

J.R. Holzmacher P.E., LLC

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October 25, 2012

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

Re: 12CVCP079Q
E-Des # 12EH-N378Q
224-01 Merrick Boulevard
Remedial Action Work Plan (RAWP) Stipulation List

Dear Mr. Chawla:

J.R. Holzmacher P.E., LLC 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 224-01 Merrick LLC. 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.
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 BCP Information Sheet (attached **Appendix 2**) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.
6. This NYC BCP project involving the removal and transportation of hazardous waste 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. During and as part of remedial action at the site, a test pit will be completed in the area of the lot formerly used for parking and as a driveway for automobiles entering the service station. The test pit will be completed in the area where concrete patches indicate historic sub-grade work. The test pit will be completed to determine whether any underground storage tanks remain in this area and to verify that there are no impacts in this area.
8. Collection and analysis of endpoint samples will be conducted to evaluate the performance of the remedy with respect to attainment of Track 1 SCOs. A map indicating post-remedial endpoint sampling locations is provided in **Appendix 3**.
9. Architectural drawings of the proposed project, in plan and elevation, are included in **Appendix 4**.
10. Figure 3 in the RAWP will be replaced by the drawings in Appendix 4. Drawing A-002.00 shows the proposed demolition of the front exterior area of the building with the façade fronting Merrick Boulevard. The proposed redevelopment that will be used in this newly created open space is as follows: new concrete will be installed in the front exterior of the building along with five new parking spaces. The site will be fully covered with the footprint of the building and concrete cover on the remaining exterior area. The cap and composite cover for this area is described in item 12 below and shown in Appendix 7.
11. Section 4.3 of the RAWP indicates that a sub-slab depressurization system (SSDS) will be installed beneath the structure's grade and cellar slabs. A passive SSDS is designed to mitigate any potential sub-slab gases. The system will consist of new 4-inch HDPE slotted pipe, 3-inch ductile iron vent risers and a sub-slab vent piping access box located at grade on the exterior of the building footprint. **Appendix 5** provides PE/RA certified building plans with SSDS installation details (sub-slab matrix, piping configuration, risers, depressurization mechanism, etc.) with respect to the proposed building foundation, footings, slab, and sidewalls.

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12. Section 4.3 of the RAWP describes the VaporBlock Plus VBP 20-mil vapor barrier, manufactured by Raven Industries that will be installed beneath the new cellar area and the previous garage area where the existing hydraulic lift stations are to be removed. The new cellar area overlaps with one of the hydraulic lift stations. The two additional hydraulic lifts will be removed and replaced with a new slab. The remaining footprint of the building will maintain the existing slab. **Appendix 6** provides PE/RA certified building plans with the extent of the vapor barrier installation details (penetrations, joints, etc.) with respect to the proposed cellar foundation, footings, and the hydraulic lift station slab.
13. An engineered composite site cover will be placed over the entire footprint of the Site. New concrete will be installed in the front exterior of the building in the area of the demolished portion of the building and five new parking spaces will be provided. The site will be fully covered with the footprint of the building and concrete cover on the remaining exterior area. PE/RA certified drawings of the composite site cover are provided as **Appendix 7**. Figures [1] and [2] in **Appendix 7** show the typical design for the remedial cover type to be used on this site and the location of each cover type to be built at the site, respectively.

Very Truly Yours,



James M. DeMartinis
Senior Hydrogeologist
J.R. Holzmacher, P.E. LLC

cc: Z. Schreiber, OER

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

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).

Impacted Soil Excavation Methods

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 indentified 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 BCP Signage



NYC Brownfield Cleanup Program

**224-01 Merrick Boulevard
Site #: 12CVCP097Q**

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

For more information, log on to:

www.nyc.gov/oer

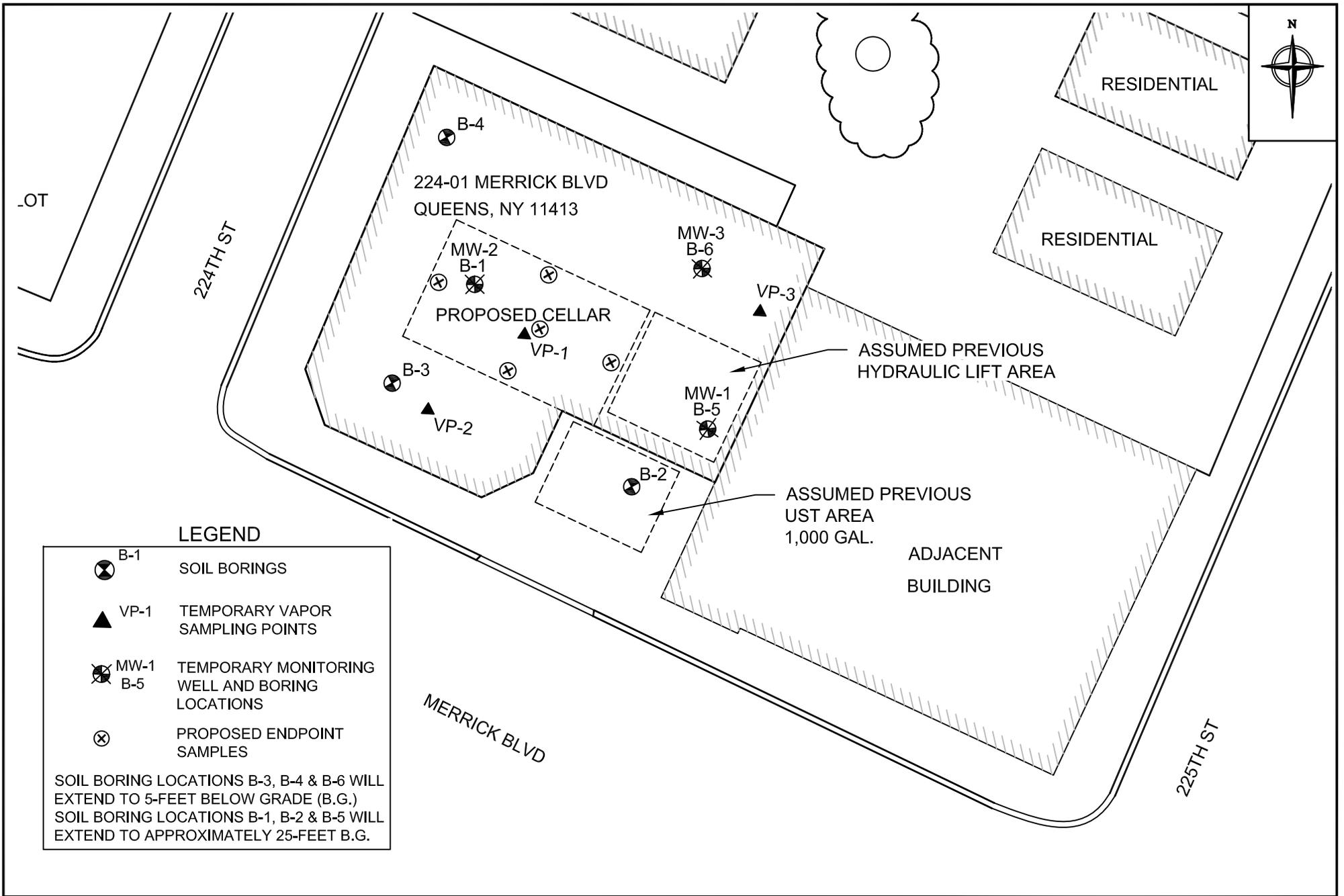


If you have questions or would like more information,
please contact:

Zach Schreiber at (212) 788-3056
or email us at brownfields@cityhall.nyc.gov

*The Third Generation of Excellence
In Water Supply, Water Resources, Civil and Environmental Engineering*

Appendix 3
Endpoint Sampling Plan



PREPARED BY:
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TITLE: **LOCATION OF AOCs, SOIL BORINGS,
 WELLS, SOIL VAPOR SAMPLES AND
 PROPOSED ENDPOINT SAMPLES**
 224-01 MERRICK BLVD
 QUEENS, NEW YORK 11413

| | | | |
|--------------|----------------|--------------------|-----------------------------|
| DWN: BJH | SCALE: 1:30 | DATE: 4/10/2012 | PROJECT NO.: KoptD 12-02 |
| CHKD: JMD | APPD: JMD | REV.: - | NOTES: - |
| FIGURE NO.: | | | 5 |

Appendix 4
Architectural Drawings

ZONING INFORMATION
 BOROUGH QUEENS
 ADDRESS: 224-01 MERRICK BLVD QUEENS NY 11413
 BLOCK: 12963
 LOT: 308
 MAP 19A
 ZONE R5D, C2-3
 COMMUNITY BOARD: 413
 EXISTING ONE STORY EXIST USE AUTO REPAIR SHOP, USE GROUP 16
 EXIST OCCUPANCY CLASS D-2
 PROPOSED USE: GENERAL RETAIL AND SERVICE
 PROPOSED ZONE USE GROUP: 6C
 PROPOSED BC OCCUPANCY CLASS: M
 CONSTRUCTION CLASS: 1-C
 PROPOSED CONVERT TO RETAIL STORES USE GROUP 6C FROM AUTO REPAIRSHOP USE GROUP 16 ON THE FIRST FLOOR

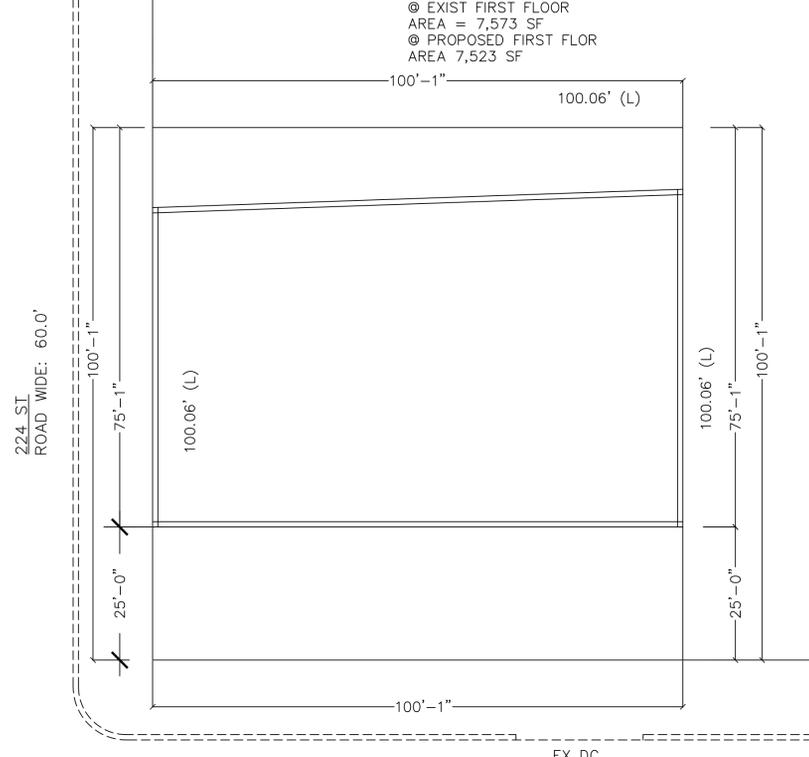
LOT LAND AREA = 10,012 SF SHOW TAX LOT AREA AND SHOW SURVEY 9,998 SF AND
 EXIST FIRST FLOOR AREA = 7,573 SF
 PROPOSED FIRST FLOOR AREA = 7,523 SF
 MAXIMUM ALLOWABLE FLOOR AREA RATIO -- -- AS PER ZR 33-121 = 2.0
 MAXIMUM ALLOWABLE FLOOR AREA = 9,998 S.F. X 2.0 = 19,996 S.F. > 7,573 SF = EXIST FIRST FLOOR AREA -- -- O.K.
 EXIST F.A.R. = 7,573 SF / 9,998 S.F. = 0.76 -- -- NO CHANGE
 ALLOWABLE BOTH COMMERCIAL AND COMMUNITY FACILITY F.A.R AS PER ZR 33-121 = MAX 2.0 > 0.76 EXIST -- -- O.K.
 PROPOSED COMMERCIAL FIRST FLOOR AREA = 7,573 SF
 COMMERCIAL F.A.R. = 7,573 SF / 9,998 S.F. = 0.76 < MAX 2.0 -- -- O.K.
 EXIST LOT COVERAGE AREA: 7,573 S.F.
 EXIST LOT COVERAGE IN PERCENT: 100 (EXIST LOT COVERAGE AREA / LOT AREA) = 100 (7,573 / 9,998) = 100 X 0.76 = 76 -- -- NO CHANGE
 REQUIRED PARKING NUMBER OF CAR CALCULATION AS PER Z.R. 36-21 -- -- GENERAL RETAIL OR SERVICE USES -- -- ONE CAR PER 400 SQ. FT. OF FLOOR AREA: 7,573 SQ. FT. (1/400) = 7,573 SQ. FT. / 400 = 918.9 CARS
 WAIVER OF REQUIREMENTS FOR SPACES AS PER ZR 36-231 -- -- 25 CARS > 18.9 CARS WAIVER PARKING SPACES -- -- O.K.
 REAR YARD: NONE REQUIRED AS PER ZR 33-301 WITHIN 100 FT OF CORNERS -- -- PROPERTY IS WITHIN 100.0' OF THE CORNER -- -- O.K.
 REAR YARD: MIN 30'-0" REQUIRED AS 23.0' ABOVE THE CURB LEVEL -- -- AS PER 33-292 YARDS ALONG DISTRICT BOUNDARIES COINCIDENT WITH REAR LOT LINES OF TWO ADJOINING ZONING LOTS -- -- EXIST BUILDING HT 18'-0" < MAX 23.0' -- -- NONE REQUIRED -- -- O.K.
 FRONT YARD: NONE REQUIRED
 SIDE YARD: NONE REQUIRED AS PER ZR 33-25 -- -- NOT REQUIRED -- -- O.K.
 EXIST NB HEIGHT: 18'-0" ONE STORY < MAXIMUM 30'-0" TWO STORY -- -- O.K.

MECHANICAL VENTILATION NOTES

- UPON COMPLETION OF THE VENTILATION SYSTEM, A TEST WILL BE MADE IN THE PRESENCE AND UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, QUALIFIED TO CONDUCT SUCH TESTS, OR OTHER PERSON HAVING NOT LESS THAN 5 YEARS EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS AND QUALIFIED TO CONDUCT SUCH TESTS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATING AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE SYSTEM IS APPROVED. KITCHENETTES TO HAVE ARCH, 12" DROP FROM CEILING.
- THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTS SUCH TEST SHALL FILE A CERTIFICATE AS TO WHETHER TEST SHOWS THAT THE RATE OF AIR SUPPLY AND EXHAUST COMPLIES WITH THE REQUIREMENTS OF THE CODE; PERTAINING TO VENTILATION, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE A TEST MADE BY A COMPETENT PARTY AND TO PROVIDE A CERTIFICATE OF FITNESS.
- A STATEMENT SHALL BE FILED BY THE OWNER. THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE LAWS AS FILED BY THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTED THE TEST OF THE SYSTEM AND NOT UNTIL THE STATEMENT OF THE OWNER IS FILED.
- KITCHENETTES TO HAVE #18 GAUGE GALVANIZED METAL VENT DUCTS WITH ANGLE IRON SUPPORTS AND WITH ADJACENT REGISTERS AND FUSE LINK DAMPERS AT EACH KITCHENETTE. ELECTRICAL EXHAUST FAN 1/20 H.P. CAPABLE OF EXHAUSTING SIX (6) CHANGES AIR PER HOUR IN METAL FAN HOUSING AT ROOF DUCTS TO BE 144 SQ. INCH MINIMUM. FAN TO RUN CONTINUOUSLY.
- ALL INTERIOR BATHROOMS TO HAVE A MINIMUM OF 144 SQ. INCH DUCT 24 GAUGE (WITH ANGLE IRON SUPPORT) G.I. METAL "B" MINIMUM WIDTH. FIREPROOF WITH 2 LAYERS OF 1/2" PLASTERBOARD TAPED JOINTS, ADJACENT REGISTERS AND FUSE LINK DAMPERS (APPROVED TYPE) AT EACH BATHROOM. ELECTRIC EXHAUSTING FAN IS METAL FAN HOUSING AT ROOF CAPABLE OF EXHAUSTING FOUR (4) AIR CHANGES PER HOUR. FAN TO RUN CONTINUOUSLY FROM 6:00 A.M. TO 12 MIDNIGHT.
- NO NUISANCE OF NOISE OR VIBRATION WILL BE CREATED BY VENTILATING MOTORS.

