

CONCRETE SIDEWALK

DECATUR STREET

PLOT PLAN

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

GENERAL NOTES:

- 1. IT IS THE INTENTION OF THIS CONTRACT TO CONSTRUCT THE BUILDING(S), FINISHED AND READY FOR OCCUPANCY, IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL NECESSARY REQUIREMENTS OF THE LAW. ALTHOUGH ALL NECESSARY WORK MAY NOT BE ITEMIZED IN THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR WILL FAMILARIZE HIMSELF WITH THE EXISTING CONDITIONS AND INCLUDE ALL WORK SPECIFIED OR IMPLIED FOR THE COMPLETE REPAIR OF THE BUILDING(S).
- 2. CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO START OF WORK.
- 3. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE AND ALL RULES AND REGULATIONS OF THE COUNTY AND STATE.
- 4. THE ENTIRE BUILDING(S) SHALL COMPLY WITH ARTICLE SEVEN (7) OF THE MULTIPLE DWELLING LAW, THE HOUSING MAINTENANCE CODE AND ZONING RESOLUTION.
- 5. CONTRACTOR SHALL OBTAIN BUILDING PERMIT. NO WORK SHALL PROCEED UNLESS BUILDING PERMIT IS DISPLAYED AT THE FRONT OF BUILDING(S)
- 6. CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FROM THE DEPARTMENT OF HIGHWAYS FOR ALL WORK BEYOND THE BUILDING
- 7. CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FROM THE DEPARTMENT OF AIR RESOURSE FOR ANY NEW BOILER. 8. CONTRACTOR SHALL OBTAIN NEW CERTIFICATE OF OCCUPANCY. HE SHALL OBTAIN ALL PERMITS AND FINAL APPROVALS OF ALL
- DEPARTMENTS HAVING JURISDICTION.
- 9. CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION INSURANCE AND DISABILITY BENEFITS.
- 10. CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES. INSPECTIONFEES AND ALL OTHER CHARGES. 11. WHERE EXISTING WORK IS TO BE CUT AND/OR UNDERPINNED, CONTRACTOR SHALL PROVIDE ALL NEEDLING, SHORING BRACING, WEDGING AND DRY-PACKING AND SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING THIS
- 12. THE CONTRACTOR SHALL BE REQUIRED TO PATCH, REPAIR, AND REPLACE ANY AREAS THAT ARE ALTERED OR DAMAGED DURING PROCESS OF ALTERATION.
- 13. THE CONTRACTOR IS CAUTIONED TO MAKE CONTINIOUS OBSERVATIONS OF THE EXISTING STRUCTURE DURING THE PERFORMANCE OF HIS WORK. SHOULD HE BECOME AWARE OF ANY SITUATIONS THAT REQUIRE FURTHER INVESTIGATION OR STUDY, HE SHALL NOTIFY THE ARCHITECT IMMEDIATELY
- 14. THE STRUCTURAL DESIGN IS BASED UPON EXISTING DRAWINGS (IF AVAILABLE), FILED OBSERVATIONS AND/ OR ASSUMPTIONS REGARDING THE EXISTING CONDITIONS AT THE SITE, VARIATIONS BETWEEN THE FIELD CONDITIONS AND THESE DRAWINGS MAY EXIST. WHERE SUCH VARIATIONS ARE ENCOUNTERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT
- 15. THE CONTRACTOR MUST PROTECT ALL BUILDING(S) AND STRUCTURAL ELEMENTS INCLUDING ALL CONCRETE OR MASONRY FIREPROOF ARCHES AGAINST DAMAGE RESULTING FROM FALLING OBJECTS AND STORAGE OF CONSTRUCTION MATERIALS AND OTHER HEAVY LOADS DURING THE ENTIRE COURSE OF DEMOLITION AND CONSTRUCTION

ASPHALT ROOF SHINGLES

ALL SLOPED ROOF SHINGLES SHALL BE CLASS-ASPHALT ROOF SHINGLES OR APPROVED EQUAL. SHINGLE SHALL BE APPLIED OVER 15# ASPHALT FELT WITH GAF WEATHR-WATCH ICE AND WATER BARRIER APPLIED AT AT EAVES, VALLEYS AND FLASHING. ROOFING S TO PROVIDE ALL FLASHING NECESSARY FOR A WATERTIGHT. WEATHER WATERPROOF JOB.ROOF ING IS TO BE APPLIED IN STRICT ACCORDANCE WITH THE MENUFACTURERS SPECIFICATIONS.CONTRACTOR SHALL APPLY SUPPLY COLOR SAMPLE OF THE SHINGLES FOR ARCHITECT'S AND /OR OWNER'S APPROVAL, PRIOR TO INSTALLATION

ASPHALT ROOF SHINGLES

JOISTS RAFTERS AND STUD SHALL BE 75' CONSTRUCTION GRADE DOUGLAS FIR 1350 PSI,25' COMMON DOUGLAS FIR 1200 PSI. ALL WOOD SILLS AND WOOD IN CONTACT WITH MASONRY SHALL BE CCA TREATED ALL EXTERIOR SHEATING SHALL BE 5/8" CDX CDX DOUGLAS FIR PLYWOOD NAILED 6D @ 12" O.C. AT EDGES, 6D @ 8" O.C. AT INTERMIDIATE BLOCKING POINTS. SUB-FLOORS TO BE 3/4" CDX PLYWOOD NAILED 8D @ 6" O.C. EXTERIOR SHEATING TO BE COVERED WITH "TYVEK" HOUSE WRAP OR APPROVED EQUAL. ALL NAILS, BOLTS, RODS, STRAPS, JOIST HANGERS, AND OTHER FRAMING HARDWARE TO BE HOT-DIPPED GALVANIZED. DOUBLE UP JOISTS AROUND ALL OPENINGS AND UNDER PARTITIONS. BLOCK STUD WALLS AT 1/2 STORY HEIGHTS AND AT ALL UNSUPPORTED EDGES OF PLYWOOD. ALL CAP PLATES TO BE DOUBLED AND NAILED 10D @ 18" O.C. NAIL BOTTOM CAP PLATE TO END OF STUDS-2/16D. LAP CAP PLATES AT CORNERS, TOE NAIL JOISTS TO CAP OR BEAM WITH 2/16D. WHERE FLUSH FRAMING OCCURS, USE MIN. 16GA SHEET METAL JOIST HANGERS BY "TECO" OR APPROVED EQUAL. ALL CORNERS TO BE MINIMUM 1/2x4 STUDS NAILED 16D @ 24" O.C. ALONG THREE FACES. HEADERS SHALL BE MINIMUM 2/2x6 UNLESS NOTED ON PLANS MINIMUM BEARING FOR STUDS, JOISTS ANN BEAMS SHALL 3 1/2" USE DOUBLE JACK STUDS FOR HEADERS OVER FIVE FEET IN LENGTH.

SMOKE DETECTOR NOTES:

EACH DWELLING UNIT SHALL BE EQUIPPED WITH:

- 1. AN APPROVED TYPE SMOKE DETECTOR DEVICE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER PER C26-17053.
- 2. SUCH SMOKE DETECTOR MUST BE EITHER THE IONIZATION—CHAMBER TYPE OR THE PHOTOELECTRIC TYPE AS PER C26-1705.4 (SUB.B).
- 3. ALL SMOKE DETECTORS MUST BE INSTALLED WITHIN 15'-0" OF THE ENTRANCE OF ANY SLEEPING ROOM, WALL OR CEILING MOUNTED AND INDICATED ON PLAN AS PER N.F.P.A. 174-1980 AND L.L. 62/81 4. "A" CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DIVISION OF CODE
- ENFORCEMMENT HPD 10 DAYS AFTER INSTALLATION.
- 5. PROVIDE APPROVED CARBON MONOXIDE DETECTOR DIGITAL TYPE TO COMPLY WITH LOCAL LAW 7/04.

CARBON MONOXIDE NOTES:

- 1. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE CARBON MONOXIDE DETECTOR DEVICE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER THAT CURRENT DEVISE PROTECTING THE BRANCH CIRCUIT. AS PER NYC LOCAL LAW 7/2004 AND NYCBC SECTION 28-02.
- 2. ALL CARBON MONOXIDE DETECTORS MUST BE INSTALLED WITHING 15'-0" OF THE ENTRANCE OF ANY SLEEPING ROOM, WALL OR CEILING MOUNTED AS INDICATED ON PLAN, BUT AWAY FROM SOURCES OF HUMIDITY SUCH AS BATHROOMS AND AWAY FROM OTHER FOSSIL BURNING EQUIPMENT, AS PER N.F.P.A. # 720.
- 3. A CERTIFICATE OF SATISFACTORY INSTALLATION OF CARBON MONOXIDE DETECTORS MUST BE FILED WITH THE DICISION OF CODE ENFORCEMENT, H.P.D., (TEN (10) DAYS OAFET INSTALLATION).
- 4. M.E.A. 259-03-E, ADA APPROVED AUDIO & VISUAL UNIT "BRK ELECTRONICS" MODEL NUMBER SC6120B -120V AC/DC. 60HZ WIRED IN WITH 9V BATTERY BACU-UP. (REQURED IN ALL MULTIPLE FAMILY DWELLING). 5. IN ALL OCCUPANCY GROUPS, APPROVED AND OPERATIONAL DEVICES SHALL BE INSTALLED WITHIN SUCH ROOMS OR SPACES WHERE SUCH ROOM OR SPACES CONTAIN ANY FOSSIL FUEL BURING EQUIPMENT, AS PER NYC LOCAL LAW
- 7/2004 AND NYCBC SECTION 28-02. 6. ALL DEVICES SHALL BEA CCEPTED BY THE DEPARTMENT OF BUILDINGS OR BE LISTED BY NATIONALLY ACCEPTED INDEPENDENT LABORATORY AS MEETING NATIONALLY RECOGNIZED STANDARDS AND AS MAINTAINED BY PERIODIC FOLLOW UP SERVICE TO ENSURE CONTINUED COMPLIANCE.

GAS NOTES:

- 1. ALL PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 LBS. CAST IRON SCREWED FITTINGS. 2. PROVIDE SHUT-OFF GAS COCKS IN GAS SERVICE PIPING AT CONNECTIONS TO EXISTING MAIN.
- 3. ALL GAS PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE IN AN APPROVED MANNER. 4. PROVIDE GAS COCK CONNECTION TO GAS TRAIN FOR EACH GAS-FIRED EQUIPMENT ITEM AND ON RISERS AND
- 5. LOCATE GAS COCKS WHERE EASILY ACCESSIBLE, AND WHERE THEY WILL BE PROTECTED FROM POSSIBLE DAMAGE. 6. CONNECT GAS PIPING TO EACH GAS-FIRED EQUIPMENT ITEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 2010 NEW YORK CITY FIRE DEPARTMENT CODE:

FC503.8.2: SPRINKLER REQUIREMENTS FOR BUILDING ON PUBLIC STREETS OF SUBSTANDARD WIDTH. ALTERATIONS TO BUILDINGS ON PUBLIC STREETS LESS THAT 38' IN WIDTH TO BE PROTECTED THROUGHOUT BY A SPRINKLER SYSTEM ONLY WHEN:

- THE COST OF ALTERATIONS TO THE BUILDING (EXCLUDING 1 AND 2 FAMILY DWELLINGS) EXCEEDS BUILDING CODE

-ANY CHANGE IN THE "MAIN USE OR DOMINANT OCCUPANCY" OF THE BUILDING, AS DETERMINED BY DOB (EXCEPT RESTORATION OF A BUILDING TO ORIGINAL 1 OR 2 FAMILY USE.)

