GEI Consultants

Geotechnical
Environmental
Water Resources
Ecological

March 25, 2014

New York City Office of Environmental Remediation
City Voluntary Cleanup Program
c/o Shaminder Chawla
100 Gold Street, 2nd Floor
New York, New York 10038

Re: 13CVCP125M
E-Des # 13EHAZ218M
464 West 130th Street
Remedial Action Work Plan (RAWP) Stipulation List

Dear Mr. Chawla:

GEI Consultants, Inc. of New York hereby submits a Remedial Action Work Plan (RAWP) Stipulation List for the Site to the New York City Office of Environmental Remediation (OER) on behalf of Big Apple Developers. This letter serves as an addendum to the RAWP to stipulate additional content, requirements, and procedures that will be followed during the site remediation. The contents of this list are added to the RAWP and will supersede the content in the RAWP where there is a conflict in purpose or intent. The additional requirements/procedures include the following Stipulation List below:

1. The criterion attached in **Appendix 1** will be utilized if additional petroleum containing tank or vessel is identified during the remedial action or subsequent redevelopment excavation activities. All petroleum spills will be reported to the NYSDEC hotline as required by applicable laws and regulations. This contingency plan is designed for heating oil tanks and other small or moderately sized storage vessels. If larger tanks, such as gasoline storage tanks are identified, OER will be notified before this criterion is utilized.

2. A pre-construction meeting is required prior to start of remedial excavation work at the site. A pre-construction meeting will be held at the site and will be attended by OER, the developer or developer representative, the consultant, excavation/general contractor, and if applicable, the soil broker.

110 Walt Whitman Road, Suite 204
Huntington Station, New York 11746
631.760.9300 fax: 631.760.9301

3. A pre-approval letter from all disposal facilities will be provided to OER prior to any soil/fill material removal from the site. Documentation specified in the RAWP - Appendix 3 - Section 1.6 "Materials Disposal Off-Site" will be provided to OER. If a different disposal facility for the soil/fill material is selected, OER will be notified immediately.

4. A CD containing the final RAWP including this approved Stipulation List will be placed in the library that constitutes the primary public repository for project documents.

5. Signage for the project will include a sturdy placard mounted in a publically accessible right of way to building and other permits signage will consist of the NYC VCP Information Sheet (attached **Appendix 2**) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.

6. In the event that hazardous waste is identified during the remedial action or subsequent redevelopment excavation activities at this NYC VCP project, and removal and transportation of hazardous waste becomes necessary, the project may be subject to the New York State Department of Environmental Conservation's Special Assessment Tax (ECL 27-0923) and Hazardous Waste Regulatory Fees (ECL 72-00402). See DEC's website for more information: http://www.dec.ny.gov/chemical/9099.html.

7. Collection and analysis of two (2) end-point samples from the bottom of the excavation will be collected to evaluate the performance of the remedy with respect to attainment of Track 1 SCOs. A map indicating end-point sampling locations is attached in **Appendix 3**. Samples will be analyzed for contaminants of concern (SVOCs and Metals).

8. **Appendix 4** includes Vapor Barrier Pre-Certification letter from Vapor Barrier manufacturer stating that the proposed vapor barrier system mitigates against the contaminants of concern at the site.

9. OER requires parties seeking City Brownfield Incentive Grants to carry insurance. For a cleanup grant, both the excavator and the trucking firm(s) that handle removal of soil must carry or be covered under a commercial general liability (CGL) policy that provides $1 million per claim in coverage. OER recommends that excavators and truckers also carry contractor's pollution liability (CPL) coverage, also providing $1 million per claim in coverage. The CGL policy, and the CPL policy if obtained, must name the City of New York, the NYC Economic Development Corporation, and Brownfield Redevelopment Solutions as additional insured. For an investigation grant, an environmental consultant must be a qualified vendor in the BIG program and carry $1 million of professional liability (PL) coverage. A fact sheet regarding insurance is attached as **Appendix 5**.

10. Daily report will be provided during active excavation work. If no work is performed for extended time period, daily report frequency will be reduced to weekly basis. Daily report template is attached in **Appendix 6.**

11. A 20-millimeter vapor barrier will be installed beneath the structure's slab and along foundation sidewalls. The barrier chosen for this project is manufactured by Raven Industries, Inc., Vapor Block Plus VBP20 20. **Appendix 7** provides manufactures specifications and PE/RA certified building plans with the extent of the vapor barrier installation details (penetrations, joints, etc.) with respect to the proposed foundation, footings, etc.

Sincerely,

GEI CONSULTANTS, INC., P. C.

Environmental Practice Leader - Hydrogeologist

Enclosures
c: William Wong, NYCOER

Document1

Appendix 1
Generic Procedures for Management of Underground Storage Tanks
Identified under the NYC VCP

Prior to Tank removal, the following procedures should be followed:

- Remove all fluid to its lowest draw-off point.
- Drain and flush piping into the tank.
- Vacuum out the "tank bottom" consisting of water product and sludge.
- Dig down to the top of the tank and expose the upper half.
- Remove the fill tube and disconnect the fill, gauge, product, vent lines and pumps. Cap and plug open ends of lines.
- Temporarily plug all tank openings, complete the excavation, remove the tank and place it in a secure location.
- Render the tank safe and check the tank atmosphere to ensure that petroleum vapors have been satisfactorily purged from the tank.
- Clean tank or remove to storage yard for cleaning.
- If the tank is to be moved, it must be transported by licensed waste transporter. Plug and cap all holes prior to transport leaving a 1/8 inch vent hole located at the top of the tank during transport.
- After cleaning, the tank must be made acceptable for disposal at a scrap yard, cleaning the tanks interior with a high pressure rinse and cutting the tank in several pieces.

During the tank and pipe line removal, the following field observations should be made and recorded:

- A description and photographic documentation of the tank and pipe line condition (pitting, holes, staining, leak points, evidence of repairs, etc.).
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with a calibrated photoionization detector (PID).

<u>Impacted Soil Excavation Methods</u>
The excavation of the impacted soil will be performed following the removal of the existing tanks. Soil excavation will be performed in accordance with the procedures described under Section 5.5 of Draft DER-10 as follows:

- A description and photographic documentation of the excavation.
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with calibrated photoionization detector (PID).