BOROUGH QUEENS
 ADDRESS: 224-01 MERRICK BLVD QUEENS NY 11413
 BLOCK: 12963
 LOT: 308
 MAP 19A
 ZONE R5D, C2-3

LOT LAND AREA = 100.06 X 100.06 = 10,012 SF
 EXIST FIRST FLOOR AREA = 7,573 SF
 PROPOSED FIRST FLOOR AREA = 7,523 SF



SCOPE OF WORK: CONVERT TO RETAIL STORES USE GROUP 6C FROM AUTO REPAIR SHOP USE GROUP 16 ON THE FIRST FLOOR, REPLACE NEW ROOF, CEILING AND INSTALL A PARTIAL PARTIONS AND A PARTIAL PLUMBING FIXTURES

TABLE 1004.1.2
 MAX FL AREA ALLOWANCES PER OCCUPANT

| USE OF SPACE | FL AREA (SF) |
|--|-----------------|
| MRCANTILE AREA OTER FLOOR BASEMENT AND GRADE FLOOR STORAGE, STOCK, SHIPPING AREA | 60 30 300 |
| BUSINESS | 100 |

TABLE 1018.2
 BUILDINGS WITH ONE EXIT

| OCCUPANCY | MAX HEIGHT ABOVE GRADE PLANE | MAX OCCUPANTS (OR DWELLING UNIT) PER FLOOR AND TRAVEL DISTANCE |
|------------------|------------------------------|--|
| A, B, E, F, M, U | 1 STORY | 50 OCCUPANTS AND 75 FT TRAVEL DISTANCE |
| B, F, M, S | 2 STORY | 30 OCCUPANTS AND 75 FT TRAVEL DISTANCE |

TABLE 1014.1
 SPACES WITH ONE MEANS EGRESS

| OCCUPANTS | MAX OCCUPANTS LOAD |
|---------------|--------------------|
| A, B, E, M, U | 74 |
| F | 50 |

BC 1014.2.1
 TWO EXITS OR EXIT ACCESS DOORWAYS
 - EXIT ACCESS DOORWAYS MIN 1/2 OF THE LENGTH OF MAX DIAGONAL DIMENTION OF THE BUILDING OR AREA TO SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS

TABLE 1005.1
 EGRESS WIDTH PER OCCUPANTS SERVED

| OCCUPANTS | STAIR WAYS INCHES PER OCCUPANTS | OTHER COMPONENTS INCHES PER OCCUPANTS |
|--------------------------------|---------------------------------|---------------------------------------|
| OTHER THAN LIST THOSE BELOW | 0.3 | 0.2 |
| HAZARDOUS H-1, H-2, H-3, & H-4 | 0.4 | 0.2 |

TABLE 1015.1
 EXIT ACCESS TRAVEL DISTANCE

| OCCUPANTS | WITHOUT SPRINKLER SYSTEM (FEET) | WITH SPRINKLER SYSTEM (FEET) |
|-----------------------|---------------------------------|------------------------------|
| E, F-1, I-1 M, R, S-1 | 150 | 200 |
| B | 200 | 300 |

GENERAL NOTES

- CONTRACTOR TO CHECK AND VERIFY ALL MEASUREMENTS AND DIMENSIONS AND ACTUAL CONDITIONS AT SITE AND BE HELD RESPONSIBLE FOR SAME CONTRACTOR TO OBTAIN ALL PERMITS AND FEES TO START AND COMPLETE ALTERATION UPON COMPLETION OF JOB CONTRACTOR IS TO SUPPLY OWNER WITH A CERTIFICATE OF OCCUPANCY.
- A STATEMENT SHALL BE FILED BY THE OWNER, THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICATION LAWS AS FILED BY THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTED THE TEST OF THE SYSTEM AND NOT UNTIL THE STATEMENT OF THE OWNER IS FILED.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF TITLE 27 [CHAPTER 26], ARTICLE 16 AND REFERENCE STANDARD RS-16 OF THE NYC BUILDING CODE.
- ALL WATER SUPPLIES SHALL BE OVER THE RIM OR SHALL BE PROVIDED WITH APPROVED VACUUM BREAKER FOR WATER CLOSET FLUSH VALVES, HOSE BIBBS, ETC.
- ALL NOTES, DIMENSIONS, DETAILS AND JOB CONDITIONS ARE TO BE CHECKED AND VERIFIED. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTOR AND PRIOR TO START OF WORK AND HE SHALL OBTAIN APPROVAL OF ALL COMPLETED WORK AS REQUIRED BY NEW YORK CITY ADMINISTRATIVE CODE AND ALL REQUIRED AGENCIES.
- EACH CONTRACTOR WILL BE HELD RESPONSIBLE FOR HIS WORK. ALL GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDINGS AND WILL BE RESPONSIBLE FOR THE JOINING OF WORK OF ALL TRADES.
- ALL MATERIALS, ASSEMBLIES AND METHODS OF CONSTRUCTION NOT LISTED AS CONTROLLED INSPECTIONS SHALL BE SUBJECT TO SEMI-CONTROLLED INSPECTION BY THE PERSON SUPERINTENDING THE CONSTRUCTION. SIGNED COPIES OF ALL TEST AND INSPECTION REPORTS SHALL BE FILED THROUGH THE ARCHITECT/ENGINEER WITH THE DEPARTMENT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF ARTICLE 19 "SAFETY OF PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS" AND SHALL BE HELD RESPONSIBLE FOR THE SAFE MAINTENANCE AS PRESCRIBED THEREIN UNTIL COMPLETION OF THE WORK.
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, BARRICADES, TEMPORARY FENCES, PARTITIONS, AND EXCAVATION, ETC. TO ACCOMPLISH ALL OF THE WORK IN AN APPROVED MANNER, AS PER SECTION 27-1052 [c26-1908.2].
- NO DRAWINGS TO BE SCALED, DIMENSIONS ARE TO BE USED.
- THE CONTRACTOR OR PERSON WHO SUPERVISED OR SUPERINTENDED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION WITH BUILDING DEPARTMENT INSPECTOR, SECTION 27-210 [c26-120.6].
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODE.
- ALL ELECTRIC WORK TO COMPLY WITH THE N.Y.C. B.C.
- THE CONTRACTOR SHALL UPON COMPLETION OF THE WORK SEE THAT THE JOB IS BROOM SWEEP.
- THE ARCHITECT/ENGINEER HAS NOT HAS BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION FOR ANY EQUIPMENT.

TABLE 601
 FIRE RESISTANCE RATING

| BUILDING ELEMENT | PROPOSED FIRE RESISTANCE RATING | | | | | | | | | | |
|---|---------------------------------|---|--------|---|--------|---|--------|-------------|--------|---|--------|
| | TYPE 1 | | TYPE 2 | | TYPE 3 | | TYPE 4 | | TYPE 5 | | TYPE 1 |
| | A | B | A | B | A | B | HT | A | B | | |
| STRUCTURAL FRAME INC COLUMN GIRERS, TRUSSES | 3 | 2 | 1 | 0 | 1 | 0 | 0 | HT | 1 | 0 | 3 |
| BEARING WALLS EXTERIOR INTERIOR | 3 | 2 | 1 | 0 | 2 | 2 | 2 | HT | 1 | 0 | 3 |
| NON BEARING WALLA EXTERIOR | SEE TABLE 602 | | | | | | | | | | |
| NONBEARING WALLS AND PARTITIONS INTERIOR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | SEE TBL 602 | 0 | 0 | 0 |
| FLOOR CONSTRUCTION INC BEAMS AND JOISTS | 2 | 2 | 1 | 0 | 1 | 0 | 0 | HT | 1 | 0 | 2 |
| ROOF CONSTRUCTION INC BEAMS AND JOISTS | 1 1/2 | 1 | 1 | 0 | 1 | 0 | 0 | HT | 1 | 0 | 1 1/2 |

TABLE 602
 FIRE RESISTANCE RATING -NON BEARING WALLS EXTERIOR

| FIRE SEPARATION DISTANCE (FT) | TYPE OF CONSTRUCTION | OCCUPANCY GROUP H | OCCUPANCY GROUP F-1, M, S-1 | OCCUPANCY GROUP A, B, E, F-2, I, R, S-2, U | OCCUPANCY GROUP M |
|-------------------------------|----------------------|-------------------|-----------------------------|--|-------------------|
| < 5 | ALL | 3 | 2 | 2 | 2 |
| ≤ 5 TO < 10 | IA OTHER | 3 | 2 | 1 | 2 |
| ≤ 10 TO < 30 | IA, IB 2B, 5B OTHER | 2 | 1 | 1 | 2 |
| ≤ 30 | ALL | 0 | 0 | 0 | 0 |

TABLE 705.4
 FIRE WALL FIRE RESISTANCE RATING

| GROUP | FIRE RESISTANCE RATING (HR) | PROPOSED FIRE RESISTANCE RATING | |
|------------------------------|-----------------------------|---------------------------------|-----------------------------|
| | | GROUP | FIRE RESISTANCE RATING (HR) |
| A, B, E, H-4, I, R-1, R-2, U | 3 | | |
| F-1, H-3, H-5, M, S-1 | 3 | M | 3 |
| H-1, H-2 | 4 | | |
| F-2, S-2, R-3, R-4 | 2 | | |

CONSULTING ENGINEER
DAL H CHUN PE
 DAL H CHUN ENGINEER PC
 127 LUDLOW ST #3C
 NEW YORK NY 10002
 TEL: 212-254-6801

CLIENT
SIMKHO ARANBAYEV
 102-10 METROPOLITAN AVB
 QUEENS NY 11375
 TEL: 718-268-1200

NOTE:

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET, ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

APPROVALS

DOB
 JOB NO #

| CONTROLLED INSPECTIONS | | |
|--------------------------|---|---|
| SPECIAL INSPECTION ITEMS | | |
| Y | N | SPECIAL INSPECTIONS CODE SECTION |
| X | | Flood Zone Compliance BC 6105 |
| X | | Fire Alarm Test BC 907, BC 1704.13 |
| X | | Photoluminescent Exit Path Markings TR7 I BC 1026.11 |
| X | | Emergency Power Systems (Generators) BC 1704.13, BC 2702 |
| X | | Structural Steel - Welding BC 1704.3.1 |
| X | | Structural Steel - Erection & Bolting BC 1704.3.2, BC 1704.3.3 |
| X | | Structural Steel - Formed Steel BC 1704.3.4 |
| X | | Concrete - Cast-in-place BC 1704.4 |
| X | | Concrete - Precast BC 1704.4 |
| X | | Concrete - Prestressed BC 1704.4 |
| X | | Masonry BC 1704.5 |
| X | | Wood - off-Site Fabrication of Structural Elements BC 1704.6 |
| X | | Wood - Installation of High-Load Diaphragms BC 1704.6.1 |
| X | | Wood - Installation of Metal-Plate-Connected Trusses BC 1704.6.3 |
| X | | Wood - Installation of Prefabricated I-Joists BC 1704.6.4 |
| X | | Soils - Site Preparation BC 1704.7.1 |
| X | | Soils - Fill Placements & In-Place Density BC 1704.7.2, BC 1074.7.3 |
| X | | Soils - Investigations (Borings/Test Pits) TR4 I BC 1704.7.4 |
| X | | File Foundations & Drilled Pier Installation TR5 I BC 1704.7.8 |
| X | | File Foundations BC 1704.7.9 |
| X | | Underpinning BC 1704.8.1 |
| X | | Wall Panels, curtain Walls, and Veneers BC 1704.10 |
| X | | Sprayed Fire-Resistant Materials BC 1704.11 |
| X | | Exterior Insulation Finish Systems (EIFS) BC 1704.12 |
| X | | Smoke Control Systems BC 1704.14 |
| X | | Mechanical Systems BC 1704.14 |
| X | | Fuel-Oil Storage and Fuel-Oil Piping Systems BC 1704.15 |
| X | | High-Pressure Steam Piping (Welding) BC 1704.17 |
| X | | Fuel-Gas Piping (Welding) BC 1704.18 |
| X | | Structural Safety - Structural Stability BC 1704.19 |
| X | | Mechanical Demolition BC 1704.19, BC 3306.4 |
| X | | Excavation - Sheeting Shoring and Bracing BC 1704.19, BC 3304.4.1 |
| X | | Soil Percolation Test - Drywell BC 1704.20.1 |
| X | | Soil Percolation Test - Septic BC 1704.20.1 |
| X | | Site Storm Drainage Disposal and Detention System Installation BC 1704.20 |
| X | | Septic System Installations BC 1704.20 |
| X | | Sprinkler Systems BC 1704.21 |
| X | | Standpipe Systems BC 1704.22 |
| X | | Heating Systems BC 1704.23 |
| X | | Chimneys BC 1704.24 |
| X | | Fire Stops, Draftstop, and firelock Systems BC 1704.25 |
| X | | Aluminum Welding BC 1704.26 |
| X | | Seismic Isolation Systems BC 1707.8 |
| X | | Concrete Test Cylinder TR2 BC 1905.6 |
| X | | Concrete Design Mix TR3 BC 1905.3 |

| PROGRESS INSPECTION ITEMS | | |
|---------------------------|--|--|
| X | | Preliminary 28-116.2.1, BC 109.2 |
| X | | Footing and Foundation BC 109.3.1 |
| X | | Lowest floor Elevation (Attach FEMA Form) BC 109.3.2 |
| X | | Frame Inspection BC 109.3.3 |
| X | | Energy Code Compliance Inspection BC 109.3.5 |
| X | | Fire-Resistance Rated Construction BC 109.3.4 |
| X | | Public Assembly Emergency Lighting BC 116.2.2 |
| X | | Final 28-116.2.4.2 and BC 109.5 and Direction 14 of 1975 |

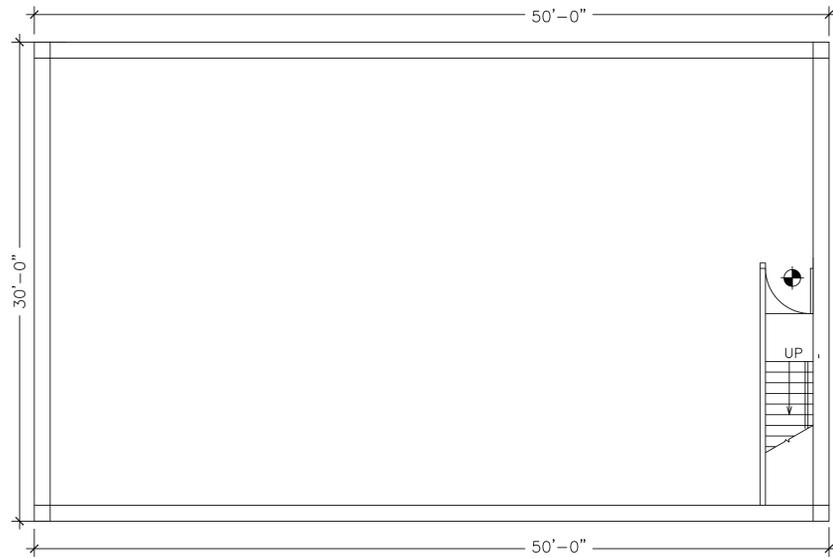
| ENERGY CODE PROGR INSPECTIONS | | |
|-------------------------------|---|--|
| SPECIAL INSPECTION ITEMS | | |
| Y | N | SPECIAL INSPECTIONS CODE SECTION |
| X | | Protection of foundation of insulation (IA1) (IA1) |
| X | | Insulation Placement and R value (IA2) (IA2) |
| X | | Fenestration thermal Values and Ratings (IA3) (IA3) |
| X | | Fenestration thermal Values and air Leakage (IA4) (IA4) |
| X | | Fenestration Areas (IA5) (IA5) |
| X | | Air Sealing and Insulation - Visual (IA6) (IA6) |
| X | | Air Sealing and Insulation - Testing (IA7) (IA7) |
| X | | Project Factors (IA8) (IA8) |
| X | | Loading Deck Weather Seals (IA9) (IA9) |
| X | | Vestibules (IA9) (IA9) |
| X | | Fireplaces (IB1) (IB1) |
| X | | Dampers Intral to Building Envelope (IB2) (IB2) |
| X | | HVAC and Service Water Heating Equipment (IB3) (IB3) |
| X | | HVAC and Service Water Heating System Controls (IB4) (IB4) |
| X | | Duct Plenum and Piping Insulation and Sealing (IB5) (IB5) |
| X | | Duct Leakage Testing (IB6) (IB6) |
| X | | Electrical Metering (IC1) (IC1) |
| X | | Lighting in Dwelling Units I (IC2) (IC2) |
| X | | Interior Lingting Power I (IC3) (IC3) |
| X | | Exterior Lighting Power (IC4) (IC4) |
| X | | Lighting Control (IC5) (IC5) |
| X | | Exit Signs (IC6) (IC6) |
| X | | Tandem Wiring (IC7) (IC7) |
| X | | Electrical Motors (IC8) (IC8) |
| X | | Maintenance Information (ID1) (ID1) |
| X | | Permanent Certification (ID2) (ID2) |

| BLOCK | ZONING DISTRICT | MAP |
|-------|-----------------|-----|
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

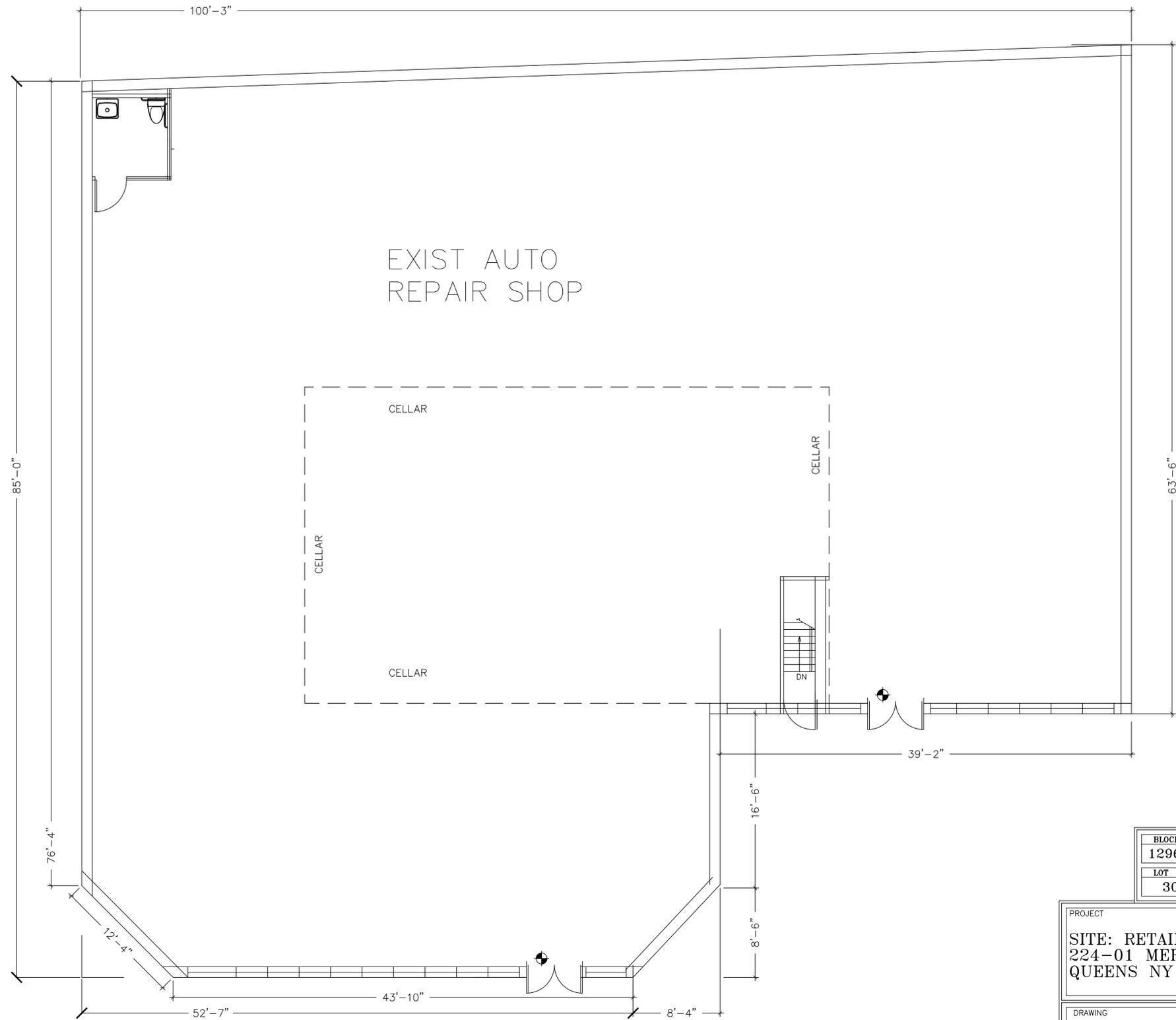
PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
PLOT PLAN
ZONING ANALYSIS

| | |
|------|------------------------|
| SEAL | DATE 08-09-12 |
| | PROJECT NO.: JB-454-01 |
| | DRAWING BY: DC |
| | CHK BY: DC |
| | DRAWING NO.: Z-001.00 |
| | 1 OF 9 |