-AN INCREASE OF MORE THAN 125% IN THE SQUARE FOOTAGE OF THE FLOOR AREA OF A BUILDING (EXCLUDING ATTIC,

BASEMENT AND CELLAR SPACE). -AN ALTERATION THAT INCREASE THE HEIGHT OF A COMBUSTIBLE (NON-FIREPROOF) BUILDING FROM 35' OR LESS

ABOVE THE GRADE PLANE, TO MORE THAN 35' ABOVE THE GRADE PLANE. GAS PIPING NOTES:

THE NYC FUEL GAS CODE/2008.

- THE GAS SERVICE PRESSURE SHALL BE TESTED AT 3 PSIG FOR THE DISTRIBUTION AT THE BUILDING WALL OF A
- COMMERCIAL USE AS PER SECTION FGC 406.4 OF THE NYC FUEL GAS CODE/2008. MATERIALS USED IN GAS DISTRIBUTION PIPING SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARDS
- LISTED IN CHAPTER 8 OF THE NYC FGC/2008 AND AS PER SECTION FC 403 OF THE NYC FUEL GAS CODE/2008. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION FGC 406.4 OF THE NYC FUEL GAS CODE/2008. GAS SERVICE PIPING AND METERS WILL BE IN COMPLIANCE WITH APPENDIX E: METERS & GAS SERVICE PIPING OF

BUILDING DEPARTMENT NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS BEFORE ANY CONSTRUCTION WORK IS
- 2. AT LEAST 24 HOURSS WRITTEN NOTICE DHALL BE GIVEN TO COMMISSIONER PRIOR TO COMMENCEMENT OF ANY WORK
- SEC. C26-118.5 3. LINTELS SUPPORTING MASONRY WALLS OVER 4'-0" SHALL BE FIRE PROTECTED WITH MATERIALS HAVING THE
- REQUIRED FIRE RESISTIVE RATING OF THE WALL,
- 4. SUSPENDED CEILINGS SHALL HAVE HANGERS AND SUPPORTING GRIDS OF NON-COMBUSTIBLE MATERIALS, SEC
- C26-504.12
- 5. INTERIOR FINISHES TO COMPLY WITH SEC C26-504.10 TABLE 5-4. 6. ALL PARTITIONS ENCLOSED TENANT SPACES AND EXIT CORRIDORS SHALL BE CONSTRUCTED OF 5/8" GYPSUM BOARD FOR CODE "C" TOW LAYERS ON EACH SIDE OF 3 5/8" METAL STUDS. PARTITIONS SEPARATING TENANTS AND PUBLIC
- HALL PARTITIONS SHALL BE CARRIED THRU TO UNDERSIDE OF ROOF ABOVE. 7. WHERE NON-COMBUSTIBLE PIPES AND CONDUITS PASS THROUGH RATED CONSTRUCTION, THE AREA OF SUCH OPENING MAY NOT EXCEED 25 SQ. IN. OF ANY 100 SQ. FT. OF WALL OR FLOOR AREA. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE OR OPENING MAY NOT EXCEED 1/2" AND WILL BE PACKED WITH NON-COMBUSTIBLE MATERIAL SUCH AS MINERAL WOOL SEC 27-343.
- 8. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE, ETC., THAT WOULD PERMIT PASSAGE OF FLAME, SMOKE, FUMES, OR HOT GASES FROM ONE FLOOR TO ANOTHER, OR FROM ONE CONCEALED AREA TO ANOTHER SHALL BE FIRESTOPPED TO FORM AN EFFECTIVE DRAFT BARRIERS OR SHALL BE FILED WITH NON-COMBUSTIBLE MATERIAL SEC. 27-345.
- 9. PLUMBING VENTS SHALL EXTEND ABOVE AS PER SEC. P109.4 (A).
- 10. ALL ELECTRICAL OUTLETS TO MEET ALL REQUIREMENTS OF THE NYC ELECTRICAL CODE.
- 11. THE CONTRACTOR MUST OBTAIN A CERTIFICATE OF OCCUPANCY UPON COMPLETION OF ALL WORK ON THIS PLAN TO COMPLY WITH THE BUILDING CODE SUB ARTICLE 121.0
- 12. CONTROLLED INSPECTION ITEMS: THE FOLLOWING ITEMS OF WORK SHALL BE SUBJECT TO CONTROLLED INSPECTION MADE WITNESSED BY OR UNDER DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER WHO SHALL BE ACCEPTABLE TO THE ARCHITECT.
- A. TEST REPORT AND CERTIFICATE OF INSPECTION SHALL BE FILED WITH THE BUILDING DEPARTMENT B. ALL MATERIALS, ASSEMBLIES AND METHODS OF CONSTRUCTION REGULATED BY THE CODE AND NOT LISTED ABOVE SHALL BE SUBJECT TO SEMI CONTROLLED INSPECTION BY THE PERSON SUPERINTENDING THE CONSTRUCTION.
- C. SIGNED COPIES OF ALL TESTS AND INSPECTION REPORTS SHALL BE FILED THROUGH THE ARCHITECT WITH THE 13. DUCT FIRE RETARDING - DUCTS TO BE FIRE RETARDED AS PER PLAN AND TO BE FIRE STOPPED AT EACH TIER
- WITH 2" MINERAL WOLL. MAINTAIN 1/2" CLEARANCE BETWEEN DUCTS AND SHEETROCK. A. <u>ADMINISTRATION</u>
- 1. ALL MATERIALS, ASSEMBLIES, FORMS, METHODS OF CONSTRUCTION, AND SERVICE EQUIPMENT SHALL MEET THE FOLLOWING REQUIREMENTS: a) IT SHALL HAVE BEEN ACCEPTABLE PRIOR TO THE EFFECTIVE DATE OF THE CODE BY THE BOARD, OR
 - b) SHALL HAVE BEEN ACCEPTED FOR USE UNDER THE PRESCRIBED CODE TEST METHODS BY THE COMMISSIONER, OR
 - c) APPROVED BY THE BOARD OF STANDARDS AND APPEALS, OR BY THE M.E.A. DIVISION OF THE BUILDING
 - d) AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISIONER BEFORE THE COMMENCEMENT OF THE WORK.
- 1. THE FOLLOWING ITEMS OF WORK SHALL BE SUBJECT TO CONTROLLED INSPECTION. MADE AND WITNESSED BY OR UNDER THE DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER WHO SHALL BE ACCEPTABLE TO THE ARCHITECT. TEST REPORT AND CERTIFICATE OF INSPECTION SHALL BE FILED WITH THE BUILDING
- 2. ALL MATERIALS, ASSEMBLIES AND METHODS OF CONSTRUCTION REGULATED BY THE CODE AND NOT LISTED ABOVE 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 WITH THE BUILDING DEPARTMENT.
- C. FIRE PROTECTION CONSTRUCTION REQUIREMENTS 1. ALL MATERIALS OR ASSEMBLIES REQUIRED TO HAVE A FORE RESISTANCE RATING SHALL COMPLY WITH THE FOLLOWING: a) IT SHALL CONFORM WITH THE NFBU "FIRE RESISTANCE RATING", OR
- b) IT SHALL HAVE BEEN TESTED IN ACCORDANCE WITH THE "ASTM E-199 STANDARD METHODS OF FIRE TESTS BUILDING CONSTUCTION MATERIALS" AND ACCEPTED BY THE COMMISSIONER, OR c) IT SHALL HAVE BEEN ACCEPTABLE PRIOR TO EFFECTIVE DATE OF THE CODE.
- 2. OPENING PROTECTIVES INCLUDING FRAMES, SELF-CLOSING DEVICES AND HARDWARE SHALL COMPLY WITH ASTM E-108, "STANDARD METHODS OF FIRE TEST OF DOOR ASSEMBLIE" AND ASTM E-163.
- 3. INTERIOR FINISH: ALL MATERIAL SHALL BE CLASSIFIED IN ACCORDANCE WITH THE SURFACE FLAME-SPREAD RATING OBTAINED AS PRESCRIBED IN ASTM E-84 "STANDARD METHOD OF TEST FOR SURFACE BUILDING CHARACTERISTIC OF BUILDING MATERIALS". INTERIOR FINISH SHALL BE GROUPED INTO CLASSES OF THESE SCHEDULES:

INTERIOR FINISH CLASS / FLAME SPREAD CLASS 26-75

76-225 **OVER 225**

INTERIOR FINISH EXCEPT FINISH FLOORING AND FLOOR COVERING, WALL COVERINGS LESS THANO.036" IN TOTAL THICKNESS, SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THAT LISTED.

EXEMPTION STATEMENT FROM TESTING TR2 and TR3:

B. INSPECTION REQUIREMENTS

BC 1704.4: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR THE FOLLOWING WHEN SPECIFICALLY EXEMPTED ON THE APPROVED CONSTRUCTION DOCUMENTS: 1. CONCRETE PLACEMENT OF LESS THAN 50 CUBIC YARDS PROVIDED THAT THE CONCRETE IS NONSTRUCTURAL AND IS NOT SUBJECT TO THE DURABILITY REQUIREMENTS OF SECTION 1904. IN SUCH CASE, TESTING MAY BE WAIVED BY THE REGISTERED DESIGN PROFESSIONAL WHO PREPARED THE STRUCTURAL CONSTRUCTION DOCUMENTS. BB 2009-026 HAS BEEN PUBLISHED AND ALLOWS EXEMPTION OF THE REQUIREMENT OF A TR2 AND TR3 FOR PROJECTS WITH A TOTAL VOLUME OF STRUCTURAL CONCRETE OF LESS THAN 50 CUBIC YARDS, PROVIDED THE DESIGN STRESS IN THE STRUCTURAL CONCRETE DOES NOT EXCEED 2,500 PSI, AND THE CONCRETE SPECIFIED ON ALL CONSTRUCTION DOCUMENTS AND DELIVERED TO THE SITE HAS A COMPRESSIVE STRENGTH OF 4,000 PSI OR GREATER. 2 NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI (1.03 MPA). 3. CONCRETE FOUNDATION(S) FOR LIGHTWEIGHT FENCES AND RECREATIONAL EQUIPMENT. 4. CONCRETE PATIOS, SITE FURNISHINGS, GARDEN WALLS, DRIVEWAYS, SIDEWALKS, AND SIMILAR CONSTRUCTION. ANY OF THE ABOVE REQUESTED WAIVERS MUST BE STATED ON THE PLANS, AND SIGNED AND SEALED BY THE APPLICANT OF RECORD. FOR APPROVED JOBS. A LETTER

ADDITIONAL EXEMPTION STATEMENT FROM TESTING(TABLE BC 1704.4, ITEMS 4&5 TR2 and TR3):

*THE STRUCTURAL CONCRETE-CAST-IN-PLACE IS LESS THAT 50 CUBIC YARDS.

*THE STRUCTURAL DESIGN OF CONCRETE IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, f'c. NO GREATER THAN 2500 POUNDS PER SQUARE INCH (psi), REGARDLESS OF COMPRESSIVE STRENGTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR USED IN CONSTRUCTION: AND

*THE CONCRETE TO BE PLACE IS SPECIFIED TO HAVE A COMPRESSIVE STRENGTH OF ATLEAST 4,000 psi. **CONCRETE CALCULATION:** FOOTING: 50.75'x1'x3'=152.25 cf / 27 = 5.639 CUBIC YARD

36.25x1'x3'=108.75 cf / 27 = 4.03 CUBIC YARD

FN'D WALL: 50.75'x1'x7' = 355.25 cf / 27 = 13.16 CUBIC YARD 36.25'x1'x6' = 217.5 cf /27 = 8.06 CUBIC YARD

TOTAL CONCRETE: 5.639+4.03+13.16+8.06= 30.889 CUBIC YARD < 50 CUBIC YARD

ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL STATE, LOCAL AND UTILITY COMPANY CODES AND REGULATIONS. ALL CIRCUIT SHALL BE MINIMUM 15 AMP. POWER WIRING SHALL BE MINIMUM14AWG. CONVENIENCE OUTLETS SHALL BE LOCATED 12" ABOVE FINISH FLOOR UNLESS OTHERWISE INDICATED. ALL SWITCH TO BE LOCATED 36" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SUPPLY RECOMENDED LAMPS IN ALL FIXTURES. c. The first value shown represents minimum "R" value of continuous insulated sheathing on the interior or the exterior of the wall, the second value shown represents minimum "R" value of cavity insulation at the interior of the basement wall. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity

insulation at the interior of the basement wall.