Final excavation depth, length, and width will be determined in the field, and will depend on the horizontal and vertical extent of contaminated soils as identified through physical examination (PID response, odor, staining, etc.). Collection of verification samples will be performed to evaluate the success of the removal action as specified in this document.
The following procedure will be used for the excavation of impacted soil (as necessary and appropriate):

- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan.
- Prior to excavation, ensure that the area is clear of utility lines or other obstructions. Lay plastic sheeting on the ground next to the area to be excavated.
- Using a rubber-tired backhoe or track mounted excavator, remove overburden soils and stockpile, or dispose of, separate from the impacted soil.
- If additional UST's are discovered, the NYSDEC will be notified and the best course of action to remove the structure should be determined in the field. This may involve the continued trenching around the perimeter to minimize its disturbance.
- If physically contaminated soil is present (e.g., staining, odors, sheen, PID response, etc.) an attempt will be made to remove it, to the extent not limited by the site boundaries or the bedrock surface. If possible, physically impacted soil will be removed using the backhoe or excavator, segregated from clean soils and overburden, and staged on separated dedicated plastic sheeting or live loaded into trucks from the disposal facility. Removal of the impacted soils will continue until visibly clean material is encountered and monitoring instruments indicate that no contaminants are present.
- Excavated soils which are temporarily stockpiled on-site will be covered with tarp material while disposal options are determined. Tarp will be checked on a daily basis and replaced, repaired or adjusted as needed to provide full coverage. The sheeting will be shaped and secured in such a manner as to drain runoff and direct it toward the interior of the property.

Once the site representative and regulatory personnel are satisfied with the removal effort, verification of confirmatory samples will be collected from the excavation in accordance with DER-10.

Appendix 2
NYC VCP Signage

NYC Voluntary Cleanup Program

464 West 130th Street
Site #: 13CVCP125M

This property is enrolled in the New York City Voluntary Cleanup Program for environmental remediation. This is a voluntary program administered by the NYC Office of Environmental Remediation.

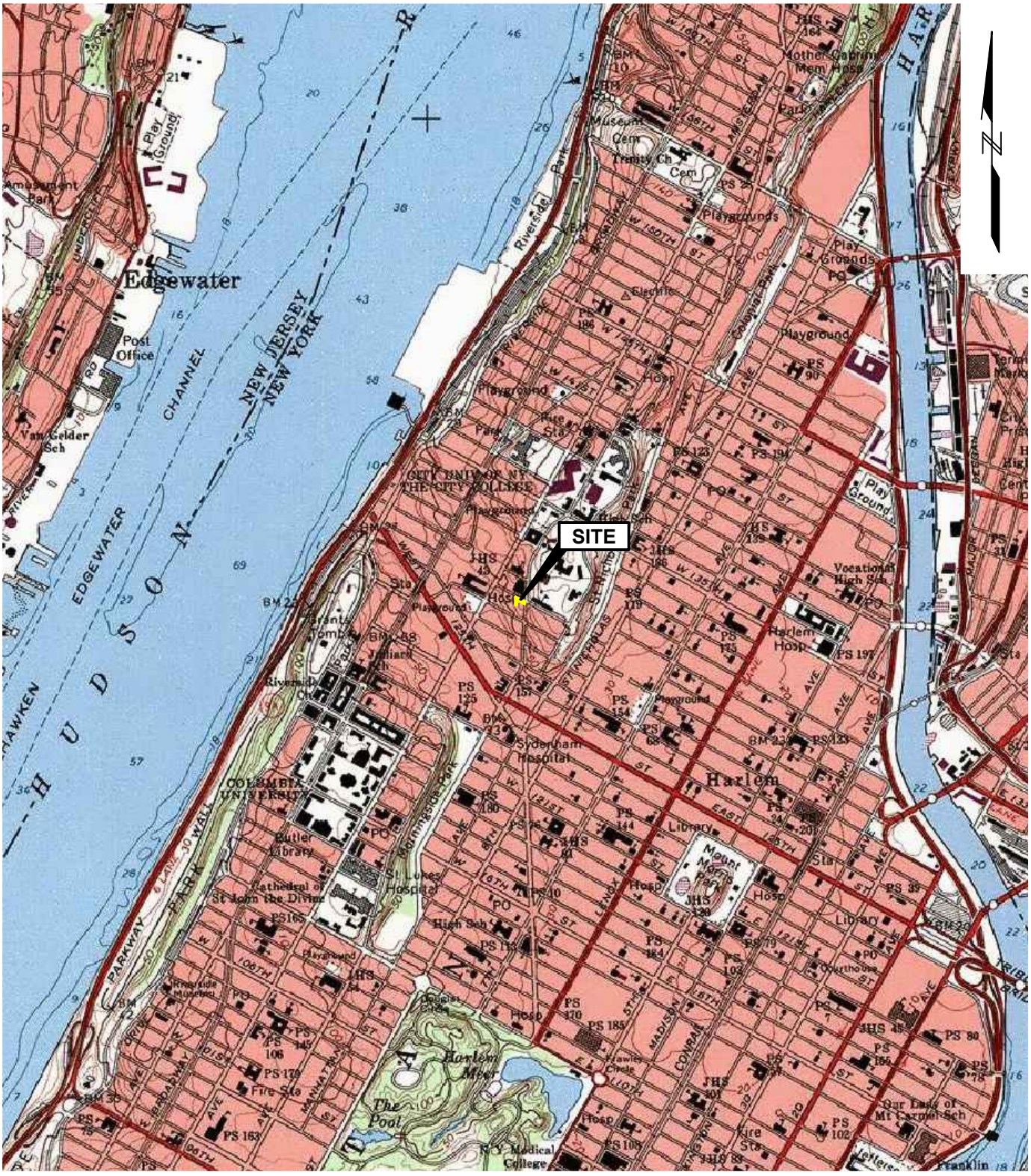
Or scan with smart phone:

For more information,
log on to: www.nyc.gov/oer

If you have questions or would like more information, please contact:

Shaminder Chawla at (212) 442-3007 or email us at brownfields@cityhall.nyc.gov

Appendix 3
End-Point Sampling Map



SOURCE:

Map created with TOPO! ® ©2001 National Geographic
(www.nationalgeographic.com/topo)

SUBSURFACE INVESTIGATION WEST 130TH STREET NEW YORK, NEW YORK	GEI Consultants	**SITE LOCATION MAP**
BIG APPLE DEVELOPERS GREAT NECK, NEW YORK	Project 130030-1000	May 2013 Figure 1

I:\Project\Big Apple Developers\130030 - W 130th ST\Subsurface Investigation\Drawings\BigApple-SubSurf_Inv_Figures_042513.dwg

SOURCES:

1. PHOTOGRAPH OBTAINED FROM GOOGLE ™ EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/02/2011, ACCESSED ON 04/25/2013.
2. SURVEY OF TAX BLOCK 1969, TAX LOT 68, CITY OF NEW YORK, COUNTY OF NEW YORK, BY MONTROSE SURVEYING CO., LLP., SCALE: 1" = 10', REV. DATE: 2/13/12.

