basement floor.			
<u> </u>	* Any visible cracks in the floor or subgrade walls	s?	70	
IS NE	* Any other visible openings (unintended) in the	ficor or subgrade walls?	10	
RE	 Any construction activities affecting the floor or 	subgrade walls?	NO	
BAR	* Any visible cracks in any accessible pits?		20	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks a Include the following information; Draw approximate location of floor/wall crack Note the length and width of the crack/openia 	s/openings on site map.		
	Walk the entire roof surface and check the S			
TION	* Any rust or other debris (bird nest, etc.) in or on S	SSDS Exhaust Stacks?	NO	
SSDS INSPECTION	 Are SSDS fan units functioning at a lower vacuur (record vacuum measurements below) 		NO	
DS II	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)			
B. SS	Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)			***************************************
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?			
C. ACTIONS TAKEN				
SDS Fan	Measurements:			
	Vacuum			
SF-1:	in WC	Date	taken:	
SF-2:	in WC	Date	taken:	
SDS Rise	r Measurements:			
	Vaccum	Flow		
V/D_4+	in WC	VR-1:	CFM 6	Date taken:
VIX-17	in WC		CFM [Date taken:

P.S./I.S. 281M MONTHLY/SEVERE CONDITION INSPECTION FORM

		Yes / No *	Notified Person / Date
NO.	1. Walk the entire basement floor.	Vies	
PECT	* Any visible cracks in the floor or subgrade walls?	Yus	har line/110.
IS N	* Any other visible openings (unintended) in the floor or subgrade walls?	NO	
RIER	* Any construction activities affecting the floor or subgrade walls?	No	
BAR	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	** Notification of DOE EHS is required if cracks are noted, Include the following information: - Draw approximate location of floor/wall cracks/openings on site map Note the length and width of the crack/opening.	N/A	
	Walk the entire roof surface and check the SSDS risers at basement level.	Yes	
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	100	
II SQ	 * Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below) 	NO	
B. SS	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	Yes	712 A 2000
ш	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	No	
C. ACTIONS TAKEN			
DS Fan	Measurements:		
	Vacuum	. /	1.
		: 8/25	166.
SF-2:	in WC Date taken	*	
DS Rise	r Measurements:		
	Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:





Attachment 2 Training Acknowledgement



Location:

104 East 25th St, 10th Floor New York, NY 10010-2917 www.cardnoatc.com 212-353-8280 Fax 212-353-8306

Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Custodian/Fireman: Los to Lanes
I, Mascriet and, received annual refresher training on Engineering Controls
Operation and Maintenance by ATC Group Services, LLC (ATC) on 8/25/6. As part of
the annual refresher training I conducted a walkthrough with ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion
of the daily logs and monthly inspection form.
of the daily logs and monthly inspection form.
Signed by: Date: 8/25/k Custodian/Fireman
Signed by: Date: 8/23/1/ Custodian/Fireman
Recommendations:
1. Replace missing bolts in MP-I and MP-2 well
covers in Room IIID and Ground Storage room
2. Patch hairline cracks observed in Rooms
100 and 110 with cement/grout.
2. Continue conducting monthly inspections
a completing monthly forms.





Attachment 3 Photographic Documentation



Photo 1: View of BMS indicating flow associated with fan unit SSDS-1.



Photo 2: View of spare fan unit stored in Stair Bulkhead Room 712A.



Photo 3: View of operational SSDS fan unit on the roof.



Photo 4: View of vacuum gauge associated with SSDS fan unit.



Photo 5: View of typical bare concrete floor in Room 100.



Photo 6: View of typical monitoring point in Room 100.





Attachment 4 Annual Inspection Form

P.S./I.S. 281M ANNUAL INSPECTION FORM

Inspector's Name: Wanny Fei day Nancy Grevara Weather Conditions: 50 nny
Inspection Date: 8/25/16 Air Temperature (°F): 90°
Inspection Time:
Comments:
A. PRE INSPECTION CHECKLIST
A. The more distriction
Schedule Annual Inspection when school is not occupied by students.
* Review 12 Previous Monthly Inspection Checklists.
* Meet with Custodial Engineer and Principal to solicit comments/concerns regarding the operation of the Engineering Controls
over the last 12 months * Conduct Annual Refresher Training with DOE EHS.
* Follow proper safety protocols including lockout/tagout.
Tollow proper salety pretenting testing testin testing testing testing testing testing testing testing testing
comments: Met Roberto Ramos-Building Managersince March 2016
B. SSDS SYSTEM INSPECTION
Walk the entire roof surface of school building amd check SSDS risers at basement I
* Inspect fan stack guy wires.
* Inspect monitoring points (look for obstructions, check manhole/bolts, quick connects). MP-1 &MP-2 missing bolts
* Record vacuum gauge and flowmeter readings on riser pipes and SSDS fans (as applicable); review monthly data to check for
decreases in flow/vacuum. ** Ensure all SSDS accessories listed in section 15880 are functioning properly.
* Inspect bolts and set screws for tightness and rusty condition.
* Inspect SSDS fan for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing,
* Are the indicator lights on the Building Management System functioning properly? Ues
* Is the spare fan unit present/available at the school? UPS ROOM 712 A
Comments (see or hear anything unusual?):
C. VAPOR BARRIER INSPECTION /Walk all of the basement floor 485
Review all cracks or other openings identified in first floor during previous inspections.
* Any new visible cracks in the floor? NO
* Any new visible opening (unintended) in the floor? * Any new visible cracks in accessible pits? * Any new visible cracks in accessible pits?
Note the length of any new cracks/openings in the floor. * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier
comments: hair line cracks 1200m 100 and 110.
D. REPAIR
Summarize needed/completed repairs to Engineering Controls:
1. Keplace missing bolts on cover of MPI and MP-1
1. Replace missing bolts on cover of MPI and MP-2. 2. Hairline cracks in Rooms 100 4 110 should be putched with coment/0
Inspector's Signature:





Attachment 5 Annual Monitoring Point Inspection Checklist

8/25/16

P.S/I.S. 281M ANNUAL MONITORING POINT INSPECTION CHECKLIST

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts intact?	Comments
MP-1	Ground Storage	Y/N	Y / N	missing bolts on cover
MP-2	Compressor Room	Y /N	Y / N	missing bolts oncover
MP-3	Fire Pump Room	Y/N	Y / N	
MP-4	Water Service	Y /N	Y / N	

Inspect all monitoring point locations for obstructions; check the manhole covers/bolts and quick connections inside the manhole.

1



Attachment 6 Inspection Documents by Other Consultants



Submittal Review

Prepared by: Robert Fields, STV Page 1 of 1 12-21-15

Project

PS/IS 281 Kips Bay SCA Project ID: 051114

Submission

Submittal: SSDS PE Certification Report

02221, 1.05-L & 3.01

Specification location: Submission date:

12/18/15

Copies:

electronic

The submission includes a Certification Letter dated November 12, 2015 and Field Inspection Reports completed and signed by the GC's Professional Engineer (PE) for the Sub-slab Depressurization System (SSDS). Though STV was the designer of the SSDS, the GC's PE is required to provide oversight of the installation and testing in accordance with the milestone inspection schedule specified in Article 3.01. It is understood that the GC's PE witnessed and supervised the tests which demonstrated installation of SSDS for preventing intrusion of vapors into the entire new construction, as required by Section 02221.

Specific actions are as follows:

Submittal Review Action

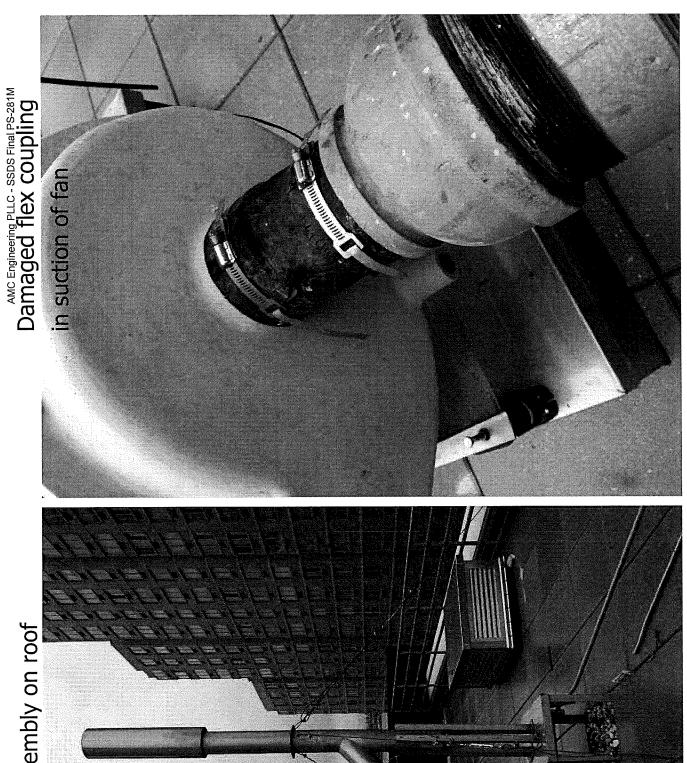
02221 - Licensed Professional Engineer Certification Report

Approved as noted 1

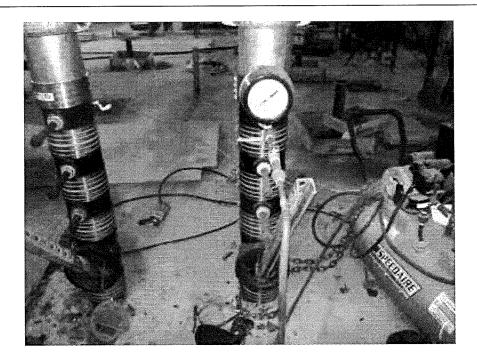
Notes:

1. Field Inspection Report dated 11/10/15 reports damage to the flexible connection from the rooftop exhaust duct to the suction fan. This issue will be reported to the DOE EHS so arrangements for appropriate repairs can be made.

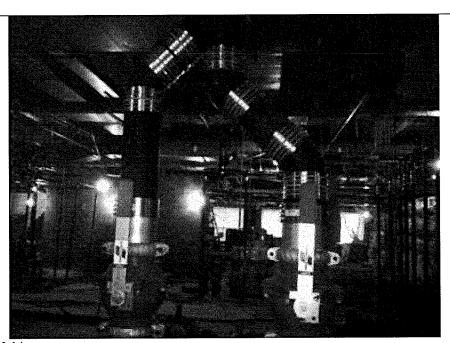
Field in	nspection Report for SSDS:
Project	t Location: PS-281M
Inspect	tion Location: FINAL INSPECTION / AS BUILT
Date 11	/10/2015
Weath	er: RAINY, 58 f
1.	Compliance with installation details: COMPLIES EXCEPT AS NOTED
2.	Compliance with materials of construction:
3.	Description of Risers: COMPLIES - AT TIME OF INSPECTION ALL RISERS HAD BEEN CONCEALED
4.	Compliance with Blower installation: COMPLIES, EXCEPT AS NOTED
5.	Compliance with pipe hangers:
6.	Completion of all components of SSDS:
Area o	f this inspection:sf
Comm	ents:
	CTED A FINAL INSPECTION: SCOPE WAS TO SEE SYSTEM OPERATING, SEE SPARE FAN, AND OBSERVE INSTALLED
FANS. IN	ISPECTION WITNESSED BY JOE LENTINI, THE SCHOOL'S SUPERINTENDENT. INSPECTED STUBOUT AS SEEN
FROM TH	HE INSPECTION PORT. INSPECTED FAN INSTALLATION. NOTED THAT FLEXIBLE CONNECTION CONNECTED TO
	TION OF THE FAN HAD SIGNS OF WEAR AND AGING. MUST BE REPLACED SO THAT SYSTEM OPERATES MORE EFFICIENTLY.
	S OPERATING. SPACE FAN WAS IN STORAGE. OBSERVED ONE MONITORING POINT. ALL OTHERS WERE CONCEALED,
	NILABLE FOR INSPECTION. VACUUM WAS NOT MEASURED.
	ED COMPUTER IN SUPER'S OFFICE. HE SHOWED THE SSDS SYSTEM DISPLAYED AND THE ALARM SYSTEM. NOT
-	THE ALARM CONDITION.
	PECTED ELEMENTS CONFORM WITH DESIGN.
Inspect	tion by ARIEL CZEMERINSKI



Fan assembly on roof



Risers Take off



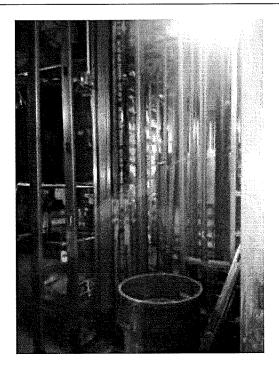
Risers Manifold



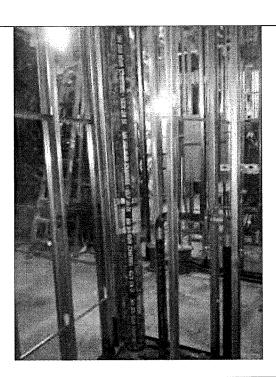
FIELD PHOTOGRAPH PS-281M

Date: 11/14/12

By AMC Engineering PLLC 516 417-8588



Riser 3rd Floor



Riser 4th Floor

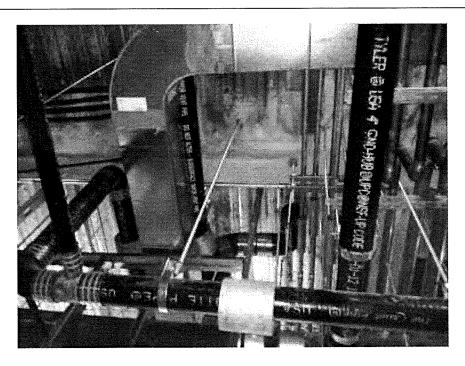


FIELD PHOTOGRAPH PS-281M

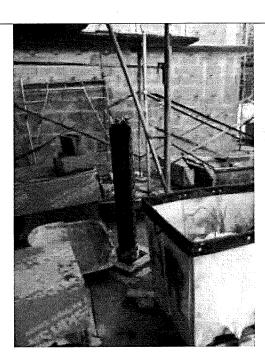
Date: 11/14/12

By AMC Engineering PLLC 516 417-8588

11/12



Riser 5th Floor – Roof Penetration



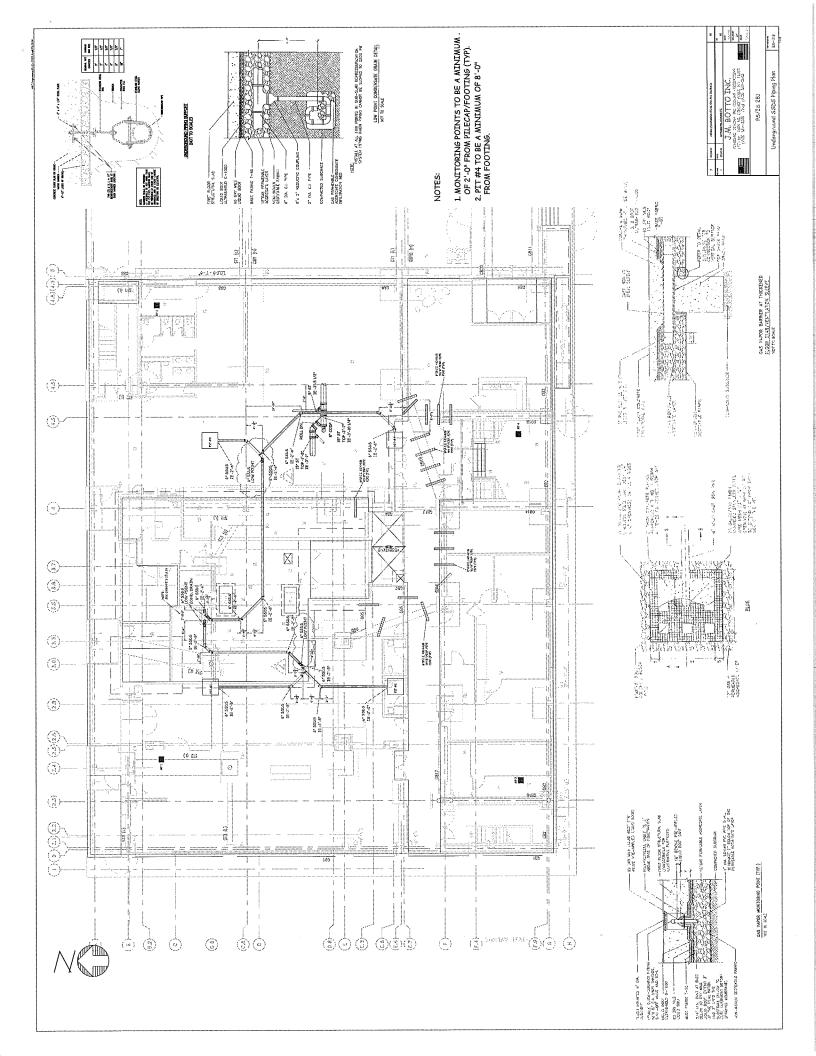
Riser - Roof



FIELD PHOTOGRAPH PS-281M

Date: 11/14/12

By AMC Engineering PLLC 516 417-8588



Field inspection Report for SSDS:
Project Location: PS-281
Inspection Location: SSDS Pipe, lines (2.9-3.4)-(C.5-E.6)
Date <u>2/8/12 - 7:00 am</u>
Weather: Sunny, windy, 28 F
1. Compliance with installation details: pipe, drain, slopes and sub-base complies with details
2. Compliance with materials of construction:
3. Description of Risers:
4. Compliance with Blower installation:
5. Compliance with pipe hangers: stainless steel hangers partially intalled
6. Completion of all components of SSDS: not complete
Area of this inspection:sf Comments:
Inspected the SSDS pipe installation for compliance to LLW No 051114, spec. 02221, item 3.01A #1,2 and partially #3, 5.
Inspected pipes were compliant. Pipes were leaded together with hub connections. hangers every 5 ft and on every bend.
Pits not complete.
Subbase largely installed.
Inspected pipe ready to be covered with stone as per plans and specs.
Monitoring points: not installed
Inspection by Ariel Czemerinski

ANNUAL INSPECTION REPORT KIPS BAY (PUBLIC SCHOOL 281M) 425 EAST 35TH STREET NEW YORK, NY 10016

PREPARED FOR:



New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101

PREPARED BY:

ENVIRONMENTAL · GEOTECHNICAL
BUILDING SCIENCES · MATERIALS TESTING
104 East 25th Street, 10th Floor
New York, New York 10010-2917

Date of Issue: April 24, 2018

ATC Project No. Z214YI0949



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PROJECT DIRECTORY

OWNER/CLIENT: New York City Department of Education

Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PROJECT LOCATION: Kips Bay (Public School 281M)

425 East 35th Street New York, NY, 10016

PROJECT TECHNICAL SUPPORT New York City School Construction Authority

30-30 Thomson Avenue

Long Island City, New York 11101

STV Incorporated

225 Park Avenue South New York, New York 10003

DESCRIPTION OF WORK: Review O&M plan and prior reports; review

custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Gilbert Gedeon, Principal Engineer



EXECUTIVE SUMMARY

ATC Group Services, LLC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Gas Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at Kips Bay (Public School 281M) located at 425 East 35th Street New York, NY, 10016 on April 24, 2018.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Forms were prepared from September 2016 to April 2018. However, the Routine and Preventative Maintenance Checklist was not completed. ATC observed that the SSDS fan unit was operational. ATC also observed that the Building Management System (BMS) is not functional. ATC did not observe any significant cracks in the ground floor except for surficial hairline cracks in Rooms 100, 110 and 111D. A spare fan unit was available at the school in Stair Bulkhead Room 712A. All four (4) monitoring points were checked and found to be in good condition. However, MP-1 and MP-2 well caps were missing screws.

ATC revisited the site on May 8, 2018 to conduct a smoke test on the hairline crack located in Rooms 100, 110 and 111D. The results of the smoke test indicated no potential vapor barrier leaks through the hairline crack.

Based on the aforementioned, ATC concludes that the Engineering Controls have not changed and appear to be effective, and no changes have occurred that would reduce the ability of the controls to protect public health and the environment. However, the BMS should be repaired and connected to the SSDS. Even though hairline cracks in Rooms 100, 110 and 111D are not a concern, ATC advised the custodian that any significant cracks observed during the monthly inspections should be sealed with patching cement or grout. Additionally, the well caps associated with monitoring points MP-1 and MP-2 should be securely tightened. Monthly and routine/ preventative maintenance inspections should be conducted and Monthly and Routine/ Preventative Maintenance Forms should be completed by the custodial staff. These recommendations were brought to the attention of the custodial staff as part of the refresher training.