EXIST CELLAR PLAN
SCALE: 3/16" = 1'-0"



EXIST FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
EX CEEL, FIRST FLOOR
ARCHITECT FLOOR PLAN

CONSULTING ENGINEER
DAL H CHUN PE
DAL H CHUN ENGINEER PC
127 LUDLOW ST #3C
NEW YORK NY 10002
TEL: 212-254-6801

CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200

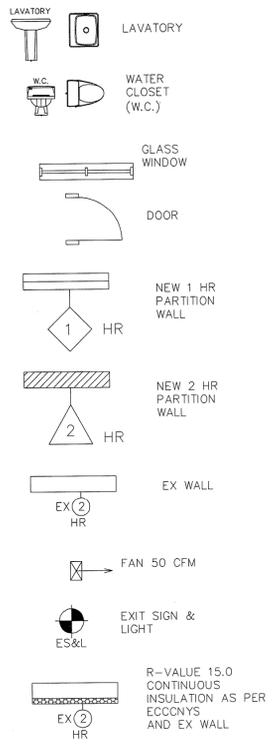
APPROVALS

DOB
JOB NO #

SEAL
STATE OF NEW YORK
DAL H CHUN
REGISTERED PROFESSIONAL ENGINEER
080675

DATE 08-09-12
PROJECT NO.: JB-454-01
DRAWING BY DC
CHK BY DC
DRAWING NO.:
A-001.00
2 OF 9

LEGEND



NOTE: E-DESIGNATION DISTRICT NOISE E - PROVIDE WITH A MINIMUM 30 DB(A) OF WINDOW WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DB(A) OR LESS, WITH WINDOW CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION

KEEP IN THIS PART EXTERIOR WALL IN EXIST

#1 STORE:
USE: GENERAL RETAIL STORE OR SERVICE USES
USE GROUP: 6C
OCCUPANCY CLASS: M
AREA: 2,277 S.F.
NUMBER OF PERSONS: 20 PERSONS

#2 STORE:
USE: GENERAL RETAIL STORE OR SERVICE USES
USE GROUP: 6C
OCCUPANCY CLASS: M
AREA: 2,012 S.F.
NUMBER OF PERSONS: 40 PERSONS

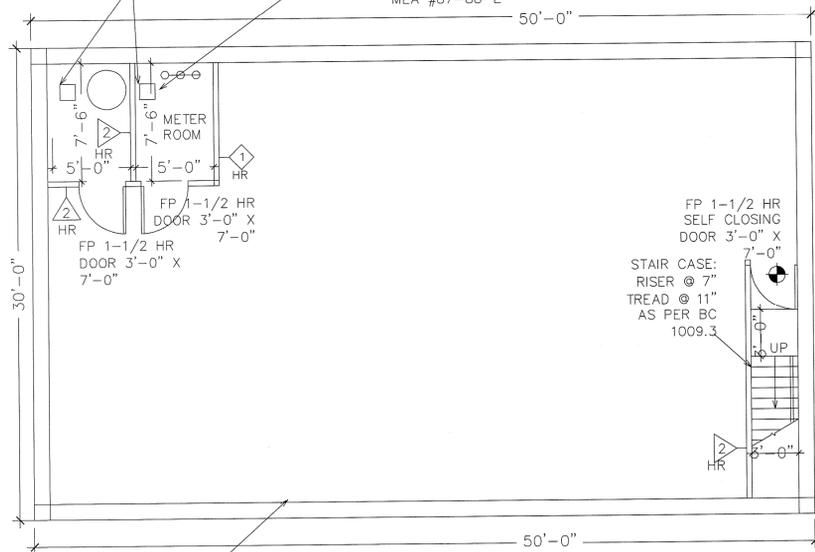
#3 STORE:
USE: GENERAL RETAIL STORE OR SERVICE USES
USE GROUP: 6C
OCCUPANCY CLASS: M
AREA: 1,894 S.F.
NUMBER OF PERSONS: 40 PERSONS

STORE:
(1). EGRESS CALCULATION:
0.2 OCCUPANTS LOADS PER INCH AS PER TABLE 1005.1 - - -
2 DOORS = (2) X 36 INCH = 72 INCH = 72/0.2 = MAX 360 > PROP 40 - - O.K.
(2). OCCUPANTS LOADS CALCULATION AS PER TABLE 1004.1.2 = FIRST FL (2,277/ 30) = MAX 84 > 40 PROP - - - O.K.

STORE:
(1). EGRESS CALCULATION:
0.2 OCCUPANTS LOADS PER INCH AS PER TABLE 1005.1 - - -
2 DOORS = (2) X 36 INCH = 72 INCH = 72/0.2 = MAX 360 > PROP 40 - - O.K.
(2). OCCUPANTS LOADS CALCULATION AS PER TABLE 1004.1.2 = FIRST FL (2,012/ 30) = MAX 67 > 40 PROP - - - O.K.

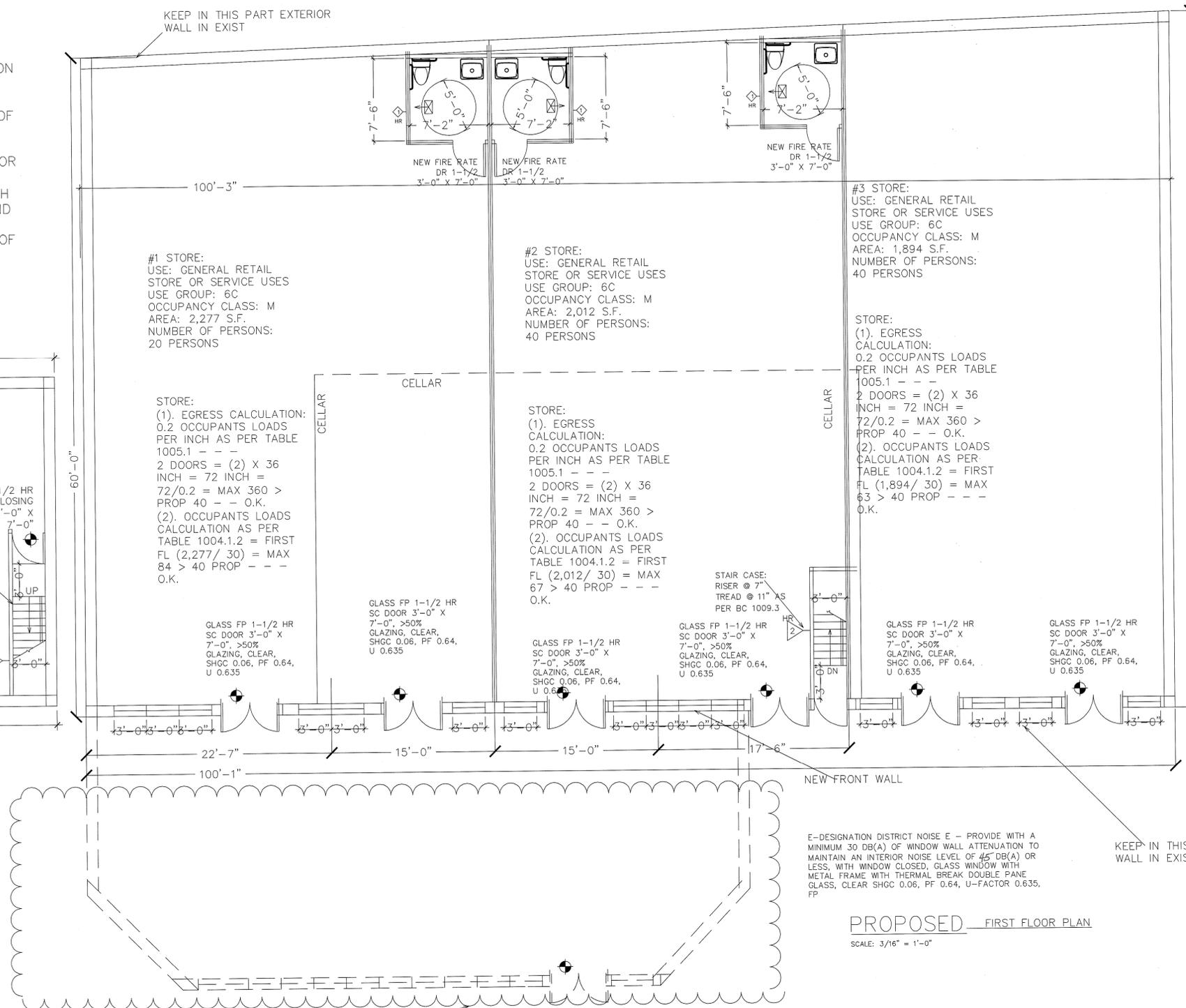
STORE:
(1). EGRESS CALCULATION:
0.2 OCCUPANTS LOADS PER INCH AS PER TABLE 1005.1 - - -
2 DOORS = (2) X 36 INCH = 72 INCH = 72/0.2 = MAX 360 > PROP 40 - - O.K.
(2). OCCUPANTS LOADS CALCULATION AS PER TABLE 1004.1.2 = FIRST FL (1,894/ 30) = MAX 63 > 40 PROP - - - O.K.

SIZE 12"x12" FRESH AIR GALVANIZED STEEL DUCT GAGE 16 TO ROOF OR EXTERIOR WALL TO OUTSIDE ABOVE GRADE ELEVATION
GAS FIRED HOT WATER HEATER MODEL: #PG5150-50 MANUFACTURER: A. O. SMITH UL 12100 MEA #87-88-E



PROPOSED CELLAR PLAN
SCALE: 3/16" = 1'-0"

KEEP IN ALL EXTERIOR WALL IN EXIST ON THE CELLAR



E-DESIGNATION DISTRICT NOISE E - PROVIDE WITH A MINIMUM 30 DB(A) OF WINDOW WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DB(A) OR LESS, WITH WINDOW CLOSED, GLASS WINDOW WITH METAL FRAME WITH THERMAL BREAK DOUBLE PANE GLASS, CLEAR SHGC 0.06, PF 0.64, U-FACTOR 0.635, FP

PROPOSED FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

KEEP IN THIS PART WALL IN EXIST

REMOVAL IN THIS PART EXTERIOR WALL

NOTE:

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APPROVALS

CONSULTING ENGINEER
DAL H CHUN PE
DAL H CHUN ENGINEER PC
127 LUDLOW ST #3C
NEW YORK NY 10002
TEL: 212-254-6801

CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200

DOB
JOB NO #

| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

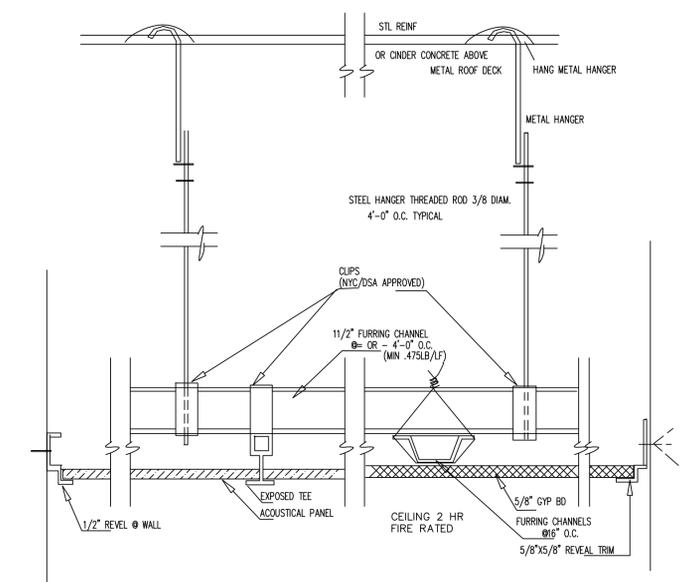
PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
PROP CEL, FIRST FLOOR
ARCHITECT FLOOR PLAN

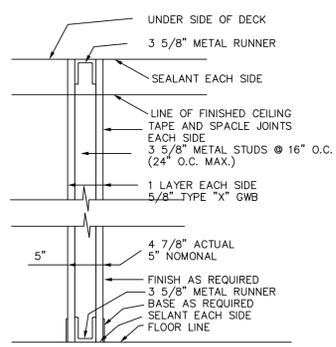
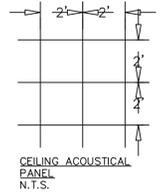
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| SEAL | DATE 08-09-12 |
| | PROJECT NO.: JB-454-01 |
| | DRAWING BY: DC |
| | CHK BY: DC |
| | DRAWING NO.: A-002.00 |
| | 3 OF 9 |



REMOVAL AND REPLACE ROOF MATERIAL



C-3 DETAIL FOR SUPPORTING CEILING (TYP.) AND CEILING 2 HR FIRE RATED
N.T.S.



PARTITION
N.Y.S.

REFERENCE: FIRE RESISTANCE DESIGN MANUAL
THICKNESS 4 7/8"
FIRE TEST: UL R1319, 94NK40598
SOUND TEST: USG-960709, 7-18-96
S.T.C. RATING: 45-49
FIRE RATING: 1 HOUR
LIMITING HEIGHT: 17'-3"

| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
ROOF
ARCHITECT FLOOR PLAN

| | |
|-----------------------|------------------------|
| SEAL | DATE 08-09-12 |
| | PROJECT NO.: JB-454-01 |
| | DRAWING BY DC |
| | CHK BY DC |
| DRAWING NO.: A-003.00 | |
| 4 OF 9 | |

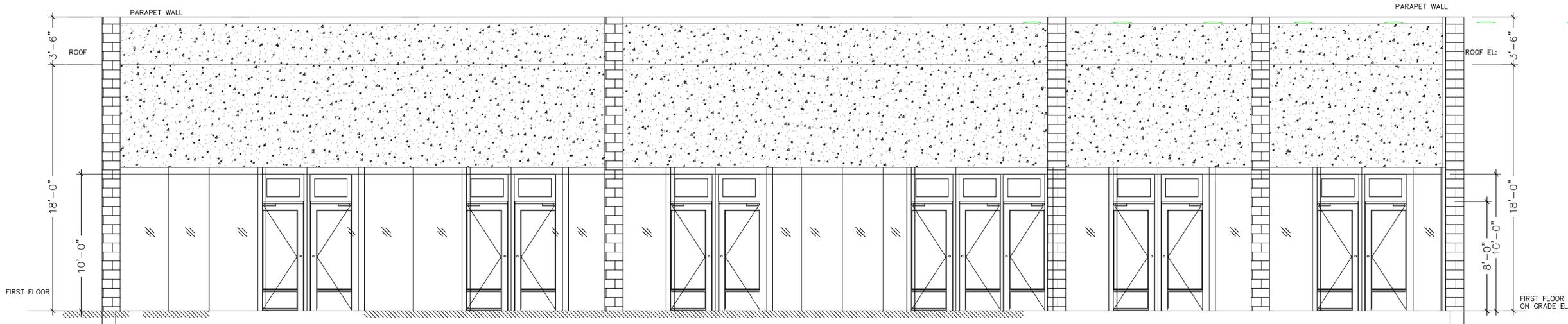
NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