NO CONCRETE OR MASONRY WORK SHALL BE DONE DURING TEMPERATURES OF 40 DEGREES F. AND FALLING NO CONCRETE SHALL BE PLACED ON FROZEN SURFACES. NO ADDIVITES SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION OF THE ENGINEER, ALL CONCRETE IS TO BE MIN 2,500 P.S.I AT 28 DAYS(EXCEPT WHERE NOTED OTHERWISE) PROVIDE ALL SLEEVES AND FOUNDATION VENTS AS REQUIRED BY NYS CODE, UNLESS INDICATED OTHERWISE. ALL FOUNDATION FOOTINGS ARE TO BE MIN. 10" DEEP PROJECTING 6" ON EACH SIDE OF THE FOUNDATION WALL PROVIDE TWO #4 DEFORMED BARS CONTINUOUS IN THE FOOTING AND A CONTINUOUS 2x4 KEY BETWEEN THE FOOTING AND FOUNDATION WALL ALL 4" THICK CONCRETE SLAB TO HAVE 6x6 W1.6xW1.6 WWF REINFORCING. ANCHOR BOLTS IN CONCRETE SHALL BE HOOKED 1/2"x12" @ MAX. 6' O.C. PROVIDE BITUMEN EXPANSION JOINTS BETWEEN SLABS AND FOUNDATIONS WALLS.

135 DECATUR STREET BROOKLYN NY.

PROPERTY ZONING INFORMATION

OWNER: AVRAHAM RODIN	
BLOCK: 1856	LOT No.: 48
MAP No.: 17A	DISTRICT: R6B
C.B. No.: 303	BIN No.: 3053592
LOT AREA: 2,000 SF	USE GROUP: J-2
CONSTR. CLASS: IIB	OCCUPANCY GROUP: RES.

ZONING MAP: 17A



135 DECATUR STREET BROOKLYN NY

JS CONSULTING ENGINEER

52 SAINT MARKS AVENUE, TOP FLOOR BROOKLYN NY 11217. PHONE: 212-363-0505, FAX: 347-799-2948

ENERGY CODE COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE 2014. CHAPTER C4.

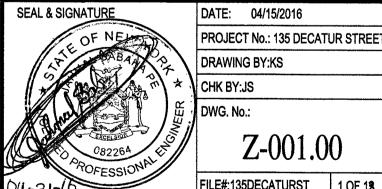
THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS. TECHNIQUES, SEQUENCE, OR PROCEDURES OR FOR

SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSON 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.

PROPOSE DEMOLITION OF NON-LOAD BEARING PARTITIONS AS PER PLANS. RE-LAMINATION OF EXISTING PARTITIONS, ERECT NON-LOAD BEARING PARTITIONS, NEW CABINETRY, WOOD FLOORING WITH FINISHES. PROPOSE PLUMBING FIXTURES AS PER PLANS. NO WORK PROPOSED TO EXISTING FRONT FACADE. NO CHANGE TO USE BULK OR EGRESS.

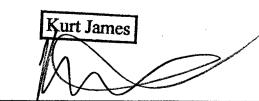
INCL: PLOT PLAN, ZONING ANALYSIS, KEY DIAGRAM. **ZONING MAP & LEGAL WINDOW DIAGRAM**



DWG. No.:

FILE#:135DECATURST 1 OF 13 DOB APPROVAL

KAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DIR. 2/75 MAY 2 4 2016



DEPT. OF BUILDINGS



CONSTRUCTION WORK WILL BE CONFINED TO AREA OF WORK, AND WILL NOT CREATE DUST. DIRT. OR OTHER SUCH INCONVENIENCES TO ANY AND ALL COMMERCIAL UNITS WITHIN THE BUILDING.

2. CONSTRUCTION OPERATION WILL NOT BLOCK HALLWAYS OR OTHER MEANS OF EGRESS FOR TENANTS OF THE

3. CONSTRUCTION OPERATIONS WILL INVOLVE MINIMAL INTERRUPTION OF AIR CONDITIONING, HEATING, WATER, OR ELECTRICAL SERVICES TO OTHER TENANTS OF THE BUILDING.

4. CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS: 8 AM TO 5 PM, MONDAYS THROUGH FRIDAYS, EXCEPT FOR LEGAL HOLIDAYS, UNLESS WEEKEND OR EVENING WORK PERMITS ARE ISSUED.

THE GC SHALL FURNISH ALL PERMITS, MATERIALS, LABOR & SERVICES, INCLUDING HAULAGE COSTS FOR THE DEMOLITION OF THE EXISTING INTERIOR CONSTRUCTION IN ALL TENANT SPACES LOCATED IN THE BUILDING. THE SCOPE OF THIS WORK IS AS DELINEATED ON THE CONSTRUCTION PLAN, DWG'S #A-001, #A-003, & A-004 ALONG WITH THESE NOTES. PROTECTION SHALL BE PROVIDED FOR ALL EXISTING MECHANICAL & ELECTRICAL SYSTEMS, CEILING SUPERSTRUCTURE, AND LIGHTING FIXTURES NOTE TO BE REMOVED DURING DEMOLITION. ALL EXISTING FLOOR COVERINGS. WHICH ARE TO REMAIN. SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION/ DEMOLITION. THIS APPLIES TO ALL WALL FINISHES AS WELL.

PRIOR TO START OF DEMOLITION, THE GC SHALL FULLY INSPECT THE PREMISES TO FAMILARIZE HIMSELF AND HIS SUBCONTRACTORS WITH THE EXISTING CONDITIONS, NO DEMOLITION SHALL COMMENCE PRIOR TO THE ISSUANCE OF THE BUILDING DEPARTMENT PERMIT AND THE WRITTEN CONSENT OF THE BUILDING MANAGEMENT. THE BUILDING MANAGEMENT MUST BE IN RECEIPT OF THE CURRENT CERTIFICATE OF INSURANCE REGARDING LIABILITY COVERING THE GC AND HIS SUBCONTRACTORS IN THE PERFORMANCE OF SAID WORK. IN ADDITION, THE BUILDING MANAGEMENT IS TO BE LISTED AS CO-INSURED ON THIS POLICY. THE GC SHALL MAKE EVERY EFFORT TO COORDINATE ALL DEMOLITION/CONSTRUCTION WORK WITH THE BUILDING REPRESENTATIVE. THIS COORDINATION SHALL ADDRESS THE SCHEDULING OF HEAVY/ NOISY DEMOLITION/ CONSTRUCTION, REMOVAL OF DEBRIS AND THE USE OF THE CORRIDORS.

GENERAL CONTRACTOR SHALL NOTIFY THE BUILDING MANAGER/AGENT AT LEAST THREE (3) BUSINESS DAYS BEFORE THE DISRUPTION OF ANY SERVICE RELATED TO THE BUILDING'S HEAT, ELECTRIC, INTERCOM, TELEPHONE, WATER OR OTHER BUILDING SERVICES IN ADVANCE OF SAID DISRUPTION OF SERVICE.

NEIGHBORS ARE TO BE NOTIFIED IN WRITING AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF WORK. SAID NEIGHBORS SHALL BE THOSE ADJACENT TO THIS APARTMENT, ABOVE, BELOW AND AT THE SIDES, AND SAID NOTIFICATION SHALL INCLUDE THOSE PERIODS OF TIME IN WHICH EXCESSIVE NOISE IS ANTICIPATED FOR AN EXTENDED PERIOD OF TIME.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR THE USE OF HOISTING FACILITIES FOR HANDLING MATERIALS OR EQUIPMENT.

PRIOR TO COMMENCEMENT OF DEMOLITION/CONSTRUCTION, GC SHALL CONSULT WITH THE BUILDING MANAGER REGARDING PROTECTION MEASURES TO BE TAKEN. ALL CORRIDORS, DOORS, AND WALLS, NOT SLATED FOR DEMOLITION, SHALL BE FULLY PROTECTED THROUGH WHICH CONSTRUCTION PERSONNEL, EQUIPMENT AND DEBRIS WILL PASS.

PRECAUTIONS SHALL BE TAKEN TO RESTRICT ACCESS TO DANGEROUS AREAS BY OUTSIDE PERSONNEL. TO THIS END, BARRIERS AND SIGNS SHALL BE ERECTED THROUGHOUT THE AREA DURING THE COURSE OF DEMOLITION/ CONSTRUCTION.

ALL DEMOLITION/CONSTRUCTION WHICH CAN BE EXPECTED OR IS FOUND TO BE DISRUPTIVE TO THE ACTIVITIES OF THE TENANTS IN THE BUILDING SHALL BE PERFORMED TO COINCIDE WITH WHEN TENANTS ARE NOT IN THE BUILDING.

THE ELEVATOR IS TO BE FULLY PROTECTED WHILE MATERIALS ARE BEING TRANSPORTED THEREIN. ALL PUBLIC HALLWAY CARPETS FROM THE ELEVATOR TO AND 10 FEET BEYOND THE APARTMENT ENTRANCE DOOR MUST BE COVERED WITH AN UNDERLAYMENT OF BUILDING CONSTRUCTION PAPER OR PLASTIC SHEETING AND THEN WITH CLEAN MASONITE BOARD OR OTHER SUITABLE MATERIAL OF SUFFICIENT STRENGTH TO PROTECT CARPET.

FLOOR COVERING TO BE REMOVED BY THE GENERAL CONTRACTOR ON A DAILY BASIS, UPON THE END OF EACH WORK DAY, IF IT IS DETERMINED BY THE BUILDING MANAGEMENT THAT THE CARPET IS REQUIRED TO BE PROFESSIONALLY CLEANED, COST OF SAID CLEANING SHALL BE PASSED ON TO THE GC.

EACH INDIVIDUAL APARTMENT SHALL NOT BE OCCUPIED DURING THE COURSE OF DEMOLITION/CONSTRUCTION PERTAINING TO THAT APARTMENT.

THE GC SHALL ACT TO AVOID THE ACCUMULATION OF DEBRIS IN THE DEMISED PREMISES, THE BUILDING CORRIDORS, AND/OR REAR YARD. AT THE END OF EACH WORK DAY, THE DEMISED PREMISES, AS WELL AS ANY ADJACENT AFFECTED BUILDING SPACES, SHALL BE LEFT IN A DUST FREE, CLEAN CONDITION.

SOUND DEMOLITION PRACTICE SHALL GOVERN ALL WORK IN THIS CONTRACT CONCERNING THE AVOIDANCE OF ANY DAMAGE TO THE BUILDING OR ADJACENT TENANT SPACES AND/OR THE DISRUPTION OF SERVICES.

THE GC SHALL REPAIR IMMEDIATELY ANY DAMAGE DONE TO THE BUILDING DUE TO DEMOLITION/CONSTRUCTION TO AVOID DISRUPTION OF BUSINESS AND/OR FURTHER DETERIORATION. DAMAGE TO THE BUILDING WILL BE CONSIDERED FULLY REPAIRED ONLY AFTER AN APPROVAL BY THE BUILDING MANAGEMENT IS OBTAINED. ANY DAMAGE OCCURING TO THE CONCRETE SLAB SHALL BE REPAIRED TO DUPLICATE THE ORIGINAL CONSTRUCTION (APPLIES TO DAMAGE DONE TO WOOD FLOORS AS WELL).