1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to Kips Bay (Public School 281M) located at 425 35th Street, New York, NY, 10016. The school is currently attended by approximately 80 students. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

- 1. Review of the school custodian's inspection logs indicating his routine walk-through to identify any observed changes to the interior surfaces and roof mounted fan units;
- 2. SSDS roof vent inspection;
- 3. Ground floor inspection and exterior inspection for concrete cracks;
- 4. Verification of the condition of the monitoring points;
- 5. Review of prior reports; and
- 6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Mr. Gilbert Gedeon, PE of ATC, conducted the annual site inspections on April 24, 2018. During the inspection, ATC was accompanied by Mr. Robert Ramos, the school's building manager.

2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by STV Incorporated dated August 22, 2013, Public School 281M contains engineering controls that include a Gas Vapor Barrier and a Sub-Slab Depressurization System (SSDS) constructed beneath the school to prevent residual soil gas vapors from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Fluid Applied Gas Vapor Barrier

The gas vapor barrier was installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier was installed above the SSDS gas permeable aggregate (gravel) layer below the ground floor slab.

2.2 Sub-Slab Depressurization System

An SSDS was also installed beneath the school as an added precaution to prevent any soil gas vapors from entering the school building in the future. The primary component of the SSDS contains four (4) sub-slab suction pits, one (1) vertical riser connecting the pits to one (1) roof top fan and four (4) monitoring points.



3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of the Custodian's Inspection Logs

The following was discussed with Mr. Ramos:

- 1. The custodian's Monthly or Severe Condition Inspection Forms were prepared from September 2016 to April 2018.
- 2. The Routine and Preventative Maintenance Checklist was not completed.
- 3. As part of the annual refresher training, ATC advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. ATC also advised the custodian to perform preventative maintenance and completing the checklist on a semiannual basis.

The monthly inspection forms and training acknowledgement letter are included in Attachments 1 and 2, respectively.

3.2 ATC's Visual Observations

ATC conducted visual observations and photographic documentation while accompanied by Mr. Ramos. Site photographs are included in Attachment 3, the Annual Inspection Form is included in Attachment 4 and the Annual Monitoring Point Inspection Checklist is included in Attachment 5.

During the walkthrough inspection, ATC noted the following:

- The BMS was not functional;
- The SSDS fan unit was operational;
- Hairline cracks were observed in Rooms 100, 110 and 111D;
- Well caps for MP1 And MP2 were missing screws; and
- A spare fan unit is available at the school and stored in Stair Bulkhead Room 712A.

3.2.1 SSDS Roof Vent Inspection

- 1. ATC did not observe rust or other debris in the vicinity of the posts and sleeves of the vent stacks associated with the SSDS fan units;
- 2. SSDS fan stack guy wires were in good condition;
- 3. SSDS fan mounting and vibration isolators were intact;
- 4. Motor housing was intact and exterior surfaces were clean; and
- 5. Bolts and set screws were tight.



3.2.2 Ground Floor Inspection

ATC inspected the accessible areas of the ground floors and walls. ATC did not observe any significant concrete cracks penetrating into the ground floor during the annual inspection, except for hairline cracks in Rooms 100, 110 and 111D. As such, smoke testing was conducted. ATC did not observe potential vapor barrier leaks through the hairline cracks.

Although these cracks are not a concern, monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material.

ATC also checked the monitoring points associated with the SSDS system to verify their condition. ATC observed that monitoring points MP-1 and MP-2 were missing screws on their well caps. All other monitoring points were observed to be in good condition.

ATC's observation of the ground concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC did not have access to the elevator pits.

3.2.3 Exterior Inspection

ATC inspected the perimeter of the property including paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The BMS was not functional;
- 2. The SSDS fan unit is operational;
- 3. Surficial cracks were observed in Rooms 100, 110 and 111D. As such, smoke testing was conducted. ATC did not observe potential vapor barrier leaks through the hairline cracks;
- 4. The well caps cover on monitoring points MP-1 and MP-2 are missing screws;
- 5. A spare fan is available in Stair Bulkhead Room 712A;
- 6. Engineering controls have not changed and appear to be effective; and
- 7. No changes have occurred that would reduce the ability of the controls to protect public health and the environment.



Based on document review and visual observations, ATC recommends the following:

- 1. Repair the BMS and connect to the SSDS.
- 2. Securely tighten the well caps associated with monitoring points MP-1 and MP-2;
- 3. The surficial cracks observed in Rooms 100, 110 and 111D are not a concern; however, these cracks should be monitored during monthly inspections for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material; and
- 4. Monthly and routine/preventative maintenance inspections should be conducted and Monthly and Routine/Preventative Maintenance Forms should be completed by the custodial staff.

5.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please contact us at (212) 353-8280.

Sincerely, *ATC GROUP SERVICES, LLC*



Gilbert Gedeon, PE Principal Engineer

cc: Y. Efstathiou H. Zeidan





Attachment 1				
Custodian Monthly	or Severe Cor	ndition Ins	pection	Forms

	nspection Date/Time: 9/20/16		
1	Purpose: (circle one) Monthly Inspection Severe Condition Insp	ection (descrit	oe)
		Yes / No *	Notified Person / Date
N O	Walk the entire basement floor.	yes	
ЕСТ	Any visible cracks in the floor or subgrade walls?	res	hair line/110-2001
INSP	Any other visible openings (unintended) in the floor or subgrade walls?	No	
RIER	Any construction activities affecting the floor or subgrade walls?	No	
BAR	Any visible cracks in any accessible pits?	No	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	NA	
	Walk the entire roof surface and check the SSDS risers at basement level.	905	
NOL	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	100	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	No	
NI SC	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	No	
	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	Yes	712 A 200m
æi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	No	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
SF-1:	Vacuum 5 ps i in WC Date take	n: <u>9</u>	20/16
SF-2:	in WC Date take	n:	
SSDS Rise	er Measurements:		
	Vaccum Flow		
VR-1:	in WC VR-1 :	CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
Inspector	s Signature:	•	

		Yes / No *	Notified Person / Date
z	1. Walk the entire basement floor.	Yés	·
2	Any visible cracks in the floor or subgrade walls?	ges	hair line / 110 Fo
ISPEC	 Any other visible openings (unintended) in the floor or subgrade walls? 	No	
7 7	Any construction activities affecting the floor or subgrade walls?	No	
A X X	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. 	υ/A	
⋖	- Note the length and width of the crack/opening. 1. Walk the entire roof surface and check the SSDS risers at basement level.	405	
Z	Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
SSDS INSPECTION	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
SNI SC	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	νo	
	 Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	res	712 A Room
шi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	
C. ACTIONS TAKEN			
DS Fa	an Measurements:		1 1
	Vacuum Date to the control of the control	aken:/	/21/16
SDS R	Vaccum		
VR	in WC VR-1:	CFM	Date taken:
	in WC VR-2:	CFM	Date taken:

		Yes / No *	Notified Person / Date
1.	1. Walk the entire basement floor.	yes	
	Any visible cracks in the floor or subgrade walls?	yes -7	on obscivation
5	Any other visible openings (unintended) in the floor or subgrade walls?	No	
	Any construction activities affecting the floor or subgrade walls?	NO	
A. VAPOR BARRIER INSPECTION	Any visible cracks in any accessible pits?	NO	
YAFOR D	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	υ/A	·
	Note the length and width of the Glass opening. Walk the entire roof surface and check the SSDS risers at basement level.	yes	
N O	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
ECT ECT	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	No	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
	 Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	ye,	712 A 200m
ന്	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	
C. ACTIONS TAKEN			
DS Fa	n Measurements:	1	1
	Vacuum Pate t	aken: <u>// /08</u>	- /16
	Date t	aken:	1
SF-	2:nvc		
DS R	iser Measurements:		
	Vaccum Flow	CFM	Date taken:
VR-	1:in WC VR-1:	CFIVI	Date taken:

	Inspection Date/Time: 12 /05 / /C Northly Inspection Severe Condition Insp	ection (describe)	<u> </u>
	Purpose: (circle one) Monthly Inspection Severe Condition Insp	T	
		Yes / No *	Notified Person / Date
 8 0	1. Walk the entire basement floor.	Je5 1	
ECT	Any visible cracks in the floor or subgrade walls?	25 - ab	scruation on visiale
d N	Any other visible openings (unintended) in the floor or subgrade walls?	NO	
EEEEEEEEEEE	* Any construction activities affecting the floor or subgrade walls?	NO	
3ARF	* Any visible cracks in any accessible pits?	No	
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening.	NA	
_	Note the length and width of the Grack opening. Walk the entire roof surface and check the SSDS risers at basement level.	yei	
N	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	<i>Do</i>	
SNI SO	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	No	100
	 Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	yes	712 A Room
œi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO.	
C. ACTIONS TAKEN	an Measurements:		
		/	-/11
SF		ken: 12/0	5 / 16
	-2:in WC Date ta	ken:	<u> </u>
SDS F	Riser Measurements: Vaccum Flow		
VF	R-1:in WC VR-1:	CFM	Date faken:
		CFM	Date taken:

					Yes / No *	Notified Person / Date
Z 1	I. Walk the entire baseme	nt floor.			yes	
OT :	Any visible cracks in the		is?		,	e size of have line
SPE	Any other visible opening				DO	
ER .	* Any construction activitie				NO	
ARR	* Any visible cracks in any				NO	
A. VAPOR BARRIER INSPECTION	** Notification of DOE EH Include the following in	S is required if cracks formation: ation of floor/wall crac	cks/openings on site map.		מ/ע	
	Walk the entire roof su			level.	ijas	
<u>o</u>	* Any rust or other debris (t	oird nest, etc.) in or or	SSDS Exhaust Stacks?		NO	
SSDS INSPECTION	* Are SSDS fan units functi (record vacuum measure	oning at a lower vacu ments below)	um than the previous inspe	ction?	v_0	
SINS		s at the SSDS risers lo	ower than the previous insp	ection?	νo	
	* Is the snare fan unit pres	ent/available at the so	chool? cement fan is made availab	e)	Yes	712 A Doom
മ്	* Are any lights out on the S				NO	
C. ACTIONS TAKEN						
SDS Fan	Measurements:					
	Vacuum				,	12/17
SF-1:	5 ps1	in WC		Date taken Date taken		112/14
\$F-2	:	in WC		Date taken		1
SDS Ris	ser Measurements:					
	Vaccum		Flow			
VR-1	:	in WC	VR-1:		_CFM	Date taken:
VR-2	<u>:</u>	in WC	VR-2:		_CFM	Date taken:

	Inspection Date/Time: 2 / 14 / 14 Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (describe	Ice raisers up
 		Yes / No *	Notified Person / Date
	Walk the entire basement floor.	<i>4</i> 25	
SCTIC	* Any visible cracks in the floor or subgrade walls?	N/A	
NSPE	Any other visible openings (unintended) in the floor or subgrade walls?	w	
IER I	Any construction activities affecting the floor or subgrade walls?	,po	
ARR	* Any visible cracks in any accessible pits?	PO	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	alu alu	
	Walk the entire roof surface and check the SSDS risers at basement level.	405	0.6.1.7
NO.	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	1905 - I	e on Foot stacks A
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	No	
SNIS	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
SSD	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	yes	712 A John
œ.	Which one(s)?	100 <u></u>	
C. ACTIONS TAKEN	Notice Ice on foot stack Demove and por also email SCA Due to NO fleading of sharing an Alorm static pressure charted or	force C n BM- n Dock	S computer all good
		en:	14/17
SI	F-2:in WC Date tak	en:	<u>.</u>
SSDS	Riser Measurements:		
	Vaccum Flow	CFM	Date taken:
٧	R-1:in WC	CFM	Date taken:
li	R-2: in WC VR-2:		

ī	Inspection Date/Time: 3/20/17		
!	Purpose: (circle one) Monthly Inspection Severe Condition Insp	ection (describe	e)
		Yes / No *	Notified Person / Date
N O	1. Walk the entire basement floor.	ye3	
ECT	* Any visible cracks in the floor or subgrade walls?	NA	
INSP	* Any other visible openings (unintended) in the floor or subgrade walls?	NO	
RIER	* Any construction activities affecting the floor or subgrade walls?	No	
BARI	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	U/A	
	Walk the entire roof surface and check the SSDS risers at basement level.	405	
NOI	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
DS IN	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
B. SS	Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	yes	712 A 2600m
C. ACTIONS TAKEN			
SDS Far	n Measurements:		
SF-1 SF-2	Dete tale	en: 3/0	20/17
SDS Ris	ser Measurements:		
	Vaccum Flow		
	in WC VR-1:	CFM CFM	Date taken:
nspecto	r's Signature: Jobe for James		

	Inspection Date/Time: 4/12/17		
i	Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (describ	ne)
		Yes / No *	Notified Person / Date
NO	1. Walk the entire basement floor.	yes	
PECT	* Any visible cracks in the floor or subgrade walls?	ycs -	Sign inch have line
INSI	* Any other visible openings (unintended) in the floor or subgrade walls?	100	
A. VAPOR BARRIER INSPECTION	* Any construction activities affecting the floor or subgrade walls?	No	
BAF	* Any visible cracks in any accessible pits?	N6	
POR	** Notification of DOE EHS is required if cracks are noted. Include the following information:	1	
ر ۷	- Draw approximate location of floor/wall cracks/openings on site map.	W/A	
	Note the length and width of the crack/opening. 1. Walk the entire roof surface and check the SSDS risers at basement level.	ges	
1	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
ECT	* Are SSDS fan units functioning at a lower vacuum than the previous inspection?	No	
SSDS INSPECTION	(record vacuum measurements below) * Are flow/vacuum readings at the SSDS risers lower than the previous inspection?		
SOS	(record flow/vacuum measurements below) * Is the spare fan unit present/available at the school?	<i>V0</i>	710 n 0
B. S	(if NO, contact DOE DHS to ensure a replacement fan is made available)	yes	712 A Koom
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	
ACTIONS TAKEN			
СТІО			*
C. A			
SSDS Fan	Measurements:		
	Vacuum	41	1. 1.
SF-1:	5PSI in WC Date taken	: <u> 4 /</u>	12/17
SF-2:	in WC Date taken	:	
SSDS Ris	er Measurements: Vaccum Flow		
VD 4		CFM	Date taken:
1		CFM	Date taken:
VK-2	in WC VR-2:		
Inspector	's Signature: / obr f lames		

	Inspection Date/Time: 5/18/17 Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ction (describ	re)
		Yes / No *	Notified Person / Date
<u>N</u>	Walk the entire basement floor.	yes	
PECT	Any visible cracks in the floor or subgrade walls?	705	Size inch Kais ling
SNIS	* Any other visible openings (unintended) in the floor or subgrade walls?	Us	
RRIEF	* Any construction activities affecting the floor or subgrade walls?	Us	
R BAF	* Any visible cracks in any accessible pits?	NO	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	V/A	
	Walk the entire roof surface and check the SSDS risers at basement level.	yes	
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	Ub	
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	No	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
B. SSI	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	yes	717 A Room
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	140	77 , , , , , , , , , , , , , , , , ,
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
1	Vacuum S p S i in WC Date taken: in WC Date taken:	5	118 /12
SSDS Rise	er Measurements:	·	
	Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
Inspector's	s Signature: Job for forms		

	Inspection Date/Time: 8/21/17 Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ction (doscrib	201
	supposition of the state of the	Yes / No *	Notified Person / Date
N O	Walk the entire basement floor.	405	
ECT	* Any visible cracks in the floor or subgrade walls?	425	Size inch hair line
INSP	* Any other visible openings (unintended) in the floor or subgrade walls?	No	TOTAL TITLE
RIER	* Any construction activities affecting the floor or subgrade walls?	NO	
BAR	* Any visible cracks in any accessible pits?	No	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	NA	
1	Walk the entire roof surface and check the SSDS risers at basement level.	Yes	
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
PEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	No	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	UO	
B. SSI	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	yes	717 A Room
ш.	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	Po	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
SF-1: SF-2:	Vacuum 5 (25) in WC Date taken: in WC Date taken:		121/17
SSDS Rise	er Measurements:	-	
	Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
Inspector	s Signature:	-	

			Yes / No *	Notified Per	son / Date
z	Walk the entire basement floor.		Yes		
ECT	Any visible cracks in the floor or subgrade walls?		yes	Size inch	7
NSP	Any other visible openings (unintended) in the floor or subgrade walls?		No	JE INCH	Rent
MER	Any construction activities affecting the floor or subgrade walls?		W		
3ARF	* Any visible cracks in any accessible pits?		PO		
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map Note the length and width of the crack/opening.		υ/p		
	Walk the entire roof surface and check the SSDS risers at basement level.		yes.		
NO.	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?		NO		
SSDS INSPECTION	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)		VO		
SINS	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection?	·	No		
SSD	(record flow/vacuum measurements below) * Is the spare fan unit present/available at the school?			200	7) 4
øi	(if NO, contact DOE DHS to ensure a replacement fan is made available) * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?		yes po	912 A	4000
C. ACTIONS TAKEN					
DS Fan	Measurements:				
	Vacuum			1 1	
SF-1:	5)281 in WC	Date taken:	- 7 /	1/17	
SF-2:		Date taken:			
DS Rise	er Measurements:				
	Vaccum Flow				
VR-1:	in WC VR-1:		CFM	Date taken:	
175.6	in WC VR-2:		CFM	Date taken:	

	Inspection Date/Time: 8/21/17			
	Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ection (describe	e)	
		Yes / No *	Notified Person / Date	
N O	1. Walk the entire basement floor.	405		1
ECT	* Any visible cracks in the floor or subgrade walls?	40	Size inch han	rVin
INSF	Any other visible openings (unintended) in the floor or subgrade walls?	VO	7,000	
RIER	* Any construction activities affecting the floor or subgrade walls?	Do		
BAR	* Any visible cracks in any accessible pits?	No		
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	NA		
	Walk the entire roof surface and check the SSDS risers at basement level.	yes		-
NO O	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	<u> </u>	
SSDS INSPECTION	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO		
NI SC	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	ρο		1
	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	yes		
юi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	100		
C. ACTIONS TAKEN				
SSDS Fan	Measurements:	_	1	
	Vacuum	\sim 1	01/12	
SF-1:	5 PSI in WC Date taken:	8/0	<u> </u>	
SF-2:	in WC Date taken:			
SSDS Rise	er Measurements:	7		1
	Vaccum Flow			
VR-1:	in WC VR-1:	_CFM	Date taken:	
VR-2:	in WC VR-2:	_CFM	Date taken:	
Inspectors	s Signature:			

	Inspection Date/Time:	9/0/17					
	Purpose: (circle one)	Monthly Ins	pection Sev	ere Condition Inspe	ction (describ	e)	
					Yes / No *	Notified	Person / Date
NOI	1. Walk the entire basement	floor.			905		
A. VAPOR BARRIER INSPECTION	* Any visible cracks in the flo	or or subgrade w	alis?		yes	Sizo inch	has line
SIINS	* Any other visible openings (unintended) in the floor or subgrade walls?						
RIEF	* Any construction activities	affecting the floor	or subgrade walls?		NO		
BAF	* Any visible cracks in any a				μb		
POR	** Notification of DOE EHS is Include the following inform		s are noted.				
, \ \ \	- Draw approximate locati	on of floor/wall cra		ap.	W/A		
4	- Note the length and widt				717		
Z.	Walk the entire roof surface and check the SSDS risers at basement level.						
CTIC	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks? * Are SSDS fan units functioning at a lower vacuum than the previous inspection?						
SPE	(record vacuum measurements below)						
SSDS INSPECTION	 Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below) 				w s		
B. SS	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)					712 A	Room
ш	* Are any lights out on the SSD				NO		
C. ACTIONS TAKEN							
SSDS Fan	Measurements:						
	Vacuum				/	′ /	
SF-1:	5 psi	in WC		Date taken:	1/3	3/17	
SF-2:		in WC		Date taken:	,	,	
SSDS Rise	er Measurements:		,				
	Vaccum	-	Flow				
VR-1:		in WC	VR-1:		CFM	Date taken:	
VR-2:		in WC	VR-2;		CFM	Date taken:	
Inspector	s Signature:	2					;