APPROVALS

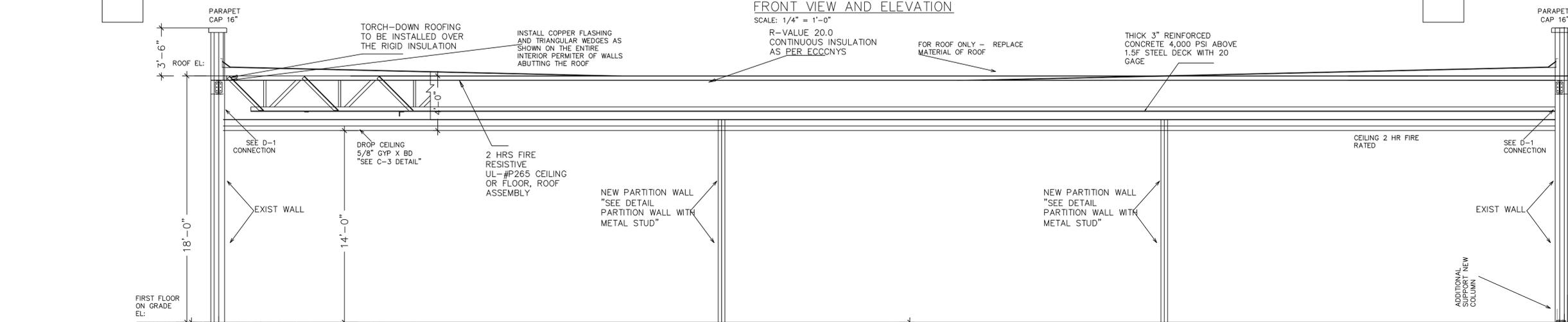
DOB
JOB NO #

CONSULTING ENGINEER
DAL H CHUN PE
DAL H CHUN ENGINEER PC
127 LUDLOW ST #3C
NEW YORK NY 10002
TEL: 212-254-6801

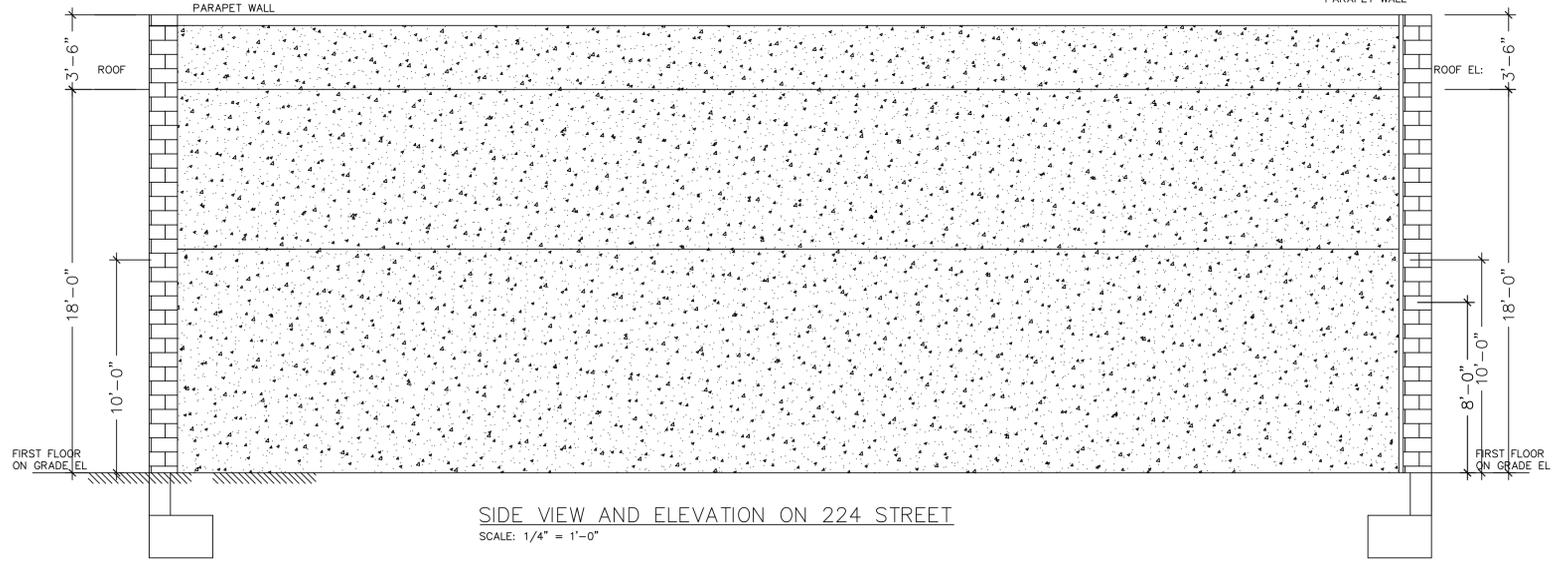
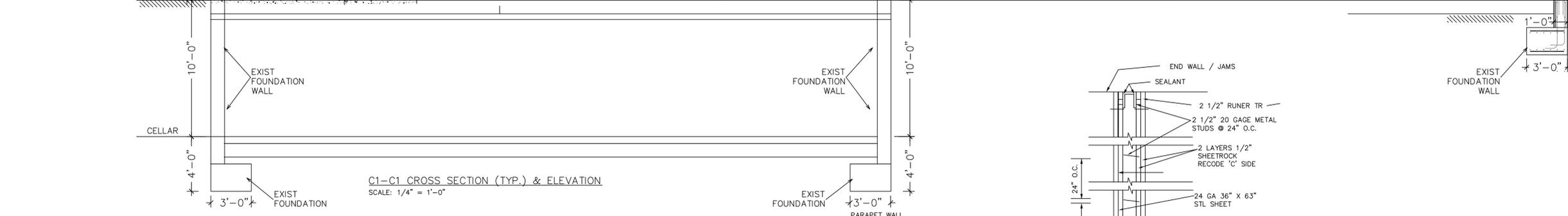
CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200



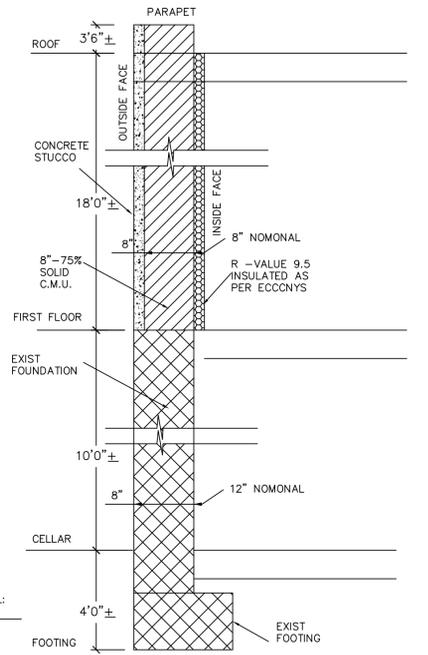
FRONT VIEW AND ELEVATION
SCALE: 1/4" = 1'-0"



C1-C1 CROSS SECTION (TYP.) & ELEVATION
SCALE: 1/4" = 1'-0"



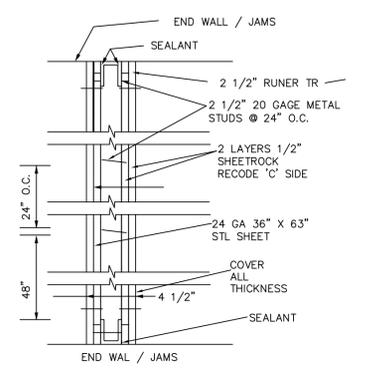
SIDE VIEW AND ELEVATION ON 224 STREET
SCALE: 1/4" = 1'-0"



WALL FIRE BARRIER DETAIL
AS PER BC 705.5/705.6
NTS

3 HR CONCRETE BLOCK WALL - GENERAL PORTLAND MEA #99-42-M
3HR

8"-75% SOLID C.M.U. DURO-WALL REINFORCEMENT EVERY 2ND C.M.U. COURSE #6 REBARS @ EVERY 32" OR 36" O.C. EVERY CORNER CELL SHALL BE REINFORCED GROUT SOLID EVERY CELL WITH A REBAR IN IT



PARTITION
N.Y.S.

BSA #542-68-SM
2 HOUR FIRE RATING NON COMBUSTIBLE ASSEMBLIES APPROVED FOR USE, N.Y.C. CITY
UNITED STATE GYPSUM COMPANY

NOTE:
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APPROVALS

CONSULTING ENGINEER
DAL H CHUN PE
DAL H CHUN ENGINEER PC
127 LUDLOW ST #3C
NEW YORK NY 10002
TEL: 212-254-6801

CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200

DOB
JOB NO #

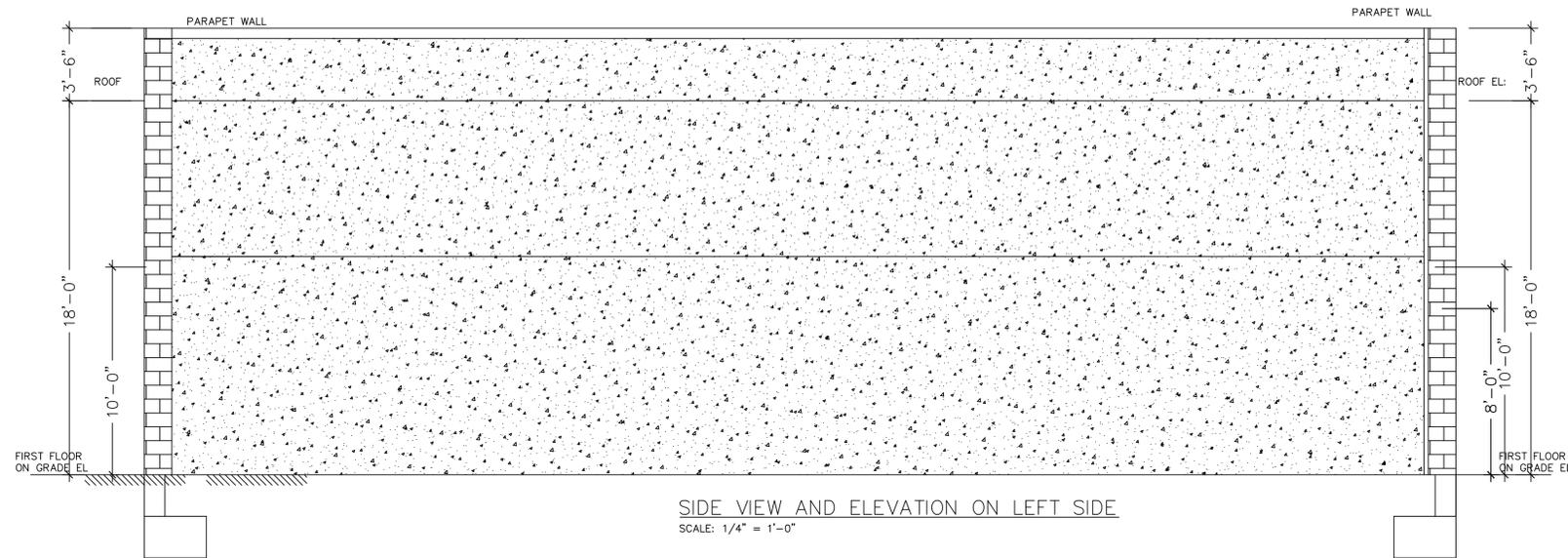
| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

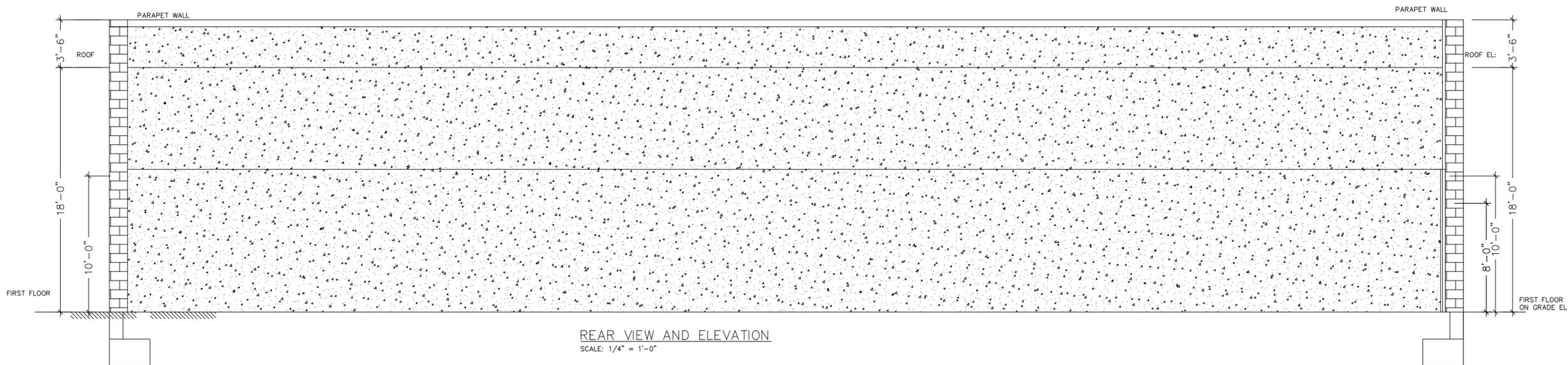
DRAWING
FRONT AND SIDE VIEW
ELEVATION PLAN

SEAL

DATE: 08-09-12
PROJECT NO.: JB-454-01
DRAWING BY: DC
CHK BY: DC
DRAWING NO.:
A-004.00
5 OF 9



SIDE VIEW AND ELEVATION ON LEFT SIDE
SCALE: 1/4" = 1'-0"



REAR VIEW AND ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
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| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
FRONT AND SIDE VIEW
ELEVATION PLAN

CONSULTING ENGINEER
DAL H CHUN PE
DAL H CHUN ENGINEER PC
127 LUDLOW ST #3C
NEW YORK NY 10002
TEL: 212-254-6801

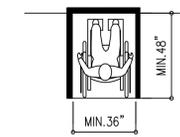
CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200

APPROVALS

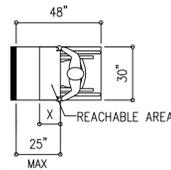
DOB
JOB NO #

SEAL

DATE 08-09-12
PROJECT NO.: JB-454-01
DRAWING BY DC
CHK BY DC
DRAWING NO.:
A-005.00
6 OF 9

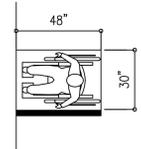


(D) FORWARD REACH LIMIT

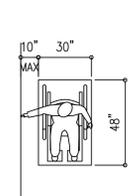


NOTE: CLEAR FLOOR OR GROUND SPACE SHALL EXTEND NO MORE THAN 25" UNDER THE OBSTRUCTION

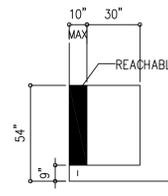
(A) MAX FORWARD REACH OVER AN OBSTRUCTION



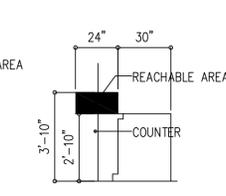
(B) FORWARD REACH LIMIT



(C1) SIDE REACH CLEAR FLOOR SPACE: PARALLEL APPROACH



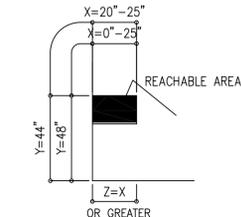
(C2) SIDE REACH HIGH AND LOW REACH LIMITS



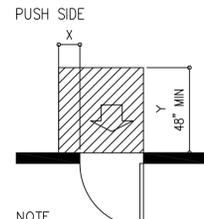
(C3) SIDE REACH MAX REACH OVER OBSTRUCTION



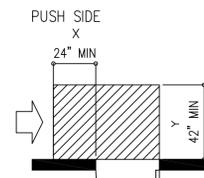
(E) FORWARD REACH LIMIT



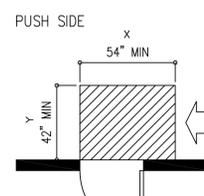
NOTE: X= REACH DISTANCE, Y= MAXIMUM HEIGHT, Z= CLEAR KNEE SPACE, Z IS THE CLEAR SPACE BELOW THE OBSTRUCTION, WHICH SHALL BE AT LEAST AS DEEP AS THE REACH DISTANCE, X.



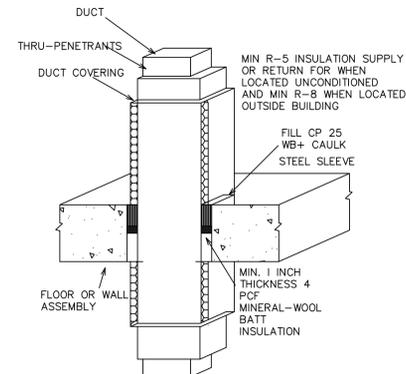
(A) MANEUVERING CLEARANCE AT DOOR: FRONT APPROACH



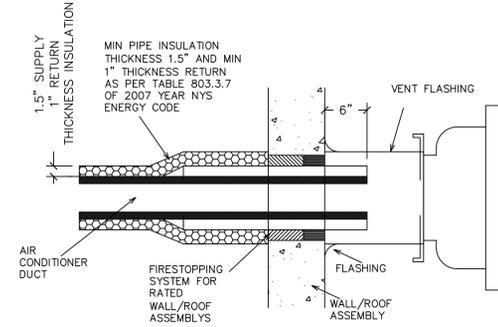
(B) MANEUVERING CLEARANCE AT DOOR: LATCH-SIDE APPROACH



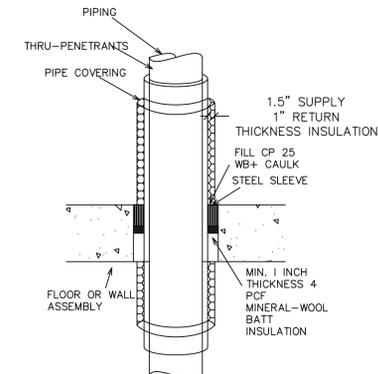
(C) MANEUVERING CLEARANCE AT DOOR: HINGE-SIDE APPROACH



DUCT INSULATION AND FIRESTOPPING
2 HOUR TO 3 HOUR RATED ---
LISTED FIRE RESISTANCE
MANUFACTURER: A&S TECHNOLOGIES, LTD.
APARTADO 603685, ESTAFETA EL DORADO,
REPUBLIC OF PANAMA FOR 3M FIRE PROTECTION PRODUCTS
UL: 723
MEA: 92-95-M
① DUCT INSULATION FOR SUPPLY AND RETURN MIN. R-5 WHEN LOCATED IN UNCONDITIONED SPACES AND MIN R-8 WHEN LOCATED OUTSIDE BUILDING, AND MIN R-8 WHEN LOCATED WITHIN A BUILDING, DUCT SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES AS PER 803.2.8 2007 EDITION NYS ENERGY CODE