GC SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL(S)/RUBBISH. EACH DAY TRASH AND DEBRIS REMOVALS SHALL BE MADE. AT COMPLETION OF THE PROJECT, THE GC SHALL REMOVE FROM THE PREMISES ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS, PREMISES SHALL BE LEFT BROOM SWEPT CLEAN UNLESS OTHERWISE NOTED.

GC SHALL BE COMPLETELY RESPONSIBLE FOR THE REMOVAL FROM THE JOBSITE OF ALL VARIOUS VENDOR DEBRIS (CONSTRUCTION MATERIALS/WASTE/WRAPPINGS/PACKAGING, ETC.). DURING ENTIRE COURSE OF THE PROJECT, WITH PARTICULAR ATTENTION TO SAME DURING LAST WEEK(S) OF THE JOB, DURING FURNITURE/EQUIPMENT INSTALLATIONS AND IMMEDIATELY PRIOR TO MOVE-IN. (THIS SHALL INCLUDE REMOVALS OF PACKAGING FROM TELEPHONE/COMMUNICATION VENDORS.)

GC SHALL MAKE AVAILABLE SAME SERVICE SUBSEQUENT TO MOVE-IN AND TO COORDINATE EXPECTED REMOVALS AS JOB APPROACHES MOVE-IN.

GC SHALL BE RESPONSIBLE FOR FINAL CONSTRUCTION CLEAN-UP. CLEANING OF ALL INTERIOR GLASS SURFACES AND SHALL PROVIDE NAME OF AVAILABLE OFFICE CLEAN-UP SERVICE(S) WHICH MAY BE CALLED UPON, ON SHORT NOTICE, FOR LAST MINUTE CLEAN-UP AT ODD HOURS (EVENINGS, WEEKENDS, ETC.). ARRANGEMENTS SHALL BE MADE TO HAVE EXTERNAL WINDOW SURFACES CLEANED WITHIN TWO (2) WEEKS OF MOVE-IN/OCCUPANCY, GC SHALL COORDINATE ALL WITH BUILDING REPRESENTATIVE AND ARCHITECT.

THE GC WILL BE CAUSING AN INTERRUPTION IN THE OF SERVICE BOTH HOT AND COLD WATER, BUT SHALL NOT INTERRUPT ELECTRIC. & MECHANICAL VENTILATION. IF SERVICE IS TO BE INTERRUPTED FOR ANY REASON, THE BUILDING MANAGER IS TO BE GIVEN 72 HOUR NOTICE SO THAT TENANTS CAN BE NOTIFIED.

NO WORK SHALL BE DONE, EXCEPT BETWEEN THE HOURS OF 9:00 AM AND 5:00 PM, SATURDAYS AND SUNDAYS, AND HOLIDAYS EXCLUDED. AND ANY WORK WHICH CAN PRODUCE UNUSUAL NOISE, WHICH MIGHT BE DISTURBING TO BUILDING OCCUPANTS, SHALL NOT BE DONE BEFORE 10:00 AM.

WINDOW NOTES

(1) ZR 28-22 ALL WINDOWS IN THE #RESIDENTIAL #PORTION OF A #DEVELOPMENT# OR #ENLARGEMENT# SHALL BE DOUBLE GLAZED.

(2) INSTALL WINDOW GUARDS ON ALL WINDOWS AS PER MULTIPLE DWELLING LAW.

MULTIPLE DWELLING NOTES:

THE BUILDING SHALL CONFORM TO THE ARTICLES OF THE NYS MULTIPLE DWELLING LAW, THE NYC BUILDING CODE, AND THE NYC HOUSING MAINTENANCE CODE.

OCCUPANCY OF THE BUILDING SHALL COMPLY WITH SECTIONS 27-2074, 27-2075, 27-2076, AND 27-2077 OF THE NYC HOUSING MAINTENANCE CODE.

THE OWNER SHALL FILE THE REGISTRATION STATEMENT AS PER SECTIONS 27-2097, 27-2098, 27-2099, 27-2100, 27-2101, 27-2104, AND 27-2105 OF THE NYC HOUSING MAINTENANCE CODE.

THE OWNER SHALL COMPLY WITH SECTION 27-2022 HMC WITH RESPECT TO COLLECTION OF WASTE MATTER.

THE PREMISES SHALL COMPLY WITH SECTIONS 27-2028, 27-2029, AND 27-2031 OF THE HMC WITH RESPECT TO HEATING AND HOT WATER.

FLOOR SIGNS DESIGNATING FLOORS SHALL BE PROVIDED AT EACH FLOOR AS PER LOCAL LAW 84 OF 1955 AND SECTION 27-2048 OF THE HMC.

THE BUILDING IS TO HAVE GOVERNMENT APPROVED TYPE MAILBOXES AND BELLS AS PER SECTION 57 OF THE MDL.

HOUSE NUMBER SHALL BE DISPLAYED AS PER SECTION 27-2049 OF THE HMC.

THE PREMISES SHALL COMPLY WITH SECTIONS 37 AND 64 OF THE MDL WITH REFERENCE TO ARTIFICIAL LIGHTING, GAS METERS AND APPLIANCES.

PLUMBING AND DRAINAGE SHALL COMPLY WITH SECTION 77 OF THE MDL.

THE CEILINGS OF KITCHENETTES AND BATHROOMS SHALL BE FURRED DOWN AS REQUIRED. KITCHENETTE ARCHWAY SHALL BE FURRED DOWN TO A MINIMUM OF 1'-0" FROM CEILING (MINIMUM OPENING HEIGHT NOT TO BE LESS THAN 6'-8" ABOVE FINISHED FLOOR.) KITCHEN COMPLIES WITH SECTIONS 33 AND 176 OF THE

ALL BATHROOMS SHALL BE PROVIDED WITH METAL MEDICINE CABINETS. EACH BATHROOM AND POWDER ROOM SHALL BE PROVIDED WITH TILE FLOORING AND BASE COVE, WITH WALL TILING EXTENDING FULL HEIGHT OF WALL SURROUNDING BATHTUB/SHOWER.

THE BUILDING COMPLIES WITH SECTION 65 OF THE MDL IN REGARDS TO THE LOCATION AND ENCLOSURE OF THE BOILER ROOM. THE BUILDING IS THREE STORIES, AND THE SECTION APPLIES TO THOSE BUILDINGS THAT ARE 4 STORIES OR GREATER.

THE OWNER SHALL INSTALL AND MAINTAIN AT LEAST TWO WALL MOUNTED LIGHT FIXTURES ON THE EXTERIOR OF THE BUILDING. THE LIGHTS SHALL BE PROTECTED BY EITHER A METAL GUARD OR A SHATTERPROOF GLOBE. LIGHTS TO USE AT LEAST A 60 WATT LAMP (OR 60 WATT FLUORESCENT COMPACT LAMP) AND SHALL BE PLACED ON EACH SIDE OF THE FRONT ENTRANCE AT A HEIGHT OF BETWEEN 8'-0" AND 10'-0" ABOVE THE ADJACENT FLOOR LEVEL OF SAID ENTRANCE. AS PER SECTION 27-2040 OF THE HMC.

EXTERIOR LIGHTS, USING AT LEAST 40 WATT LAMPS (OR 40 WATT FLUORESCENT COMPACT LAMP), SHALL BE LOCATED AT A HEIGHT OF BETWEEN 8'-0" AND 10'-0" ABOVE GROUND LEVEL AND SHALL BE LOCATED TO ADEQUATELY LIGHT ALL PORTIONS OF THE REAR YARD AS PER SECTION 26.7-A OF THE MDL AND SECTION 27-2040 OF THE HMC. IN ADDITION, EXTERIOR LIGHTS SHALL BE INSTALLED AT THE UPPER CORNERS OF THE BUILDING, DIRECTED AT THE FIRE ESCAPE (USE HALEGON TYPE FIXTURES WITH A MINIMUM OF 100 WATTS PER LAMP).

THE OWNER SHALL PROVIDE ILLUMINATION FOR THE VESTIBULE, ENTANCE HALL, PUBLIC HALLWAYS, AND EACH LEVEL OF THE STAIR AS PER SECTION 37.1 OF THE MDL. ALL LIGHTING SHALL BE TIED INTO AN EMERGENCY BACK-UP SYSTEM, WHICH SHALL CONTAIN A SEPARATE POWER SOURCE.

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF AND SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF WATER SUPPLY AND SEWERS (DEP), NYC PLUMBING/GAS INSPECTORS AND NYC ELECTRICAL BUREAU, AND CON EDISON (AND BROOKLYN UNION GAS).

GAS RANGES SHALL BE RESIDENTIAL TYPE, COMBINATION 4 BURNER COOKTOP AND SINGLE OVEN (WITH MIRCOWAVE OPTION), WITH VENTED EXHAUST HOOD, APPROVED BY BOTH THE AMERICAN GAS ASSOCIATION AND THE UNDERWRITERS LABORATORIES, WITH NYC ISSUED MEA NUMBER.

THE OWNER SHALL PROVIDE ADEQUATE JANITORIAL/SUPERINTENDENT SERVICES AS PER SECTIONS 27-2052. 27-2053, 27-2054, AND 27-2055 OF THE HMC.

THE OWNER SHALL PROVIDE AND MAINTAIN A PEEPHOLE IN THE ENTRANCE DOOR OF EACH DWELLING UNIT WHICH SHALL PROVIDE A MINIMUM VIEWING RANGE OF 180° AS PER SECTION 27-2041 OF THE HMC.

THE SKYLIGHT OVER THE PUBLIC HALL AT THE TOP STORY SHALL HAVE AT LEAST 20 SQ. FT. OF GLAZED AREA (PLAIN. DOUBLE PANE GLASS) AND MINIMUM 40 SQ. IN. RIDGE VENT, WITH SUITABLE WIRE SCREENS ABOVE AND BELOW (GLAZING MAY BE WIRE GLASS TYPE) AS PER MDL SECTION 178.

FLOORS BELOW RANGES IN THE KITCHENS/KITCHENETTES SHALL BE FIRE RETARDENT AS PER SECTION 33 OF THE MDL. ALL COMBUSTIBLE MATERIALS IMMEDIATELY UNDERNEATH AND WITHIN 1'-0" OF RANGES SHALL BE FIRE RETARDENT OR COVERED WITH FIRE RATED PLYWOOD SHEATHING AT LEAST 1/2" THICK AND 26 GA. GALVINIZED SHEET METAL SHEETING. THERE SHALL ALWAYS BE AT LEAST 2'-0" OF CLEAR SPACE ABOVE ANY EXPOSED COOKING SURFACE AS PER SECTION 33.3.A AND B OF THE MDL. THE UPPER CABINETS SHALL BE OF WOOD CONSTRUCTION, USING EUROPEAN STYLING (HIDDEN HINGES).

THE CEILINGS AND WALLS OF ALL KITCHENS/KITCHENETTES AND PUBLIC HALLWAYS SHALL BE FIRE RETARDENT USING 5/8" THICK FIRE RATED TYPE 60 GYPSUM BOARD (U.S.G. - MEA #203-93-M) ON BOTH SIDES. THE INTERIOR FACE OF THE BATHROOM, WOOD STUD PARTITIONS, SHALL HAVE A MINIMUM OF 45 MINUTE RATING, AS WELL AS THE CEILINGS (USE 5/8"TH "GREEN" BOARD). ALL OTHER WALLS SHALL HAVE 5/8" THICK GYPSUM BOARD SHEATHING ON BOTH SIDES.

THAT PORTION OF THE BASEMENT USED FOR ACCESSORY LIVING PURPOSES SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 173. 174. & 177 OF THE MDL AND 27-2082 OF THE HMC.