1	inspection Date/Time: //	128/17					
	Purpose: (circle one)	Monthly Inspe	Several Severa	ere Conditio	on Inspection (describ	e)	
					Yes / No *	Notified	Person / Date
N O	1. Walk the entire basement flo	or.			305		
ECT	* Any visible cracks in the floor	or subgrade wall:	s?		yes	Size inch	hair line
INSP	Any other visible openings (unintended) in the floor or subgrade walls?						
RIER	* Any construction activities aff	ecting the floor or	subgrade walls?		NO		
BAR	* Any visible cracks in any acc	essible pits?			No		
A. VAPOR BARRIER INSPECTION	Include the following information - Draw approximate location	Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on site map.					
4	- Note the length and width			ant least			
Z	1. Walk the entire roof surface		·		NO Dies		
SSDS INSPECTION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks? * Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)						
DS INS	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)						
B. SS	 Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 				yız	712 A	Joom
ш	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?						
C. ACTIONS TAKEN							
SSDS Far	Measurements:						
	Vacuum				,,	12.1	
SF-1	: <u>5 psi</u>	_in VVC			ate taken:	10/11	
SF-2	·	_in WC		D:	ate taken:	,	•
SSDS Ris	ser Measurements:						
	Vaccum		Flow				
VR-1	:	_in WC	VR-1:		CFM	Date taken:	
VR-2		in WC	VR-2:		CFM	Date taken:	
Inspecto	r's Signature:	16	Pars			,	

Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)	ı	nspection Date/Time: 11 / 20 / 17				
1. Walk the entire basement floor. Yes Stack in the floor or subgrade wells? Yes Stack in the floor or subgrade wells? Yes Stack in the floor or subgrade wells? Yes	F	Purpose: (circle one) Monthly Inspection Ser	vere Condition Inspect	ion (describ	ne)	
Any visible cracks in the floor or subgrade walls? Any other visible openings (unintended) in the floor or subgrade walls? Any construction activities affecting the floor or subgrade walls? Any construction activities affecting the floor or subgrade walls? Any visible cracks in any accessible pits? Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. Note the length and width of the crack/openings on site map. Note the length and width and length and				Yes / No *	Notified P	erson / Date
Any visible cracks in the floor or subgrade walls? Any other visible openings (unintended) in the floor or subgrade walls? Any construction activities affecting the floor or subgrade walls? Any construction activities affecting the floor or subgrade walls? Any visible cracks in any accessible pits? Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. Note the length and width of the crack/openings on site map. Note the length and width and length and	Š.	. Walk the entire basement floor.		Yes		
1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers level to roof surface and check the SSDS risers level to record surface and check the SSDS risers level to record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers risers risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers risers risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers ris	ECTI	Any visible cracks in the floor or subgrade walls?	yos	Size inch	have line	
1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers level to record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers lower than the previous inspection? 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at basement level. 1. Walk (record vacuum readings at the SSDS risers at the SSDS risers at the school? 1. Walk (record vacuum readings at the school? 1. Walk (record vacuum readings at the school?	INSP	Any other visible openings (unintended) in the floor or subgrade wal	NO			
1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers lower vacuum than the previous inspection? 1. Walk the entire roof surface and a lower vacuum than the previous inspection? 1. Walk the school? 1. Walk the entire roof surface and surface surface surface and the school? 1. Walk the entire roof surface and the school? 1. Walk the entire roof surface and check the school? 1. Walk the entire roof surface and surface surface surface and surface surface and surface and surface surface and surface and surface surface surface and surface surface surface surface and surface surf	MER	Any construction activities affecting the floor or subgrade walls?		No		
1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers lower vacuum than the previous inspection? 1. Walk the entire roof surface and at lower vacuum than the previous inspection? 1. Walk the entire roof surface and surface show) 1. Walk the entire roof surface and check the SSDS risers lower than the previous inspection? 1. Walk the entire roof surface and surface show) 1. Walk the entire roof surface and check the SSDS risers lower than the previous inspection? 1. Walk the entire roof surface and surface a	BAR	Any visible cracks in any accessible pits?		NO		
1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers at basement level. 1. Walk the entire roof surface and check the SSDS risers stakes? 1. Walk the entire roof surface and check the SSDS Exhaust Stacks? 1. Walk the entire roof surface and check the SSDS risers lower than the previous inspection? 1. Walk the entire roof surface and a lower vacuum than the previous inspection? 1. Walk the entire roof surface and surface and the school? 1. Walk the entire roof surface and surface surface and the school? 1. Walk the entire roof surface and the school? 1. Walk t	A. VAPOR	Include the following information: - Draw approximate location of floor/wall cracks/openings on site π	ар.	ν/p		
* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks? * Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below) * Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below) * Is the spare fan unit present/available at the school? (record flow/vacuum measurements below) * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? * Yocuum * SF-1:			nent level.	Mrs		
# (if NO, contact DOE DHS to ensure a replacement fan is made available) *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? **SDS Fan Measurements: Vacuum SF-1:				-		
# (if NO, contact DOE DHS to ensure a replacement fan is made available) *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? **SDS Fan Measurements: **Vacuum** SF-1:	РЕСТ	* Are SSDS fan units functioning at a lower vacuum than the previous i			 	
## (if NO, contact DOE DHS to ensure a replacement fan is made available) *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? **SDS Fan Measurements: **Vacuum** SF-1:	SNI SC	* Are flow/vacuum readings at the SSDS risers lower than the previous	inspection?	NO		
*Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? *Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? **Documents** **Vacuum** **SPS Riser Measurements** **Vacuum** **Vacuu	,	Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made av	ailable)	Yes	712 A	Room
SSDS Fan Measurements: Vacuum	ω.	* Are any lights out on the SSDS Monitoring System (Light panel)? Wh	ich one(s)?	No		
Vacuum SF-1:						
SF-1: 5 p5i in WC Date taken: // 20 //7 SF-2: in WC Date taken: SDS Riser Measurements: Vaccum Flow VR-1: in WC VR-1: CFM Date taken:	SDS Fan	Measurements:				
SF-2: in WC Date taken: SSDS Riser Measurements: Vaccum Flow VR-1: in WC VR-1: CFM Date taken:		•		íl	/20/12	
Vaccum Flow VR-1: in WC VR-1: CFM Date taken:	SF-1:	-		1.5		
Vaccum Flow VR-1: in WC VR-1: CFM Date taken:	SF-2:	in WC	Date taken:			
VR-1:in WC VR-1:CFM Date taken:	SDS Ris	er Measurements:		7		
		Vaccum Flow				
VR-2:in WC VR-2:CFM Date taken:	VR-1:	in WC VR-1:		•	Date taken:	
	VR-2:	in WC VR-2:		CFM	Date taken:	
Inspector's Signature:						

	nspection Date/Time: 12 28 17 Purpose: (circle one) Monthly Inspection Severe Condition Inspec	ction (describ	e)
		Yes / No *	Notified Person / Date
Z O	1. Walk the entire basement floor.	405	
ECTI	* Any visible cracks in the floor or subgrade walls?	905	Size Inch how 1890
INSP	Any other visible openings (unintended) in the floor or subgrade walls?	N O	
ZER	* Any construction activities affecting the floor or subgrade walls?	WO	
BARI	* Any visible cracks in any accessible pits?	Vo	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	N/A	
	Walk the entire roof surface and check the SSDS risers at basement level.	yes	
TION	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	No	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
S INS	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO	
	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	705	712 A Room
mi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	714 17 4 56.4
C. ACTIONS TAKEN			
SDS Fan	Measurements:		•
	Vacuum	10	h. In
SF-1	5 PSI in WC Date taken	:	12/10
SF-2	in WC Date taker	l:	
SDS Ris	er Measurements:		
	Vaccum Flow		
VR-1	in WC VR-1:	_CFM	Date taken:
VR-2	in WC VR-2:	CFM	Date taken:
nspecto	's Signature:		

	Inspection Date/Time: $\frac{1}{8}/8$		_	
	Purpose: (circle one) Monthly Inspection Severe Condition Ins	pection (describ	e) Ica on raisus up in Roof	5
		Yes / No *	Notified Person / Date	
Z Ö	1. Walk the entire basement floor.	405		
ECTI	* Any visible cracks in the floor or subgrade walls?	WA		
INSF	* Any other visible openings (unintended) in the floor or subgrade walls?	No		
RIER	* Any construction activities affecting the floor or subgrade walls?	NG		
BAR	Any visible cracks in any accessible pits?	vo		
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	N/A		
	Walk the entire roof surface and check the SSDS risers at basement level.	405		
<u>N</u> O	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	905-I	ce on 200f stack	5
SSDS INSPECTION	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	Do.		
SINS	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO		
SSD	* Is the spare fan unit present/available at the school?	Mcs	712 A Room	
ထုံ	(if NO, contact DOE DHS to ensure a replacement fan is made available) * Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	10.00		
C. ACTIONS TAKEN	Wotice Ico. on Roof Stack. Remove BMS showing no Alarm state Prossure all 300 d. Spsi	and post	tomed collectly. on Zoof	
SSDS Far	n Measurements:		,	
	Vacuum	ken:/_	1 /18	
		ken:	<i>v</i> / 1 -	
SF-2	in WC Date tal	UC11*		
SSDS Ris	ser Measurements:			
	Vaccum Flow			
VR-1	in WC VR-1:	CFM	Date taken:	
	in WC VR-2:	CFM	Date taken:	

	Inspection Date/Time: 2/6/18		
	Purpose: (circle one) Monthly Inspection Severe Condition Insp	ection (describ	e)
		Yes / No *	Notified Person / Date
N O	1. Walk the entire basement floor.	Jes	
ECT	* Any visible cracks in the floor or subgrade walls?	V/A7	Size inch have live
NSN	* Any other visible openings (unintended) in the floor or subgrade walls?	in	
IRRIER	* Any construction activities affecting the floor or subgrade walls?	No	
BARI	* Any visible cracks in any accessible pits?	No	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	w/A	
	Walk the entire roof surface and check the SSDS risers at basement level.	905	
NOL	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO.	
PECT	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	Vo	
SSDS INSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	Vo	
	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	Y05	712 A Room
øj.	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	64	
C. ACTIONS TAKEN			
SDS Far	n Measurements:		·
SF-1	Yacuum : 5 PSI in WC Date take	en: <u>2/</u>	6/18.
SF-2	in WC Date take	en:	
SDS Ris	ser Measurements:		
	Vaccum Flow		
VR-1	in WC VR-1:		Date taken:
	in WC VR-2:		Date taken:

1	Inspection Date/Time: 3/11/18		
	Purpose: (circle one) Monthly Inspection Severe Condition Inspe	T	e)
		Yes / No *	Notified Person / Date
NO	1. Walk the entire basement floor.	1	
ECTI	* Any visible cracks in the floor or subgrade walls?	Jes	har line
INSP	* Any other visible openings (unintended) in the floor or subgrade walls?	NO	
RIER	* Any construction activities affecting the floor or subgrade walls?	NO	
BARI	* Any visible cracks in any accessible pits?	100	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. 	W/a	
	Note the length and width of the crack/opening. 1. Walk the entire roof surface and check the SSDS risers at basement level.	11.	
	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	yc5 80	
SSDS INSPECTION	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	106	
S IN	* Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	Wb	
	* Is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	905	212 A Desm
æi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	
C. ACTIONS TAKEN			
SDS Fan	Measurements:		,
	Vacuum	ı: <u> </u>	lie
SF-1:	•		1/8
SF-2:	in WC Date taker	1:	Y
SDS Risc	er Measurements:		
	Vaccum Flow		
VR-1:	in WC VR-1 :	_CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
nspector	s Signature:		

	Inspection Date/Time: 4/11/18 Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ction (descrit	pe)
		Yes / No *	Notified Person / Date
NO	Walk the entire basement floor.	hes	
ECT	* Any visible cracks in the floor or subgrade walls?	805	Size inch hair line
IN SE	* Any other visible openings (unintended) in the floor or subgrade walls?	NO.	O'EL WICK HAR THE
RIEA	* Any construction activities affecting the floor or subgrade walls?	100	
BAF	* Any visible cracks in any accessible pits?	100	
A. VAPOR BARRIER INSPECTION	 ** Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. 	ı	
₹	Note the length and width of the crack/opening.	NA	
NO	Walk the entire roof surface and check the SSDS risers at basement level.	ye5	
ЕСТІ	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks? * Are SSDS fan units functioning at a lower vacuum than the previous inspection?	100	
INSP	(record vacuum measurements below) * Are flow/vacuum readings at the SSDS risers lower than the previous inspection?	PO	
SSDS INSPECTION	(record flow/vacuum measurements below) * Is the spare fan unit present/available at the school?	po	
ei S	(if NO, contact DOE DHS to ensure a replacement fan is made available)	Yes	7/2 A Ram
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	40	
C. ACTIONS TAKEN			
SSDS Fan	Measurements:		
	Vacuum 6 p51 in WC Date taken:	4	11/18
O. 12.	in WC Date taken:		
SSDS Rise	r Measurements:		
	Vaccum Flow		
VR-1:	in WC VR-1:	CFM	Date taken:
VR-2:	in WC VR-2:	CFM	Date taken:
Inspector's	Signature: Zobosto Zo		





Attachment 2 Training Acknowledgement



Custodian/Fireman:

104 East 25th St, 10th Floor New York, NY 10010-2917 www.cardnoatc.com 212-353-8280 Fax 212-353-8306

Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Operation and Maintenance by ATC Group Services, LLC (ATC) on 4/24/14. As part of
the annual refresher training I conducted a walkthrough with ATC during which all elements
covered by the Operation and Maintenance Plan were explained to me including the completion
of the daily logs and monthly inspection form.
Signed by: Custodian/Fireman Date: 4/24/18
Recommendations:
D Repair BAS & connect to 4305 2) Seal hairline coads in Roms 100, 1110 2, 110
2) Seal hairling coady on Roms 100, 1110 9, 110
2 Instal secur or MP1 & MP2
A) Coundto semi-annel ingedir form
y or y





Attachment 3 Photographic Documentation



Photo 1: View of BMS indicating flow associated with fan unit SSDS-1.



Photo 3: View of operational SSDS fan unit on the roof.



Photo 5: View of typical bare concrete floor in Room 100.



Photo 2: View of spare fan unit stored in Stair Bulkhead Room 712A.



Photo 4: View of vacuum gauge associated with SSDS fan unit.



Photo 6: View of typical monitoring point in Room 100.





Attachment 4 Annual Inspection Form

P.S./I.S. 281M

ANNUAL INSPECTION FORM

Inspector's Name: /4:1 [Level]	Weather Conditions:	Send
Inspection Date: W/2W1//	Air Temperature (°F):	(0°/C=
Inspection Time:		
Comments:		
A. PRE INSPECTION CHECKLIST		
		•
Schedule Annual Inspection when school is not occupied by stude	ents.	
* Review 12 Previous Monthly Inspection Chacklists	oncerns regarding the operation	of the Engineering Controls
Meet with Custodial Engineer and Principal to solicit comments/co	oncerns regarding the operation	tof the Engineering Controls
Conduct Annual Refresher Training with DOE EHS.		
Follow proper safety protocols including lockout/tagout.		
Comments:		
·	•	
B. SSDS SYSTEM INSPECTION		4
Walk the entire roof surface of school building amd check	SSDS risers at basement	4/
Inspect fan stack guy wires.	Not Alora	Keef
* Inspect monitoring points (look for obstructions, check manhole/b	oetts, quick connects).	
Record vacuum gauge and flowmeter readings or riser pipes and	d S6D frans (as applicable); re	wew monthly data to check for
decreases in flow/vacuum. Ensure all SSDS accessories listed in section 15880 are function	ning properly.	* (*
Inspect bolts and set screws for tightness and rusty condition.	3 k k	
* Inspect SSDS fan for cleanliness. Clean exterior surfaces only.	Remove dust and grease on m	notor housing,
Are the indicator lights on the Building Management System func		
* Is the spare fan unit present/available at the school?	7124	
Comments (see or hear anything unusual?):	' '	
C. VAFOR BARRIER INSPECTION		
Walk all of the basement floor		
Review all cracks or other openings identified in first floor during	previous inspections.	
* Any new visible cracks in the floor?		
Any new visible opening (unintended in the floor?		
* Any new visible cracks in accessible pits?	(1)	
Note the length of any new cracks/openings in the floor. / 00		1(10(7'
Draw approximate location of floor cracks/openings that appear	to have potential leak through	vapor barrier
Comments:		
D. REPAIR Summarize needed/completed repairs to Engineering Controls:		
Summarize needed completed regalis to Engineering Solution,	sun or UPIE	MIN
1) Seal runni Carro	L can a 10	11
De Capiro Bolls 4)/ Comple	a survey of	THE PAY
Inspector's Signature:		
Inspector's Signature:		
/ /		





Attachment 5 Annual Monitoring Point Inspection Checklist

P.S/I.S. 281M ANNUAL MONITORING POINT INSPECTION CHECKLIST

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts intact?	Comments
MP-1	Ground Storage	Y Ry	Y (N	Mx2-Javol Sogar
MP-2	Compressor Room	Y (N)	Y N	Am MD- Engle Crew
MP-3	Fire Pump Room	Y X	(Y) N	an 100
MP-4	Water Service	Y/N	(Y) N	Bm 114 \$

Inspect all monitoring point locations for obstructions; check the manhole covers/bolts and quick connections inside the manhole.

ANNUAL INSPECTION REPORT KIPS BAY (PUBLIC SCHOOL 281M) 425 EAST 35TH STREET NEW YORK, NY 10016

PREPARED FOR:



New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101

PREPARED BY:

environmental · GEOTECHNICAL
BUILDING SCIENCES · MATERIALS TESTING
104 East 25th Street, 10th Floor
New York, New York 10010-2917

Date of Issue: April 24, 2019

ATC Project No. Z214YI1416



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Auacn	mem o:	WOIK OIUCI		

PROJECT DIRECTORY

OWNER/CLIENT: New York City Department of Education

Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PROJECT LOCATION: Kips Bay (Public School 281M)

425 East 35th Street New York, NY, 10016

PROJECT TECHNICAL SUPPORT New York City School Construction Authority

30-30 Thomson Avenue

Long Island City, New York 11101

STV Incorporated

225 Park Avenue South New York, New York 10003

DESCRIPTION OF WORK: Review O&M plan and prior reports; review

custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Gilbert Gedeon, Principal Engineer



EXECUTIVE SUMMARY

ATC Group Services, LLC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Gas Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at Kips Bay (Public School 281M) located at 425 East 35th Street New York, NY, 10016 on April 2, 2019.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Forms were prepared from April 2018 to April 2019. However, the Routine and Preventative Maintenance Checklist was not completed. ATC observed that the SSDS fan unit was not operational, and had reportedly out of service since March 26, 2019. ATC also observed that the Building Management System (BMS) is not functional. A spare fan unit was available at the school in Stair Bulkhead Room 712A. All four (4) monitoring points were checked and found to be in good condition.

ATC did not observe any significant cracks in the ground floor except for surficial hairline cracks in Rooms 100, 110 and 111D which were smoke tested on May 8, 2018 and indicated no potential vapor barrier leaks through the hairline crack.

Based on the aforementioned, the custodial staff is working on completing repairs of the SSDS fan units to ensure that the engineering controls continue to be fully operating as per the O&M specifications. A letter report confirming repairs will be generated by ATC once the repairs are completed.

Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff. The SSDS fan unit should be repaired promptly. The BMS should be repaired and connected to the SSDS. Even though hairline cracks in Rooms 100, 110 and 111D are not a concern, ATC advised the custodian that any significant cracks observed during the monthly inspections should be sealed with patching cement or grout.

These recommendations were brought to the attention of the custodial staff as part of the refresher training.



1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to Kips Bay (Public School 281M) located at 425 35th Street, New York, NY, 10016. The school is currently attended by approximately 80 students. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

- 1. Review of the school custodian's inspection logs indicating his routine walk-through to identify any observed changes to the interior surfaces and roof mounted fan units;
- 2. SSDS roof vent inspection;
- 3. Ground floor inspection and exterior inspection for concrete cracks;
- 4. Verification of the condition of the monitoring points;
- 5. Review of prior reports; and
- 6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Mr. Gilbert Gedeon, PE of ATC, conducted the annual site inspections on April 2, 2019. During the inspection, ATC was accompanied by Mr. Robert Ramos, the school's building manager.