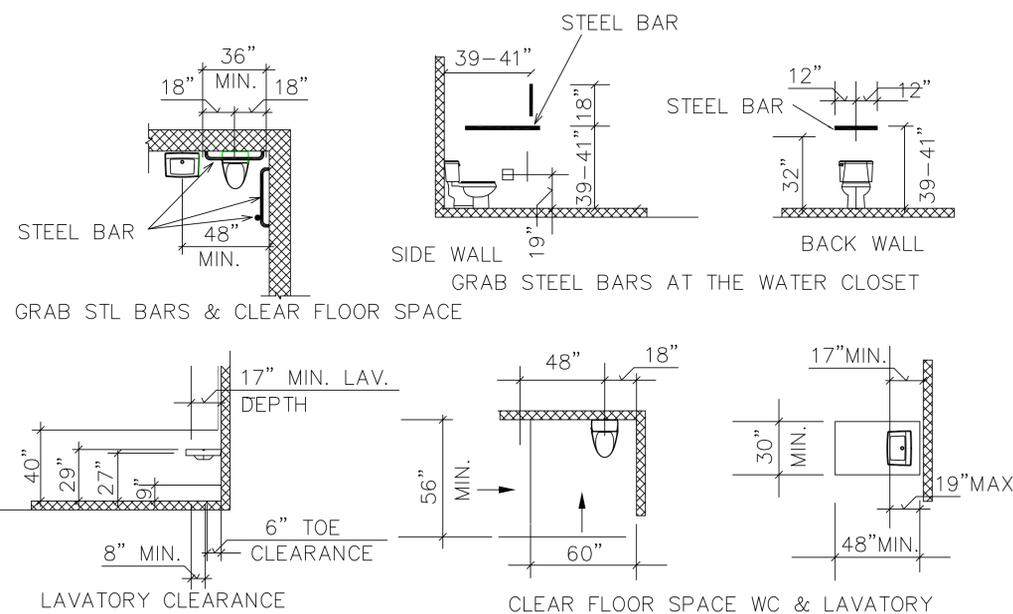
PIPING INSULATION AND FIRESTOPPING
1 HOUR TO 2 HOUR RATED ---
LISTED FIRE RESISTANCE ENCLOSURE FOR HVAC SHAFT AND DUCT
MANUFACTURER: TRIEX, LLC, P.O. BOX 370, INDEPENDENCE, VA 24348
TRADE NAME(S): 3M FIRE BARRIER AIR VENTILATION DUCT SYSTEM
UL: 263
MEA: 20-02-M
① AROUND PIPING INSULATION THICKNESS AS PER TABLE 803.3.7 2007 EDITION NYS ENERGY CODE



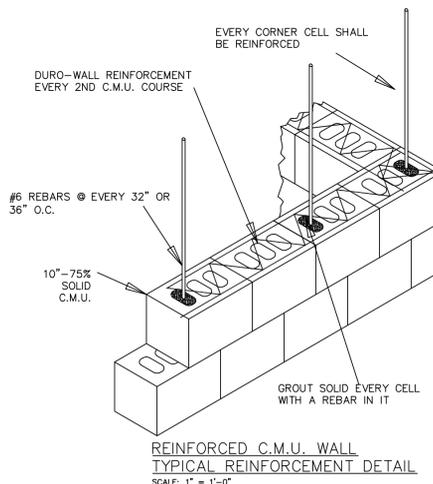
PIPING INSULATION AND FIRESTOPPING
2 HOUR TO 3 HOUR RATED ---
LISTED FIRE RESISTANCE
MANUFACTURER: A&S TECHNOLOGIES, LTD.
APARTADO 603685, ESTAFETA EL DORADO,
REPUBLIC OF PANAMA FOR 3M FIRE PROTECTION PRODUCTS
UL: 723
MEA: 92-95-M
① AROUND PIPING INSULATION THICKNESS AS PER TABLE 803.3.7 2007 EDITION NYS ENERGY CODE

1 DOOR SWING REQUIREMENTS NOT TO SCALE

2 PROTRUDING OBJECTS NOT TO SCALE



HANDICAPPED ACCESSIBLE BATHROOM DETAILS N.T.S.



REINFORCED C.M.U. WALL TYPICAL REINFORCEMENT DETAIL SCALE: 1" = 1'-0"

NOTE: THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

APPROVALS

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CLIENT
SIMKHO ARANBAYEV
102-10 METROPOLITAN AVE
QUEENS NY 11375
TEL: 718-268-1200

DOB
JOB NO #

| | | |
|-------|-----------------|-----|
| BLOCK | ZONING DISTRICT | MAP |
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
SITE: RETAIL STORES
224-01 MERRICK BLVD
QUEENS NY 11419

DRAWING
H/C ACCESS
DETAIL TYP.

| | | |
|------|--------------|-----------|
| SEAL | DATE | 08-09-12 |
| | PROJECT NO.: | JB-454-01 |
| | DRAWING BY: | DC |
| | CHK BY: | DC |
| | DRAWING NO.: | A-006.00 |
| | | 7 of 9 |

Appendix 5
Sub-Slab Depressurization System Design and Details

**GENERAL NOTES-
SUB-SLAB DEPRESSURIZATION SYSTEM
(Soil Gas Mitigation)**

I. PURPOSE

The intent of the Sub-Slab Depressurization System described in this plan is to promote public safety and welfare by controlling soil gas intrusion potentially emanating from beneath the building sub grade. The system is not intended to regulate flammable vapors that may originate in and propagate from other sources, which include, but are not limited to, ruptured hazardous material transmission lines, underground atmospheric tanks, or similar installations.

II. GENERAL REQUIREMENTS

CODES:

All work shall be in compliance with the current Building Code and policies of the Department of Building and all applicable County, State, and Federal Codes.

INSPECTION:

All work, requiring inspection by the Department of Building, shall be available to the inspector prior to being covered by subsequent work.

III. CONSTRUCTION CRITERIA

A. PASSIVE SYSTEM

The Passive System consists of the following: Sub-Slab Vent System and Impervious Membrane.

1. Sub-Slab Vent System

Sub-Slab Vent System shall consist of Perforated Horizontal Pipes, Gravel Blanket Under Impervious Membrane, Gravel Around Perforated Horizontal Pipes and Vent Risers.

a. Perforated Horizontal Pipes:

- i. Perforated Horizontal Pipes shall be listed, minimum Schedule 40, slotted or perforated High Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC) pipe or other materials approved by the Department of Building for the intended use.
- ii. Perforated Horizontal Pipe shall be installed as follows:
 - Spacing and location of Perforated Horizontal Pipes shall be as indicated on the plans.
 - Pipes used only as vents may be installed in the horizontal position.
 - Undulations in the Perforated Horizontal Pipes, which may impede the passage of gas, shall be avoided (e.g. Perforated Horizontal Pipes shall not be deformed to pass below interior footings).

b. Gravel Blanket Thickness Under Impervious Membrane:

- i. The thickness of the Gravel Blanket under Impervious Membrane shall be as indicated on the plans.
 - ii. The composition of gravel shall be washed particles that have no more than one fractured face.
 - iii. The gradations of gravel shall conform to Table 1 shown on this sheet.
 - iv. The gradations of sand shall conform to Table 2 shown on this sheet.
- c. Gravel Thickness Around Perforated Horizontal Pipes:**
- i. Gravel thickness around Perforated Horizontal Pipes shall be as indicated on the plan details.
 - ii. When sand is used as the Gravel Blanket a geo-fabric to prevent sand from entering the Perforated Horizontal Pipes shall be placed around the Perforated Horizontal Pipes.
 - iii. Gravel shall be composed entirely of particles that have no more than one fractured face.

d. Vent Risers:

- i. Vent Risers shall be connected to Perforated Horizontal Pipes and constructed of cast iron or ductile iron.
- ii. Vent Risers shall be spaced and located as per plan layout.
- iii. Vent Riser outlets shall be located at least:
 - 10 feet above grade,
 - 10 feet away from any window, doors, roof hatch, opening or air intake into the building,
 - 3 feet above highest point of roof within a 10' radius of outlet,
 - 3 feet away from any parapet,
 - 4 feet away from the property line and
 - 5 feet away from any electrical device.
- iv. If rain guards are provided, they shall be non-restricting.

2. Impervious Membrane

a. Impervious Membrane Installation:

- i. Installation shall comply with the conditions of approval by the NYCDOB, NYSDEC and manufacturer's specification of the Impervious Membrane.
- ii. Impervious Membrane shall be installed at the following locations:
 - Below the building slab surrounded by the inner face of the exterior footings
 - On the exterior surface of walls from the finished grade level to a minimum of 6 inches below the bottom of the adjoining building slab
 - Around sides of pile caps and caisson caps (if applicable).
- iii. Impervious Membranes at sump pits shall be installed as follows:
 - Two layers of Impervious Membrane below slabs and footings of all sump pits and holding tanks (if applicable).
- iv. The individual certified by the manufacturer of the Impervious Membrane shall certify that the Impervious Membrane was installed per approved plans.

b. Seals at Impervious Membrane Penetrations:

- i. Where footings, plumbing pipes, electrical conduits and other materials penetrate the Impervious Membrane, the penetrations shall be sealed by using sleeves or boots composed of the same material or other approved materials and methods in accordance with the specifications of the manufacturer for the Impervious Membrane.
- ii. To retard soil gas entry, large openings through concrete slabs, wood, and other floor assemblies in contact with the soil, such as spaces around bathtub, shower, or toilet drains, shall be filled or closed with materials that provide a permanent airtight seal such as non-shrink mortar, grouts, expanding foam, or similar materials designed for such application.
- iii. To retard soil gas entry, smaller gaps around all pipe, wire, or other objects that penetrate concrete slabs or other floor assemblies shall be made air tight with an elastomeric joint sealant, as defined in ASTM C920-87, and applied in accordance with the manufacturer's recommendations.
- iv. To retard soil gas entry, all control joints, isolation joints, construction joints, and any other joints in concrete slabs or between slabs and foundation walls shall be sealed. A continuous formed gap (for example, a "tooled edge") which allows the application of a sealant that will provide a continuous, airtight seal shall be created along all joints. When the slab has cured, the gap shall be cleared of loose material and filled with an elastomeric joint sealant, as defined in ASTM C920-97, and applied in accordance with the manufacturer's recommendations.
- v. Joints, cracks, or other openings around all penetrations of both exterior and interior surfaces of masonry block or wood foundation walls below the ground surface shall be sealed with an elastomeric sealant that provides an air-tight seal. Penetrations of poured concrete walls should also be sealed on the exterior surface. This includes sealing of wall tie penetrations.
- vi. To resist soil gas entry, the exterior surfaces of portions of poured concrete and masonry block walls below the ground surface shall be constructed in accordance with water proofing procedures.
- vii. A gas tight seal shall be provided where the Impervious Membrane is attached to all interior footings and exterior wall footings.

c. Impervious Membrane Protection Prior to Floor Slab Placement

- i. Installation Sequence for Protection Material Below the Impervious Membrane:
 - Finish the Gravel Blanket smooth using mechanical means (e.g. roller).
 - Place geotextile filter fabric over the Gravel Blanket to protect the smooth finish of the Gravel Blanket and prevent sand migration into the Gravel Blanket.
 - Prepare protective course for Impervious Membrane.
 - Option A: If Sand is used as Gravel Blanket, then the Impervious Membrane may be placed directly on the geotextile, or
 - Option B: If Gravel is used as for the Gravel Blanket, then place a minimum 1-inch thick sand layer directly over the geotextile.
 - Option C: If Gravel is used as for the Gravel Blanket, then place a geotextile with a minimum weight of 16 ounces per square yard.
- ii. Installation Sequence for Protection Material Above the Impervious Membrane:
 - Place 2-inch thick sand directly over the Impervious Membrane, or a minimum 1-inch thick lean concrete mix (slurry).
 - Place geotextile fabric if sand is used in the prior step. If lean concrete mix is used, geotextile is not required.
 - Place concrete, reinforcing steel, piping and other forms so as not to be supported directly on the Impervious Membrane. Equipment shall not be driven over the Impervious Membrane or its protective covering.

B. MISCELLANEOUS SYSTEMS

1. Wiring

The building wiring system shall be in accordance with the NYCDOB Electrical Code, International Building Code, NEC and as required herein, including latest code revisions.

- a. Outdoor Enclosures
 - All outdoor enclosures shall be NEMA rated for each particular situation (wet, submerged or gaseous vapors).
- b. Conduit Seal Fittings and Cable Seal Fittings
 - Conduit Seal Fittings and Cable Seal Fittings are designed to prevent the passage of gases, vapors, or flames inside the electrical conduits.
 - i. Any conduit or cable that penetrates the Impervious Membrane shall be provided with a conduit or cable seal.
 - ii. Conduit Seal Fittings shall be installed in the vertical portion of conduit where the PVC conduit emerges from a sub-slab location. Rigid material shall be rigid metal that has the same trade size as conduit runs.
- c. Grounding Electrical Systems
 - Electrical systems required to be grounded shall be connected to earth using approved methods in accordance with the NYCDOB Electrical Code.

2. Manholes and Other Underground Electric Enclosures Intended for Personnel Entry.

The provisions of this section are applicable to all manholes and other underground electric enclosures that are intended for personnel entry. These enclosures herewith will be referred to as underground electrical enclosures.

a. Vent System

- i. Underground electrical enclosures shall be naturally ventilated at all time to open air in an approved manner to prevent the build-up of potential soil gases.
- ii. Mechanical ventilation in lieu may be used when back-up power sufficient to run the system for 24 hours is provided and a visual and audible main power failure alarm at a readily accessible location.

b. Enclosure Exterior

- i. Approved seals shall be used to prevent water and gases from entering the sides of the underground electrical enclosures.
- ii. Underground electrical enclosures personnel entry access cover shall be provided with an approved restraining system.

c. Enclosure Interior

- i. All wiring terminations, equipment and insulating materials within the enclosure shall be suitable for wet location.
- ii. Approved duct seals shall be used to prevent water from the conduits entering or leaving the manholes and other underground electrical enclosures intended for personnel entry. The seal shall have a depth of not less than the diameter of the conduit.

IV. SYSTEMS MAINTENANCE

A. REPAIRS

All components required to mitigate soil gases shall be repaired or replaced to the manufacturer's original specification.

B. OCCUPANT NOTIFICATION

A permanent notification shall be provided at the building indicating the presence of the Impervious Membrane. This notification shall be at the front entrance, be visible and be legible as approved by the Engineer and NYCDOB. See Detail this sheet.

WARNING

THIS BUILDING IS PROTECTED WITH A SOIL GAS CONTROL BARRIER. ANY PROPOSED PENETRATION OR ALTERATION OF FLOOR SLAB REQUIRES NOTIFICATION OF THE BUILDING OFFICIAL AND INSPECTION BY AN ENGINEER

Notes:

1. This notification is to be permanently stamped or etched in the surface of a permanent slab or other location approved by the Building Inspector at the time of construction.
2. All letters 1/2" (min.) in height.
3. At least one required per individual building unit.

Soil Gas Membrane Notification Placard

FORM 1 - IMPERVIOUS MEMBRANE INSTALLATION CERTIFICATE
*After installation of the Impervious Membrane, a copy of this certificate shall be given to the Building Inspector.

Site Address: _____
 Legal Description: _____
 Section: _____ Block: _____ Lot: _____
 Building Use: _____

Name: _____
 Mailing Address: _____
 Telephone: _____

I hereby certify that I have inspected the installation of the Impervious Membrane system at the above described property. On the basis of these inspections it is my conclusion that the Impervious Membrane system was installed in conformity with the recommendations of the manufacturer and the requirements of this Plan. Where the inspection of all or part of the work above is delegated, full Responsibility shall be assumed by the Certified Installer whose signature is affixed thereon.