THE BUILDING SHALL COMPLY WITH MDL SECTIONS 185.1. IN REGARDS THE BASEMENT CEILING BEING FIRE RATED FOR A BUILDING THAT IS THREE STORY OR LESS. AND 187.1.A. PERTAINING TO PROVIDING ONE MEANS OF EGRESS FOR A THREE STORY STRUCTURE WITH A BASEMENT.

NOISE REDUCTION NOTES:

AS PER MC 926 OF THE NYC MECHANICAL CODE/2008, TABLE 926.1(1) AND TABLE 1207.2.1 OF THE NYC BUILDING CODE/2008. THE SOUND POWER LEVELS OF EXTERIOR MECHANICAL EQUIPMENT AND OF FAN COIL UNITS. GRILLES. REGISTERS, DIFFUSERS AND INDUCTION UNITS SHALL BE MEASURED IN ACCORDANCE WITH ASHRAE HANDBOOK- 2001 "HVAC SYSTEMS AND APPLICATIONS" AND ANSI/ISO 1680- 2005 "TEST CODE FOR THE MEASUREMENT OF AIRBORNE NOISE EMITTED BY ROTATING ELECTRICAL MACHINERY, PART 1 & PART 2" AND TO BE MEASURED IN A

STRAIGHT LINE. 2. ALL NOISE LEVEL OUTPUT WILL BE BASED UPON ASTM 90-99 & ASTM 336-05 AS PER THE NYC MECHANICAL CODE/2008, AS REFERENCED IN ASHRAE

HANDBOOK-2001 "FUNDAMENTALS" AND MC TABLE 926.1(2). NOISE LEVELS LOCATED WITHIN 100 FEET OF RESIDENTIAL BUILDINGS. TO INCLUDE THOSE CLASSIFIED AS R-1, R-2, AND R-3 IN SECTION BC 310 OF THE NYC BUILDING CODE/2008, AS PER SECTION BC 1207 & ADMINISTRATIVE CODE SECTION 24-232, AND THE NYC MECHANICAL CODE/2008 SECTION MC 926.1.1, SHALL NOT HAVE A NOISE LEVEL THAT EXCEEDS NC-35, EFFECTIVE

AS OF JANUARY 1, 1972, AS REFERENCED IN ASTM E-90, E-336, & E-1408. NOISE VIBRATION ISOLATORS ARE TO BE INSTALLED ON ALL MECHANICAL EQUIPMENT, LOCATED BOTH INSIDE OF MECHANICAL SPACES OF BUILDINGS AND LOCATED ON THE ROOF AREAS OF BUILDINGS. EACH ISOLATOR IS REQUIRED TO HAVE A PAD OF NO LESS THAN ONE-QUARTER INCH THICK. THE FAN UNIT OF ANY CONDENSER IS TO HAVE A MINIMUM ISOLATION EFFICIENCY OF 85% AT A MAXIMUM STATIC DEFLECTION OF FOUR INCHES. AN AUTOMATIC LEVELING DEVICE MUST BE INCLUDED AS PART OF ANY INSTALLATION, AS PER THE NYC BUILDING CODE/2008 SECTIONS BC 1207.2 & BC 1207.3 AND THE NYC MECHANICAL CODE/2008 SECTION MC 926.2.

PLUMBING NOTES:

ALL PLUMBING SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES AND BE INSTALLED BY A LICENSED MASTER PLUMBER AS PER NYC ADMINISTRATIVE CODE/2008 SECTION AC 28-408.

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR OBTAINING BOTH THE ROUGHING INSPECTION AND THE FINAL INSPECTION FOR THIS PROJECT. THESE INSPECTIONS MUST BE COMPLETED PRIOR TO SIGN-OFF FROM THE NYC BUILDING

NO TRENCHING OF EXISTING FLOORS IS PERMITTED IN THIS BUILDING. ALL NEW PLUMBING CONNECTIONS SHALL BE INSTALLED UNDER THE NEW RAISED FLOOR/PLATFORM FOR THE NEW BATHROOM IN THE APARTMENT.

LOCATE AND TEST SHUT-OFF VALVES PRIOR TO DEMOLITION AND CONSTRUCTION.

TEST DOMESTIC WATER PRESSURE PRIOR TO DEMOLITION AND CONSTRUCTION

THE PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS SHALL COMPLY WITH SECTION PC 305 OF THE NYC PLUMBING CODE/2008.

ALL PLUMBING MATERIALS AND SUPPLIES ARE TO COMPLY WITH THE STANDARDS SET FORTH IN SECTION PC 303 OF THE NYC PLUMBING CODE/2008.

ALL JOINTS AND CONNECTIONS ARE TO CONFORM TO THE STANDARDS AS SET FORTH IN SECTIONS PC 605.0, PC 705.0 PC 706.0, PC 804.0 & PC 1004.0 OF THE NYC PLUMBING CODE/2008.

HOT AND COLD WATER DISTRIBUTION PIPES ARE TO BE EITHER COPPER TYPE 'K' OR 'L' AS PER SECTION PC 605.4,

TABLE 605.4 OF THE NYC PLUMBING CODE/2008. ALL WATER SUPPLY/FILL VALVES (BALL COCK) ARE TO BE PROVIDED AS PER RS-16, SECTION PC 425.3.1 AND FLUSHING

ALL VENTS THAT PENETRATE THROUGH THE ROOF ARE TO BE A MINIMUM OF 4" DIAMETER, TERMINATING A MINIMUM OF 24" ABOVE THE FINISHED ROOFLINE AS PER SECTIONS PC 904.1 AND PC 904.5 OF THE NYC PLUMBING CODE/2008.

CONNECT ALL INDIVIDUAL FIXTURES. BRANCH AND CIRCUIT VENTS TO A VENT STACK, STACK VENT, OR EXTENDED LINE THAT OPENS TO THE AIR ABOVE AND THROUGH THE FINISHED ROOF AS PER SECTION PC 905.1 OF THE NYC PLUMBING CODE/2008.

PROVIDE CLEAN-OUTS AT ALL CHANGES OF DIRECTION FOR WASTE LINES AS PER SECTION PC 708.3.3 OF THE NYC PLUMBING CODE/2008.

ALL WATER SUPPLY PIPE AND FIXTURE RISERS TO BE EITHER COPPER TYPE 'K' OR 'L'. ALL HORIZONTAL RUNS SHALL BE SUPPORTED AT 12' O.C. MAXIMUM FOR GREATER THAN 1 1/4" DIAMETER PIPING & 10' O.C. MAXIMUM FOR 1 1/4" DIAMETER OR LESS PIPING AND MAINTAIN A UNIFORM SLOPE. VERTICAL SUPPLY PIPING SHALL BE SUPPORTED AT A MAXIMUM OF 12'/10' O.C. AS WELL, AS PER SECTION PC 308.5 OF THE NYC PLUMBING CODE/2008.

SYSTEM IS DESIGNED FOR A MAXIMUM VELOCITY OF 8 FEET PER SECOND.

DEVICES AS PER SECTION PC 425 OF THE NYC PLUMBING CODE/2008.

ALL PIPING TO BE SUPPORTED, ANCHORED & INSULATED AS PER SECTION PC 607.2.1 OF THE NYC PLUMBING

PROVIDE AT ALL CRAWL SPACE BRANCHES BOTH A VALVE AND DRAIN COCK.

PROVIDE SHUT OFF VALVES DIRECTLY OFF NEW SUPPLY BRANCHES ABOVE HUNG CEILING.

ALL AREAS, INCLUDING WALLS, FLOORS AND CEILINGS, DAMAGED DURING WORK MUST BE PATCHED, REPAIRED, RESTORED TO MATCH ADJACENT EXISTING SURFACES. .

ALL WATER CONTROL VALVES MUST BE READILY ACCESSIBLE AT ALL TIMES TO ALLOW UNOBSTRUCTED ACCESS TO THE VALVES AND THE WASHING MACHINE AND/OR DRYER IN CASE OF EMERGENCIES. VALVES SHALL NOT BE BURIED IN WALLS, BLOCKED BY HEAVY FURNITURE, OR BUILT-IN CABINETS AND THE LIKE. VALVES "MAY BE OUT OF SIGHT" BUT MUST BE EASILY ACCESSIBLE THROUGH ACCESS DOORS.

WHENEVER NEW PIPING IS INSTALLED (ALL WATER SUPPLY LINES "CROTONS," WASTE LINES AND VENT LINES) SHALL BE REPLACED IN ITS ENTIRETY BACK TO THE STACK/RISERS.

NO ELECTRIC HAMMER, SLEDGE HAMMER, OR VIBRATORY HAMMERS SHALL BE USED DURING CONSTRUCTION: INSTEAD CORE DRILLS, MARBLE SPLITTERS AND MASONRY CUTTING SAWS SHALL BE USED.

PRIOR TO THE CLOSING OF ANY WALLS, ALL PLUMBING LINES AND CROTONS SHALL BE PHOTOGRAPHED AND SUBMITTED TO THE BUILDING MANAGER BY THE SHAREHOLDER.

A RISER SHUT DOWN, IF REQUIRED, SHALL BE SCHEDULED WITH THE BUILDING MANAGER AND MAY BE SUBJECT TO A FEE FOR THE TIME REQUIRED TO PERFORM SAID REQUEST BY THE BUILDING'S STAFF. THIS FEE IS AT THE DISCRETION OF THE CORPORATION.

DISHWASHERS MAY ONLY BE INSTALLED IN "WET OVER WET" LOCATIONS.

ADEQUATE VIBRATION ISOLATORS SHALL BE INSTALLED. AS REQUESTED BY THE CORPORATION FOR DISHWASHERS, WASHING MACHINES AND DRYERS.

ONLY BRAIDED STAINLESS STEEL WATER HOSES FOR WATER SUPPLY CONNECTIONS TO THE WASHING MACHINE AND DISHWASHER SHALL BE PERMITTED TO BE USED.

WATERPROOF PAN WITH A MINIMUM OF 3" HIGH CURB/LIP SHALL BE INSTALLED IN ALL AREAS WHERE A WET AREA IS LOCATED. SAID PAN MAY BE MADE OF FIBERGLASS, LEAD, OR 22-GAUGE GALVANIZED SHEET METAL. THE PAN IS TO HAVE 6 MIL VAPOR BARRIER INSTALLED BELOW PAN AND ON TOP OF SAID PAN. EXTENDING OVER THE CURB/LIP. INSTALL "FLOOD STOP" WATER SENSOR IN PAN FOR DISHWASHER AND WASHING MACHINE.

BATHROOM & KITCHEN MECHANICAL VENTILATION NOTES:

1. INTERIOR BATHROOM DUCTS SHALL BE A MINIMUM OF 24—GAUGE GALVANIZED SHEET METAL.

2. WHERE INTERIOR BATHROOM DUCTS PASS THROUGH PARTITIONS OR FLOORS, THE OPENING SHALL BE FIRE-STOPPED WITH TWO (2) LAYERS OF 5/8" FIRE CODE TYPE 60 GYP. BD.

3. BATHROOM DUCTS SHALL TERMINATE AT ROOF IN APPROVED TYPE ROOF EXHAUST FANS. SUCH FANS SHALL BE CAPABLE OF EXHAUSTING A MINIMUM OF SIX (6) AIR CHANGES PER HOUR AND TO BE CONTROLLED BY SEPARATE SWITCHES.

4. UPON COMPLETION OF MECHANICAL VENTILATION SYSTEM, SUCH SYSTEM SHALL BE TESTED BY OR UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, QUALIFIED TO CONDUCT SUCH A TEST. THE TEST SHALL SHOW COMPLIANCE WITH THE NEW YORK CITY CODE REQUIREMENTS FOR VENTILATION AND PROPER FUNCTIONING FOR ALL OPERATIONS OF THE DEVICES. SUCH QUALIFIED TESTER SHALL FILE A CERTIFICATE INDICATING WHETHER THE TEST SHOWS THE RATE OF AIR SUPPLY AND EXHAUST MEETS REQUIREMENTS OF THE NYC BUILDING CODE.