0 30 60

SCALE, FEET

SUBSURFACE INVESTIGATION
WEST 130TH STREET
NEW YORK, NEW YORK

BIG APPLE DEVELOPERS
GREAT NECK, NEW YORK

GEI Consultants

Project 130030-1000

SITE MAP

May 2013 Figure 2

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Sample Name	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential Use	SB-4 (0-2')
Sampling Date		1/22/2013
Compound		Result
Metals, Target Analyte	*mg/Kg*	
Barium	350	691

Sample Name	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential Use	SB-2 (2-4')
Sampling Date		1/22/2013
Compound		Result
Semi-Volatiles, 8270 Target List	*mg/Kg*	
Benzo(a)anthracene	1	4.52
Benzo(a)pyrene	1	2.93
Benzo(b)fluoranthene	1	4.19
Benzo(k)fluoranthene	1	4.55
Chrysene	1	4.74
Dibenzo(a,h)anthracene	0.33	0.916
Indeno(1,2,3-cd)pyrene	0.5	1.77

WEST 130th STREET

CONVENT AVENUE

SB-4/MW-4
EP-1
SG-2
SB-7
SG-1
SB-5
SB-6/MW-6
SG-3
SB-3/MW-3
EP-2
SB-2
SB-1

N

LEGEND:

	PROPERTY BOUNDARY
EP-1	PLANNED END-POINT SAMPLE
B-1/MW-1	COMPLETED SOIL BORING/TEMPORARY MONITORING WELL
B-3	COMPLETED SOIL BORING
SG-1	COMPLETED SOIL VAPOR POINT
mg/Kg	MILLIGRAMS PER KILOGRAM

SOURCES:

1. PHOTOGRAPH OBTAINED FROM GOOGLE ™ EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/02/2011, ACCESSED ON 12/14/2012.
2. SURVEY OF TAX BLOCK 1969, TAX LOT 68, CITY OF NEW YORK, COUNTY OF NEW YORK, BY MONTROSE SURVEYING CO., LLP., SCALE: 1" = 10', REV. DATE: 2/13/12.

0 20 40

SCALE, FEET

SUBSURFACE INVESTIGATION
WEST 130TH STREET
NEW YORK, NEW YORK

BIG APPLE DEVELOPERS
GREAT NECK, NEW YORK

GEI Consultants

SAMPLE LOCATION MAP AND ANALYTICAL SUMMARY

Project 130030-1000 | May 2013 | Figure 3

I:\Project\Big Apple Developers\130030 - W 130th ST\Subsurface Investigation\Drawings\BigApple-SubSurf_Inv_Figures_042513.dwg

Appendix 4
Vapor Barrier Pre-Certification letter

January 28, 2014

Nicholas J. Recchia
GEI Consultants, Inc. P. C.
110 Walt Whitman Road Suite 202
Huntington Station, NY 11746

Re: 464 West 130th Street
464 West 130th Street, Block 1969, Lot 68, OER# 13CVCP125M
DOB Job # 121183343

Dear Mr. Recchia:

I have reviewed the Remedial Investigation Report (GEI Consultants, Inc., March 2013) for the above referenced project and noted the contaminants specifically described on the following pages:

- Table 1 – Soil Analytical Results (VOCs, SVOCs, Pesticides/PCBs, Metals, Mercury)
- Table 2 –Soil Vapor Analytical Results (VOCs)
- Figure 3 – Sample Location and Analytical Summary

The identified contaminants at the levels reported will not have an adverse effect on the vapor barrier properties of Raven Industries, Inc. VaporBlock Plus VBP20 20 mil systems provided standard design and installation procedures are followed. Standard installation instructions and details can be found on our website at www.ravenefd.com.

Upon receipt of "proof of installation" by the qualified vendor/installer, Raven Industries, Inc. would issue a warranty of 20 years for the product.

Erika Arens
Product Development Specialist I
Engineered Films Division
Raven Industries, Inc.
(605) 357-0453
Erika.Arens@ravenind.com

Appendix 5
BIG Program Insurance Fact Sheet

FACT SHEET – BIG PROGRAM INSURANCE REQUIREMENTS

Investigation Grants – for a developer or site owner to be eligible for a BIG investigation grant, its environmental consultant(s) must be:

- a Qualified Vendor in the BIG Program; and
- maintain Professional Liability (PL) insurance of $1M per claim and annual aggregate.

Cleanup Grants – for a developer or site owner to be eligible for a BIG cleanup grant:

- Its general contractor or excavation/foundation contractor hired to perform remedial work must maintain Commercial General Liability (CGL) insurance of at least $1M per occurrence and $2M in the general aggregate. It is recommended that the general contractor or excavation/foundation contractor also maintain a Contractors Pollution Liability policy (CPL) of at least $1M per occurrence.

- Its subcontractors who are hired by the general contractor etc. to perform remedial work at a site, including soil brokers and truckers, must also maintain a CGL policy in the amount and with the terms set forth above. It is recommended that subcontractors also maintain a CPL policy in the amount and with the terms set forth above.

  The CGL policy, and the CPL policy if in force, must list the city, EDC and BRS as additional insureds, include completed operations coverage and be primary and non-contributory to any other insurance the additional insureds may have.

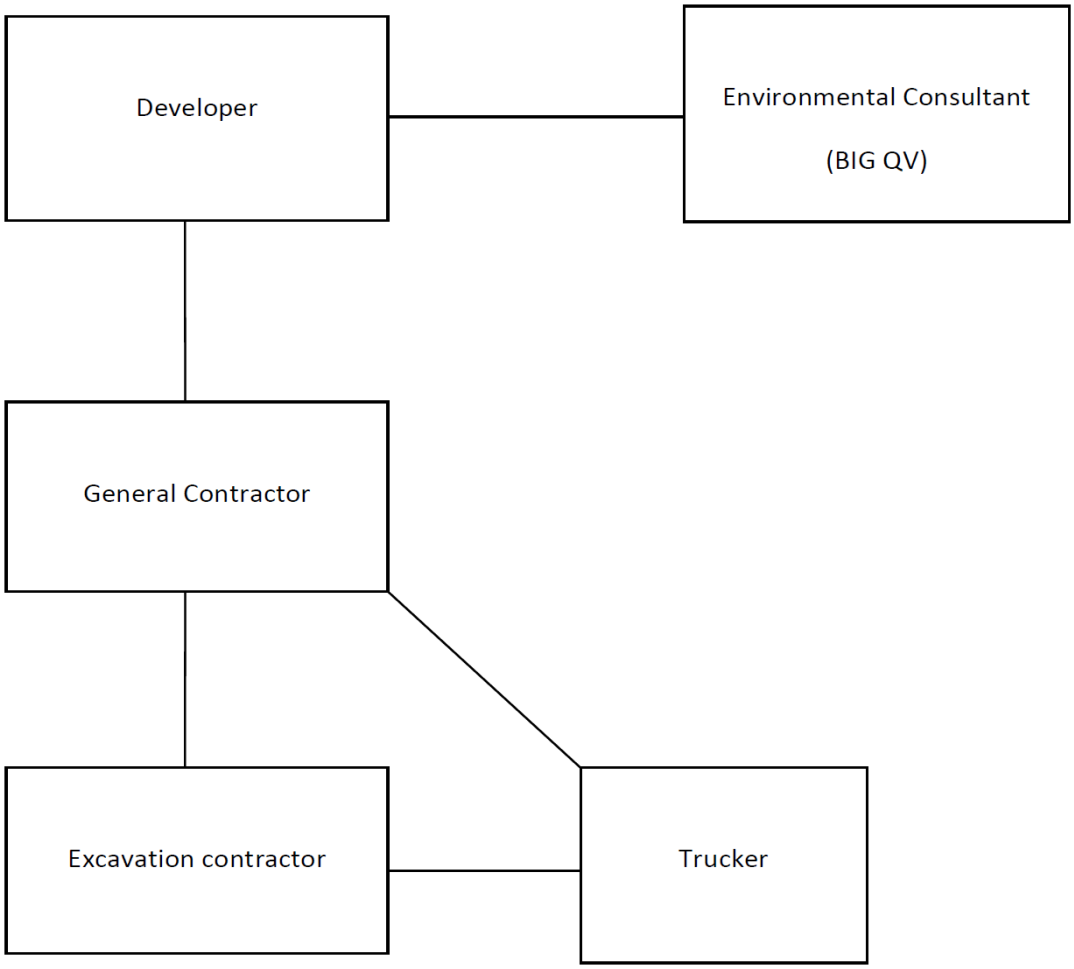
- Its environmental consultant(s) hired to oversee the cleanup must be:
  a. a BIG Qualifed Vendor; and
  b. maintain Professional Liability (PL) insurance of $1M per claim and annual aggregate.