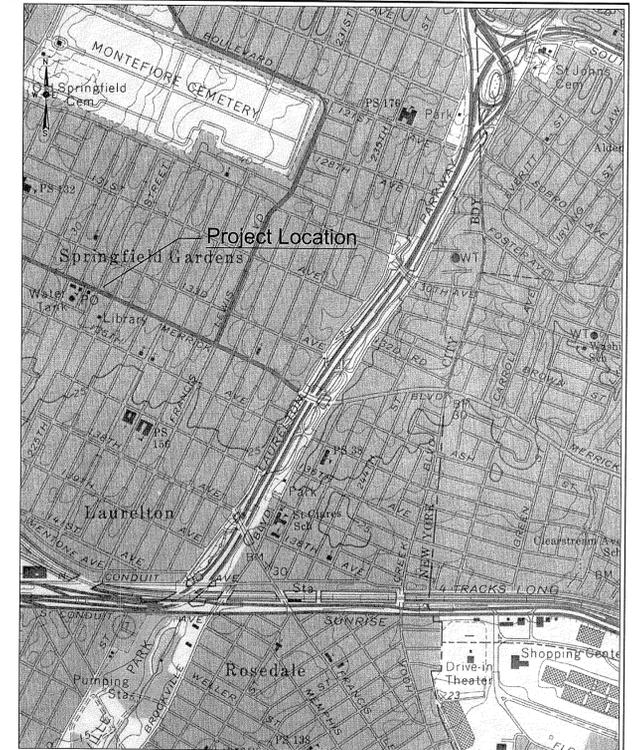
Signed: _____ Date: _____

Table 1 - SPECIFICATIONS FOR GRAVEL

| SIEVE SIZE | PERCENTAGE PASSING SIEVE | |
|-------------------------|--------------------------|-------------|
| | 3/4" Gravel | 3/8" Gravel |
| 1-1/2" (37.5 mm) | 100 | - |
| 1" (25.0 mm) | 90-100 | - |
| 3/4" (19.0 mm) | 55-85 | 100 |
| 3/8" (9.5 mm) | 8-20 | 85-100 |
| No. 4 (4.75 mm) | 0-5 | 0-30 |
| No. 8 (2.36 mm) | 0-5 | 0-10 |
| No. 200 (75um) | 0-2 | 0-2 |
| ASTM C 131 TEST GRADING | B | C |

Table 2 - SPECIFICATIONS FOR SAND

| SIEVE SIZE | PERCENTAGE PASSING SIEVE |
|------------------|--------------------------|
| 3/8" (9.5 mm) | 100 |
| No. 4 (4.75 mm) | 90-100 |
| No. 8 (2.36 mm) | 75-90 |
| No. 16 (1.18 mm) | 55-75 |
| No. 30 (600 um) | 30-50 |
| No. 50 (300 um) | 10-25 |
| No. 100 (150 um) | 2-10 |
| No. 200 (75 um) | 0-5 |



LOCATION MAP
SCALE: 1" = 1200'

224-01 Merrick Blvd
 Queens, NY 11413
 SUB-SLAB DEPRESSURIZATION SYSTEM

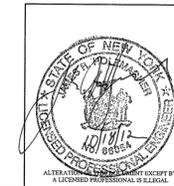
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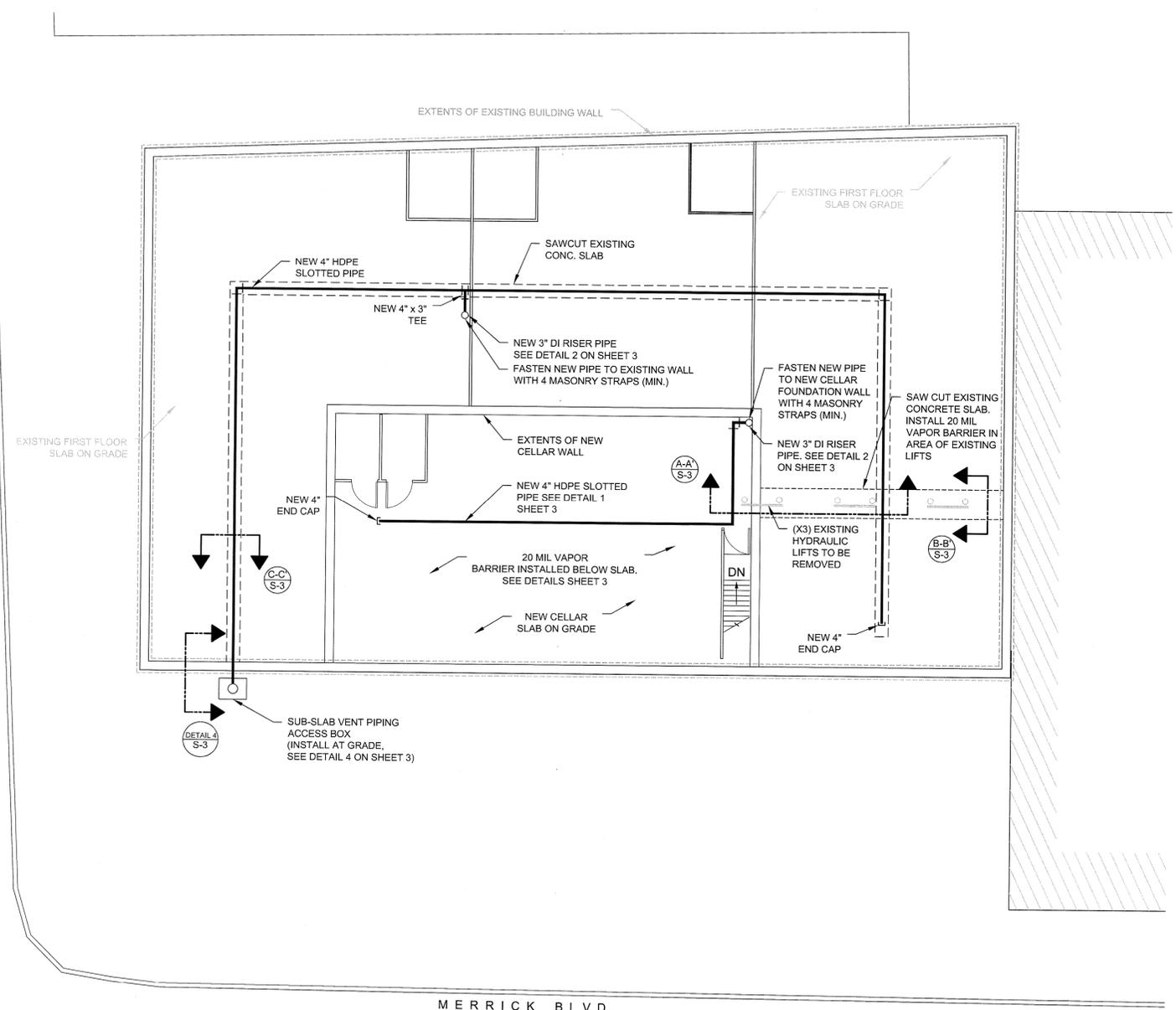
PHONE: (631) 234-2220 FAX: (631) 234-2221 WEB: www.holzmachere.com

| SHEET TITLE: CONSTRUCTION NOTES | | SHEET 1 |
|---------------------------------|--------------------------|---------|
| DESIGNED BY: AJZ | SCALE: As Shown | |
| REVIEWED BY: JRH | DATE: September 28, 2012 | |
| PLAN SHEET BY: DGH | PROJECT NO: KoptD 12-02 | |

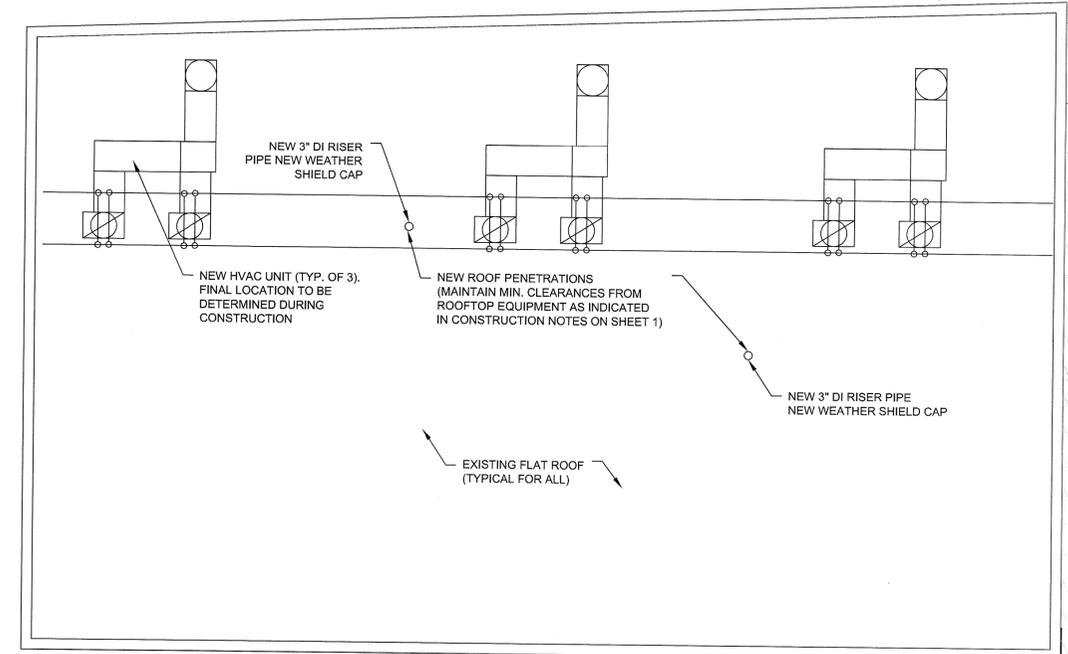




224th STREET



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



ROOF PLAN
SCALE: 1/8" = 1'-0"

Drawing location on the server: P:\2012\Projects\12-02_224th Merrick Blvd\SSDS\CADD\SSD 2 Site Plan.rvt

224-01 Merrick Blvd
Queens, NY 11413
Sub-Slab Depressurization System

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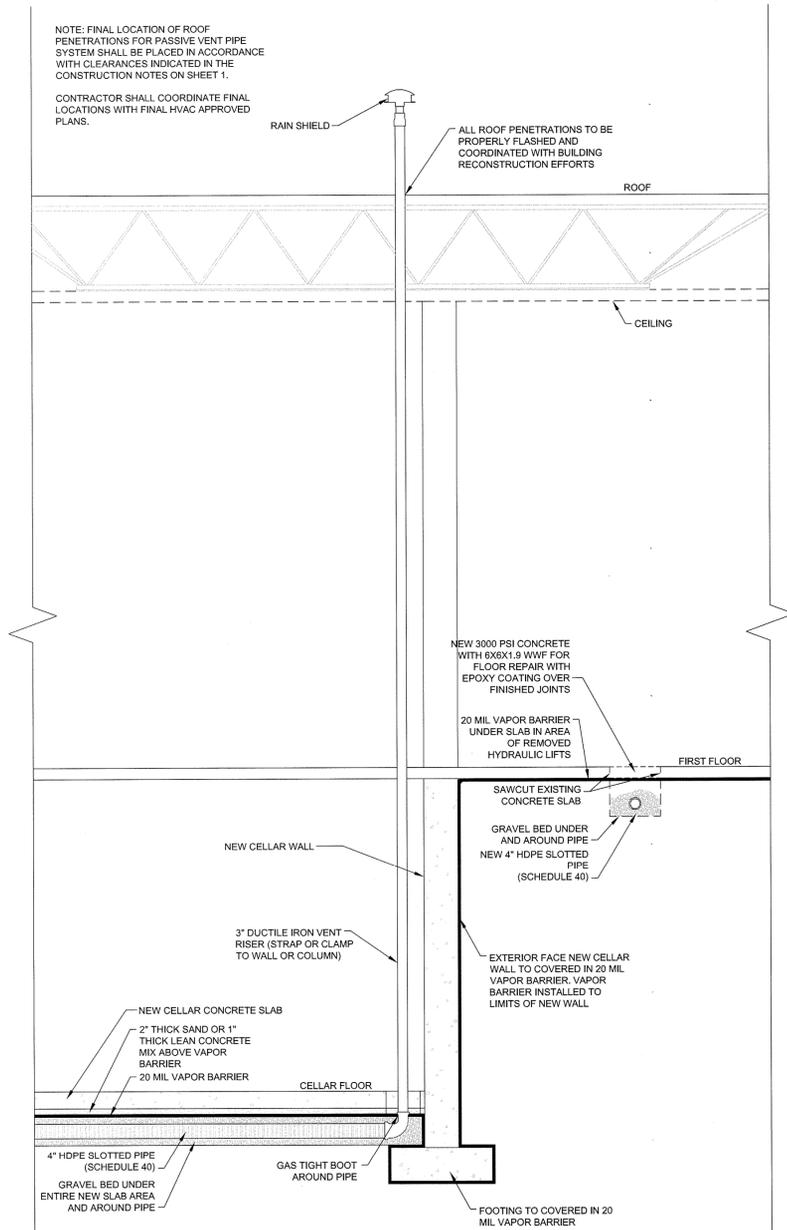
300 Wheeler Road, Suite 402, Hauppauge, NY 11788

PHONE: (631) 234-2220 FAX: (631) 234-2221 WEB: www.holzmachere.com

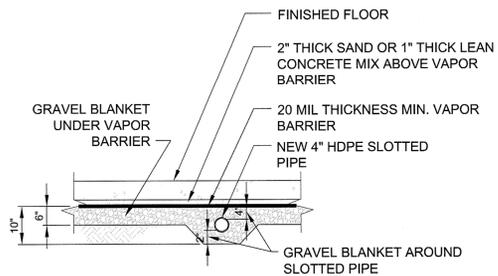


| | |
|--|-------------------------|
| SHEET TITLE: SSDS Layout: First Floor Plan & Roof Plan | |
| DESIGNED BY: AJZ | SCALE: As Shown |
| REVIEWED BY: JRH | DATE: October 25, 2012 |
| PLAN SHEET BY: DGH | PROJECT NO: KoptD 12-02 |

SHEET 2

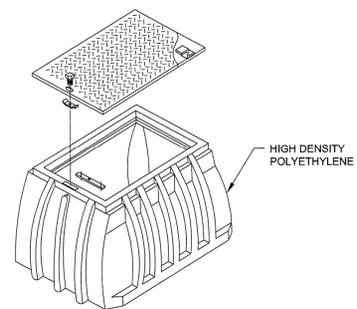


CROSS SECTION A-A'
SCALE: N.T.S.



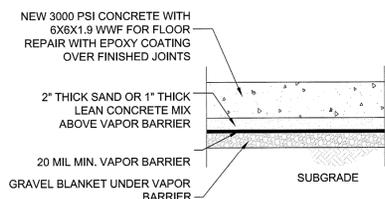
DETAIL 1 - TYPICAL HORIZONTAL PIPE CROSS-SECTION UNDER NEW CELLAR SLAB

SCALE: N.T.S.



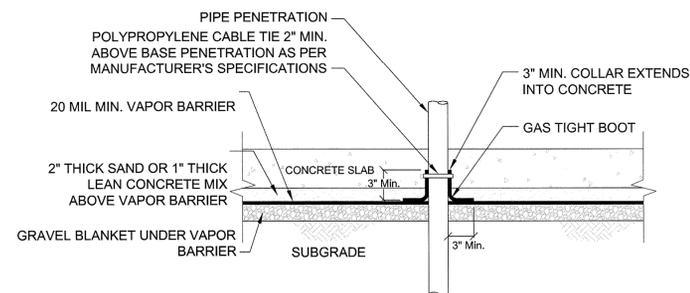
DETAIL 3 - END WALL HDPE ACCESS BOX

SCALE: N.T.S.



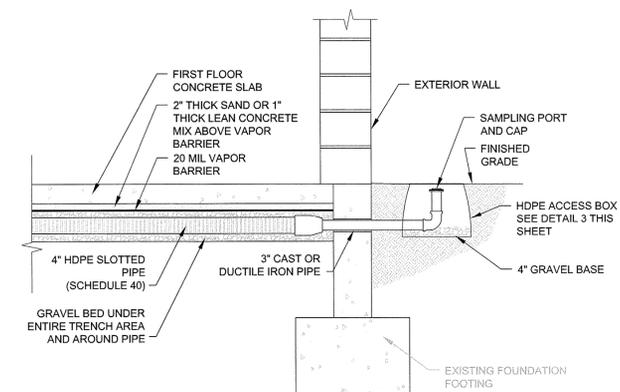
SECTION B-B': SLAB REPLACEMENT AT HYDRAULIC LIFT AREA

SCALE: N.T.S.



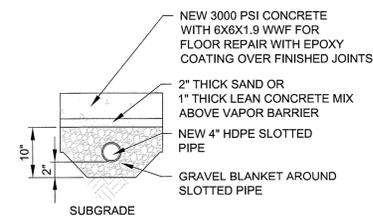
DETAIL 2 - TYPICAL VAPOR BARRIER BOOT

SCALE: N.T.S.



DETAIL 4 - SECTION AT EXTERIOR FOUNDATION WALL

SCALE: N.T.S.



SECTION C-C': 4\"/>

SCALE: N.T.S.

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224-01 Merrick Blvd
Queens, NY 11413
Sub-Slab Depressurization System

J.R. HOLZMACHER P.E., LLC

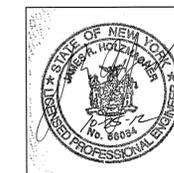
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| | | | |
|----------------|----------------------|--------------|------------------|
| SHEET TITLE: | Construction Details | | |
| DESIGNED BY: | AJZ | SCALE: | As Shown |
| REVIEWED BY: | JRH | DATE: | October 25, 2012 |
| PLAN SHEET BY: | DGH | PROJECT NO.: | KoptD 12-02 |