2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by STV Incorporated dated August 22, 2013, Public School 281M contains engineering controls that include a Gas Vapor Barrier and a Sub-Slab Depressurization System (SSDS) constructed beneath the school to prevent residual soil gas vapors from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Fluid Applied Gas Vapor Barrier

The gas vapor barrier was installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier was installed above the SSDS gas permeable aggregate (gravel) layer below the ground floor slab.

2.2 Sub-Slab Depressurization System

An SSDS was also installed beneath the school as an added precaution to prevent any soil gas vapors from entering the school building in the future. The primary component of the SSDS contains four (4) sub-slab suction pits, one (1) vertical riser connecting the pits to one (1) roof top fan and four (4) monitoring points.



3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of the Custodian's Inspection Logs

The following was discussed with Mr. Ramos:

- 1. The custodian's Monthly or Severe Condition Inspection Forms were prepared from April 2018 to April 2019.
- 2. The Routine and Preventative Maintenance Checklist was not completed.
- 3. As part of the annual refresher training, ATC advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. ATC also advised the custodian to perform preventative maintenance and completing the checklist on a semiannual basis.

The monthly inspection forms and training acknowledgement letter are included in Attachments 1 and 2, respectively.

3.2 ATC's Visual Observations

ATC conducted visual observations and photographic documentation while accompanied by Mr. Ramos. Site photographs are included in Attachment 3, the Annual Inspection Form is included in Attachment 4 and the Annual Monitoring Point Inspection Checklist is included in Attachment 5.

During the walkthrough inspection, ATC noted the following:

- The BMS was not functional;
- The SSDS fan unit was not operational;
- Hairline cracks were observed in Rooms 100, 110 and 111D; and
- A spare fan unit is available at the school and stored in Stair Bulkhead Room 712A.

3.2.1 SSDS Roof Vent Inspection

- 1. ATC did not observe rust or other debris in the vicinity of the posts and sleeves of the vent stacks associated with the SSDS fan units;
- 2. SSDS fan stack guy wires were in good condition;
- 3. SSDS fan mounting and vibration isolators were intact;
- 4. Motor housing was intact and exterior surfaces were clean; and
- 5. Bolts and set screws were tight.



3.2.2 Ground Floor Inspection

ATC inspected the accessible areas of the ground floors and walls. ATC did not observe any significant concrete cracks penetrating into the ground floor during the annual inspection, except for hairline cracks in Rooms 100, 110 and 111D. Smoke testing was conducted on these hairline cracks back on May 2018 and found to have no potential vapor barrier leaks.

Although these cracks are not a concern, monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material.

ATC also checked the monitoring points associated with the SSDS system to verify their condition. All other monitoring points were observed to be in good condition.

ATC's observation of the ground concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC did not have access to the elevator pits.

3.2.3 Exterior Inspection

ATC inspected the perimeter of the property including paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion.



4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The BMS was not functional;
- 2. The SSDS fan unit is not operational;
- 3. Surficial cracks were observed in Rooms 100, 110 and 111D. As such, smoke testing was conducted. ATC did not observe potential vapor barrier leaks through the hairline cracks; and
- 4. A spare fan is available in Stair Bulkhead Room 712A;

Based on document review and visual observations, ATC recommends the following:

- 1. Promptly repair the SSDS fan unit and restore full functionality;
- 2. Repair the BMS and connect to the SSDS;
- 3. Securely tighten the well caps associated with monitoring points MP-1 and MP-2;
- 4. The surficial cracks observed in Rooms 100, 110 and 111D are not a concern; however, these cracks should be monitored during monthly inspections for any significant change in the width of the cracks. Significant cracks observed during these inspections will require patching with cement or grout material; and
- 5. Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff; and
- 6. A letter report confirming repairs will be generated by ATC once the repairs are completed.



5.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please contact us at (212) 353-8280.

Sincerely,

ATC GROUP SERVICES, LLC

Gilbert Gedeon, PE Principal Engineer

cc: Y. Efstathiou N. Guevara





Attachment 1				
Custodian Monthly or Severe Condition Inspection	Forms			

	Inspection Date/Timo: 4/11/18	The second secon	
	Purpose: (circle one) Monthly Inspection Severe Condition I	nazeb) nottaequat	50)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes / No *	Notified Parson / Date
Į Į	1. Walk the entire basement floor.	5005	1
PEC	Any visible cracks in the floor or subgrade walls?	800	Size inch hair line
SNIX	- Any other visible appenings (unintended) in the theor or subgrade walfs?	ν()	177,
1983	Any construction activities affecting the floor or subgrade walls?	100	· · · · · · · · · · · · · · · · · · ·
BAF	Any vialbio cracks in any necessible pits?	100	7/4
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is regulared if crecks are noted, Include the following information: Draw approximate location of floor/well crecks/uponings on alto map. Note the forestin and width of the creck/opening.	N/p	
	1. Walk the entire roof surface and check the SSDS risers at basement level.	yes	JAN THE
NOL	* Any rust or other debris (blict nest, etc.) in or on SSDS Exhaust Stacks?	NO	
SSDS INSPECTION	* Are SSDS for units functioning at a lower vectum than the provious inspection? (record vacuum measurements below)	100	
ns an	* Are flow/vacuum rendings at the SSDS risers lower than the previous inspection? (record flow/vacuum menauruments below)	po	
B. SS	Is the space fun unit present/available at the autural? (if NO, contact DOE DHS to ensure a replacement (and a made available)	Hen	712 A Ram
ш	* Are any lights out on the SSDS Monitoring System (Light panel)? Which ane(s)?	10	-115-11 1-0(1)
C. ACTIONS TAKEN			
SSDS Fan	Measuromenta:	<u> 11, м. — 11</u>	10
SF-1: SF-2:	Vacuum	,ad	h lis
	r Measuroments: Vaccum Flow	III	77'20,5
	1141	O Cad	0.4.4.1
	in WC VR-1; in WC VR-2;		Date taken;
inspectors	Signatura;		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

	Inspection Date/Time: 5/3/18 Purpose: (circle one) Monthly Inspection Severe Condition Insp	ection (doscri	bo)	
		Yeş/No*	Notified Person / Date	
ĕ	1. Walk the entire bacoment floor.	MCS		
ECT	* Any visible cracks in the floor or subgrade walls?	403	hast line /110 Res	m 10
N.S.	. Any other visible openings (unintended) in the floor of subgrade walls?	Vo	///////////////////////////////////////	,,,,
RIER	^ Any construction ষণ্ডাধাৰিও মাৰিংগালু the floor or subgrade walls?	NO		
BAR	Any visible cracks in any accessible pits?	IVO		
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening.	NA		
	Walk the entire roof surface and check the SSDS risers at pasement level.	100		
NOL	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	NO		
PEC	Are SSDS fan units functioning at a lower vacuum than the provious inspection? (record vacuum measurements below)	NO		
SSDS INSPECTION	Are flow/vacuum readings at the SSDS fieers lower than the previous inspection? (record flow/vacuum measurements below)	Uo		
9. SS	Is the spare fan unit present/available at the school? (If NO, contact DOE DHS to ensure a replacement fan is made available)	\$20ye)	712 A Room	
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	(VI)	, ,	
C. ACTIONS TAKEN				
SSDS Fan	Measurements:		√r 449/m	
ĺ	Vacuum 6 PSi in WC Date taken	ı: 5/	3/18	
SF-2:_	in WC Date taken	· /		
SSDS Rise	r Measurements:			
ľ	Vaccum Plow			
VR-1:	in WC VR-1:	_CFM	Date taken:	
1	in WC VR-2:	CFM	Date taken:	
•	Signature: Pulling			

	Inspection Dato/Time: 6/21/18		,
	Purpose: (circle one) Monthly Inspection Sovere Condition Inspe	ction (descril	bo)
		Yes / No *	Notified Person / Date
NO	1. Walk the entire basement floor.	403	
ECI	* Any visible cracks in the floor or subgrade walls?	2425	have lies /110 1001
NS.	* Any other visible openings (unintended) in the floor or subgrade walls?	1/3	// / / / / / / / / / / / / / / / / / /
RIER	* Any construction activities affecting the floor or subgrade walls?	UD.	
BAR	* Any visible cracks in any accessible pile?	120	
A. VAPOR BARRIER INSPECTION	** Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on alte map. Note the length and width of the crack/opening.	W/A	
	Walk the entire toof surface and check the SSDS riscrs at basement level.	A105	
NO.	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SPEC	Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
SSDS INSPECTION	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	μo	
B. SSI	is the spare fon unit present/available at the school? (If NO, ⊏ontact DOE DHS to ensure a replacement fon is made available)	ا مالا	712 A form
	* Are any lights out on the SSDS Monitoring Systom (Light penel)? Which one(s)?	NO	-7.7.7.00
C. ACTIONS TAKEN			
SSDS Fan	Measurements:	1 2 2 2 1 2	
SF-1:_ SF-2:_	Vacuum Spsi In WC Date taken: In WC Date taken:	6/2	1/18_
SSDS Rise	r Measurements;		
	Vaccum Flow		
VR-1:_	In WC VR-1:	ĊFM	Dato taken:
1			Date taken:
Inspector's	Signature: Jub J, (

	Inspection Date/Time; 7/10/18	<u> </u>	WI (*) Market
	Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ction (deucrii	be)
	The state of the s	Yes / No *	Notified Person / Date
₹	1. Walk the onlire basement floor.	1405	A. a. M J. (Sansa
PECT	* Any vielbie cancky in the floor or aubgrado walls?	(40)	110/100/11/1
IS NI 2	Any other visible openings (unintended) in the floor or subgrade welle?	170	The state of the s
RAEF	Any construction activities affecting the floor or subgrade wells?	NO	to all the control of
BAF	* Any visible cracks in any accessible pite?	120	
A. VAPOR BARRIER INSPECTION	Notification of DOF FHS is required if cascks use noted. Include the following information: - Draw approximate location of floor/wall casck@openings on site map. - Note the length and width of the crack/opening.	N/A	177-7/1-1-1
יער נ	Walk the entire roof surface and check the SSDS risers at banoment level.	MO.5	- (- (- (- (- (- (- (- (- (- (- (- (- (-
SSDSINSPECTION	* Any rust or other daligis (blid neet, etc.) in or on SSDS Exhiuist Stacks?	Wo	(ATT)
SPEC	* Are SSDS for unite functioning at a lower various than the previous inspection? (necord vacuum measurements below)	00	
SS.	Are flow/vacuum rendings ut the SSDS disers lower thrui the previous inspection? (record flow/vacuum monsurements below)	No	7,174
1 1	lo the spare fan unit present/available at the school? (If NO, contact DOE DRS to annuce a replacement fan is made available)	,40)	712 A ROOM
αi	Are any lighte out on the SSDS Monitoring System (Light panel)? Which one(s)?	(V)	7 (2-7) 7 (2)
C. ACTIONS TAKEN			
SSDS Fan	Mogsuroments:	***************************************	- 1/0 11-111-1111-11-11-1-1-1-1-1-1-1-1-1-1-
	V acuurin ∕~	~ /	/
\$F₁1:	in WC Date takon:		/18-
SF-2:	in WC Date taken:		Th's decision
	Moasuroments:		шацо) _{да} , проделение с т еге
		C) E NA	Onto talrous
	77.2.2	CFM CFM	Date taken:
• nhthinh ' + On	Signaturo:		The state of the s

Inspection Date/Time: 8/16//8				
Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)				
	W. Called Mark Mark Mark Mark Mark Mark Mark Mark	Yes / No *	Notified Person / Date	
<u>2</u>	1. Walk the ontire busument floor.	yes	Yestern Villian Policy Control of the Control of th	
PECI	* Any visible crecks in the floor or subgrade writis?	405	100/11/1 /1117	
IS N	Any other visible openings (unintended) in the floor or subgrade welle?	NO	/	
REF	* Any construction activities affecting the floor or subgrade walls?	N)i)	****	
BAR	ែ Any visible cracks in any necosalisto plis?	100		
A. VAPOR BARRIER INSPECTION	Notitionton of DOF FHS is required if cracke up noted. Include the following information: Draw approximate location of floor/well cracke/openings on site map. Note the benefit and width of the crack/opening.	N/A		
	Wolk the online roof surface and check the SSDS risers at basement lovel.	Alexandra de la companya de la compa	"_U	
Non	* Any rust or office dibird neet, etc.) In or on SSDS Exhaust Stacks?	0,20	W	
FEC	* Are SSDS fan unite functioning at a lawar vacuum than the previous inspection? (record vacuum measurements) below)	120	N. P. M.	
SSDS INSPECTION	Are tios/vacuum rogulung at the SSDS risers lower than the provious inspection? (record flow/vacuum mousurements below)	1)0		
1	' โม ป่าย spare fen unit present/available at the school? (เf NO, contact DOE DHS to ยางบาย a replacement ten is made evailable)	Nor	712 A. FXUM	
nci	* Are any lighta out on tim SSDS Monitoring System (Light panel)? Which one(e)?	120	11 1 1 XXIII	
C. ACTIONS TAKEN				
880\$ Fan	Moacuromonts:	MOTES COLLEGES	C. Inches	
	Vacuum			
\$F-1:	Spt in WC Date taken:			
SF-2:	in WC Dato takon:		The state of the s	
SSDS Riso	r Moasuroments:	Belikinski fary sellasy 14 a	THE PROPERTY OF THE PROPERTY O	
	Vaccum Flow			
VR-1:		CLW	Date taken:	
VR-2:	In WC VR-2:	CFM	Dato fakon:	
Inspectors	Signatures \mathcal{L}_{α}		Control of the contro	

Inspection Date/Time: 9/11/18				
	Purposo: (circle one) Monthly inspection Severe Condition inspe	ction (descri	be)	
		, Ae≊\No	Notified Person / Date	
NO NO	1. Walk the entire basement floor.	405		
<u> </u>	Any visible cracks in the floor or subgrade walls?	405	110/100/1110	
is ≥	* Any other visible openings (unintended) in the floor or subgrade wells?	110	1000	
A. VAPOR BARRIER INSPECTION	* Any construction activities affecting the floor or subgrade wells?	NO	A. Militaria and Mariana and A. Militaria and A. Militari	
BA	* Any visible cracks in any accessible pits?	νΟ		
	** Notification of DOE EHS is required if cracks are noted.	/	,	
₹ .	Include the following information: - Draw approximate location of floor/wall cracks/openings on site map.	ula		
4	- Note the langth and width of the crack/opening.	17/19		
	1. Walk the entire roof surface and check the SSDS risers at basement level.	1905		
ğ	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	120		
PEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO		
SSDS INSPECTION	Arc flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	NO		
	is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	MES	7/2 A 200m	
шi	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	127	1/2/01 4 4019	
C. ACTIONS TAKEN				
SSDS Fan	Measurements:	T, - This count		
	Vacuum			
SF4:	S PSi In WC Date taken:			
SF-2:	In WC Date taken:			
SSDS Rise	r Measuremonts:	encero-reintrate/ district	MANAGEMENT OF THE PROPERTY OF	
	Vaccum Flow			
VR-1:	In WC VR-1:	CFM	Date takon:	
VR-2:			Date taken:	
Inspector's	nspector's Signaturo:			

Inspection Date/Time: 10/6/15				
Purpaso: (circle one) Monthly Inspection Severe Condition Inspection (describe)				
1,	THE CONTRACT OF THE CONTRACT O		Yes / No *	Notified Parson / Date
O N	1. Walk the online basement floor.	FRED: 13 (ANG)	400	MITTER TOTAL MANAGEMENT AND LANGEST MANAGEMENT MANAGEMENT AND LANGES
ECT	Any visible careke in the floor or subgrade wells?	11701-71-0	Urs.	110/100/1110
N.	* Any other visible openings (unintended) in the floor or subgrade walls?	1-1-1-1-	Ow	The same
RUER	* Any construction activities affecting the floor or subgrade walls?		NO	
BAR	Any visible cracks in uny accessible pits?		120	***************************************
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is pupulmed if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/opening/r on site map. - Note the length and width of the crack/opening.		Np	***
Ni ni	Work the unitre roof surface and check the SSDS risers at basement level,	di Ailaran ecoco	Mas	THE RESERVE AND A STATE OF THE PARTY OF THE
NO.	* Any rust or other debris (bird mod, obs.) in or on SSDS Exhaud Shicko?	·	(1)0	
SSDS INSPECTION	 Are SSDS fan units functioning at a lower vacuum than the provious inspection? (record vacuum measurements below) 		1)/)	
SM S	 Are flow/vacuum readings at the SSDS rivers lower than the provious inspection? (racord flow/vacuum mensur/ments below) 		No	****
	Is the apera for trill present/available at the acheel? (If NO, controt DOE DHS to ensure a replacement for is made available)			712 A Proops
aci	* Arra may lights out on the SSDS Monttering System (Light panel)? Which one(s)?		(12/1	F12 18 17 QOP
C. ACTIONS TAKEN				THE STATE OF THE S
SSDS Fan	Measurements:	* * E1.44D #3##2000	THE REAL PROPERTY.	
	Vacuum			
9F-1:		ato takon:		
SF-2:	<u> </u>	ato takon:		
SSDS Rise	r'Measuremonts;	F. 84 <u>-8018-F-7378-77</u>	THE PARTY OF THE P	AND THE CONTRACT OF THE PROPERTY OF THE CONTRACT OF THE CONTRA
	Vaccum Flow			
	in WC VR-1:			Date taken:
VR-2:		·	CFM	Dato tokon;
inspector's	Signature:			

Inspection Date/Time: 11 125/16			
Purpose: (circle one) Monthly Inspection Severe Condition inspection (describe)			
		Yes / No *	Notified Person / Date
NO	1. Walk the entire basement floor.	yes	
ECT	Any visible cracks in the floor or subgrade walls?	Mes	110/100/10
NS.	* Any other visible openings (unintended) in the floor of subgrade wells?	00	
RIER	Any construction activities affecting the floor or subgrade walls?	NO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
BAR	Any visible cracks in any accessible pits?	110	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted, include the following information; Draw approximate location of floor/wall cracks/openings on sito map. Note the length and width of the crack/opening. 	NA	
	1. Welk the entire roof surface and check the SSDS risers at basement level.	,405	
NOT	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stacks?	w	
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO	
SSDS (NSPECTION	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	120	
B. SS	Is the space fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available)	د هالا د هالا	712 A Lasas
	Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	1/2	7(0) 11-2(0)
C. ACTIONS TAKEN	·		,
SSDS Fan	Measurements:		
	Vacdum		
SF-1:	5 ps/ in WC Date taken:	7	, <u>, , , , , , , , , , , , , , , , , , </u>
SF-2:	In WC Date takon:		
SSDS Rise	r Measuremonts:		and the second s
	Vaccum Fłow		
			Date taken:
VR-2:	In WC VR-2:	ĆFM	Date takon:
Inspector's Signature: Vb. 1.			