If, in the alternative, the developer hires its environmental consultant to perform the cleanup, the environmental consultant must maintain CGL insurance in the amount and with the terms set forth above. It is recommended that the environmental consultant also maintain CPL coverage in the amount and with the terms set forth in the first two bulleted items listed above.

A schematic presenting the contractual relationships described above appears on page 2. Parties who must be named as Additional Insureds on Cleanup Grant insurance policies (CGL and CPL) are presented on page 3.

Example of Contractual Relationships for Cleanup Work

The Office of Environmental Remediation's Voluntary Cleanup Plan program requires applicants to identify the parties who are engaged in active remediation of their sites including: the General Contractor hired to remediate and/or the excavation contractor hired to excavate soil from the site and the trucking firm(s) that remove soil from the site for disposal at approved facilit(ies).



The chart above shows contractual relationships that typically exist for projects that are enrolled in the Voluntary Cleanup Program.

BIG Program Additional Insureds

The full names and addresses of the additional insureds required under the Required CGL Policy and recommended CPL Policy are as follows:

"City and its officials and employees"
New York City Mayor's Office of Environmental Remediation
253 Broadway, 14th Floor
New York, NY 10007

"NYC EDC and its officials and employees"
New York City Economic Development Corporation
110 William Street
New York, NY 10038

"BIG Grant Administrator and its officials and employees"
Brownfield Redevelopment Solutions, Inc.
739 Stokes Road, Units A & B
Medford, NJ 08055

Appendix 6
Daily Report Template

Generic Template for Daily Status Report

Instructions

The Daily Status Report submitted to OER should adhere to the following conventions:

- Remove this cover sheet prior to editing.
- Remove all the red text and replace with site-specific information.
- Submit the final version as a Word or PDF file.

Daily Status Reports

Daily status reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any;
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

DAILY STATUS REPORT

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Prepared By:
Enter Your Name Here

VCP Project No.:	13CVCP125M	E-Number:	13EHAZ218M	Date:	01/01/2013
Project Name:	364 West 130th Street				

Consultant:	Safety Officer: Person(s) Name and Company Name
General Contractor: Person(s) Name and Company Name	Site Manager/ Supervisor: Person(s) Name and Company Name
Work Activities Performed (Since Last Report): Provide details about the work activities performed.	
Working In Grid #: A1, B1, C1	

Samples Collected (Since Last Report): No samples collected or provide details
Air Monitoring (Since Last Report): No air monitoring performed or provide details
Problems Encountered: No problems encountered or provide details

Planned Activities for the Next Day/ Week:
Provide details about the work activities planned for the next day/ week.

Exampl

Facility # Name/ Location Type of Waste Solid Or Liquid	Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		Facility # Name Location Type of Waste Solid *Or* Liquid		# # # # # # # Clean Earth Carteret, NJ petroleum soils Solid	
(Trucks, Cu.Yds. Or Gallons)	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds. *Or* Gallons	Trucks	Cu. Yds.
Today									5	120
Total									25	600

NYC Clean Soil Bank		Receiving Facility: Name/ Address (Approved by OER)				
Tracking No.:	13CCSB000					
Today		Trucks 5	Cu. Yds. 25	Total	Trucks 120	Cu. Yds. 600

Site Grid Map
Insert the site grid map here

Photo Log

Photo 1 – provide a caption	Insert Photo Here – Photo of the entire site
Photo 2 – provide a caption	Insert Photo Here – Photo of the work activities performed

Photo 3 – provide a caption	Insert Photo Here – Photo of the work activities performed

Appendix 7

Vapor Barrier Specification

VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

Product Description

VaporBlock® Plus™ 20 is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock® Plus™ 20 is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock® Plus™ 20 is more than 100 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOCs.

VaporBlock® Plus™ 20 is one of the most effective underslab gas barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in a 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock® Plus™ 20 is produced within the strict guidelines of our ISO 9001:2008 Certified Management System.

Product Use

VaporBlock® Plus™ 20 resists gas and moisture migration into the building envelop when properly installed to provide protection from toxic/harmful chemicals. It can be installed as part of a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock® Plus™ 20 works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

Size and Packaging

VaporBlock® Plus™ 20 is available in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.