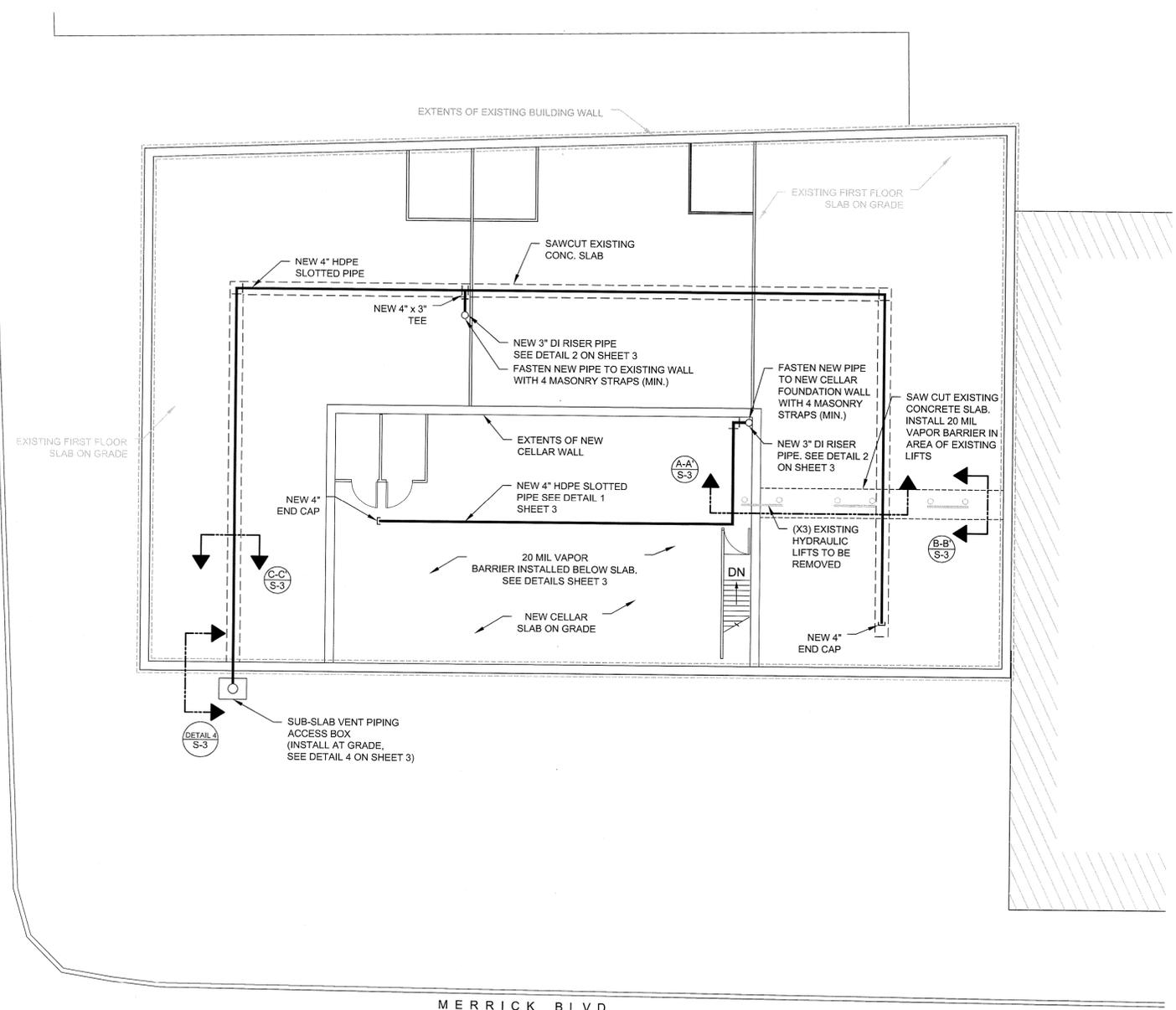
SHEET 3



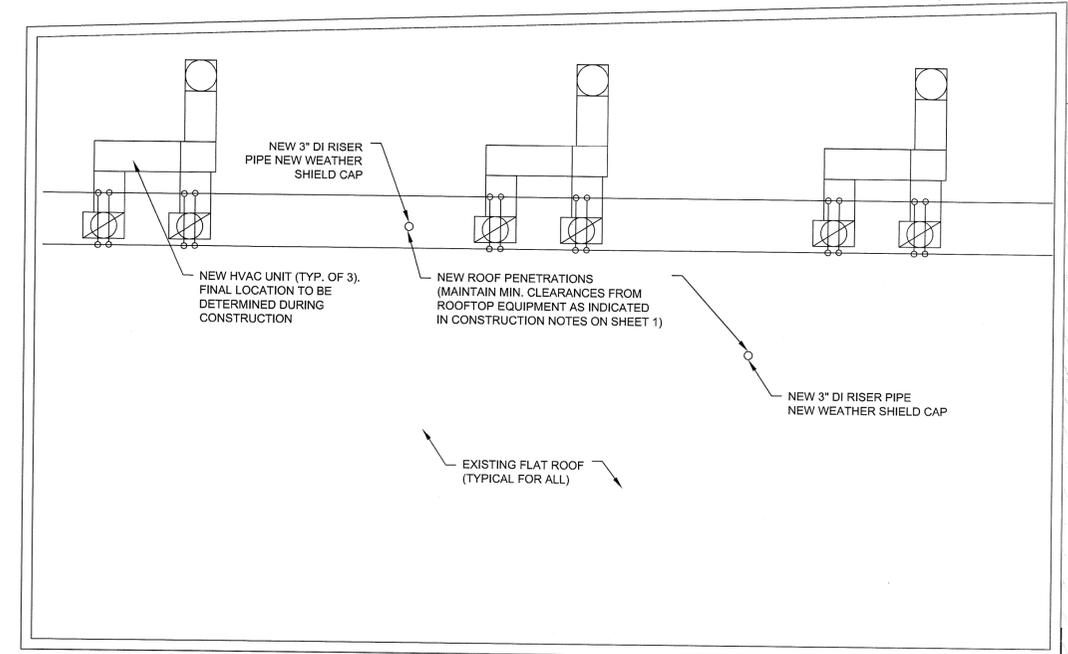
Appendix 6
Vapor Barrier Design and Details



224th STREET



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



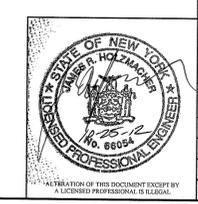
ROOF PLAN
SCALE: 1/8" = 1'-0"

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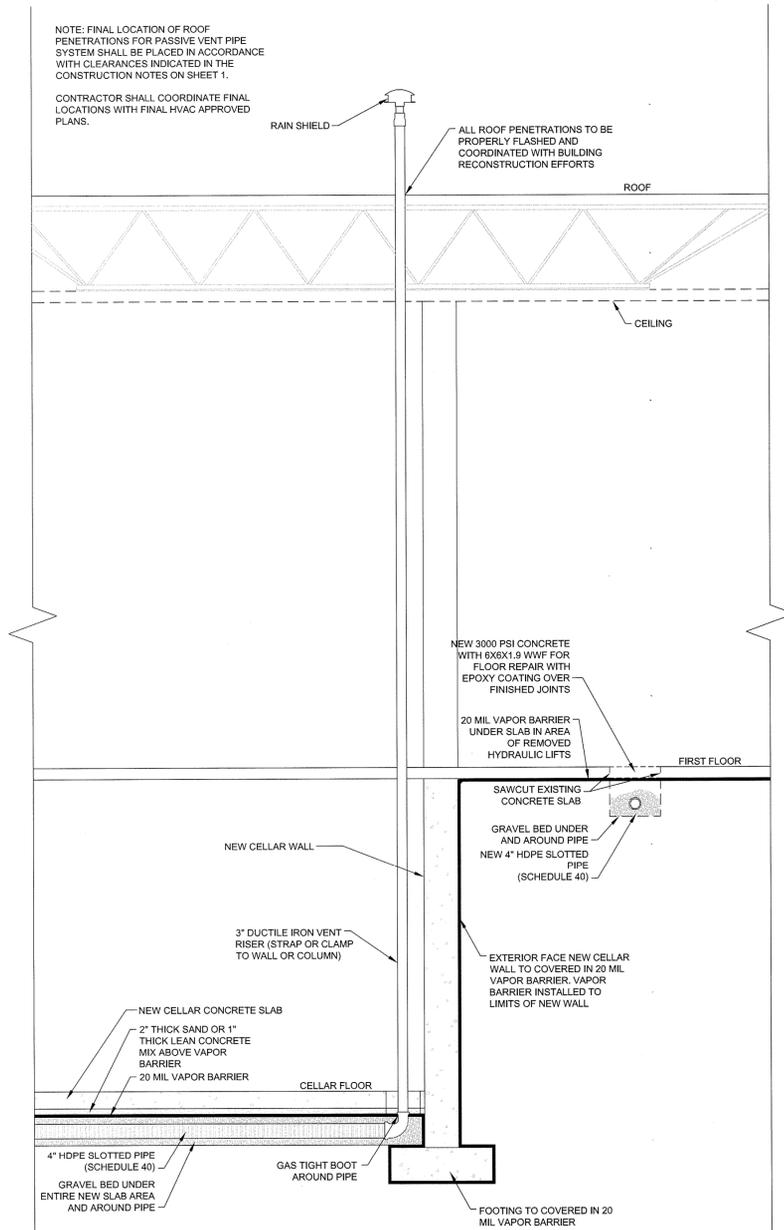
224-01 Merrick Blvd
Queens, NY 11413
Sub-Slab Depressurization System

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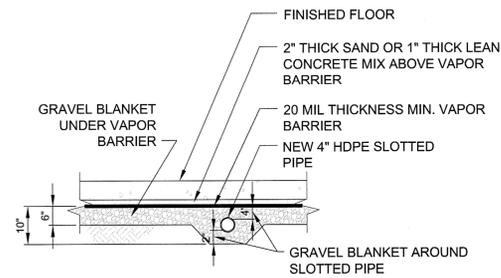
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PHONE: (631) 234-2220 FAX: (631) 234-2221 WEB: www.holzmachere.com



| | | |
|--|-------------------------|---------|
| SHEET TITLE: SSDS Layout: First Floor Plan & Roof Plan | | SHEET 2 |
| DESIGNED BY: AJZ | SCALE: As Shown | |
| REVIEWED BY: JRH | DATE: October 25, 2012 | |
| PLAN SHEET BY: DGH | PROJECT NO: KoptD 12-02 | |

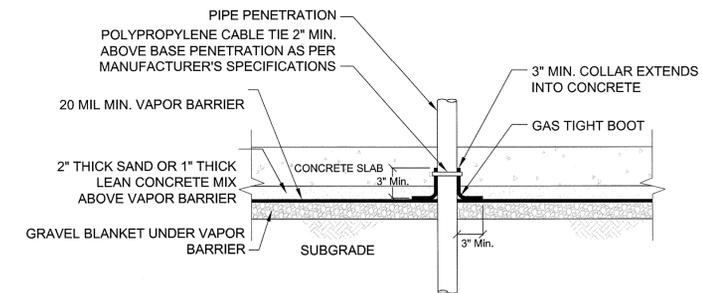


CROSS SECTION A-A'
SCALE: N.T.S.



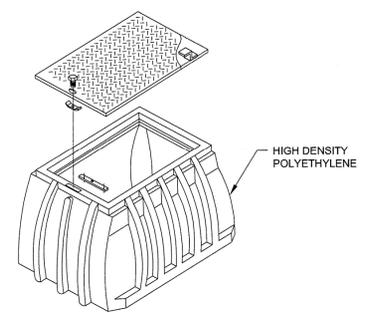
DETAIL 1 - TYPICAL HORIZONTAL PIPE CROSS-SECTION UNDER NEW CELLAR SLAB

SCALE: N.T.S.



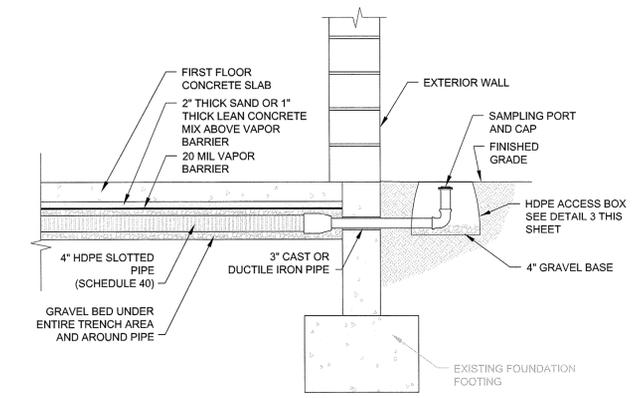
DETAIL 2 - TYPICAL VAPOR BARRIER BOOT

SCALE: N.T.S.



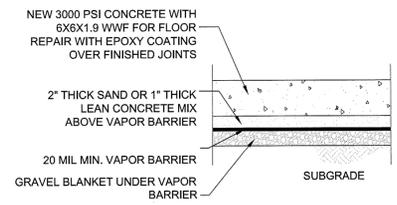
DETAIL 3 - END WALL HDPE ACCESS BOX

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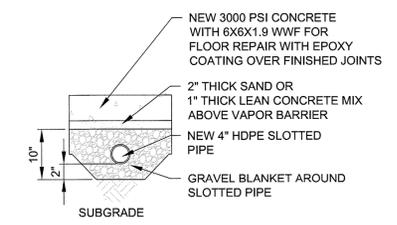
DETAIL 4 - SECTION AT EXTERIOR FOUNDATION WALL

SCALE: N.T.S.



SECTION B-B': SLAB REPLACEMENT AT HYDRAULIC LIFT AREA

SCALE: N.T.S.



SECTION C-C': 4\"/>

SCALE: N.T.S.

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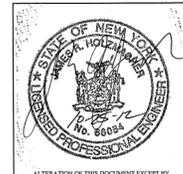
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Sub-Slab Depressurization System

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| | | |
|-----------------------------------|-------------------------|---------|
| SHEET TITLE: Construction Details | | SHEET 3 |
| DESIGNED BY: AJZ | SCALE: As Shown | |
| REVIEWED BY: JRH | DATE: October 25, 2012 | |
| PLAN SHEET BY: DGH | PROJECT NO: KoptD 12-02 | |

Appendix 7
Composite Site Cover Design and Location

ZONING INFORMATION
 BOROUGH QUEENS
 ADDRESS: 224-01 MERRICK BLVD QUEENS NY 11413
 BLOCK: 12963
 LOT: 308
 MAP 19A
 ZONE R5D, C2-3
 COMMUNITY BOARD: 413

EXISTING ONE STORY EXIST USE AUTO REPAIR SHOP, USE GROUP 16
 EXIST OCCUPANCY CLASS D-2
 @ PROPOSED USE: GENERAL RETAIL AND SERVICE
 PROPOSED ZONE USE GROUP: 6C
 PROPOSED BC OCCUPANCY CLASS: M
 CONSTRUCTION CLASS: 1-C
 PROPOSED CONVERT TO RETAIL STORES USE GROUP 6C FROM AUTO REPAIRSHOP USE GROUP 16 ON THE FIRST FLOOR

@ LOT LAND AREA = 10,012 SF SHOW TAX LOT AREA AND SHOW SURVEY 9,998 SF AND
 @ EXIST FIRST FLOOR AREA = 7,573 SF
 @ PROPOSED FIRST FLOR AREA 7,523 SF
 @ MAXIMUM ALLOWABLE FLOOR AREA RATIO -- -- AS PER ZR 33-121 = 2.0
 MAXIMUM ALLOWABLE FLOOR AREA = 9,998 S.F. X 2.0 = 19,996 S.F > 7,573 SF = EXIST FIRST FLOOR AREA -- -- O.K.
 @ EXIST F.A.R. = 7,573 SF / 9,998 S.F. = 0.76 -- -- NO CHANGE
 ALLOWABLE BOTH COMMERCIAL AND COMMUNITY FACILITY F.A.R AS PER ZR 33-121 = MAX 2.0 > 0.76 EXIST -- -- O.K.
 PROPOSED COMMERCIAL FIRST FLOOR AREA = 7,573 SF
 COMMERCIAL F.A.R. = 7,573 SF / 9,998 S.F. = 0.76 < MAX 2.0 -- -- O.K.
 @ EXIST LOT COVERAGE AREA: 7,573 S.F.
 @ EXIST LOT COVERAGE IN PERCENT: 100 (EXIST LOT COVERAGE AREA / LOT AREA) = 100 (7,573 / 9,998) = 100 X 0.76 = 76 -- -- NO CHANGE
 @ REQUIRED PARKING NUMBER OF CAR CALCULATION AS PER Z.R. 36-21 -- -- GENERAL RETAIL OR SERVICE USES -- -- ONE CAR PER 400 SQ. FT. OF FLOOR AREA: 7,573 SQ. FT. (1/400) = 7,573 SQ. FT. / 400 = 918.9 CARS
 @ WAIVER OF REQUIREMENTS FOR SPACES AS PER ZR 36-231 -- -- 25 CARS > 18.9 CARS WAIVER PARKING SPACES -- -- O.K.
 @ REAR YARD: NONE REQUIRED AS PER ZR 33-301 WITHIN 100 FT OF CORNERS -- -- PROPERTY IS WITHIN 100.0' OF THE CORNER -- -- O.K.
 @ REAR YARD: MIN 30'-0" REQUIRED AS 23.0' ABOVE THE CURB LEVEL -- -- AS PER 33-292 YARDS ALONG DISTRICT BOUNDARIES COINCIDENT WITH REAR LOT LINES OF TWO ADJOINING ZONING LOTS -- -- EXIST BUILDING HT 18'-0" < MAX 23.0' -- -- NONE REQUIRED -- -- O.K.
 @ FRONT YARD: NONE REQUIRED
 @ SIDE YARD: NONE REQUIRED AS PER ZR 33-25 -- -- NOT REQUIRED -- -- O.K.
 @ EXIST NB HEIGHT: 18'-0" ONE STORY < MAXIMUM 30'-0" TWO STORY -- -- O.K.

MECHANICAL VENTILATION NOTES

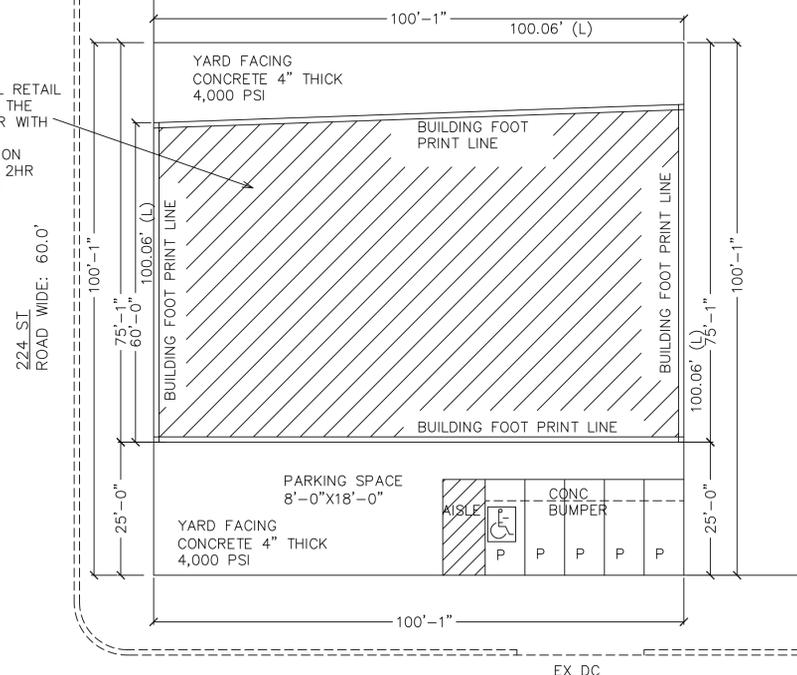
- UPON COMPLETION OF THE VENTILATION SYSTEM, A TEST WILL BE MADE IN THE PRESENCE AND UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, QUALIFIED TO CONDUCT SUCH TESTS, OR OTHER PERSON HAVING NOT LESS THAN 5 YEARS EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS AND QUALIFIED TO CONDUCT SUCH TESTS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATING AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE SYSTEM IS APPROVED. KITCHENETTES TO HAVE ARCH, 12" DROP FROM CEILING.
- THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTS SUCH TEST SHALL FILE A CERTIFICATE AS TO WHETHER TEST SHOWS THAT THE RATE OF AIR SUPPLY AND EXHAUST COMPLIES WITH THE REQUIREMENTS OF THE CODE: PERTAINING TO VENTILATION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE A TEST MADE BY A COMPETENT PARTY AND TO PROVIDE A CERTIFICATE OF FITNESS.
- A STATEMENT SHALL BE FILED BY THE OWNER. THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE LAWS AS FILED BY THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTED THE TEST OF THE SYSTEM AND NOT UNTIL THE STATEMENT OF THE OWNER IS FILED.
- KITCHENETTES TO HAVE #18 GAUGE GALVANIZED METAL VENT DUCTS WITH ANGLE IRON SUPPORTS AND WITH ADJACENT REGISTERS AND FUSE LINK DAMPERS AT EACH KITCHENETTE. ELECTRICAL EXHAUST FAN 1/20 H.P. CAPABLE OF EXHAUSTING SIX (6) CHANGES AIR PER HOUR IN METAL FAN HOUSING AT ROOF DUCTS TO BE 144 SQ. INCH MINIMUM. FAN TO RUN CONTINUOUSLY.
- ALL INTERIOR BATHROOMS TO HAVE A MINIMUM OF 144 SQ. INCH DUCT 24 GAUGE (WITH ANGLE IRON SUPPORT) G.I. METAL 8" MINIMUM WIDTH. FIREPROOF WITH 2 LAYERS OF 1/2" PLASTERBOARD TAPED JOINTS, ADJACENT REGISTERS AND FUSE LINK DAMPERS (APPROVED TYPE) AT EACH BATHROOM. ELECTRIC EXHAUSTING FAN IS METAL FAN HOUSING AT ROOF CAPABLE OF EXHAUSTING FOUR (4) AIR CHANGES PER HOUR. FAN TO RUN CONTINUOUSLY FROM 6:00 A.M. TO 12 MIDNIGHT.
- NO NUISANCE OF NOISE OR VIBRATION WILL BE CREATED BY VENTILATING MOTORS.