Inspection Date/Time: $12/22/18$				
	Purposo: (circle one) Monthly inspection Sovere Condition Inspection (describe)			
		Yes / No *	Notified Person / Date	
NOI	1. Walk the entire basement floor.	1105		
Ę,	* Any vielblo cracks in the floor or subgrade walla?	75	110/100/1117	
SS N	Any other visible openings (unintended) in the floor or subgrade walls?	NO	7	
RIER	* Any construction activities affecting the floor or subgrade walks?	NO		
BAR	Any visible cracks in any accessible pits?	110	, , , , , , , , , , , , , , , , , , , ,	
A. VAPOR BARRIER INSPECTION	 Notification of DOE EHS is required if cracks are noted. Include the following information: Draw approximate location of floor/wall cracks/openings on site map. Note the length and width of the crack/opening. 	NA		
	1. Walk the entire roof surface and check the SSDS risers at basement lovel.	-465		
SSDS INSPECTION	* Any rust or other debris (bird nest, etc.) In or on SSDS Exhaust Stacks?	NO		
SPEC	* Are SSDS fan units functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO		
NI SC	Are flow/vacuum readings at the SSDS risers lower than the previous inspection? (record flow/vacuum measurements below)	Po	1111	
	Is the spare fan unit present/available at the school? (If NO, contact DOE DHS to ensure a replacement fan is made available)	yes	712 A Ran	
<u> </u>	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	716 F F-02/4	
C. ACTIONS TAKEN			WHATAN 13.7	
SSDS Fan	Measurements:			
	Vacuum	12/	/ / / / / / / / / / / / / / / / / / / /	
·	in WC Date taken:	/	72/18.	
SF-2:	In WC Date taken:		/	
SSDS Rise	r Measurements:	······································	the state of the s	
	Vaccum Flow			
VR-1:	In WC VR-1:	СЕМ	Date taken:	
VR-2:	In WC VR-2;	CFM	Date teken:	
Inspector's	Signature:		THE STATE OF THE S	

Inspection Dato/Time: 1/19/19				
	Purpose: (circle one) Monthly inspection Severe Condition inspection (describe)			
	,	Yes / No *	Notified Person / Date	
S	1. Walk the entire basement floor.	405		
ECT.	* Any visible cracks in the floor or subgrade walls?	yas	110 100 /111	
. SS	* Any other visible openings (unintended) in the floor or subgrade walls?	Us.	10-11111	
A. VAPOR BARRIER INSPECTION	Any construction activities affecting the floor or subgrade walls?	10		
BAR	Any viaible cracks in any nocessible pita?	UD		
P.O.	1 Notification of DOE EHS is required if cracks are noted.	/		
ΥA	Include the following information: Draw approximate location of floor/wall cracks/openings on site map.	11/n		
4	Note the length and width of the crack/opening.	MA		
	1. Walk the entire roof surface and check the SSDS risers at basement lovel.	1763		
NOL	* Any rust or other debris (bird nest, etc.) in or on SSDS Exhaust Stecks?	110		
SPEC	* Are SSDS fan unils functioning at a lower vacuum then the previous inspection? (record vacuum measurements below)	No		
SSDS INSPECTION	* Are flow/vacuum roadings at the SSDS risers lower than the previous (nepaction? (record flow/vacuum measurements below)	120		
BS 63	 is the spare fan unit present/available at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	1900	712 A Zaom	
	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO		
C. ACTIONS TAKEN				
SSDS Fan	Woasurements:		/	
	Vacuum	. /		
SF-1:		- 1//	9/19	
SF-2:	in WC Date taken:	7		
		411		
SSDS Rise	r Measurements;		W.J. A. (1) . (1)	
	Vaccum Flow			
VR-1:	in WC VR-1:	CFM	Date takon:	
Ì		CFM	Dafe taken:	
Market and an				
Inspector's	Signature:			

	Inspection Date/Time: 2/10//9 Purpose: (circle one) Monthly Inspection Severe Condition Inspe	ction (descri	(00
	OLED A LUMBER OF THE PROPERTY	Yos / No *	Notified Person / Date
22.	1. Walk the onlire basement floor.	463	. , As as Michael Committee 12. (4/19) - 12. (4/19)
띮	* Any violate crucks in the floor or nutrigrado walls?	103	10/11/0/100
R S P	Any other visible openings (wilnfunded) in the flaor or subgrade welle?	NO	The second second
RIER	Any construction activities affecting the floor or subgrade walls?	NO.	776.
9.4R	Any visible cracks in any accessible pits?	NO	
A VAPOR BARRIER INSPECTION	** Notification of DOE CHS to required if cracks are noted, include the following intermation; - Draw approximate location of floor/wall cracks/openings on site map. - Note the length and whith of the crack/opening.	Who	
	1. Walk the untire roof surface and check the SSDS risers at basement lovel.	175	
O L	* Any rust or other dubrin (bird nest, etc.) In or on SSDS Exhaunt Stacke?	120	77-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
NH C	* Are SSOS fan units functioning at a lower vacation than the previous inspection? (record vacuum measurements helpy)	NO	
SSDS IKSPECTION	* Are flow/vacuum readings at the SSDS risers lower than the provious inspection? (record flow/vacuum moasurements below)	NO	- N.W
	in the spare fan unit present/avollable at the achoel? (If NO, contact DOE Orl3 to ensure a replacement len is made avollable)	1963	712 A 200m
tų	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	NO	7 12 77 70 77
G. ACTIONS TAKEN	Wall on the		
SSDS Fan	Measuromonts:	BEY" " . I B (181) B 27 45./	VALUE OF THE PROPERTY.
	Vacuum	/	· /,
SF-1:	S PS) In WC Date taken:	2/10	3//4
SF-2:	In WC Dato taken:		
SSDS Riso	r Measurementa:	d:: =1.50	enter the contract of the cont
	Vaccum Flow		
VR-1:		CFM	Date taken:
		CFM	Data takon:
	Signature:	'	To admit a 1 type again to the day of the control o

	napaction Date/Time: 3/26/19				
Purpose: (circle one) Monthly Inspection Severe Condition Inspection (describe)					
		Yes / No *	Notified Person / Date		
ž	t. Walk the entire basement floor.	-405			
ECT	Any yielble cracks in the floor or subgrade walls?	y ci	001/01/01		
INSE	Any other vizible openings (unintended) in the floor or subtrade wells?	No	·		
RIER	Any construction activities affecting the floor or subgrade walls?	10			
BAR	· Any visible cracks in any accessible pite?	NO			
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS is required if cracks are noted. Include the following information: - Draw approximate location of floor/wall cracks/openings on alte map. - Note the length and width of the crack/opening.	N/A			
	7. Walk the entire roof surface and chack the SSDS risors at basement level.	205			
NOT NO	* Any rust or other debris (bind neat, etc.) in or on SSDS Exhaust Stacke?	UD			
PEC	* Are SSDS fan unite functioning at a lower vacuum than the previous inspection? (record vacuum measurements below)	NO			
SSDS INSPECTION	 Are tlow/yacuum readings at the SSDS risers lower than the previous inspection? (record flow/yacuum measurements below) 	Lycs	Whotor bearing /No See		
	 is the spare fan unit proschVevallable at the school? (if NO, contact DOE DHS to ensure a replacement fan is made available) 	1965	212 A Dam		
Ш	* Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)?	,			
C. ACTIONS TAKEN	Are any lights out on the SSDS Monitoring System (Light panel)? Which one(s)? Shut Down the Sub/Shub Duo to motor Rofor/bearings/Heavy nose Cult for S Wicasurements:	50. 28 W YOGE /	3/21/19		
SSDS Fan	Weasurements:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,		
	Vacuum	. /			
SF-1:	2 psi in WC Date take	n:	2/19		
SF-2:	In WC Date take	n:			
SSD8 Rise	r Measurements:		namen (namen (namen namen		
	Vaccum Flow				
1	in WC VR-1:	— CFM CFM	Dato taken: Dato taken:		
VR-2:	In WC VR-2:	CFIVI	PAG IBUAN.		
Inspector's Signature: Jour -/o D					

1	napection Date/Timo: 4///0//9				
i	Purpose: (circle and) Monthly Inspection Severa Condition Insp	•			
i British i di d	(AP) 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19	Yes / No *	Notified Person / Date		
₹ .	1. Walk the entire busement fluor.	yes			
ECT	Any visible cracks in the floor of subgrade walla?	100			
장	Any other visible openings (uninterded) in the floor or subgrade walls?	136			
REE	Any construction activities effecting the floor or subgrade walls?	100			
E.A.R.	 Vuò n/clipie cuacka in aux accessiple bita; 	NO			
A. VAPOR BARRIER INSPECTION	Notification of DOE EHS to required if crucke are noted. Include the following information: - Draw approximate location of theoriwall cracks/openings on site map Note the length and width of the crack/opening.	UM			
	1. Walk the onlire coof surface and chack the SSDS rivers at basement level.	190			
NOT.	* Any rust or other debris (bird neet, sic.) in or on SSDS Exhaud Stacke?	100			
PEC	No SSDS fan units functioning at a lower vacuum than the provious impection? (record vacuum measurements below)	NO			
SSDS INSPECTION	Are tow/vacuum madings at the SSDS than hown than the previous inspection? (record flow/vacuum measurements bolow)	P(cc)	sel of serve		
	In the space for nelt present/avaliable at the school? (If NO, contact DOE OHS to ensure a reptacement for its made available)	19.2	out of survec		
ದೆ	THE PARTY OF THE P	16	A TOTAL AND THE STATE OF THE ST		
ACTIONS TAKEN	hair cracks lines on from 110/100/1110				
one E	SSDS Work ords Nonder 0074059	7	(1877). 1981-1977 (1971). 1982 жылын өз байын тайын байсын айын айын байсын айын айын айын айын айын айын айын		
อธบธ หลุก	Magsurements: Vacuum /				
SF-4:	(1) /m	n:			
SF-2:	······································	n;			
	- The Control of th		TO THE PERSON OF		
SSDS Rise	r Measuromonta:				
	Vaccum Flow	OFM	Onto teleses		
1	in WC	CFM CFM	Data takon: Date taken:		
VR-2;	In WC VR-2:	C21 (A)	Para minani		
Inspector	s Signatura: - Labor Ju Z		harmonia (1777 ° 1.11 Washington)		





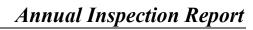
Attachment 2 Training Acknowledgement



104 East 25th St, 10th Floor New York, NY 10010-2917 www.cardnoatc.com 212-353-8280 Fax 212-353-8306

Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Location: M28
Custodian Fireman: Roberts Kamos
I, received annual refresher training on Engineering Controls Operation and Maintenance by ATC Group Services, LLC (ATC) on 4/2/19. As part of the annual refresher training I conducted a walkthrough with ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion of the daily logs and monthly inspection form.
Signed by: 105 - 2 ares Date: 4/2/19. Custodian/Fireman
Recommendations:
2) Repair replace ssos fan und ASAP & call (get Geles)
Bounde monthly & Semi-annual forms to ATC for review.
4) Seaf hair line cracks in Resms 100, 10 & 1010.





Attachment 3 Photographic Documentation



Photo 1: View of SSDS fan unit direct drive motor.



Photo 3: View of SSDS fan unit on the roof.



Photo 5: View of typical bare concrete floor in Room 110.



Photo 2: View of spare fan unit stored in Room 712.

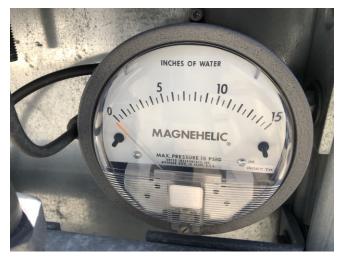


Photo 4: View of vacuum gauge for the SSDS fan unit.

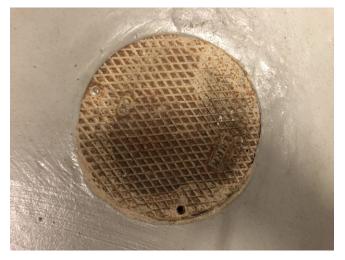
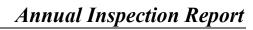


Photo 6: View of typical monitoring point in Room 114A.





Attachment 4 Annual Inspection Form

P.S./I.S. 281M

ANNUAL INSPECTION FORM

	1.16. 80
Inspecto	or's Name: Ask Gene / Weather Conditions: Sund
Inspecti	on Date: 1/2/19 Air Temperature (°F): 1/61/2
Inspecti	on Time:
Comme	nts:
A.	PRE INSPECTION CHECKLIST
/	THE MOPEONON CHECKES!
	Schedule Annual Inspection when school is not occupied by students.
0	* Review 12 Previous Monthly Inspection Checklists. do Ro provided
	Meet with Custodial Engineer and Principal to solicit comments/poncerns regarding the operation of the Engineering Controls
	over the last 12 months
	Conduct Annual Refresher Training with DOE EHS.
Į Ų,	* Follow proper safety protocols including lockout/tagout.
	Comments:
B.	SSDS SYSTEM INSPECTION
6	Walk the entire roof surface of school building amd check SSDS risers at basement I
1	Inspect fan stack guy wires.
1	Inspect monitoring points (look for obstructions, check manhote/bolts, quick connects).
0	Record vacuum gauge and flowmeter readings or reservices and SSDS fans (as applicable); review monthly data to check for
	decreases in now vacuum. Sells June - fallow of months (in land
	Ensure all SSDS accessories listed in section 15880 are functioning properly.
	Inspect bolls and set screws for lightness and rusty condition.
6	Inspect SSDS fan for cleanliness. Clean exterior surfaces only. Remove dust and greage on motor housing,
	Are the Indicator lights on the Building Management System functioning properly?
ы.	Is the spare fan unit present/available at the school? 1/6 - Rom 1/2
(Comments (see or hear anything unusual?):
C.	APOR BARRIER INSPECTION
	Valk all of the becoment floor
8	Review all cracks or other openings identified in first floor during previous inspections. Res 100, 110 8/105
0	Any new visible cracks in the floor?
0	Any new visible opening (unintended) in the floor?
12/	Any new visible cracks in accessible pits?
	Note the length of any new cracks/openings in the floor.
0 :	Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier
	comments:
,	Uninerità,
D 0	CDAID
	REPAIR ummarize geeded/completed repairs to Engineering Controls;
.5	Const &MS hubble 2) Ken Storet & Sens t & De late t
D	contest is a formal selection and so story work out?
	/////
li.	spector's Signature:





Attachment 5 Annual Monitoring Point Inspection Checklist

P.S/I.S. 281M ANNUAL MONITORING POINT INSPECTION CHECKLIST

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts intact?	Comments	
MP-J	Ground Storage	Y 1/13	8 IN	Hossin Sevents	×
MB-2	Compressor Room	Y 1/N	D W	1955M SCREETS	*
MP-3	Fire Pump Room	Y (N)	(₹)/ N		
MP-4	Water Service	Y (N)	(Y) N		



Attachment 6 Work Order

Unit : 1 W/O Type: Planner : 1 W/O Title	DSF DIVISION OF SCHOOL FACILITIES M Project: CO Priority: 04 W/O Dspln: H BORLAN ORLAN : 75/10X444/ PERFORM ANNUAL SSDS TRA tle: 75/02M281/ PERFORM ANNUAL SSDS TRA		<u>Work Order Package</u> 00741181 06
Written To Task Dspln	: M281		Rpt : TIPMC11 Date: 04/02/2019
			New York City DEPT. OF EDUCATION Page: 1
Work Order Ta	ask Written To		
Facility: Division: Equipment: Work Item: Equip. Tag: UTC: Catalog ID: Client/Act: Location: Cost Centr: Percentage:	DSF Unit : M Area : I ABLDG M281 Component: Eqt. List: Alt Tbl/Brkdwn: Job Type : C M00 96700001 000001 616 FIRST AV, NEW G839 Activity :	SC3 (Pa: O UCR W YORK, 1	Ops Review Reqd: N st 12 mo) :GN19
	JAL SSDS INSPECTION / TRAINING @ M281.		a.
Completion Co	omments on Work Performed		
	Completion Comments Re	quired	: N
Comments:			
Comments:			
Comments:			
Continued o	on Additional Sheets?:		

ANNUAL INSPECTION REPORT KIPS BAY (PUBLIC SCHOOL 281M) 425 EAST 35TH STREET NEW YORK, NY 10016

PREPARED FOR:



New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101

PREPARED BY:

environmental · Geotechnical building sciences · materials Testing 104 East 25th Street, 10th Floor New York, New York 10010-2917

Date of Issue: May 20, 2020

ATC Project No. Z214YI1828



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PROJECT DIRECTORY

OWNER/CLIENT: New York City Department of Education

Office of Environmental Health and Safety

44-36 Vernon Blvd.

Long Island City, New York 11101

PROJECT LOCATION: Kips Bay (Public School 281M)

425 East 35th Street New York, NY, 10016

PROJECT TECHNICAL SUPPORT New York City School Construction Authority

30-30 Thomson Avenue

Long Island City, New York 11101

STV Incorporated

225 Park Avenue South

New York, New York 10003

DESCRIPTION OF WORK: Review O&M plan and prior reports; review

custodian's logbook, walk-through visual inspection

ATC REPRESENTATIVES: Gilbert Gedeon, Principal Engineer

Otobong Eno, Inspector



EXECUTIVE SUMMARY

ATC Group Services, LLC (ATC) conducted the annual site inspection of the Engineering Controls as they relate to the Gas Vapor Barrier and the Sub-Slab Depressurization System (SSDS) at Kips Bay (Public School 281M) located at 425 East 35th Street New York, NY, 10016 on May 7, 2020.

During the inspection, ATC noted that the custodian's Monthly or Severe Condition Inspection Forms and the Routine and Preventative Maintenance Checklist were not available for this review year due to a change in custodial staff. The SSDS roof-top fan was observed to be operating as designed. The building manager had no access to the Building Management System (BMS) computer at the time of inspection, however, the system was reportedly connected to the SSDS. A spare fan unit was not available at the school. All four (4) monitoring points were checked and found to be in good condition. ATC did not observe any significant cracks in the ground floor and the surficial hairline cracks in Rooms 100, 110 and 111D which were smoke tested on May 8, 2018, and indicated no potential vapor barrier leaks through the hairline crack, had been sealed with grou.

Based on the aforementioned, ATC concludes that the Engineering controls have not changed and appear to be effective, and no changes have occurred that would reduce the ability of the controls to protect public health and the environment. However, Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff and made available to ATC at all times. A spare fan unit should be provided. These recommendations were brought to the attention of the custodial staff as part of the refresher training.



1.0 INTRODUCTION

ATC is pleased to provide this Annual Inspection Report to the New York City Department of Education Office of Environmental Health and Safety (NYC DOE/EHS) as it relates to Kips Bay (Public School 281M) located at 425 35th Street, New York, NY, 10016. The school is currently attended by approximately 433 students. This work was completed as per the request of NYC DOE.

The scope of work for this service included:

- 1. Review of the school custodian's inspection logs indicating his routine walk-through to identify any observed changes to the interior surfaces and roof mounted fan units;
- 2. SSDS roof vent inspection;
- 3. Ground floor inspection and exterior inspection for concrete cracks;
- 4. Verification of the condition of the monitoring points;
- 5. Review of prior reports; and
- 6. Photographic documentation of observations.

This report was developed to document: (a) the changes to the engineering controls if any, and (b) whether the program for maintenance and monitoring is being followed and is effective. Mr. Otobong Eno, under the direct supervision of Mr. Gilbert Gedeon, PE of ATC, conducted the annual site inspections on May 7, 2020. During the inspection, ATC was accompanied by Mr. Robert Ramos, the school's building manager.



2.0 ENGINEERING CONTROLS

According to the Operation and Maintenance (O&M) Plan prepared by STV Incorporated dated August 22, 2013, Public School 281M contains engineering controls that include a Gas Vapor Barrier and a Sub-Slab Depressurization System (SSDS) constructed beneath the school to prevent residual soil gas vapors from entering the building. A program for maintenance and monitoring was developed to ensure that the engineering controls implemented during the school's operation are properly maintained.

2.1 Fluid Applied Gas Vapor Barrier

The gas vapor barrier was installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier was installed above the SSDS gas permeable aggregate (gravel) layer below the ground floor slab.

2.2 Sub-Slab Depressurization System

An SSDS was also installed beneath the school as an added precaution to prevent any soil gas vapors from entering the school building in the future. The primary components of the SSDS include:

- Four (4) sub-slab suction pits located beneath the ground floor of the building;
- Piping connecting the sub-slab suction pits to one (1) vertical riser leading to one (1) roof top fan; and
- Four (4) monitoring points located throughout the perimeter of the ground floor.



3.0 SITE INSPECTIONS AND SSDS REPAIRS

3.1 Review of the Custodian's Inspection Logs

The following was discussed with Mr. Ramos:

- 1. The custodian's Monthly or Severe Condition Inspection Forms were not available due to a change in custodial staff.
- 2. The Routine and Preventative Maintenance Checklist was not available.
- 3. As part of the annual refresher training, ATC advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. ATC also advised the custodian to perform preventative maintenance and completing the checklist on a semiannual basis.

The training acknowledgement letter is included in Attachment 1.

3.2 ATC's Visual Observations

ATC conducted visual observations and photographic documentation while accompanied by Mr. Ramos. Site photographs are included in Attachment 2, the Annual Inspection Form is included in Attachment 3 and the Annual Monitoring Point Inspection Checklist is included in Attachment 4.

During the walkthrough inspection, ATC noted the following:

- The building manager had no access to the BMS computer at the time of inspection, however, the system was reportedly connected to the SSDS;
- The SSDS fan unit was operational;
- Hairline cracks previously observed in Rooms 100, 110 and 111D were sealed with grout; and
- A spare fan unit is not available at the school.