5. THE OWNER SHALL FILE A CERTIFICATE TO THE NYC BUILDING DEPT. INDICATING THAT THE VENTILATION SYSTEM WILL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE.

6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CASES WHERE PIPING, DUCT WORK, STRUCTURAL STEEL ETC. BREAK BELOW FINISHED AND EXPOSED FLOORS AND BE DIRECTED BY THE ARCHITECT AROUND SUCH OBSTRUCTIONS.

7. ALL ALUMINUM SHALL BE INCOMBUSTIBLE ALLOY NO. 8063-15.

8. WHERE CEILINGS OCCUR, THEY SHALL BE HARD AGAINST THE LOWEST MECHANICAL INSTALLATION UNLESS A DEFINITE LOWER DIMENSION IS CALLED FOR WITHIN THE CONSTRUCTION DOCUMENTS. NO CEILING HEIGHT SHALL BE LESS THAN 8 FT.

HOUSING MAINTENANCE CODE

ARTICLE 32 HMC KITCHENS.

D26-10.01 DUTIES OF THE OWNER.

1. ENTRANCE DOORS TO EACH TENANT-OCCUPIED UNIT SHALL BE PROVIDED WITH PEEPHOLES AS PER SEC. D26-20.01 HMC, & LOCKSETS AS PER D26-20.05 HMC.

2. LIGHTING & VENTILATION OF LIVING ROOMS SHALL COMPLY W\ SEC. D26-30.11 HMC FOR THREE FAMILIES

3. ALL BATHROOM FLOORS SHALL BE MADE WATERPROOF WITH MATERIAL APPROVED BY THE DEPARTMENT. WATERPROOFING MATERIAL TO EXTEND SIX INCHES ABOVE THE FLOOR, MINIMUM, AT WALL BASE AS PER SEC. D26-31.03 HMC.

4. IN THE KITCHEN AREAS, ALL COMBUSTIBLE MATERIALS IMMEDIATELY UNDERNEATH OR WITHIN ONE FOOT OF COOKING APPARATUS SHALL BE FIRE RETARDED OR COVERED WITH 26 GAUGE SHEET METAL. THERE SHALL BE AT LEAST TWO FEET CLEAR SPACE ABOVE ANY EXPOSED COOKING SURFACE, KITCHEN WALLS & CEILINGS SHALL BE FIRE RETARDED. ALL AS PER SEC. D26-32.03 HMC.

5. OWNER TO FILE REGISTRATION AS PER ARTICLE 41 HMC.

6. PREMISES TO COMPLY WITH THE FOLLOWING ARTICLES OF HOUSING MAINTENANCE CODE:

ARTICLE 17 HMC HEAT AND HOT WATER. ARTICLE 18 HMC GAS APPLIANCES. ARTICLE 19 HMC ARTIFICIAL LIGHTING. ARTICLE 20 HMC PROTECTIVE DEVICES AND FIRE PROTECTION. ARTICLE 21 HMC MISCELLANEOUS SERVICES AND FACILITIES. ARTICLE 31 HMC SANITARY FACILITIES.

7. THE PREMISES SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF HOUSING MAINTENANCE LIMITED TO THE FOLLOWING:

TR1 - TECHNICAL REPORT

SPECIAL INSPECTION ITEMS

PROGRESS INSPECTION ITEMS

D26-10.03 DUTIES OF THE TENANT. D26-11.05 CLEANING OF INTERIOR DWELLING UNITS. D26-12.03 PAINTING OF WINDOW FRAMES. D26-13.03 RODENT AND INSECT ERADICATION. D26-13.05 ELIMINATION OF HARBOURAGE. D26-14.03 RECEPTACLES FOR WASTE MATTER. D26-14.07 COLLECTION OF WASTE MATTER FROM DWELLING UNITS. D26-15.01 WATER SUPPLY TO BUILDING. D26-15.03 WATER SUPPLY TO INDIVIDUAL UNITS AND FIXTURES. D26-16.01 MAINTENANCE OF SEWER CONNECTIONS AND PLUMBING FIXTURES. D26-16.03 DRAINAGE OF ROOFS AND COURT YARDS. D26-17.03 MINIMUM TEMPERATURE TO BE MAINTAINED. D26-17.05 SELF INSPECTION OF CENTRAL HEATING PLANT. D26-17.07 SUPPLY OF HOT WATER; WHEN REQUIRED. D26-17.09 GAS FUELED, OR ELECTRIC HEATERS. D26-18.05 SELF INSPECTION OF GAS APPLIANCES. D26-30.11 LIGHTING AND VENTILATION IN ALL DWELLINGS. D26-31.01 LOCATION OF WATER CLOSETS D26-31.05 LIGHT AND VENTILATION OF WATER CLOSET COMPARTMENTS. D26-31.13 SANITARY FACILITIES IN ALL DWELLINGS.

D26-32.07 REQUIREMENTS FOR KITCHENS AND KITCHENETTES.

Y N Special Inspections

Concrete Cast-In-Place

Fire-resistant Penetrations and Joints

Energy Code Compliance Inspections

Fire-Resistance Rated Construction

Subgrade Inspection

Mechanical Systems

Heating Systems

Y N Progress Inspections

Footing and Foundation

Chimnevs

DEMOLITION NOTES:

ALL DEMOLITION OPERATIONS TO BE PERFORMED ACCORDING TO SECTION BC 3306 OF THE NYC BUILDING CODE/2008.

DEMOLITION CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDINGS. AND WILL TAKE ALL NECESSARY MEASURES TO SHORE AND BRACE FIRE DAMAGED STRUCTURES TO PERMIT PARTIAL DEMOLITION WITHOUT COLLAPSE. ALL OPERATIONS SHALL BE CONTINUALLY INSPECTED TO DETECT ANY HAZARDS THAT MAY DEVELOP.

PREMISES SHALL BE OCCUPIED DURING THE COURSE OF CONSTRUCTION. ALL WORK SHALL BE DONE TO PREVENT INTERRUPTION OF SAID BUSINESS. CONSTRUCTION SHALL BE DONE IN 2 OR 3 STAGES, AS DISCUSSED WITH THE ARCHITECT.

ELECTRICIAN SHALL COORDINATE THE REMOVAL OF ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, ETC. WITH BOTH THE GC AND THE ARCHITECT TO PREVENT AN INTERRUPTION OF

PLUMBING CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL PLUMBING FIXTURES AND THE CAPPING OF ALL WATER AND WASTE LINES.

PLUMBING CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING GAS LINE PRIOR TO DISCONNECTING ALL GAS APPLIANCES. GAS IS TO BE TURNED OFF AT GAS METER AND GAS LINES ARE TO BE CAPPED ACCORDINGLY. IF THE GAS METER IS THE MAIN METER FOR THE ENTIRE BUILDING. THE GAS LINE SHALL BE TURNED BACK ON AFTER GAS LINES ARE CAPPED. TESTING OF CAPS TO BE DONE TO DETERMINE IF THERE IS ANY LEAKAGE PRIOR TO PERMANENTLY LEAVING MAIN GAS METER ON.

MAXIMUM CARE SHALL BE TAKEN IN REGARDS TO ELIMINATION THE TRAVEL OF DUST, DIRT, DEBRIS, NOISE, OR ANY OTHER TYPE OF DISRUPTION THAT WOULD EFFECT THE ADJACENT AREAS NOT HAVING CONSTRUCTION DONE. TEMPORARY BARRIERS SHALL BE SET-UP TO ISOLATE THE CONSTRUCTION AREAS FROM THE FUNCTIONING OFFICE AREAS (TO BE DETERMINED BY GC, ARCHITECT, AND OWNER). SMOKE DETECTOR NOTES

EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE DETECTOR DEVICE, RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT AS PER NYC BUILDING CODE/2008 SEC. 907.2.10.2.

SUCH SMOKE DETECTOR MUST BE OF PHOTOELECTRIC DETECTOR TYPE AS PER NYC BUILDING CODE/2008 SEC.

ALL SMOKE DETECTORS MUST BE INSTALLED WITHIN 15 FT. OF THE ENTRANCE TO ANY SLEEPING ROOM AND EACH BEDROOM. CEILING MOUNTED AND INDICATED ON PLAN AS PER SEC. BC 907.2.10.1.2.

A "CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS" MUST BE PROVIDED NEW YORK CITY BUILDING DEPT. PRIOR TO ISSUANCE OF THE LETTER OF COMPLETION.

NYCECC COMPLIANCE STATEMENT "TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2014 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC), USING CHAPTER C4"

JAHMAL SABAHA:

DATE:

JS CONSULTING ENGINEER

52 SAINT MARKS AVENUE, TOP FLOOR BROOKLYN NY 11217.

PHONE: 212-363-0505, FAX: 347-799-2948

135 DECATUR STREET BROOKLYN NY.

NOTES, TR1- TECHNICAL REPORT

DATE: 04/15/2016 PROJECT No.: 135 DECATUR STREET DRAWING BY:KS CHK BY:JS

54-21-16

Code/Section

BC 1704.4

BC 1704.7.1

BC 1704.16

BC 1704.25

BC 1704.26

BC 1704.27

Code/Section

BC 110.3.1

BC 110.3.5

BC 110.3.4

TR8

N-001.00 FILE#:135DECATURST 2 OF 13

DOB APPROVAL

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DIR. 2/75 MAY 2 4 2016

Kurt James

DEPT. OF BUILDINGS



MULTIPLE DWELLING NOTES- FIRE PROTECTION:

THE BUILDING SHALL CONFORM TO THE ARTICLES OF THE NYS MULTIPLE DWELLING LAW, THE NYC BUILDING CODE, AND THE NYC HOUSING MAINTENANCE CODE.

OCCUPANCY OF THE BUILDING SHALL COMPLY WITH SECTIONS 27-2074, 27-2075, 27-2076, AND 27-2077 OF THE NYC HOUSING MAINTENANCE CODE.

THE OWNER SHALL FILE THE REGISTRATION STATEMENT AS PER SECTIONS 27-2097, 27-2098, 27-2099, 27-2100, 27-2101, 27-2104, AND 27-2105 OF THE NYC HOUSING MAINTENANCE CODE.

THE OWNER SHALL COMPLY WITH SECTION 27-2022 HMC WITH RESPECT TO COLLECTION OF WASTE MATTER.

THE PREMISES SHALL COMPLY WITH SECTIONS 27-2028, 27-2029, AND 27-2031 OF THE HMC WITH RESPECT TO HEATING AND HOT WATER.

AS PER SECTION 152. FIRE-STOPPING.

1. IN EVERY WALL WHERE WOODEN FURRING IS USED EVERY COURSE OF MASONRY FROM THE UNDER SIDE TO THE TOP OF ANY FLOOR BEAMS SHALL PROJECT A DISTANCE OF AT LEAST TWO INCHES BEYOND EACH FACE OF THE WALL THAT IS NOT ON THE OUTSIDE OF THE DWELLING; AND WHENEVER FLOOR BEAMS RUN PARALLEL TO A WALL AND WOODEN FURRING IS USED, EVERY SUCH BEAM SHALL ALWAYS BE KEPT AT LEAST TWO INCHES AWAY FROM THE WALL, AND THE SPACE BETWEEN THE BEAMS AND THE WALL SHALL BE BUILT UP SOLIDLY WITH BRICKWORK FROM THE UNDER SIDE TO THE TOP OF THE FLOOR BEAMS.