BOROUGH QUEENS
 ADDRESS: 224-01 MERRICK BLVD QUEENS NY 11413
 BLOCK: 12963
 LOT: 308
 MAP 19A
 ZONE R5D, C2-3

@ LOT LAND AREA = 10,012 SF
 @ EXIST FIRST FLOOR AREA = 7,573 SF
 @ PROPOSED FIRST FLOR AREA 7,523 SF

SCOPE OF WORK: CONVERT TO RETAIL STORES USE GROUP 6C FROM AUTO REPAIR SHOP USE GROUP 16 ON THE FIRST FLOOR, REPLACE NEW ROOF, CEILING AND INSTALL A PARTIAL PARTIONS AND A PARTIAL PLUMBING FIXTURES

ONE STORY COMMERCIAL RETAIL STORES ON THE FIRST FLOOR WITH CELLAR CONSTRUCTION CLASS 1-C 2HR PROTECTION



PLOT PLAN
 SCALE 1" = 16'-0"

TABLE 601
 FIRE RESISTANCE RATING

| BUILDING ELEMENT | TYPE 1 | | | | | | PROPOSED FIRE RESISTANCE RATING | | | |
|---|---------------|---|--------|---|--------|---|---------------------------------|---|---|-------|
| | TYPE 2 | | TYPE 3 | | TYPE 4 | | TYPE 5 | | | |
| | A | B | A | B | A | B | A | B | | |
| STRUCTURAL FRAME INC COLUMN GIRERS, TRUSSES | 3 | 2 | 1 | 0 | 1 | 0 | HT | 1 | 0 | 3 |
| BEARING WALLS EXTERIOR INTERIOR | 3 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 3 |
| NON BEARING WALLA EXTERIOR | SEE TABLE 602 | | | | | | | | | |
| NONBEARING WALLS AND PARTITIONS INTERIOR | 0 | 0 | 0 | 0 | 0 | 0 | SEE TBL 602 | 0 | 0 | 0 |
| FLOOR CONSTRUCTION INC BEAMS AND JOISTS | 2 | 2 | 1 | 0 | 1 | 0 | HT | 1 | 0 | 2 |
| ROOF CONSTRUCTION INC BEAMS AND JOISTS | 1 1/2 | 1 | 1 | 0 | 1 | 0 | HT | 1 | 0 | 1 1/2 |

TABLE 602
 FIRE RESISTANCE RATING -NON BEARING WALLS EXTERIOR

| FIRE SEPARATION DISTANCE (FT) | TYPE OF CONSTRUCTION | OCCUPANCY GROUP H | OCCUPANCY GROUP F-1, M, S-1 | OCCUPANCY GROUP A, B, E, F-2, I, R, S-2, U | | OCCUPANCY GROUP M |
|-------------------------------|---------------------------|-------------------|-----------------------------|--|---|-------------------|
| | | | | A | B | |
| < 5 | ALL | 3 | 2 | 2 | 2 | 2 |
| ≤ 5 TO < 10 | IA OTHER | 3 | 2 | 1 | 1 | 2 |
| ≤ 10 TO < 30 | IA, IB 2B, 5B OTHER | 2 | 1 | 1 | 0 | 2 |
| ≤ 30 | ALL | 0 | 0 | 0 | 0 | 0 |

TABLE 705.4
 FIRE WALL FIRE RESISTANCE RATING

| GROUP | FIRE RESISTANCE RATING (HR) | PROPOSED FIRE RESISTANCE RATING | |
|------------------------------|-----------------------------|---------------------------------|-----------------------------|
| | | GROUP | FIRE RESISTANCE RATING (HR) |
| A, B, E, H-4, I, R-1, R-2, U | 3 | | |
| F-1, H-3, H-5, M, S-1 | 3 | M | 3 |
| H-1, H-2 | 4 | | |
| F-2, S-2, R-3, R-4 | 2 | | |

GENERAL NOTES

- CONTRACTOR TO CHECK AND VERIFY ALL MEASUREMENTS AND DIMENSIONS AND ACTUAL CONDITIONS AT SITE AND BE HELD RESPONSIBLE FOR SAME CONTRACTOR TO OBTAIN ALL PERMITS AND FEES TO START AND COMPLETE ALTERATION UPON COMPLETION OF JOB CONTRACTOR IS TO SUPPLY OWNER WITH A CERTIFICATE OF OCCUPANCY.
- A STATEMENT SHALL BE FILED BY THE OWNER, THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICATION LAWS AS FILED BY THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTED THE TEST OF THE SYSTEM AND NOT UNTIL THE STATEMENT OF THE OWNER IS FILED.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF TITLE 27 [CHAPTER 26], ARTICLE 16 AND REFERENCE STANDARD RS-16 OF THE NYC BUILDING CODE.
- ALL WATER SUPPLIES SHALL BE OVER THE RIM OR SHALL BE PROVIDED WITH APPROVED VACUUM BREAKER FOR WATER CLOSET FLUSH VALVES, HOSE BIBBS, ETC.
- ALL NOTES, DIMESIONS, DETAILS AND JOB CONDITIONS ARE TO BE CHECKED AND VERIFIED. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTOR AND PRIOR TO START OF WORK AND HE SHALL OBTAIN APPROVAL OF ALL COMPLETED WORK AS REQUIRED BY NEW YORK CITY ADMINISTRATIVE CODE AND ALL REQUIRED AGENCIES.
- EACH CONTRACTOR WILL BE HELD RESPONSIBLE FOR HIS WORK. ALL GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDINGS AND WILL BE RESPONSIBLE FOR THE JOINING OF WORK OF ALL TRADES.
- ALL MATERIALS, ASSEMBLIES AND METHODS OF CONSTRUCTION NOT LISTED AS CONTROLLED INSPECTIONS SHALL BE SUBJECT TO SEMI-CONTROLLED INSPECTION BY THE PERSON SUPERINTENDING THE CONSTRUCTION. SIGNED COPIES OF ALL TEST AND INSPECTION REPORTS SHALL BE FILED THROUGH THE ARCHITECT/ENGINEER WITH THE DEPARTMENT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF ARTICLE 19 "SAFETY OF PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS" AND SHALL BE HELD RESPONSIBLE FOR THE SAFE MAINTENANCE AS PRESCRIBED THEREIN UNTIL COMPLETION OF THE WORK.
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, BARRICADES, TEMPORARY FENCES, PARTITIONS, AND EXCAVATION, ETC. TO ACCOMPLISH ALL OF THE WORK IN AN APPROVED MANNER, AS PER SECTION 27-1052 [c26-1908.2].
- NO DRAWINGS TO BE SCALED, DIMENSIONS ARE TO BE USED.
- THE CONTRACTOR OR PERSON WHO SUPERVISED OR SUPERINTENDED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION WITH BUILDING DEPARTMENT INSPECTOR, SECTION 27-210 [c26-120.6].
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODE.
- ALL ELECTRIC WORK TO COMPLY WITH THE N.Y.C. B.C.
- THE CONTRACTOR SHALL UPON COMPLETION OF THE WORK SEE THAT THE JOB IS BROOM SWEEP.
- THE ARCHITECT/ENGINEER HAS NOT HAS BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION FOR ANY EQUIPMENT.

TABLE 1004.1.2
 MAX FL AREA ALLOWANCES PER OCCUPANT

| USE OF SPACE | FL AREA (SF) |
|--|-----------------|
| MRCANTILE AREA OTER FLOOR BASEMENT AND GRADE FLOOR STORAGE, STOCK, SHIPPING AREA | 60 30 300 |
| BUSINESS | 100 |

TABLE 1018.2
 BUILDINGS WITH ONE EXIT

| OCCUPANCY | MAX HEIGHT ABOVE GRADE PLANE | MAX OCCUPANTS (OR DWELLING UNIT) PER FLOOR AND TRAVEL DISTANCE |
|------------------|------------------------------|--|
| A, B, E, F, M, U | 1 STORY | 50 OCCUPANTS AND 75 FT TRAVEL DISTANCE |
| B, F, M, S | 2 STORY | 30 OCCUPANTS AND 75 FT TRAVEL DISTANCE |

TABLE 1014.1
 SPACES WITH ONE MEANS EGRESS

| OCCUPANTS | MAX OCCUPANTS LOAD |
|---------------|--------------------|
| A, B, E, M, U | 74 |
| F | 50 |

BC 1014.2.1
 TWO EXITS OR EXIT ACCESS DOORWAYS
 - EXIT ACCESS DOORWAYS MIN 1/2 OF THE LENGTH OF MAX DIAGONAL DIMENTION OF THE BUILDING OR AREA TO SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS

TABLE 1005.1
 EGRESS WIDTH PER OCCUPANTS SERVED

| OCCUPANTS | STAIR WAYS INCHES PER OCCUPANTS | OTHER COMPONENTS INCHES PER OCCUPANTS |
|--------------------------------|---------------------------------|---------------------------------------|
| OTHER THAN LIST THOSE BELOW | 0.3 | 0.2 |
| HAZARDOUS H-1, H-2, H-3, & H-4 | 0.4 | 0.2 |

TABLE 1015.1
 EXIT ACCESS TRAVEL DISTANCE

| OCCUPANTS | WITHOUT SPRINKLER SYSTEM (FEET) | WITH SPRINKLER SYSTEM (FEET) |
|-----------------------|---------------------------------|------------------------------|
| E, F-1, I-1 M, R, S-1 | 150 | 200 |
| B | 200 | 300 |

CONTROLLED INSPECTIONS

| Y | N | SPECIAL INSPECTIONS | CODE SECTION |
|---|---|--|--------------------------|
| X | | Flood Zone Compliance | BC 6105 |
| X | | Fire Alarm Test | BC 907, BC 1704.13 |
| X | | Photoluminescent Exit Path Markings | TR7 I BC 1026.11 |
| X | | Emergency Power Systems (Generators) | BC 1704.13, BC 2702 |
| X | | Structural Steel - Welding | BC 1704.3.1 |
| X | | Structural Steel - Erection & Bolting | BC 1704.3.2, BC 1704.3.3 |
| X | | Structural Steel - Formed Steel | BC 1704.3.4 |
| X | | Concrete - Cast-in-place | BC 1704.4 |
| X | | Concrete - Precast | BC 1704.4 |
| X | | Concrete - Prestressed | BC 1704.4 |
| X | | Masonry | BC 1704.5 |
| X | | Wood - off-Site Fabrication of Structural Elements | BC 1704.6 |
| X | | Wood - Installation of High-Load Diaphragms | BC 1704.6.1 |
| X | | Wood - Installation of Metal-Plate-Connected Trusses | BC 1704.6.3 |
| X | | Wood - Installation of Prefabricated I-Joists | BC 1704.6.4 |
| X | | Soils - Site Preparation | BC 1704.7.1 |
| X | | Soils - Fill Placements & In-Place Density | BC 1704.7.2, BC 1074.7.3 |
| X | | Soils - Investigations (Borings/Test Pits) | TR4 I BC 1704.7.4 |
| X | | File Foundations & Drilled Pier Installation | TR5 I BC 1704.7.8 |
| X | | File Foundations | BC 1704.7.9 |
| X | | Underpinning | BC 1704.8.1 |
| X | | Wall Panels, curtain Walls, and Veneers | BC 1704.10 |
| X | | Sprayed Fire-Resistant Materials | BC 1704.11 |
| X | | Exterior Insulation Finish Systems (EIFS) | BC 1704.12 |
| X | | Smoke Control Systems | BC 1704.14 |
| X | | Mechanical Systems | BC 1704.15 |
| X | | Fuel-Oil Storage and Fuel-Oil Piping Systems | BC 1704.17 |
| X | | High-Pressure Steam Piping (Welding) | BC 1704.17 |
| X | | Fuel-Gas Piping (Welding) | BC 1704.18 |
| X | | Structural Safety - Structural Stability | BC 1704.19 |
| X | | Mechanical Demolition | BC 1704.19, BC 3306.6 |
| X | | Excavation - Sheeting Shoring and Bracing | BC 1704.19, BC 3304.4.1 |
| X | | Soil Percolation Test - Drywell | BC 1704.20.1 |
| X | | Soil Percolation Test - Septic | BC 1704.20.1 |
| X | | Site Storm Drainage Disposal and Detention System Installation | BC 1704.20 |
| X | | Septic System Installations | BC 1704.20 |
| X | | Sprinkler Systems | BC 1704.21 |
| X | | Standpipe Systems | BC 1704.22 |
| X | | Heating Systems | BC 1704.23 |
| X | | Chimneys | BC 1704.24 |
| X | | Fire Stops, Draftstop, and firelock Systems | BC 1704.25 |
| X | | Aluminum Welding | BC 1704.26 |
| X | | Seismic Isolation Systems | BC 1707.8 |
| X | | Concrete Test Cylinder | BC 1905.6 |
| X | | Concrete Design Mix | BC 1905.3 |

PROGRESS INSPECTION ITEMS

| | | |
|---|---|--|
| X | Preliminary | 28-116.2.1, BC 109.2 |
| X | Footing and Foundation | BC 109.3.1 |
| X | Lowest floor Elevation (Attach FEMA Form) | BC 109.3.2 |
| X | Frame Inspection | BC 109.3.3 |
| X | Energy Code Compliance Inspection | BC 109.3.5 |
| X | Fire-Resistance Rated Construction | BC 109.3.4 |
| X | Public Assembly Emergency Lighting | BC 116.2.2 |
| X | Final | 28-116.2.4.2 and BC 109.5 and Direction 14 of 1975 |

ENERGY CODE PROGR INSPECTIONS

| Y | N | SPECIAL INSPECTIONS | CODE SECTION |
|---|---|--|---------------|
| X | | Protection of foundation of insulation | (IA1) (IA1) |
| X | | Insulation Placement and R value | (IA2) (IA2) |
| X | | Fenestration thermal Values and Ratings | (IA3) (IA3) |
| X | | Fenestration thermal Values and air Leakage | (IA4) (IA4) |
| X | | Fenestration Areas | (IA5) (IA5) |
| X | | Air Sealing and Insulation - Visual | (IA6) (IA6) |
| X | | Air Sealing and Insulation - Testing | (IA7) |
| X | | Project Factors Test - Drywell | (IA8) |
| X | | Loading Deck Weather Seals | (IA9) |
| X | | Vestibules | (IA9) |
| X | | Fireplaces | (IB1) (IB1) |
| X | | Dampers Intral to Building Envelope | (IB2) (IB2) |
| X | | HVAC and Service Water Heating Equipment | (IB3) (IB3) |
| X | | HVAC and Service Water Heating System Controls | (IB4) (IB4) |
| X | | Duct Plenum and Piping Insulation and Sealing | (IB5) (IB5) |
| X | | Duct Leakage Testing | (IB6) (IB6) |
| X | | Electrical Metering | (IC1) (IC1) |
| X | | Lighting in Dwelling Units | I (IC2) (IC2) |
| X | | Interior Lingting Power | I (IC3) |
| X | | Exterior Lighting Power | (IC4) |
| X | | Lighting Control | (IC5) |
| X | | Exit Signs | (IC6) |
| X | | Tandem Wiring | (IC7) |
| X | | Electrical Motors | (IC8) |
| X | | Maintenance Information | (ID1) (ID1) |
| X | | Permanent Certification | (ID2) (ID2) |

| BLOCK | ZONING DISTRICT | MAP |
|-------|-----------------|-----|
| 12963 | C2-2, R5 | 19A |
| LOT | BOROUGH | |
| 308 | QUEENS | |

PROJECT
 SITE: RETAIL STORES
 224-01 MERRICK BLVD
 QUEENS NY 11419

DRAWING
 PLOT PLAN
 ZONING ANALYSIS

| | |
|----------|------------------------|
| SEAL | DATE 10-01-12 |
| | PROJECT NO.: JB-454-01 |
| | DRAWING BY DC |
| | CHK BY DC |
| | DRAWING NO.: |
| Z-001.00 | |
| 1 OF 9 | |

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 QUEENS NY 11375
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NOTE:
 THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET, ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDENCE WITH APPLICABLE CODES.

APPROVALS

DOB
 JOB NO #