3.2.1 SSDS Roof Vent Inspection

- 1. ATC did not observe rust or other debris in the vicinity of the posts and sleeves of the vent stacks associated with the SSDS fan units;
- 2. SSDS fan stack guy wires were in good condition;
- 3. SSDS fan mounting and vibration isolators were intact;
- 4. Motor housing was intact and exterior surfaces were clean; and
- 5. Bolts and set screws were tight.



3.2.2 Ground Floor Inspection

ATC inspected the accessible areas of the ground floors and walls. ATC did not observe any significant concrete cracks penetrating into the ground floor during the annual inspection. The surficial hairline cracks in Rooms 100, 110 and 111D which were smoke tested on May 8, 2018, and indicated no potential vapor barrier leaks through the hairline crack had been sealed with grout.

ATC also checked the monitoring points associated with the SSDS system to verify their condition. All other monitoring points were observed to be in good condition.

ATC's observation of the ground concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC did not have access to the elevator pits.

3.2.3 Exterior Inspection

ATC inspected the perimeter of the property including paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion.



4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The building manager had no access to the BMS computer at the time of inspection, however, the system was reportedly connected to the SSDS;
- 2. The SSDS fan unit is operational as designed;
- 3. Surficial cracks previously observed in Rooms 100, 110 and 111D were sealed; and
- 4. A spare fan is not available in the school.

Based on document review and visual observations, ATC recommends the following:

- 1. Provide spare SSDS fan unit; and
- 2. Monthly and routine/preventative maintenance inspections should continue to be conducted and Monthly and Routine/Preventative Maintenance Forms should continue to be completed by the custodial staff and made available to ATC at all times.



5.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please contact us at (212) 353-8280.

Sincerely, ATC GROUP SERVICES, LLC



Gilbert Gedeon, PE Principal Engineer

cc: Y. Efstathiou N. Guevara





Attachment 1 Training Acknowledgement



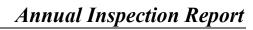
Location:

Custodian/Fireman:

104 East 25th St, 8th Floor New York, NY 10010-2917 www.atcgroupservices.com 212-353-8280 Fax 212-353-8306

Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Operation and Maintenance by ATC Group Services, LLC the annual refresher training I conducted a walkthrough covered by the Operation and Maintenance Plan were exploit the daily logs and monthly inspection form.	with ATC during which all elements
Signed by: Abc. To Scatter Custodian/Fireman	Date: 25/07/2620
Recommendations:	
- france monthly / Ronhi adp. Veryly BMS Junctionality and h	revenbahre ugseehin jorner. ohje ATE medubelye USAFied





Attachment 2 Photographic Documentation



Photo 1: View of building exterior.



Photo 3: View of SSDS fan unit on the roof.



Photo 5: View of typical sealed hairline crack in Room 110.



Photo 2: View of monitoring point in room X2



Photo 4: View of vacuum gauge for the SSDS fan unit.



Photo 6: View of typical monitoring point in Room 114A.





Attachment 3 Annual Inspection Form

P.S./I.S. 281M ANNUAL INSPECTION FORM

Inspect	or's Name:	Obling En Weather Conditions: 8mm
	on Date:	95 (07) 2020 Air Temperature (°F): (57)
1	on Time:	Wam
Comme		
Α.	PRE INSP	PECTION CHECKLIST
42	* Schedu	ale Annual Inspection when school is not occupied by students.
لمكأ		12 Previous Monthly Inspection Checklists. Not awarble
		ith Custodial Engineer and Principal to solicit comments/concerns regarding the operation of the Engineering Controls e last 12 months
		ct Annual Refresher Training with DOE EHS.
10		proper safety protocols including lockout/tagout.
	Comments	00-4
В.	cene eve	PTEM INCOPPORTOR
ь.		STEM INSPECTION entire roof surface of school building amd check SSDS risers at basement I
45		fan stack guy wires.
		monitoring points (look for obstructions, check manhole/bolts, quick connects).
		vacuum gauge and flowmeter readings on riser pipes and SSDS fans (as applicable); review monthly data to check for
	decreas	ses in flow/vacuum.
4		all SSDS accessories listed in section 15880 are functioning properly.
		bolts and set screws for tightness and rusty condition.
		SSDS fan for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing, indicator lights on the Building Management System functioning property?
		indicator lights on the Building Management System functioning properly? (wild with be very real pare fan unit present/available at the school?
. كلا		
	Comments	(see or hear anything unusual?):
		ARRIER INSPECTION
	Walk all of	f the basement floor
4	* Review a	all cracks or other openings identified in first floor during previous inspections. All Sealed (Long 100) 110, 110
4	 Any new 	visible cracks in the floor?
		visible opening (unintended) in the floor?
		visible cracks in accessible pits?
		length of any new cracks/openings in the floor.
□ ·		proximate location of floor cracks/openings that appear to have potential leak through vapor barrier
(Comments:	
	REPAIR	and discount to discount to Engineering Controls:
۸ څ	A. Co	needed/completed repairs to Engineering Controls:
hond	h spin	re fan unt @ honde mopeehin forms @ Veryy BNS fruchomble
ı	nspector's	s Signature:





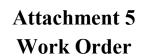
Attachment 4 Annual Monitoring Point Inspection Checklist

P.S/I.S. 281M
ANNUAL MONITORING POINT INSPECTION CHECKLIST

Monitoring Point ID	Room Number	Any obstructions over MP	Manhole cover secure and bolts intact?	Comments
MP-1	Ground Storage	Y /(Ñ)	(Y) / N	
MP-2	Compressor Room	Y /(N)	∂ / N	
MP-3	Fire Pump Room	Y /Q	Q / N	
MP-4	Water Service	Y /(N)	O / N	

Inspect all monitoring point locations for obstructions; check the manhole covers/bolts and quick connections inside the manhole.





Emily Snead

From: M281 Custodian <CM281@schools.nyc.gov>

Sent: Tuesday, July 21, 2020 1:40 PM

To: Nancy Guevara
Cc: Emily Snead

Subject:Re: [EXTERNAL] RE: URGENT: SSDS REPAIRSAttachments:Resized_Resized_20200422_085321.jpeg

Good Afternoon, Fan replaced May 4, 2020. Attached is the work order.

Matthew Wise Custodian Engineer M281 "The River School" 425 East 35th Street, Manhattan NY 10016

From: Nancy Guevara <nancy.guevara@atcgs.com>

Sent: Tuesday, July 21, 2020 8:16 AM

To: M281 Custodian <CM281@schools.nyc.gov>

Cc: Emily Snead <esnead@langan.com>

Subject: Fwd: [EXTERNAL] RE: URGENT: SSDS REPAIRS

Mr. Wise,

Can you provide the exact date that the SSDS fan unit was replaced at M281 a few months back. If you have the work order documenting the replacement, can you please send over.

Thank you,

Nancy G

Sent from my iPhone

Begin forwarded message:

From: Emily Snead <esnead@langan.com> Date: July 20, 2020 at 4:59:40 PM EDT

To: Nancy Guevara <nancy.guevara@atcgs.com>

Subject: [EXTERNAL] RE: URGENT: SSDS REPAIRS

Dnit : M N/O Type: CO Planner : JD N/O Title	<pre>IFFLE DIFFLEY : 02/02M281/R,</pre>	04 W/O Dspln: I				rder Pack 0598 02	age
Written To Task Dspln	: M281	Completed By:			Date:	TIPMC11 04/14/2 NEW YORK CITY DEPT. OF EDU	2020 JCATION
Work Order Tas	k Written To	rever in the second					
Work Item : Equip. Tag: UTC : Catalog ID: Client/Act: Location : Cost Centr: Percentage:	M00 96700001 0 G839 100.000 sk Instructions SLAB EXHAUSTER TO	Unit Area Component Eqt. List Tbl/Brkdwn Job Type 000001 616 FIRST AV Activity Acct No.	: ISC3 : : : : : : : : : : : : : : : : : : :	(Past UCR: GN	119	М	1281 :qd: N
Cont	Outside Services ract Rel Vend	lor 1918 02/02M28	Title	XHAUST N	IOTOR/		
	omments on Work Pe	rformed					
Comments:		Completion Commen	ts Kequi	ired :	N		
Comments:							

APPENDIX C

LOT 1 - ANNUAL INSPECTION FORMS: 2015-2020 REPORTING PERIOD, PREPARED BY LANGAN

Lot 1 - SITE INSPECTION CHECKLIST 2015 - 2016

Ins	pector Name: Monika Boguszewski Date: 11/30/2016		V	eathe	er Conditions:	Cloudy, 50's F
Re	ason for Inspection (i.e., routine, severe condition, etc.): Ann	nual I	nspe	ction	2016	
Ch	eck one of the following: Y: Yes N: No NA: Not Applicable)				
		Υ	N	NA	Normal Situation	Remarks
	General	_				
1	What are the current site conditions?	1		1	1	Lot 1 (entire site) was excavated to 24 feet below grade. The two towers (East and West) are under development (interior installations). The East and West towers include two sub-level floors. The East Tower is a 41-story building (including the roof level) and the West Tower is a 48-story building (including the roof level). Concrete cap covers the entire site.
2	Are all applicable site records (e.g., documentation of construction activity, most current easement, etc.) complete and up to date?	Υ			Y	
	Facement					
3	Has site use (restricted residential, commercial) remained the same?	Υ			Y	
4	Does it appear that all environmental easement restrictions have been followed?	Y			Υ	
5	Impermeable Cap Are there any indications of a breach in the capping system at the time of this inspection?	N			N	A cap throughout Lot 1; no breach in capping system was observed during the inspection.
6	Are there any cracks in the building slabs?	N			N	
7	Are there any cracks in the building walls?	N			N	No cracks were observe during the inspection.
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?	N			-	
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?				NA if N to 6/ Y if Y to 8	

	Additional remarks
**	If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

LANGAN

Lot 1 - SITE INSPECTION CHECKLIST 2016 - 2017

Site Name: Former Kips Bay Fuel Terminal	Location: 626 First Avenue,	New York F	Project Number: <u>170234201</u>				
Inspector Name: <u>Joe Yanowitz</u>	Date: <u>12/19/2017</u>	_Weather Condition	ns: <u>Sunny 40 - 50's F</u>				
Reason for Inspection (i.e., routine, severe condition, etc.): Annual Inspection 2017							
Check one of the following: Y: Yes N: No N	NA: Not Applicable						

					Normal	
		Υ	N	NA	Situation	Remarks
	General					
1	What are the current site conditions?				-1	The two towers (East and West) are under development (interior installations). The East and West towers include two sub-level floors. The East Tower is a 41-story building (including the roof level) and the West Tower is a 48-story building (including the roof level). Concrete cap of the lowest cellar covers the entire site.
2	Are all applicable site records (e.g., documentation of construction activity, most current easement, etc.) complete and up to date?	Y			Y	
	Easement					
3	Has site use (restricted residential, commercial) remained the same?	Υ			Y	
4	Does it appear that all environmental easement restrictions have been followed?	Υ			Y	
	Impermeable Cap					
5	Are there any indications of a breach in the capping system at the time of this inspection?	N			N	
6	Are there any cracks in the building slabs?	N			N	Only superficial cracks were observed during the inspection.
7	Are there any cracks in the building walls?	N			N	No cracks were observe during the inspection.
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?				-	
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?	NA			NA if N to 6/ Y if Y to 8	

	-			
If the answer to any of the above questions indicate n provided and, where applicable, documentation attack		•	•	•
Additional remarks				

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

Lot 1 - SITE INSPECTION CHECKLIST 2017 - 2018

Site	e Name: Former Kips Bay Fuel Terminal Location: 62	26 Firs	st Ave	enue,	New York	Project Number: <u>170234201</u>				
Ins	pector Name: Reid Balkind Date: 12/20/20)18		V	Veather Con	ditions: Overcast 40-50's F				
Re	Reason for Inspection (i.e., routine, severe condition, etc.): Annual Inspection 2018									
Ch	Check one of the following: Y: Yes N: No NA: Not Applicable									
					Normal					
		Υ	N	NA	Situation	Remarks				
	General									
1	What are the current site conditions?				1	The site includes two towers (east and west towers) with a shared cellar and sub-cellar. The East Tower is a 41-story building (including roof level) and the West Tower is a 48-story building (including roof level).				
2	Are all applicable site records (e.g., documentation of construction activity, most current easement, etc.) complete and up to date?	Y			Y					
	Easement									
3	Has site use (restricted residential, commercial) remained the same?	Y			Y					
4	Does it appear that all environmental easement restrictions have been followed?	Υ			Y					
	Impermeable Cap									
5	Are there any indications of a breach in the capping system at the time of this inspection?		N		N					
6	Are there any cracks in the building slabs?		N		N	Car lifts anchored into slab with 3-Inch bolts and sealed with epoxy. Only superficial cracks were observed during inspection				

***	If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.
	Additional remarks

Ν

Ν

NA

Ν

NA if N to 6/

Y if Y to 8

Minor cracks have been recently sealed using

injected grout. No other cracks were observed

during inspection.

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

LANGAN

this inspection?

being followed?

Are there any cracks in the building walls?

Is there any construction activity, or indication of any

construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of

If YES to number 8, is there documentation that the Soil

Management Plan, HASP, and CAMP for the site was/is

Lot 1 - SITE INSPECTION CHECKLIST 2018 - 2019

Ins	pector Name: <u>Jack Donelan</u> Date: <u>12/20/2019</u>			We	ather Condition	ons: <u>Clear, 20's F</u>
Rea	ason for Inspection (i.e., routine, severe condition, etc.): Ann	nual I	nspe	ction	2019	
Ch	eck one of the following: Y: Yes N: No NA: Not Applicable)				
		Υ	N	NA	Normal Situation	Remarks
1	What are the current site conditions?					The cite includes two towers (east and west
ı	what are the current site conditions?					The site includes two towers (east and west towers) with a shared cellar and sub-cellar. The East Tower is a 41-story building (including roof level) and the West Tower is a 48-story building (including roof level).
2	Are all applicable site records (e.g., documentation of construction activity, most current easement, etc.) complete and up to date?	Υ			Y	
	Easement					
3	Has site use (restricted residential, commercial) remained the same?	Υ			Y	
4	Does it appear that all environmental easement restrictions have been followed?	Y			Y	
5	Impermeable Cap Are there any indications of a breach in the capping system at the time of this inspection?		N		N	
6	Are there any cracks in the building slabs?		N		N	Car lifts anchored into slab with 3-Inch bolts and sealed with epoxy. Only surficial cracks were observed during inspection.
7	Are there any cracks in the building walls?		N		N	Minor cracks have been recently sealed using injected grout. No other cracks were observed during inspection.
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?		N		-	V
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?				NA if N to 6/ Y if Y to 8	
***	If the answer to any of the above questions indicate no provided and, where applicable, documentation attached Additional remarks		-		-	

Lot 1 - SITE INSPECTION CHECKLIST 2018 - 2019

Check one of the following: Y: Yes N: No NA: Not Applicable

			Normal	
Υ	N	NA	Situation	Remarks

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

LANGAN Page 5 of 5

APPENDIX D

LOT 1 - INSTITUTIONAL AND ENGINEERING CONTROLS
CERTIFICATION FORM



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	Site Details e No. C231014		Box 1		
Sit	e Name Kip	ps Bay Fuel Terminal (First Ave.prop)			
Cit Co	e Address: (y/Town: Ne unty:New Yo e Acreage:	'ork)16-		
Re	porting Perio	od: June 14, 2015 to June 14, 2020			
				YES	NO
1.	Is the infor	mation above correct?		X	
	If NO, inclu	ude handwritten above or on a separate sheet.			
2.		or all of the site property been sold, subdivided, merged, mendment during this Reporting Period?	, or undergone a		X
3.		been any change of use at the site during this Reporting CRR 375-1.11(d))?	Period		X
4.	•	federal, state, and/or local permits (e.g., building, dischar e property during this Reporting Period?	rge) been issued	X	
		wered YES to questions 2 thru 4, include documenta mentation has been previously submitted with this co			
5.	Is the site of	currently undergoing development?			X
				Box 2	
				YES	NO
6.		ent site use consistent with the use(s) listed below? -Residential, Commercial, and Industrial		X	
7.	Are all ICs/	/ECs in place and functioning as designed?		X	
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.				
Α (Corrective M	leasures Work Plan must be submitted along with this f	form to address th	iese issi	ues.
Sig	nature of Ow	vner, Remedial Party or Designated Representative	 Date		

		Box 2	A
_		YES	NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		×
	If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	
	If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		
SITI	E NO. C231014	Вох	· 3

Description of Institutional Controls

<u>Parcel</u> <u>Owner</u> <u>Institutional Control</u>

967-1 616 First Avenue LLC

Ground Water Use Restriction Landuse Restriction Site Management Plan

IC/EC Plan

- 1. The Property may only be used for restricted residential and commercial use below the Development Depth provided that the long term Engineering and Institutional Controls included in the Site Management Plan (SMP) are employed. No environmental easements, engineering controls, institutional controls, or any other consents, approvals, or authorizations are required for any activities above the Development Depth.
- 2. All future activities on the Property that will disturb remaining contaminated material must be conducted in accordance with the SMP; and,
- 3. The use of the groundwater underlying the Property is prohibited without treatment rendering it safe for intended use.

967-2 NYC School Construction Authority

Ground Water Use Restriction Landuse Restriction IC/EC Plan

Site Management Plan

- 1. The Property may only be used for restricted residential and commercial use below the Development Depth provided that the long term Engineering and Institutional Controls included in the Site Management Plan (SMP) are employed. No environmental easements, engineering controls, institutional controls, or any other consents, approvals, or authorizations are required for any activities above the Development Depth.
- 2. All future activities on the Property that will disturb remaining contaminated material must be conducted in accordance with the SMP: and.
- 3. The use of the groundwater underlying the Property is prohibited without treatment rendering it safe for intended use.

Box 4

Description of Engineering Controls

 a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification; b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete. YES NO 						
Fencing/Access Control Cover System The cover system at the site includes greater than two feet of cover consisting of building structures, clean fill, landscaping, and/or concrete and asphalt paving. 967-2 Cover System Fencing/Access Control The site was partially backfilled with with a minimum of two feet and as much as 20 feet of clean sand and crushed stone and is surrounded by a security fence. Box 5 Periodic Review Report (PRR) Certification Statements 1. I certify by checking "YES" below that: a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification; b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete. YES NO If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true: (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control and/or Engineering Control(s) employed at this site is unchanged						
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Signature of Owner, Remedial Party or Designated Representative Date	A	A Corrective Measures Work Plan must be submitted along with this form to address	these is	sues.		
CIMINATO OF CANTOL INCHIMINE ALLY OF DESIGNATION OF INCHIMINE	-	Signature of Owner, Remedial Party or Designated Representative Date				

IC CERTIFICATIONS SITE NO. C231014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Michael Stern at _	print business address			
am certifying asOWner	(Owner or Remedial Party)			
for the Site named in the Site Details Section of this form.				
Signature of Owner, Remedial Party, or Desi	gnated Representative Date			

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jason Hayes

print name

at 21 Penn Plaza, 8th Floor, New York, NY print business address

am certifying as a Qualified Environmental Professional for the 616 First Avenue LLC

(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)





NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 1ST AVENUE MANHATTAN

Job Type: NB - NEW BUILDING

View Permit History | Printable (PDF) version of this Permit

DOB NOW: Inspections

Job No: 121331059 Fee: STANDARD Permit No: 121331059-01-NB Issued: 08/02/2019 Expires: 08/01/2020 Seq. No.: Filing Date: 08/02/2019 RENEWAL ISSUED Status: 09 Work: Proposed Job Start: 06/29/2018 Work Approved: 10/01/2014

NEW BUILDING -

NEW BUILDING CONSTRUCTION

se: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Site Fill: ON-SITE

Review is requested under Building Code: 2008

Total Number of Dwelling Units at Location: 761
Number of Dwelling Units Occupied During Construction: 361

Adding more than three stories: No Removing one or more stories: No

Performing work in 50% or more of the area of the building: No Demolishing 50% or more of the area of the building: No

Performing a vertical or horizontal enlargement adding more than 25% of the area of the building: No

Mechanical equipment other than handheld devices to be used for demolition or removal of debris to be used: No

Altering 10% or more of the existing floor surface area of the building: No

Approved work includes concrete: Yes
Concrete work has been completed: No
Requesting concrete exclusion now: No

Work includes 2,000 cubic yards or more of concrete: No

Site Safety: RELEASE CS-SSM-SSC BY BEST mandated on 07/31/2019

| | GENERAL | | Issued to: MICHAEL STERN | CONTRACTOR - GC 611852 |

REGISTERED:

Business: JDS CONSTRUCTION GROUP*

104 5TH AVE, 9TH FL NEW YORK NY 10011 Phone: 212-974-2844

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

BIS Menu | Permit Data





NYC Department of Buildings **Work Permit Data**

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 WEST 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Job Type: A2 - ALTERATION TYPE 2

DOB NOW: Inspections

STANDARD Job No: 140837842 Fee: Permit No: 140837842-01-EW-FP Expires: Issued: 04/26/2019 02/26/2020 Seq. No.: 01 Filing Date: 04/26/2019 INITIAL Status: ISSUED Work: Proposed Job Start: 04/26/2019 Work Approved: 04/25/2019

ALTERATION TYPE 2 - FIRE SUPPRESSION

FILING FOR KITCHEN RANGEHOOD FIRE SUPPRESSION SYSTEM IN CONJUNCTION WITH JOB#123597722, AS SHOWN ON PLAN. COOKING EQUIPMENT, FIRE SUPP SHUTOFF VALVE AND COOKING EXHAUST SYSTEM FILED UNDER JOB#123597722. NO CHANGE IN USE, OCCUPANCY,

OR EGRESS

RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47 lise:

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2014

Total Number of Dwelling Units at Location: 761 Number of Dwelling Units Occupied During Construction: 702 Altering 10% or more of the existing floor surface area of the building: No

Issued to: DOUGLAS L COGER FIRE SUPPRESSION CONTRACTOR C Business: RELIABLE FIRE PROT. INC. License No: FS 000151 77 WATER STREET, 8TH FLOOR NEW YORK NY Phone: 646-415-7707

f you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York

BIS Menu | Property Profile | Property Permits | Permit Data | Back





NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 WEST 1 AVENUE MANHATTAN
BIN: 1089237 Block: 967 Lot: 1 Job Type: A2 - ALTERATION TYPE 2

Printable (PDF) version of this Permit | Inspection History

DOB NOW: Inspections

123156379 STANDARD Job No: Fee: Permit No: 123156379-01-EW-SP Issued: 03/26/2019 Expires: 06/07/2020 Seq. No.: Filing Date: 03/26/2019 INITIAL Status: ISSUED Work: Proposed Job Start: 03/26/2019 Work Approved: 12/21/2018

ALTERATION TYPE 2 - SPRINKLER

INSTALLATION OF NEW SPRINKLER SYSTEM AS PER PLANS FILED HEREWITH. NO CHANGE TO

USE, OCCUPANCY OR EGRESS PROPOSED UNDER THIS APPLICATION.