Applications

- ✓ Radon Barrier
- ✓ Methane Barrier
- ✓ VOC Barrier
- ✓ Under-Slab Vapor Retarder
- ✓ Foundation Wall Vapor Retarder

Global PLASTIC SHEETING

1331 Specialty Drive, Vista, CA 92081
Toll Free: 866-597-9298 760-597-9298
Fax: 760-597-9574

Email: sales@globalplasticsheeting.com
www.globalplasticsheeting.com

VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

Manufactured In:

ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM

PROPERTIES	TEST METHOD	VAPORBLOCK® PLUS™ 20	
		Imperial	Metric
APPEARANCE		White/Gold	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT		102 lbs/MSF	498 g/m²
CLASSIFICATION	ASTM E 1745	CLASS A, B & C	
TENSILE STRENGTH LBF/IN (N/cm) AVERAGE MD & TD (NEW MATERIAL)	ASTM E 154 Section 9 (D-882)	58 lbf	102 N
IMPACT RESISTANCE	ASTM D 1709	2600 g	
MAXIMUM USE TEMPERATURE		180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C
PERMEANCE (NEW MATERIAL)	ASTM E 154 Section 7 ASTM E 96 Procedure B	0.0098 Perms grain/(ft²•hr•in•Hg)	0.0064 Perms g/(24hr•m²•mm Hg)
(AFTER CONDITIONING) PERMS (SAME MEASUREMENT AS ABOVE PERMEANCE)	ASTM E 154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.0079 0.0079 0.0097 0.0113	0.0052 0.0052 0.0064 0.0074
WVTR	ASTM E 96 Procedure B	0.0040 grains/hr-ft²	0.0028 gm/hr-m²
RADON DIFFUSION COEFFICIENT	K124/02/95	< 1.1 x 10^{-13} m²/s	
METHANE PERMEANCE	ASTM D 1434	< 1.7 x 10^{-10} m²/d•atm 0.32 GTR (Gas Transmission Rate) ml/m²•D•ATM	

VaporBlock® Plus™ Placement
All instructions on architectural or structural drawings should be reviewed and followed.
ASTM E-1643 also provides general installation information for vapor retarders.

VaporBlock® Plus™ is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and EVOH resins to provide unmatched impact strengths as well as resistance to gas and moisture transmission.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GLOBAL PLASTIC SHEETING MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

Global PLASTIC SHEETING

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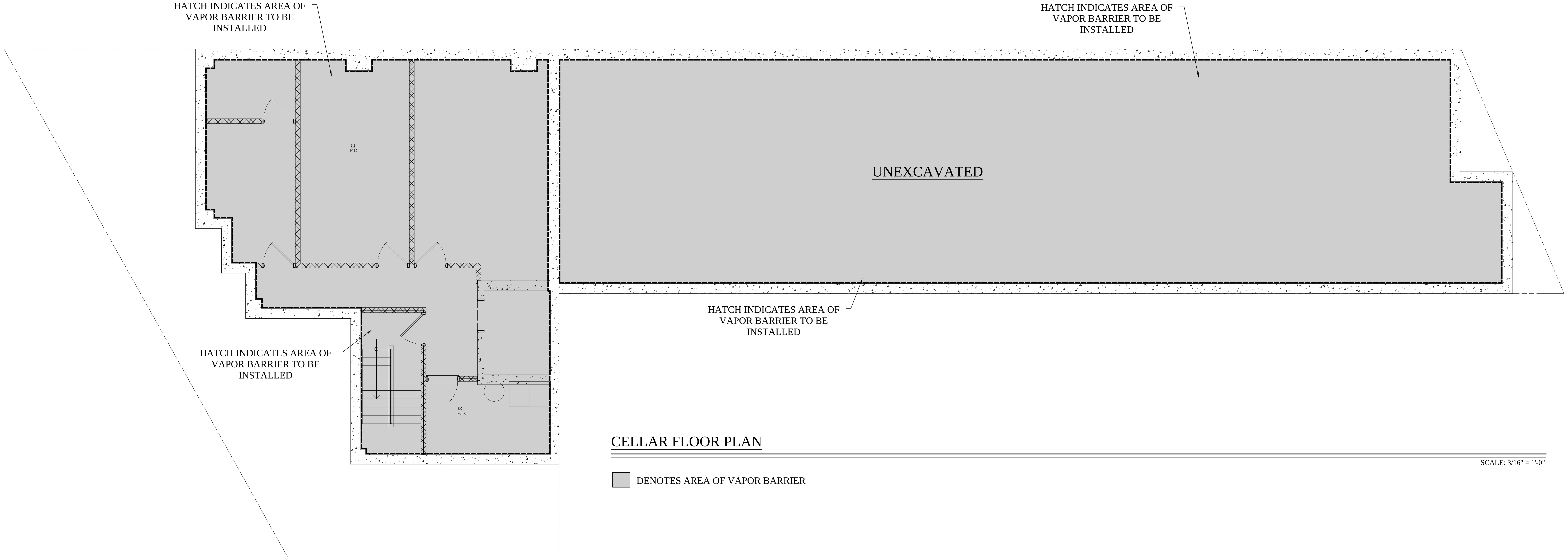
Fax: 760-597-9574

Email: sales@globalplasticsheeting.com
www.globalplasticsheeting.com

VAPOR BARRIER PLAN

SCALE: 3/16 = 1'-0"