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2014

Total Number of Dwelling Units at Location: 761

Number of Dwelling Units Occupied During Construction: 761

Altering 10% or more of the existing floor surface area of the building: No

Issued to: DAVID M ISRAEL FIRE SUPPRESSION CONTRACTOR A

Business: RAEL AUTOMATIC SPR.CO INC

18 EAST 50TH STREET NEW YORK NY 10022

Phone: 212-302-1484

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

BIS Menu | Permit Data





NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Job Type: A2 - ALTERATION TYPE 2

Printable (PDF) version of this Permit | Inspection History

DOB NOW: Inspections

Job No: 123597722 Fee: STANDARD 06/07/2020 Permit No: 123597722-01-PL Issued: 03/26/2019 Expires: Seq. No.: Filing Date: 03/26/2019 INITIAL Status: ISSUED 01 Work: Proposed Job Start: 03/26/2019 Work Approved: 03/11/2019

PLUMBING - ALTERATION TYPE 2

TENANT BUILD OUT OF EXISTING COMMERCIAL SPACE AT FIRST FLOOR. NO CHANGE TO USE,

OCCUPANCY OR EGRESS PROPOSED UNDER THIS APPLICATION.

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 1968

Total Number of Dwelling Units at Location: 761

Number of Dwelling Units Occupied During Construction: 761

Altering 10% or more of the existing floor surface area of the building: No

 Issued to:
 EDWARD J SWEENEY
 MASTER PLUMBER

 Business:
 CITY GAS HTG SVC CO INC
 License No: MP 001891

 431 BARRETTO STREET BRONX NY 10474
 Phone: 718-328-8396

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

BIS Menu | Permit Data





NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 WEST 1 AVENUE MANHATTAN
BIN: 1089237 Block: 967 Lot: 1 Job Type: A2 - ALTERATION TYPE 2

DOB NOW: Inspections

Job No: STANDARD 123597722 Fee: Permit No: 123597722-01-EW-MH 03/19/2019 05/15/2019 Issued: Expires: Seq. No.: 01 Filing Date: 03/19/2019 INITIAL Status: ISSUED Proposed Job Start: 03/19/2019 Work: Work Approved: 03/11/2019

ALTERATION TYPE 2 - MECH/HVAC

TENANT BUILD OUT OF EXISTING COMMERCIAL SPACE AT FIRST FLOOR. NO CHANGE TO USE,

OCCUPANCY OR EGRESS PROPOSED UNDER THIS APPLICATION.

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Issued to: RICHARD MILLETTE

Review is requested under Building Code: 1968

Total Number of Dwelling Units at Location: 761

Number of Dwelling Units Occupied During Construction: 761

Altering 10% or more of the existing floor surface area of the building: No

GENERAL CONTRACTOR - NON- GC 007104

REGISTERED:

Business: GODFREY'S REFRIGERATION 1094 UTICA AVENUE BROOKLYN NY 11203

Phone: 718-345-0729

If you have any questions please review these <u>Frequently Asked Questions</u>, the <u>Glossary</u>, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 WEST 1 AVENUE MANHATTAN

Job Type: A2 - ALTERATION TYPE 2

CONCRETE WORK NOT AUTHORIZED - CONCRETE PLACEMENT, FORMWORK, STEEL REINFORCING NOT PERMITTED

DOB NOW: Inspections

Job No: Fee. STANDARD 123597722 Permit No: 123597722-01-EW-OT Issued: 03/12/2019 Expires: 12/03/2019 Seq. No.: Filing Date: 03/11/2019 INITIAL Status: ISSUED 01 Proposed Job Start: 03/12/2019 Work Approved: 03/11/2019 Work:

ALTERATION TYPE 2 - GEN. CONSTR.

TENANT BUILD OUT OF EXISTING COMMERCIAL SPACE AT FIRST FLOOR. NO CHANGE TO USE,

OCCUPANCY OR EGRESS PROPOSED UNDER THIS APPLICATION.

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 1968

Total Number of Dwelling Units at Location: 0

Number of Dwelling Units Occupied During Construction: 0

Adding more than three stories: No Removing one or more stories: No

Performing work in 50% or more of the area of the building: No Demolishing 50% or more of the area of the building: No

Performing a vertical or horizontal enlargement adding more than 25% of the area of the building: No

Mechanical equipment other than handheld devices to be used for demolition or removal of debris to be used: No

Altering 10% or more of the existing floor surface area of the building: No

Approved work includes concrete: No Concrete work has been completed: No Requesting concrete exclusion now: No

Work includes 2,000 cubic yards or more of concrete: No

GENERAL

Issued to: JAMES FOSTER CONTRACTOR - NON- GC 616078

REGISTERED:

Business: DCI CONSTRUCTION MANAGEME

2242 BOLLINGER MILL ROAD FINKSBURG MD 21048 Phone: 410-707-4830

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http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 FIRST AVENUE MANHATTAN

Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122764473 Fee: STANDARD Permit No: 122764473-01-EQ-SH Issued: 05/09/2018 Expires: 05/09/2019 Filing Date: 05/09/2018 RENEWAL ISSUED Seq. No.: Status: Work: Proposed Job Start: 04/14/2016 Work Approved: 04/14/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SIDEWALK-SHED

SIDEWALK SHED PROPOSED INSTALLATION OF SIDEWALK SHED AS PER PLAN NO CHANGE IN

USE, OCCUPANCY OF EGRESS UNDER THIS APPLICATION.

Electrical Application Number for Shed Lighting: M380278

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Review is requested under Building Code: 2014

GENERAL TOP NON C

CONTRACTOR - NON- GC 607447

REGISTERED:

Business: SPRING SCAFFOLDING LLC

Issued to: WILLIAM LAFFEY

49-30 31ST PLACE LONG ISLAND CIT NY 11101 Phone: 718-392-4921

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 FIRST AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122764455 Fee: STANDARD Permit No: 122764455-01-EQ-SF Issued: 04/16/2018 Expires: 04/16/2019 Seq. No.: 03 Filing Date: 04/16/2018 ERENEWAL Status: ISSUED Work: Proposed Job Start: 04/14/2016 Work Approved: 04/14/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SCAFFOLD

PIPE SCAFFOLD PROPOSED INSTALLATION OF PIPE SCAFFOLD AS PER PLAN NO CHANGE IN

USE, OCCUPANCY OF EGRESS UNDER THIS APPLICATION.

Use: RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Review is requested under Building Code: 2014

GENERAL CONTRACTOR - NON- GC 607447 REGISTERED: Issued to: WILLIAM LAFFEY

Business: SPRING SCAFFOLDING LLC

Phone: 718-392-4921 49-30 31ST PLACE LONG ISLAND CIT NY 11101

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 FIRST AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

122764455 Fee: STANDARD Job No: Permit No: 122764455-01-EQ-SF Issued: 04/16/2018 Expires: 04/16/2019 Seq. No.: Filing Date: 04/16/2018 ERENEWAL Status: ISSUED Work: Proposed Job Start: 04/14/2016 Work Approved: 04/14/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SCAFFOLD

PIPE SCAFFOLD PROPOSED INSTALLATION OF PIPE SCAFFOLD AS PER PLAN NO CHANGE IN

USE, OCCUPANCY OF EGRESS UNDER THIS APPLICATION.

RES - RESID. BLDG - OLD CODE Landmark: NO Stories: 47

Review is requested under Building Code: 2014

GENERAL Issued to: WILLIAM LAFFEY

CONTRACTOR - NON- GC 607447

REGISTERED:

Business: SPRING SCAFFOLDING LLC

49-30 31ST PLACE LONG ISLAND CIT NY 11101 Phone: 718-392-4921

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 1 AVENUE MANHATTAN Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: <u>122868049</u> Permit No: 122868049-01-EQ-SH

Issued: Filing Date: 10/27/2017 10/27/2017 RENEWAL
 Fee:
 STANDARD

 Expires:
 10/27/2018

 Status:
 ISSUED

Status: ISSUED Work Approved: 11/04/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SIDEWALK-SHED

INSTALLATION OF 128 LINEAR FEET OF HEAVY DUTY SIDEWALK SHED DURING NEW BUILDING CONSTRUCTION, FILED SEPARATELY. SIDEWALK SHED SHALL COMPLY WITH CHAPTER #33 OF THE NYC BUILDING CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS

APPLICATION.

Seq. No.:

Work:

Electrical Application Number for Shed Lighting:

M359882 Landmark:

Proposed Job Start: 11/04/2016

NO Stor

Stories: 47

Review is requested under Building Code: 2014

Issued to: COLM COEN

GENERAL CONTRACTOR - NON- GC 037441 REGISTERED:

Business: S&E BRIDGE & SCAFFOLD LLC

700 COMMERCIAL AVE GROUND FL CARLSTADT NJ

R-2 - RESIDENTIAL: APARTMENT HOUSES

07072

Phone: 201-933-3418

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 FIRST AVENUE MANHATTAN
BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

DOB NOW: Inspections

123289093 Fee: STANDARD Job No: Permit No: 123289093-01-EQ-OT Issued: 10/23/2017 Expires: 10/23/2018 Filing Date: 10/23/2017 INITIAL ISSUED Seq. No.: 01 Status: Proposed Job Start: 10/23/2017 Work: Work Approved: 10/23/2017

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

INSTALLATION OF WORK PLATFORM AS PER PLANS. WORK SHALL COMPLY WITH THE NEW YORK

CITY BUILDING CODE. NO CHANGES IN USE, EGRESS, OR OCCUPANCY.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

Issued to: WILLIAM LOUGHEED CONTRACTOR - NON- GC 615667
REGISTERED:

Business: CNB CONTRACTING CORP 1140 GRINNELL PLACE BRONX NY 10474

Phone: 718-618-7630

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1

Issued:

Filed At: 626 FIRST AVENUE MANHATTAN Job Type: A3 - ALTERATION TYPE 3

DOB NOW: Inspections

123289093 Job No:

Work:

Permit No: 123289093-01-EQ-OT Seq. No.:

Filing Date: Proposed Job Start: 10/23/2017

10/23/2017 10/23/2017 INITIAL Fee: Expires: 10/23/2018 ISSUED Status: Work Approved: 10/23/2017

STANDARD

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

INSTALLATION OF WORK PLATFORM AS PER PLANS. WORK SHALL COMPLY WITH THE NEW YORK CITY BUILDING CODE. NO CHANGES IN USE, EGRESS, OR OCCUPANCY.

R-2 - RESIDENTIAL: APARTMENT HOUSES Use:

Landmark:

NO

Stories: 47

Review is requested under Building Code: 2014

GENERAL CONTRACTOR - NON- GC 615667 REGISTERED:

Business: CNB CONTRACTING CORP 1140 GRINNELL PLACE BRONX NY 10474

Issued to: WILLIAM LOUGHEED

Phone: 718-618-7630

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 1ST AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122732454 STANDARD Permit No: 122732454-01-EQ-OT Issued: 06/08/2017 Expires: 06/08/2018 Seq. No.: Filing Date: 06/08/2017 RENEWAL Status: ISSUED Work: Proposed Job Start: 04/25/2016 Work Approved: 03/29/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

USE OF LIFTING DEVICE ON LEVELS 3 TO 48 ON WEST TOWER AND 3 TO 42 ON EAST TOWER AS PER PLANS FILED HEREWITH. THIS WORK IS IN CONJUNCTION WITH NB-121331059.

R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

GENERAL

CONTRACTOR - NON- GC 614402

REGISTERED:

Business: ELICC AMERICAS CORPORATIO

Issued to: FRANZ STRECKER

2181 MEYERS AVE SUITE C ESCONDIDO CA 92029 Phone: 760-233-0066

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NYC Department of Buildings **Work Permit Data**

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1

Filed At: 626 1ST AVENUE MANHATTAN Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122775862

Work:

Permit No: 122775862-01-EQ-OT Seq. No.: 02

Issued: Filing Date: Proposed Job Start: 05/03/2016

05/05/2017 05/05/2017 RENEWAL Fee: STANDARD Expires: 05/05/2018 Status: ISSUED

Work Approved: 05/03/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

FILING FOR A CONSTRUCTION EQUIPMENT FOR MINI CRAWLER SPIDER CRANE URW306 &

URW506 AS SHOWN ON DRAWINGS FILED HEREWITH.

R-2 - RESIDENTIAL: APARTMENT HOUSES Review is requested under Building Code: 2014

Landmark:

NO

Stories: 47

GENERAL

CONTRACTOR - GC 611852 REGISTERED:

Business: JDS CONSTRUCTION GROUP* 104 5TH AVE, 9TH FL NEW YORK NY 10011

Issued to: MICHAEL STERN

Phone: 212-974-2844

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122775862 Fee: STANDARD Permit No: 122775862-01-EQ-OT Issued: 05/05/2017 Expires: 05/05/2018 Status: Filing Date: 05/05/2017 RENEWAL ISSUED Seq. No.: 02 Work: Proposed Job Start: 05/03/2016 Work Approved: 05/03/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

FILING FOR A CONSTRUCTION EQUIPMENT FOR MINI CRAWLER SPIDER CRANE URW306 &

URW506 AS SHOWN ON DRAWINGS FILED HEREWITH.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

Issued to: MICHAEL STERN GENERAL CONTRACTOR - GC 611852 REGISTERED:

Business: JDS CONSTRUCTION GROUP*

104 5TH AVE, 9TH FL NEW YORK NY 10011 Phone: 212-974-2844

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 1ST AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122732454 STANDARD Permit No: 122732454-01-EQ-OT Issued: 06/08/2017 Expires: 06/08/2018 Seq. No.: Filing Date: 06/08/2017 RENEWAL Status: ISSUED Work: Proposed Job Start: 04/25/2016 Work Approved: 03/29/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

USE OF LIFTING DEVICE ON LEVELS 3 TO 48 ON WEST TOWER AND 3 TO 42 ON EAST TOWER AS PER PLANS FILED HEREWITH. THIS WORK IS IN CONJUNCTION WITH NB-121331059.

R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

GENERAL

CONTRACTOR - NON- GC 614402

REGISTERED:

Business: ELICC AMERICAS CORPORATIO

Issued to: FRANZ STRECKER

2181 MEYERS AVE SUITE C ESCONDIDO CA 92029 Phone: 760-233-0066

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NYC Department of Buildings **Work Permit Data**

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1

Filed At: 626 1ST AVENUE MANHATTAN Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122775862

Work:

Permit No: 122775862-01-EQ-OT Seq. No.: 02

Issued: Filing Date: Proposed Job Start: 05/03/2016

05/05/2017 05/05/2017 RENEWAL Fee: STANDARD Expires: 05/05/2018 Status: ISSUED

Work Approved: 05/03/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

FILING FOR A CONSTRUCTION EQUIPMENT FOR MINI CRAWLER SPIDER CRANE URW306 &

URW506 AS SHOWN ON DRAWINGS FILED HEREWITH.

R-2 - RESIDENTIAL: APARTMENT HOUSES Review is requested under Building Code: 2014

Landmark:

NO

Stories: 47

GENERAL

CONTRACTOR - GC 611852 REGISTERED:

Business: JDS CONSTRUCTION GROUP* 104 5TH AVE, 9TH FL NEW YORK NY 10011

Issued to: MICHAEL STERN

Phone: 212-974-2844

you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

View Permit History

DOB NOW: Inspections

Job No: 122775862 Fee: STANDARD Permit No: 122775862-01-EQ-OT Issued: 05/05/2017 Expires: 05/05/2018 Status: Filing Date: 05/05/2017 RENEWAL ISSUED Seq. No.: 02 Work: Proposed Job Start: 05/03/2016 Work Approved: 05/03/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

FILING FOR A CONSTRUCTION EQUIPMENT FOR MINI CRAWLER SPIDER CRANE URW306 &

URW506 AS SHOWN ON DRAWINGS FILED HEREWITH.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

Issued to: MICHAEL STERN GENERAL CONTRACTOR - GC 611852 REGISTERED:

Business: JDS CONSTRUCTION GROUP*

104 5TH AVE, 9TH FL NEW YORK NY 10011 Phone: 212-974-2844

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 1ST AVENUE MANHATTAN

Job Type: SG - SIGN

DOB NOW: Inspections

Job No: 123017573 Fee: STANDARD Permit No: 123017573-01-SG Issued: 03/08/2017 Expires: NONE ISSUED Seq. No.: 01 Filing Date: 03/08/2017 INITIAL Status: Work: Proposed Job Start: 03/08/2017 Work Approved: 03/08/2017 SIGN -

ILLUMINATED NON ADVERTISING ACCESSORY SIGN - INSIDE PROPERTY LINE. NO CHANGE TO

USE EGRESS OR OCCUPANCY.

Use: N/A Landmark: NO Stories: 0

Review is requested under Building Code: 2014

 Issued to:
 ARTHUR TORRONE JR
 MASTER SIGN HANGER

 Business:
 FRANK TORRONE & SONS INC
 License No: SI 000210

 147 WAYNE ST. UNIT 1 STATEN ISLAND NY 10310
 Phone: 718-273-7600

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1

Filed At: 626 1ST AVENUE MANHATTAN

Job Type: SG - SIGN

DOB NOW: Inspections

123011454 STANDARD Job No: Fee: Permit No: 123011454-01-SG Issued: 03/08/2017 Expires: NONE Seq. No.: Filing Date: 03/08/2017 INITIAL Status: ISSUED Work: Proposed Job Start: 03/08/2017 Work Approved: 03/08/2017

SIGN -

ILLUMINATED NON ADVERTISING ACCESSORY SIGN - INSIDE PROPERTY LINE. NO CHANGE TO

USE EGRESS OR OCCUPANCY.

Use: N/A Landmark: NO Stories: 0

Review is requested under Building Code: 2014

 Issued to:
 ARTHUR TORRONE JR
 MASTER SIGN HANGER

 Business:
 FRANK TORRONE & SONS INC
 License No: SI 000210

 147 WAYNE ST. UNIT 1 STATEN ISLAND NY 10310
 Phone: 718-273-7600

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 1ST AVENUE MANHATTAN

Job Type: SG - SIGN

DOB NOW: Inspections

Job No: 123017573 Fee: STANDARD Permit No: 123017573-01-SG Issued: 03/08/2017 Expires: NONE ISSUED Seq. No.: 01 Filing Date: 03/08/2017 INITIAL Status: Work: Proposed Job Start: 03/08/2017 Work Approved: 03/08/2017

SIGN -

ILLUMINATED NON ADVERTISING ACCESSORY SIGN - INSIDE PROPERTY LINE. NO CHANGE TO

USE EGRESS OR OCCUPANCY.

Use: N/A Landmark: NO Stories: 0

Review is requested under Building Code: 2014

 Issued to:
 ARTHUR TORRONE JR
 MASTER SIGN HANGER

 Business:
 FRANK TORRONE & SONS INC
 License No: SI 000210

 147 WAYNE ST. UNIT 1 STATEN ISLAND NY 10310
 Phone: 718-273-7600

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Filed At: 626 1ST AVENUE MANHATTAN

Job Type: A2 - ALTERATION TYPE 2

DOB NOW: Inspections

140464049 Job No: Fee: STANDARD Permit No: 140464049-01-EW-BL Issued: 08/24/2016 Expires: 06/05/2017 Seq. No.: 01 Filing Date: 08/24/2016 INITIAL Status: ISSUED Work: Proposed Job Start: 08/24/2016 Work Approved: 05/05/2016

ALTERATION TYPE 2 - BOILER

BOILER INSTALLATION, ONLY BOILER WORK FILED HERE, ALL ADDITIONAL WORK IS UNDER

THE NB# 121331059.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2008

 Issued to:
 ROBERT DIMICELI
 MASTER PLUMBER

 Business:
 RCI PLBG, INC
 License No: MP 002136

 545 MIDLAND AVENUE STATEN ISLAND NY 10306
 Phone: 718-980-2070

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NYC Department of Buildings

Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 1ST AVENUE MANHATTAN
BIN: 1089237 Block: 967 Lot: 1 Job Type: A2 - ALTERATION TYPE 2

DOB NOW: Inspections

Job No: 140464049 Fee: STANDARD Permit No: 140464049-01-EW-BL Issued: 08/24/2016 Expires: 06/05/2017 Filing Date: 08/24/2016 INITIAL Status: ISSUED Seq. No.: 01 Work: Proposed Job Start: 08/24/2016 Work Approved: 05/05/2016

ALTERATION TYPE 2 - BOILER

BOILER INSTALLATION, ONLY BOILER WORK FILED HERE, ALL ADDITIONAL WORK IS UNDER

THE NB# 121331059.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2008

 Issued to:
 ROBERT DIMICELI
 MASTER PLUMBER

 Business:
 RCI PLBG, INC
 License No: MP 002136

 545 MIDLAND AVENUE STATEN ISLAND NY 10306
 Phone: 718-980-2070

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN Filed At: 626 1 AVENUE MANHATTAN
BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

DOB NOW: Inspections

STANDARD Job No: 140490467 Fee: Permit No: 140490467-01-EQ-OT Issued: 05/06/2016 Expires: 05/06/2017 Seq. No.: 01 Filing Date: 05/06/2016 INITIAL Status: ISSUED Work Approved: 05/04/2016 Work: Proposed Job Start: 05/06/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

PROPOSED INSTALLATION OF MONORAIL AS PER PLANS. NO CHANGE IN USE, EGRESS OR

OCCUPANCY.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES Landmark: NO Stories: 47

Review is requested under Building Code: 2014

Issued to: MICHAEL STERN GENERAL CONTRACTOR - GC 611852 REGISTERED:

Business: JDS CONSTRUCTION GROUP*

104 5TH AVE, 9TH FL NEW YORK NY 10011 Phone: 212-974-2844

f you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings Work Permit Data

Premises: 624 1 AVENUE MANHATTAN

BIN: 1089237 Block: 967 Lot: 1 Job Type: A3 - ALTERATION TYPE 3

DOB NOW: Inspections

STANDARD Job No: 140490467 Fee: Permit No: 140490467-01-EQ-OT Issued: 05/06/2016 **Expires:** 05/06/2017 Filing Date: 05/06/2016 INITIAL Status: ISSUED Seq. No.: Proposed Job Start: 05/06/2016 Work: Work Approved: 05/04/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

PROPOSED INSTALLATION OF MONORAIL AS PER PLANS. NO CHANGE IN USE, EGRESS OR

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APPENDIX E

LOT 2 - INSTITUTIONAL AND ENGINEERING CONTROLS
CERTIFICATION FORM



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sito No	0004044	Site Details		Вох 1	
Site No.	C231014				
Site Name	Kips Bay Fuel Terminal ((First Ave.prop)	FOR NYSCA P	ARCE	L 967-2
Site Address City/Town: I County: New Site Acreage	v York	25 E. 35th St. Zip Code	e: 10016-		
Reporting Pe	eriod: June 14, 2015 to Ju	une 14, 2020			
· m	1ay 28,2015	5 to May 7	1,2020	YES	NO
1. Is the inf	formation above correct?				
If NO, in	clude handwritten above c	or on a separate sheet.			
	ne or all of the site property amendment during this Ro	ty been sold, subdivided, me Reporting Period?	erged, or undergone a		
	re been any change of use YCRR 375-1.11(d))?	e at the site during this Repo	orting Period		
	ny federal, state, and/or loc the property during this Re	cal permits (e.g., building, di eporting Period?	ischarge) been issued		D
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.					
5. Is the site	te currently undergoing de	velopment?	* *		
			2		
				Box 2	ž C
				YES	NO
	ırrent site use consistent w ed-Residential, Commercia	with the use(s) listed below? al, and Industrial	, '		
7. Are all IC	Os/ECs in place and function	ioning as designed?			
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.					
A Corrective Measures Work Plan must be submitted along with this form to address these issues.					
Signature of (Owner, Remedial Party or D	Designated Representative	Date		

	*	Box 2	4		
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	YES	NO V		
	If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.				
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	ia .			
	If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.				
SITE	NO. C231014	Вох	3		
	Description of Institutional Controls				
<u>Parce</u> 967-1		<u>l</u>			
	Ground Water Use Landuse Restrictio Site Management IC/EC Plan	triction			
Plan (other	provided that the long term Engineering and Institutional Controls included in the Site MacSMP) are employed. No environmental easements, engineering controls, institutional consents, approvals, or authorizations are required for any activities above the Developm future activities on the Property that will disturb remaining contaminated material must be cordance with the SMP; and,	ntrols, oi ient Dep	r any th.		
	e use of the groundwater underlying the Property is prohibited without treatment renderingled use.	g it safe	for		
967-2	NYC School Construction Authority				
	Ground Water Use Landuse Restriction IC/EC Plan		tion		
Site Management Plan 1. The Property may only be used for restricted residential and commercial use below the Development Depth provided that the long term Engineering and Institutional Controls included in the Site Management Plan (SMP) are employed. No environmental easements, engineering controls, institutional controls, or any other consents, approvals, or authorizations are required for any activities above the Development Depth.					
	future activities on the Property that will disturb remaining contaminated material must be cordance with the SMP; and,	e conduc	cted		
	e use of the groundwater underlying the Property is prohibited without treatment rendering ded use.	g it safe	for		
8		Вох	x 4		
	Description of Engineering Controls				

г	20	
г	a	CE

Engineering Control

967-1

Fencing/Access Control Cover System

The cover system at the site includes greater than two feet of cover consisting of building structures, clean fill, landscaping, and/or concrete and asphalt paving.

967-2

Cover System Fencing/Access Control

The site was partially backfilled with with a minimum of two feet and as much as 20 feet of clean sand and crushed stone and is surrounded by a security fence.

Box 5

Periodic Review Report (PRR) Certification Statements

- 1. I certify by checking "YES" below that:
 - a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
 - b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES NO

- 2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:
 - (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
 - (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
 - (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
 - (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
 - (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS SITE NO. C231014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

print name of the print	Vernor Blvd LZC 11191 business address
am certifying as OWN ER	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form. Signature of Owner, Remedial Party, or Designated Representation	6/12/20

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Gilbert Gedeon at ATC Group Services, 104 E. 25th, New York, NY 10010 print name print business address

am certifying as a Qualified Environmental Professional for the New York City Board of Education (Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Stamp (Required for PE)

6/11/2020

Date

APPENDIX F

LOT 1 - PHOTOGRAPH LOGS: 2015-2020 REPORTING PERIOD



Photograph 1 – View of the East and West Towers; facing northeast. Dated 11/30/2016.



Photograph 2 – View of the school building located at the corner of 35th Street and First Ave; facing northeast. Dated 11/30/2016.



Photograph 3 – View of the concrete cap located in the northwest corner of the site; facing south. Dated 11/30/2016.



Photograph 4 – View of the concrete slab and utilities in the northwest portion of the site; facing southeast. Dated 11/30/2016.



Photograph 5 – View of the entrance to the 626 First Ave building and concrete cap in front of the entrance – West Tower; facing south. Dated 11/30/2016.



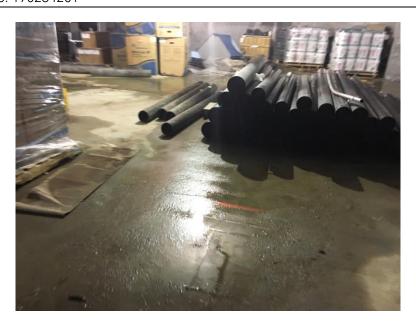
Photograph 6 – View the concrete cap located in the northeast portion of the site; near the construction gate; facing east. Dated 11/30/2016.



Photograph 7 – View of the concrete cap in the West Tower (street level); facing south. Dated 11/30/2016.



Photograph 8 – View of the concrete cap in the southeastern portion of the site; facing southwest. Dated 11/30/2016.



Photograph 9 – View of the concrete cap in the cellar of the West Tower; facing northwest. Dated 11/30/2016.



Photograph 10 – View of concrete cap in the cellar of the West Tower; facing west. Dated 11/30/2016.



Photograph 11 – View of the concrete cap in the sub-cellar of the West Tower; facing southwest. Dated 11/30/2016.



Photograph 12 – View of the concrete cap of the sub-cellar in the East Tower; facing south.

Dated 11/30/2016.



Photograph 13 – View of the concrete cap in the cellar of the East Tower; facing southwest. Dated 11/30/2016.



Photograph 1 – View of the East and West Towers; facing northeast. Dated 12/19/2017.



Photograph 2 – View of the school building located at the corner of 35th Street and First Ave; facing northeast. Dated 12/19/2017.

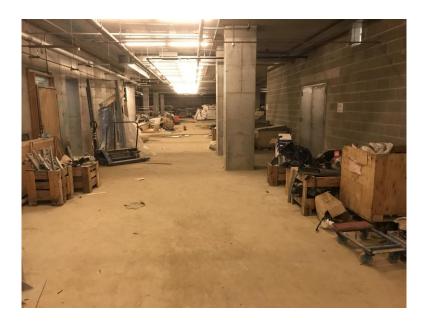


Photograph 3 –View of the site cap in the northeast portion of the site; facing west. Dated 12/19/2017.



Photograph 4 – View of utility easement area in the southeast region of the site temporarily capped with approximately 2 feet of imported gravel during building construction; facing north.

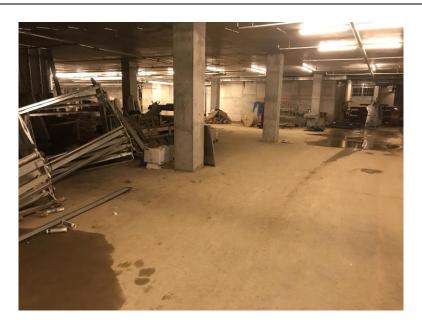
Dated 12/19/2017.



Photograph 5 – View of the concrete floor in the cellar of the East Tower; facing east. Dated 12/19/2017.



Photograph 6 – View of the concrete floor in the cellar of the East Tower; facing north. Dated 12/19/2017.



Photograph 7 – View of the concrete floor in the cellar of the East Tower; facing southwest. Dated 12/19/2017.



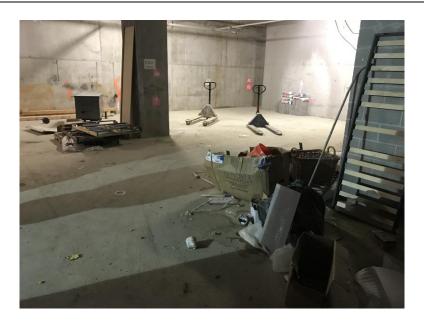
Photograph 8 – View of the partially disturbed concrete floor in the south central portion of the cellar of the East Tower; facing north. Dated 12/19/2017.



Photograph 9 – View of exposed tie down and concrete floor in the northwest cellar of the East Tower; facing west. Dated 12/19/2017.



Photograph 10 – View of the concrete floor in the cellar of the West Tower; facing west. Dated 12/19/2017.



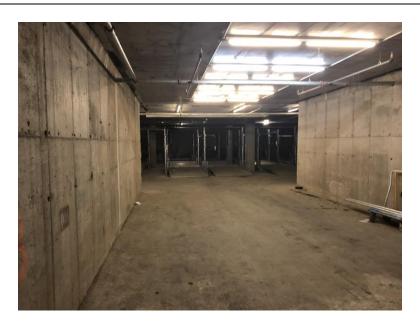
Photograph 11 – View of the concrete floor of the cellar in the West Tower; facing southwest. Dated 12/19/2017.



Photograph 12 – View of the concrete floor in the cellar of the West Tower; facing northwest. Dated 12/19/2017.



Photograph 13 – View of the superficial crack in concrete floor of the cellar in the East Tower; facing west. Dated 12/19/2017.



Photograph 1 – View of the concrete floor in the sub-cellar of the East Tower; facing northeast. Dated 12/20/2018.



Photograph 2 – View of car lifts in the cellar parking garage of the East Tower; facing north.

Dated 12/20/2018.

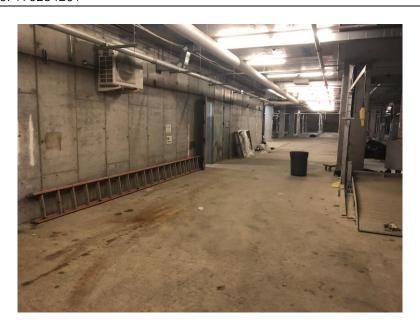
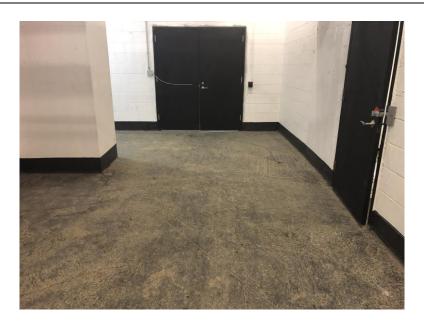


Photo 3 - View of the concrete floor in the sub-cellar of the East Tower. Dated 12/20/2018.



Photo 4 – View of car parking garage of the East Tower, facing west. Dated 12/20/2018.



Photograph 5 – View of the concrete floor in the cellar of the West Tower; facing southeast. Dated 12/20/2018.



Photograph 6 – View of the concrete floor in the cellar tenant storage area of the West Tower; facing northwest. Dated 12/20/2018.

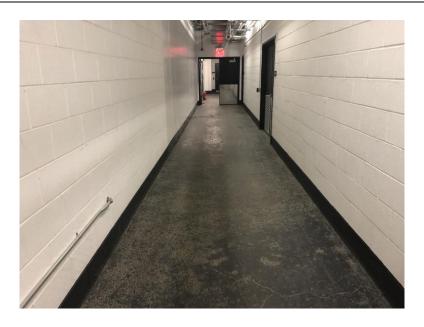


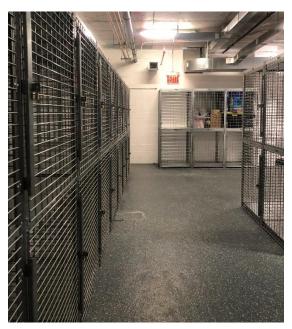
Photo 7 – View of concrete floor in hallway of the West Tower. Dated 12/20/2018.



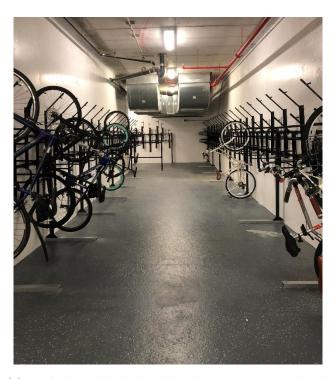
Photo 8 – View of concrete floor beneath stairwell in West Tower. Dated 12/20/2018.



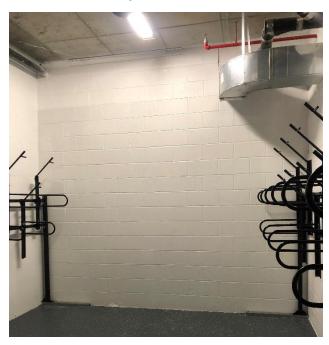
Photograph 1 - View of East and West Towers of the American Copper Building (626 First Avenue; facing northwest. Dated 12/20/2019.



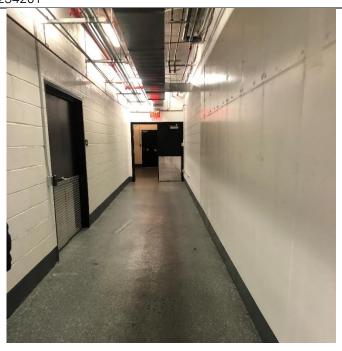
Photograph 2 - View of foundation slab in the tenant storage room in the sub-cellar of 626 First Avenue; facing west. Dated 12/20/2019.



Photograph 3 - View of foundation slab in the bicycle storage room in the sub-cellar of 626 First Avenue; facing north. Dated 12/20/2019.



Photograph 4 - View of wall in the sub-cellar; facing west. Dated 12/20/2019.



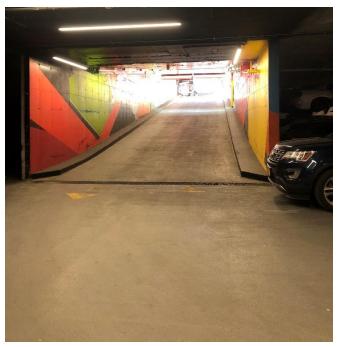
Photograph 5 - View of typical hallway concrete slab in the sub-cellar; facing east. Dated 12/20/2019.



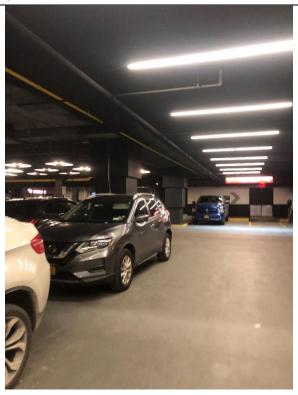
Photograph 6 - View of car lift in the cellar parking garage fastened with 3-inch bolts and sealed with epoxy; facing north. Dated 12/20/2019.



Photo 7 – View of car lifts in the cellar parking garage, facing south. Dated 12/20/2019.



Photograph 8 - View of cellar parking garage egress ramp to street; facing south. Dated 12/20/2019.



Photograph 9 – View of cellar parking garage; facing north. Dated 12/20/2019.



Photo 10 – View of cellar concrete slab. Dated 12/20/2019.



Photo 11 – View of parking garage attending area, facing northwest. Dated 12/20/2019.



Photo 12 – View of foundation slab in sub-cellar. Dated 12/20/2019.



Photograph 13 – View of 626 First Avenue building entrance; facing south. Dated 12/20/2019.



Photograph 14 - View of building façade; facing north. Dated 7/10/2020



Photograph 15- View of the southeast corner of the site, where the utility easement area is located and capped with concrete. Planters and landscape pavers were placed above the concrete cover in this area; facing east. Dated 7/10/2020.



Photograph 16 - View of the sidewalk in the southeast corner of the site; facing south. Dated 7/10/2020.



Photograph 17 - View of the sidewalk and landscaped areas placed over concrete cover in the southeast corner of the site (utility easement area); facing east. Dated 7/10/2020.



Photograph 18 - View of P.S. 281 situated in the southwest corner of the site; facing west. Dated 7/10/2020.