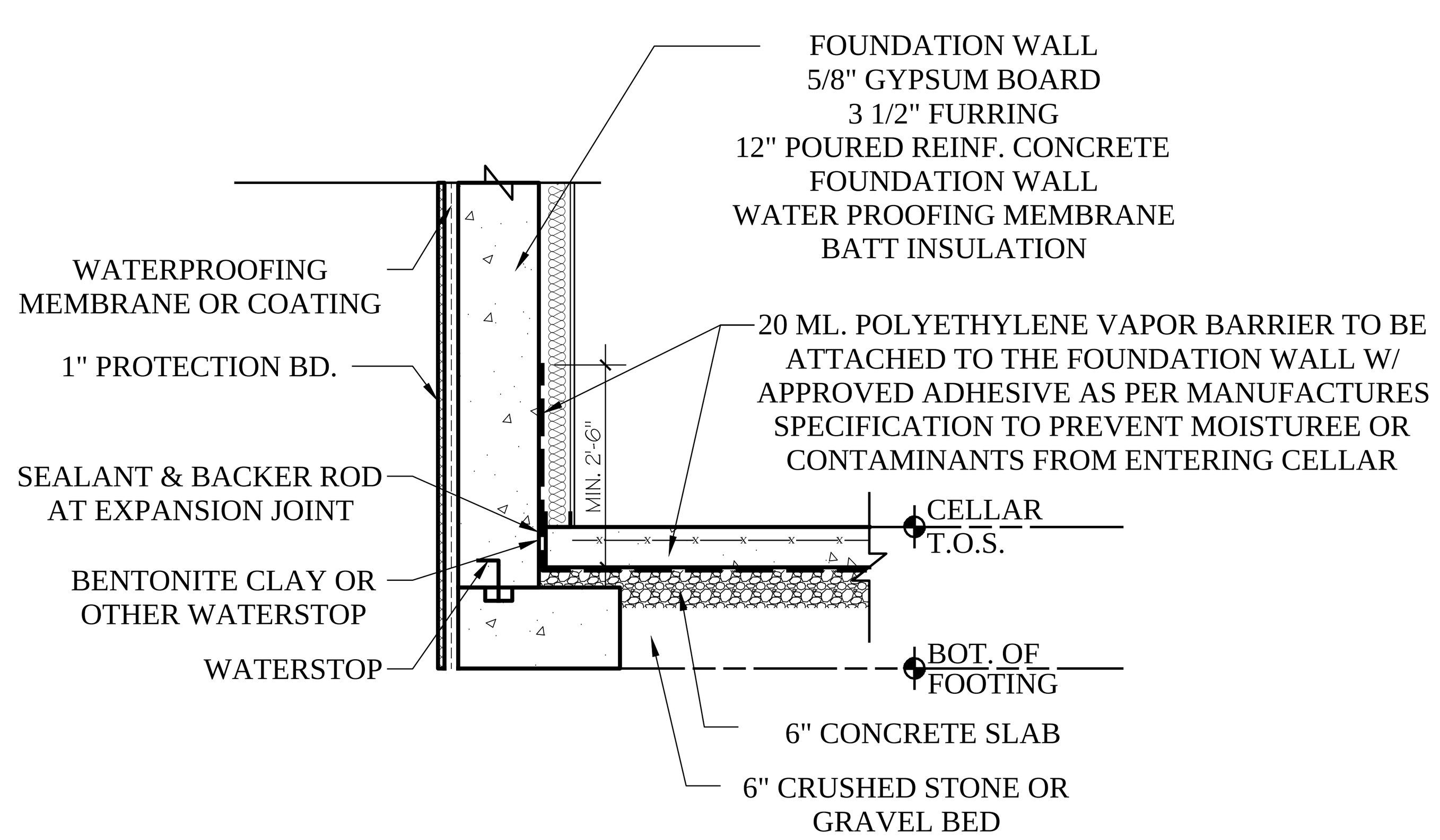
CELLAR FLOOR PLAN

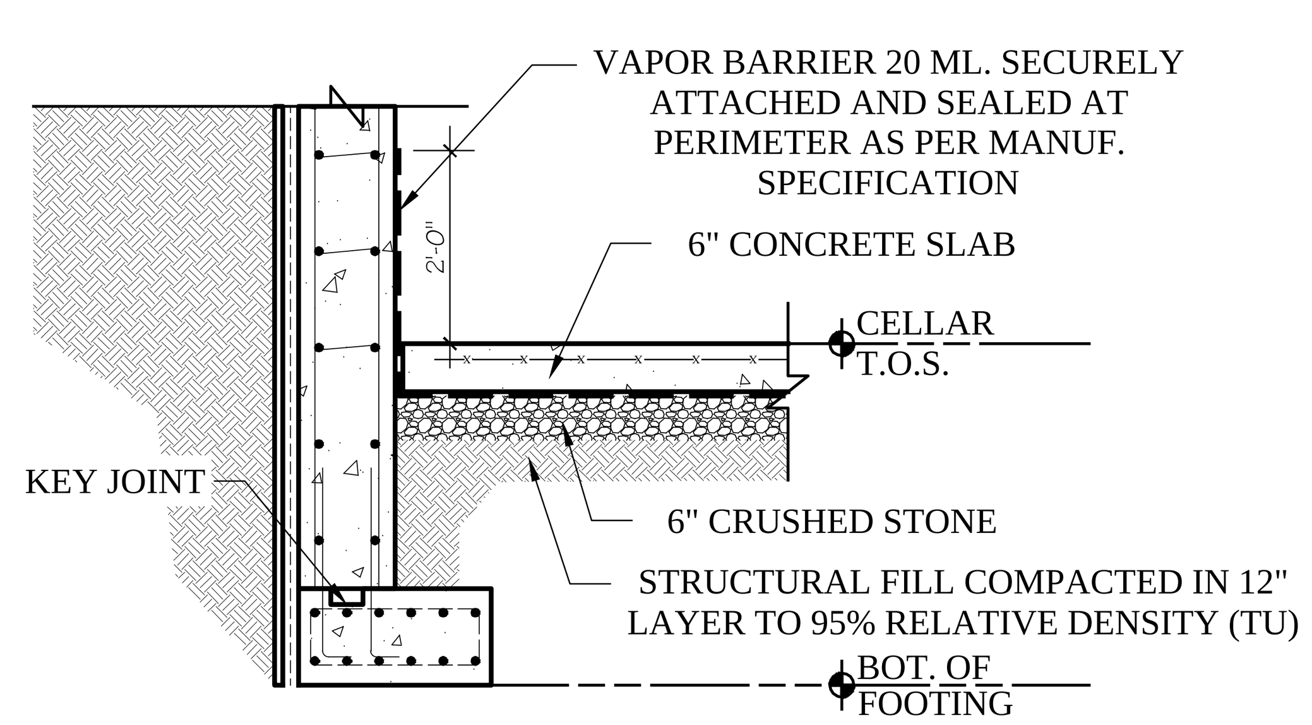
SCALE: 3/16" = 1'-0"

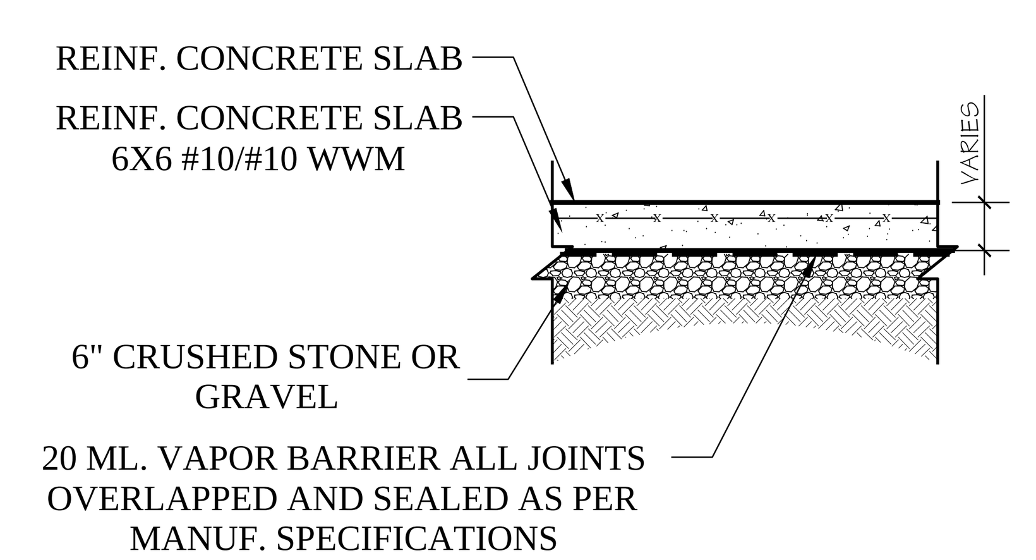
DENOTES AREA OF VAPOR BARRIER

6. VAPOR BARRIER DETAILS

SCALE: N.T.S



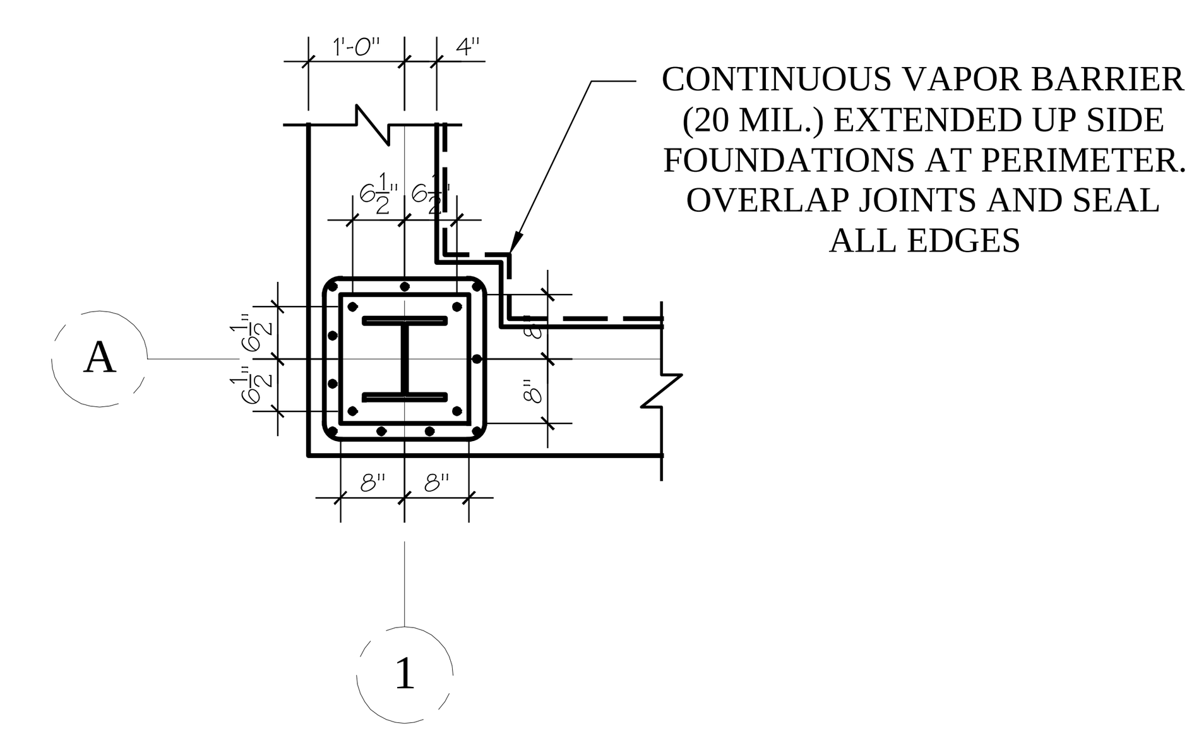




1. SLAB ON GRADE SHALL BE PLACED SUCH THAT EACH SINGLE POUR AREA DOES NOT EXCEED 900 SQUARE FEET AND 30'-0" IN THE LONGEST DIMENSION. EACH PANEL SHALL BE BOUNDED WITH CONSTRUCTIONS JOINTS.

2. SAWED CONTROL JOINTS ARE AN ALTERNATE AND ARE TO BE LOCATED IN A RECTANGULAR PATTERN WITH A MAXIMUM SPACING OF 30'-0". JOINTS SHALL BE SAWED NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. MAXIMUM POUR LENGTH SHALL NOT EXCEED 90'-0".

3. GRAVEL OR CRUSHED STONE SHALL BE PLACED ON UNDISTURBED SOIL OR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.



BRICOLAGE ARCHITECTURE & DESIGN, PLLC
6321 New Utrecht Avenue
Brooklyn, N.Y. 11219
Tel. 718.259.1100
Fax. 718.259.0111

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED

Vapor Barrier Plan & Details

Proposed New Building, Seventh (7) Story & Cellar, Thirty (30) Family Dwelling, Located @ Convent Avenue, Manhattan, N.Y.

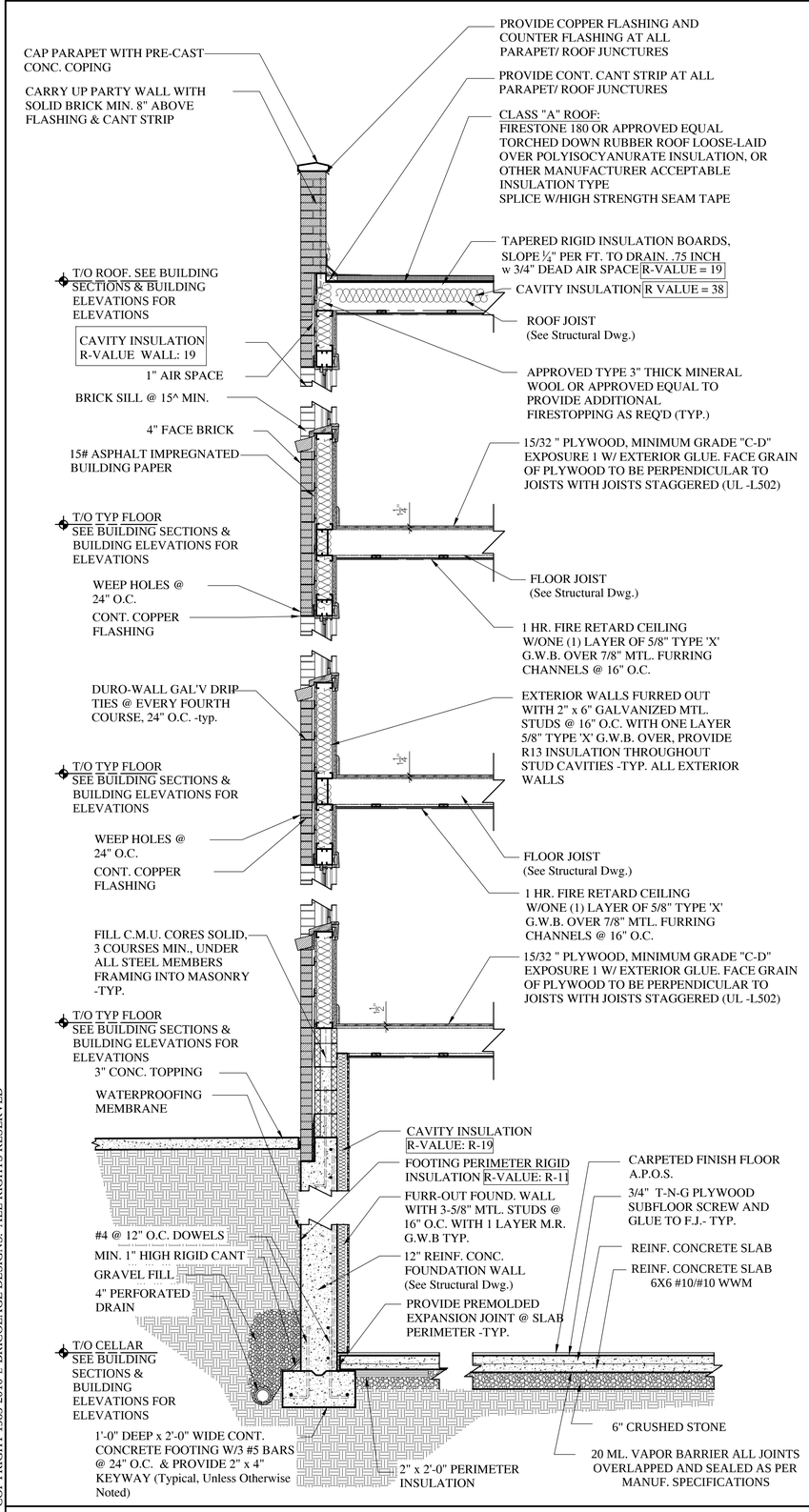
Client:

REVISIONS:
1 04-26-13 Added Vapor Barrier Details

DRAWN BY: L.C.
PROJECT No.: 12-107
DATE: 04-05-12
DRAWING No.:
SK-001.00
OF

WALL SECTION

SCALE: N.T.S.



BRICOLAGE
ARCHITECTURE
& DESIGN, PLLC
6321 New Utrecht Avenue
Brooklyn, N.Y. 11219
Tel. 718.259.1100
Fax. 718.259.0111

Vapor Barrier Plan & Details

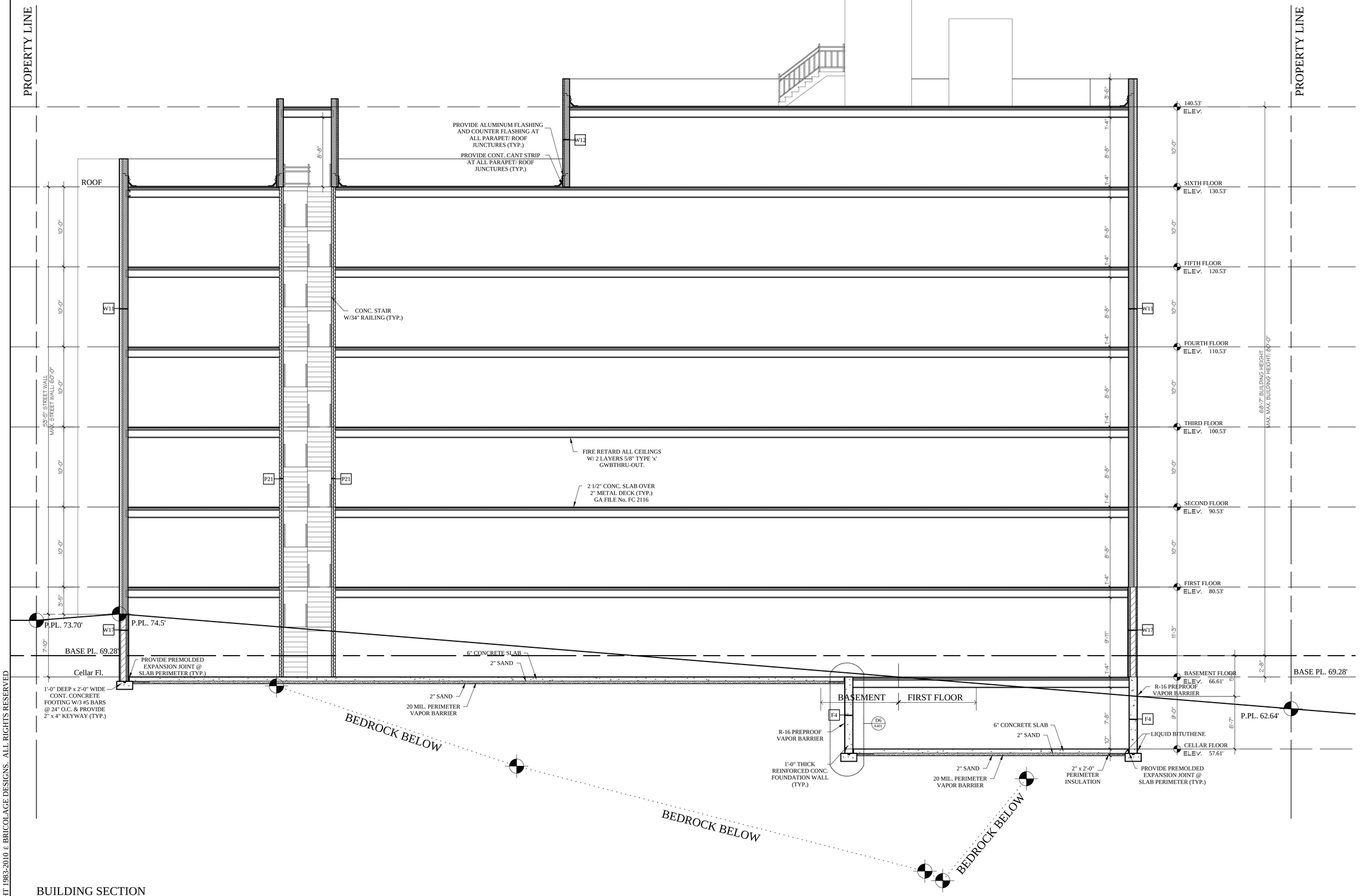
Proposed New Building, Seventh (7) Story & Cellar, Thirty (30) Family Dwelling, Located @ Convent Avenue, Manhattan, N.Y.

Client:

REVISIONS:
1 04-26-13 Added Vapor Barrier Details

REGISTERED ARCHITECT DOUGLAS PULAWSKI 016462 STATE OF NEW YORK

DRAWN BY: L.C.
PROJECT No.: 12-107
DATE: 04-05-12
DRAWING No.:
SK-002.00
OF



BUILDING SECTION

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

BRICOLAGE
ARCHITECTURE
& DESIGN, PLLC
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Brooklyn, N.Y. 11219
Tel. 718.259.1100
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Building Section

Proposed New Building, Seventh (7) Story & Cellar, Thirty (30) Family Dwelling, Located @ Convent Avenue, Manhattan, N.Y.

Client:

REVISIONS:
1 | 04-26-13 | Added Water Proofing

REGISTERED ARCHITECT
DOUGLAS PULASKI
STATE OF NEW YORK
019402

DRAWN BY: L.C.
PROJECT No.: 12-107
DATE: 04-05-12

DRAWING No.:
A300.01
OF