2. WHENEVER A WALL IS STUDDED OFF, THE SPACE BETWEEN AN INSIDE FACE OF THE WALL AND THE STUDDING AT ANY FLOOR LEVEL SHALL BE FIRE—STOPPED. EVERY SPACE BETWEEN BEAMS DIRECTLY OVER A STUDDED—OFF SPACE SHALL BE FIRE—STOPPED BY COVERING THE BOTTOM OF THE BEAMS WITH METAL LATH AND PLASTER AND PLACING A LOOSE FILL OF INCOMBUSTIBLE MATERIAL AT LEAST FOUR INCHES THICK ON THE PLASTER BETWEEN THE BEAMS, OR HOLLOW—BURNED CLAY TILE OR GYPSUM PLASTER PARTITION BLOCKS, AT LEAST FOUR INCHES THICK IN EITHER CASE AND SUPPORTED BY CLEATS, SHALL BE USED TO FILL THE SPACES BETWEEN BEAMS.

3. PARTITIONS WHICH ARE NOT PARALLEL WITH THE WOOD FLOOR BEAMS AND WHICH SEPARATE ONE APARTMENT OR SUITE FROM ANOTHER OR ANY PART OF AN APARTMENT OR SUITE FROM A PUBLIC HALL OR OTHER PART OF THE DWELLING OUTSIDE THE APARTMENT OR SUITE SHALL BE FILLED IN SOLIDLY WITH INCOMBUSTIBLE MATERIAL BETWEEN THE FLOOR BEAMS FROM THE PLATE OF THE PARTITION BELOW TO THE FULL DEPTH OF THE FLOOR BEAMS.

4. IF A DWELLING IS WITHIN TEN FEET OF ANOTHER NON-FIREPROOF BUILDING OR OF A SIDE LOT LINE, SUCH DWELLING SHALL HAVE ITS EAVES OR CORNICES BUILT UP SOLIDLY WITH MASONRY.

5. THE WOODEN FRAMES IN ANY CORNICE ON ANY ROW OF BUILDINGS SHALL BE SEPARATED BETWEEN BUILDINGS BY A COMPLETE FIRE-STOP.

6. EVERY SPACE BETWEEN STAIR CARRIAGES OF ANY NON-FIREPROOF STAIR SHALL BE FIRE-STOPPED BY A HEADER BEAM AT TOP AND BOTTOM. WHERE A STAIR RUN IS NOT ALL IN ONE ROOM OR OPEN SPACE, THE STAIR CARRIAGES SHALL HAVE AN INTERMEDIATE FIRESTOP, SO LOCATED AS TO CUT OFF COMMUNICATION BETWEEN PORTIONS OF THE STAIR IN DIFFERENT ROOMS OR OPEN SPACES. THE UNDERSIDE AND STRINGERS OF EVERY UNENCLOSED STAIR OF COMBUSTIBLE MATERIAL SHALL BE FIRE-RETARDED.

7. ALL PARTITIONS REQUIRED TO BE FIRE-RETARDED SHALL BE FIRE-STOPPED WITH INCOMBUSTIBLE MATERIAL AT FLOORS, CEILINGS AND ROOFS. FIRE-STOPPING OVER PARTITIONS SHALL EXTEND FROM THE CEILING TO THE UNDERSIDE OF ANY ROOFING ABOVE. ANY SPACE BETWEEN THE TOP OF A PARTITION AND THE UNDERSIDE OF ROOF BOARDING SHALL BE COMPLETELY FIRE-STOPPED.

SECTION 241. PARTITIONS; FIRE-STOPPING.

1. IN TENEMENTS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWELVE, WOOD STUD APARTMENT PARTITIONS WHICH ARE DIRECTLY OVER EACH OTHER SHALL RUN THROUGH THE WOOD FLOOR BEAMS AND REST UPON THE PLATE OF THE PARTITION BELOW. IN FIREPROOF TENEMENTS ERECTED AFTER SUCH DATE ALL PARTITIONS SHALL REST DIRECTLY UPON THE FIREPROOF FLOOR CONSTRUCTION AND EXTEND TO THE FIREPROOF BEAM FILLING ABOVE. APARTMENT PARTITIONS WITHIN THE MEANING OF THIS SECTION ARE PARTITIONS CROSSING THE FLOOR BEAMS AT ANY ANGLE AND SEPARATING ONE APARTMENT FROM ANOTHER OR ANY PART OF AN APARTMENT FROM ANY PUBLIC PART OF THE DWELLING.

2. IN TENEMENTS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWELVE, APARTMENT STUDDING SHALL BE FILLED IN SOLIDLY BETWEEN THE UPRIGHTS TO THE DEPTH OF THE FLOOR BEAMS WITH INCOMBUSTIBLE MATERIALS.

3. IN NON-FIREPROOF TENEMENTS ERECTED AFTER APRIL TWELFTH, NINETEEN HUNDRED ONE, IN EVERY WALL WHERE WOOD FURRING IS USED, EVERY COURSE OF MASONRY FROM THE UNDER SIDE TO THE TOP OF ANY FLOOR BEAMS SHALL PROJECT A DISTANCE OF TWO INCHES OR MORE BEYOND EACH FACE OF THE WALL THAT IS NOT ON THE OUTSIDE OF THE DWELLING, SO AS TO PROVIDE AN EFFECTIVE FIRE STOP; AND WHENEVER FLOOR BEAMS RUN PARALLEL TO A WALL AND WOOD FURRING IS USED, EVERY SUCH BEAM SHALL ALWAYS BE KEPT TWO INCHES AWAY FROM THE WALL, AND THE SPACE BETWEEN THE BEAMS AND THE WALL SHALL BE BUILT UP SOLIDLY WITH BRICKWORK FROM THE UNDERSIDE TO THE TOP OF THE FLOOR BEAMS SO AS TO FORM AN FFFECTIVE FIRE STOP.

HOUSING MAINTENANCE CODE- PLUMBING & FIRE PROTECTION:

SEC. 27-2024 WATER SUPPLY TO BUILDINGS

THE OWNER OF A DWELLING SHALL PROVIDE AND MAINTAIN A SUPPLY OF PURE AND WHOLESOME WATER SUFFICIENT IN QUANTITY AND AT SUFFICIENT PRESSURE TO KEEP ALL PLUMBING FIXTURES ADEQUATELY SUPPLIED FOR THEIR SANITARY MAINTENANCE. WHERE WATER MAINS ARE AVAILABLE IN THE STREET, EVERY DWELLING SHALL BE SUPPLIED WITH WATER FROM SUCH MAINS. THE OWNER SHALL KEEP THE WATER SUPPLY FREE FROM CONNECTION TO ANY UNSAFE WATER SUPPLY OR FROM CROSS—CONNECTIONS TO ANY DRAINAGE SYSTEM.

SEC. 27-2025 WATER SUPPLY TO INDIVIDUAL UNITS AND FIXTURES

THE OWNER OF A DWELLING SHALL PROVIDE PROPER APPLIANCES FOR THE USE OF EVERY DWELLING UNIT TO RECEIVE AND DISTRIBUTE AN ADEQUATE SUPPLY OF WATER DURING ALL HOURS.

SEC. 27-2026 MAINTENANCE OF SEWER CONNECTIONS AND PLUMBING FIXTURES

THE OWNER OF A DWELLING SHALL PROPERLY MAINTAIN AND KEEP IN GOOD REPAIR THE PLUMBING AND DRAINAGE SYSTEM, INCLUDING WATER CLOSETS, TOILETS, SINKS AND OTHER FIXTURES.

SEC. 27-2031 SUPPLY OF HOT WATER; WHEN REQUIRED.

EXCEPT AS OTHERWISE PROVIDED IN THIS ARTICLE, EVERY BATH, SHOWER, WASHBASIN AND SINK IN ANY DWELLING UNIT IN A MULTIPLE DWELLING OR TENANT—OCCUPIED ONE—FAMILY OR TWO—FAMILY DWELLING SHALL BE SUPPLIED AT ALL TIMES BETWEEN THE HOURS OF SIX A. M. AND MIDNIGHT WITH HOT WATER AT A CONSTANT MINIMUM TEMPERATURE OF ONE HUNDRED TWENTY DEGREES FAHRENHEIT FROM A CENTRAL SOURCE OF SUPPLY CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE AND THE REGULATIONS OF THE DEPARTMENT, PROVIDED HOWEVER THAT BATHS AND SHOWERS EQUIPPED WITH BALANCED—PRESSURE MIXING VALVES, THERMOSTATIC MIXING VALVES OR COMBINATION PRESSURE BALANCING/THERMOSTATIC VALVES MAY PRODUCE A DISCHARGE TEMPERATURE LESS THAN ONE HUNDRED TWENTY DEGREES FAHRENHEIT BUT IN NO EVENT LESS THAN ONE HUNDRED TEN DEGREES FAHRENHEIT. GAS OR ELECTRIC WATER HEATERS MAY, IF APPROVED BY THE DEPARTMENT, BE UTILIZED IN LIEU OF A CENTRAL SOURCE OF SUPPLY OF HOT WATER IF SUCH HEATERS:

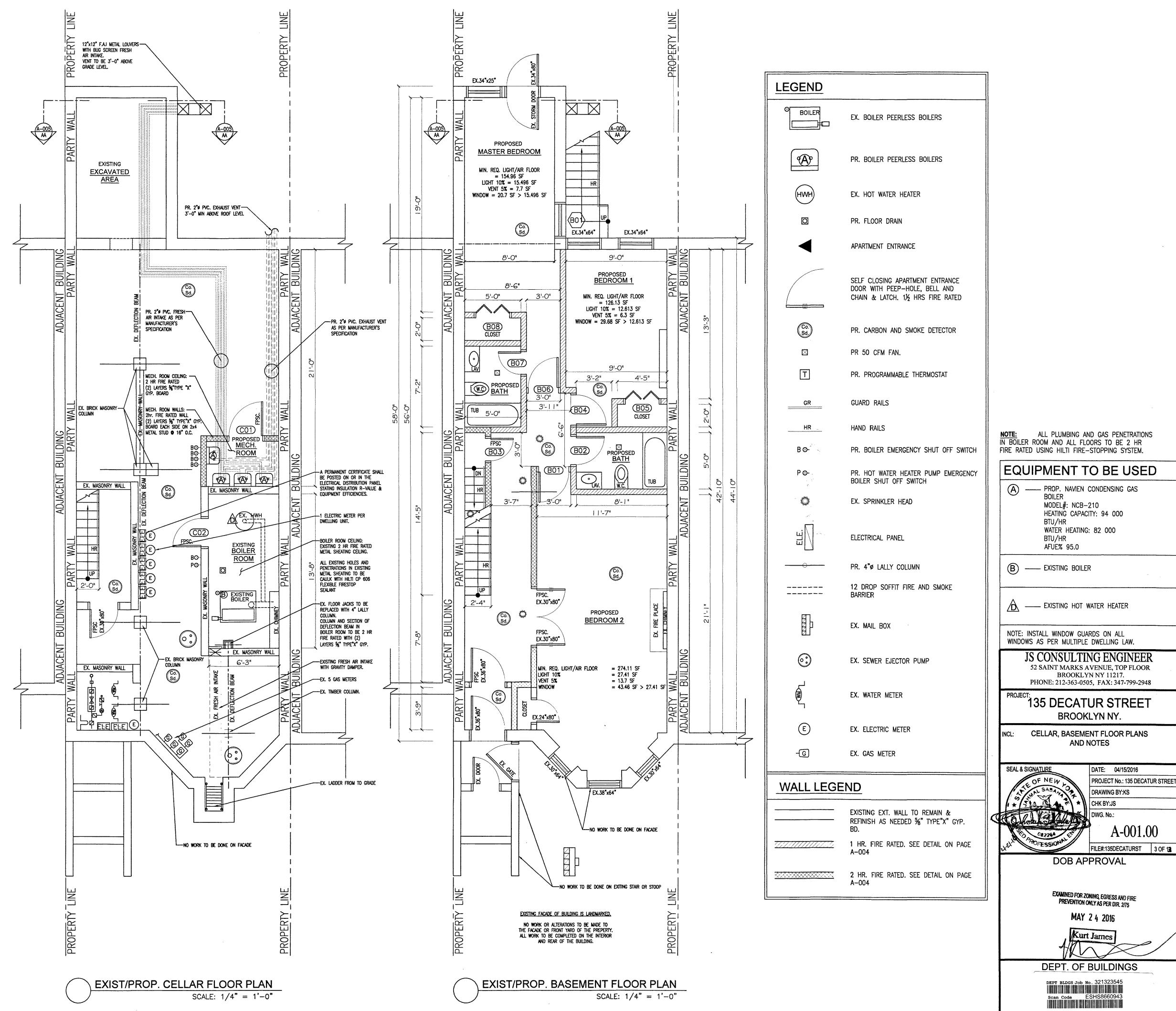
1. ARE LAWFULLY IN USE ON JULY FOURTEENTH, NINETEEN HUNDRED SIXTY-SEVEN; OR

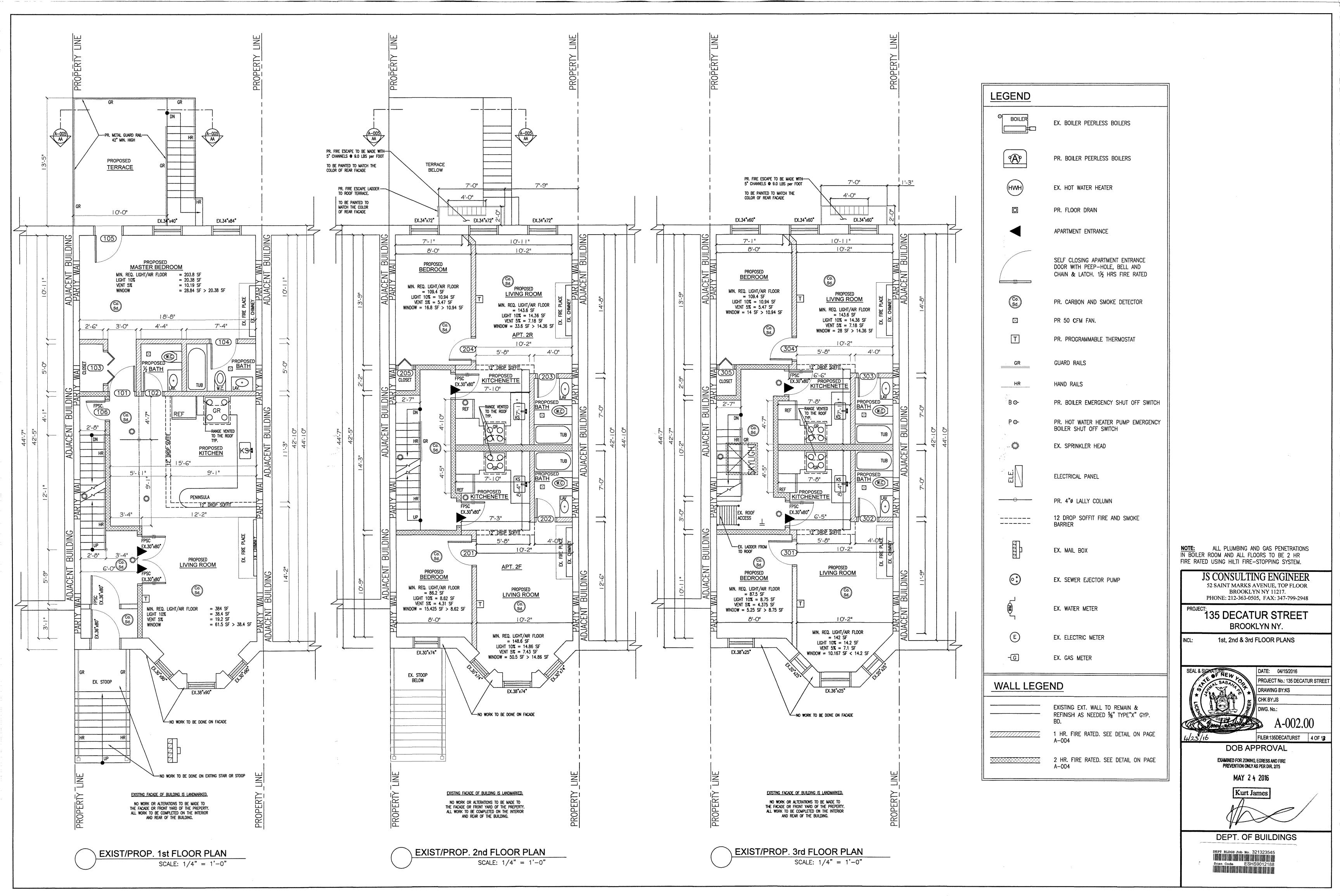
ASBESTOS NOTE:

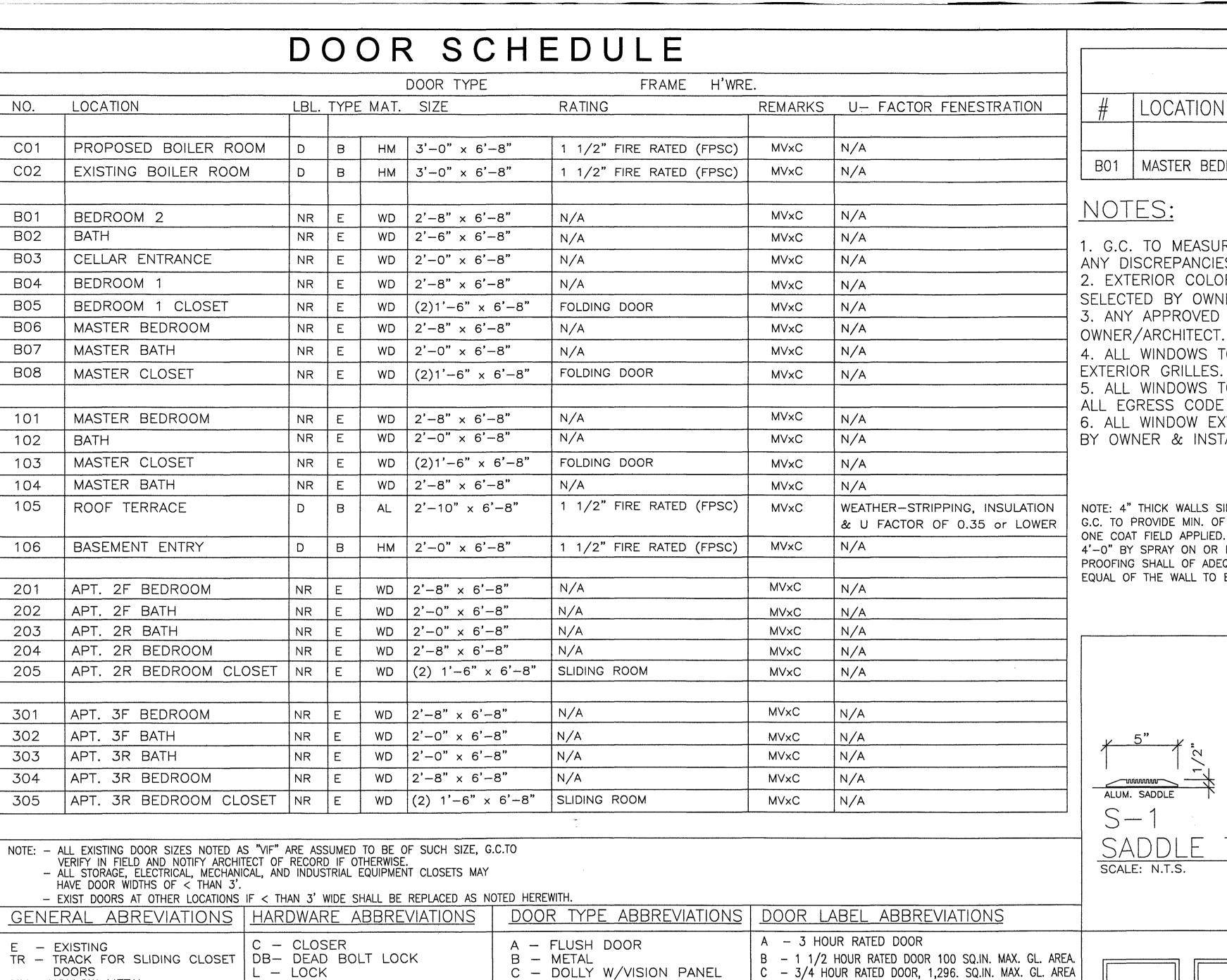
IN THE EVENT OF ASBESTOS OR OTHER TOXIC SUBSTANCE EXPOSURE OR THE SUBSTANTIAL RISK THEREOF, CLIENT WILL HAVE THE DUTY TO INFORM THE ARCHITECT OF SUCH RISKS KNOWN OR REASONABLY KNOWABLE TO THE CLIENT. IF ASBESTOS OR ANY OTHER TOXIC SUBSTANCE, OR RISKS TO EXPOSURE THEREOF IS DISCOVERED BY THE ARCHITECT DURING WORK ON THE PROJECT, THE ARCHITECT SHALL, IN ITS SOLE DISCRETION, HAVE THE RIGHT TO SUSPEND WORK ON THE PROJECT. THE CLIENT SHALL HAVE THE DUTY TO PROMPTLY RETAIN A QUALIFIED EXPERT TO SAFELY RENDER OR SUPERVISE THE REMOVAL OF SUCH ASBESTOS OR OTHER TOXIC SUBSTANCE. THE CLIENT SHALL INDEMNIFY AND HOLD ARCHITECT, AGENTS AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY ON PART OF OR DAMAGE TO SUCH ENTITIES OR PERSONS INCLUDIG THE COST OF LEGAL FEES AND EXPENSES, AS SUCH FEES AND EXPENSES ARE INCURRED, WHICH MAY RESULT FROM ASBESTOS OR OTHER TOXIC SUBSTANCE EXPOSURE ON THE PROJECT.

LIMITATION NOTES:

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER APPROVED OR IN ACCORDANCE WITH APPLICABLE CODE. NO CHANGE IN USE, EGRESS OR OCCUPANCY.







C - DOLLY W/VISION PANEL

D - LOUVERED/UNDERCUT

E - RAISED PANEL DOOR

O - OVERHEAD DOOR BY

OVERHEAD DOOR CORP

OR APPROVED EQUAL

G - ALL GLASS & ALUM.

	WINDOW SCHEDULE											
#	!	LOCATION	MANUF.	TYPE	ROUGH OPENING	QUAN.	REMARKS	U- FACTOR FENESTRATION				
ВС	01	MASTER BEDROOM	SxHw	DOUBLE HUNG	2'-10" x 5'-4"	1	MV×C	U = 0.35 or LOWER				

NOTES:

1. G.C. TO MEASURE ALL WINDOW OPENINGS & NOTIFY ARCHITECT OF ANY DISCREPANCIES PROIR TO ORDER OF WINDOWS UNITS.

2. EXTERIOR COLOR OF WINDOW TO BE WHITE UNLESS OTHERWISE SELECTED BY OWNER/ARCHITECT, BEFORE WINDOWS ARE ORDERED. 3. ANY APPROVED EQUAL SHALL BE REVIEWED AND APPROVED BY THE

4. ALL WINDOWS TO BE SUPPLIED W/ SCREENS & INTERIOR + EXTERIOR GRILLES.

5. ALL WINDOWS TO BE CERTIFIED BY WINDOW MANUFACTURER TO MEET ALL EGRESS CODE REQUIREMENTS

6. ALL WINDOW EXTERIOR TRIM, INTERIOR TRIM & KEY STONE SELECTED BY OWNER & INSTALL BY G.C.

VCT OR CARPET

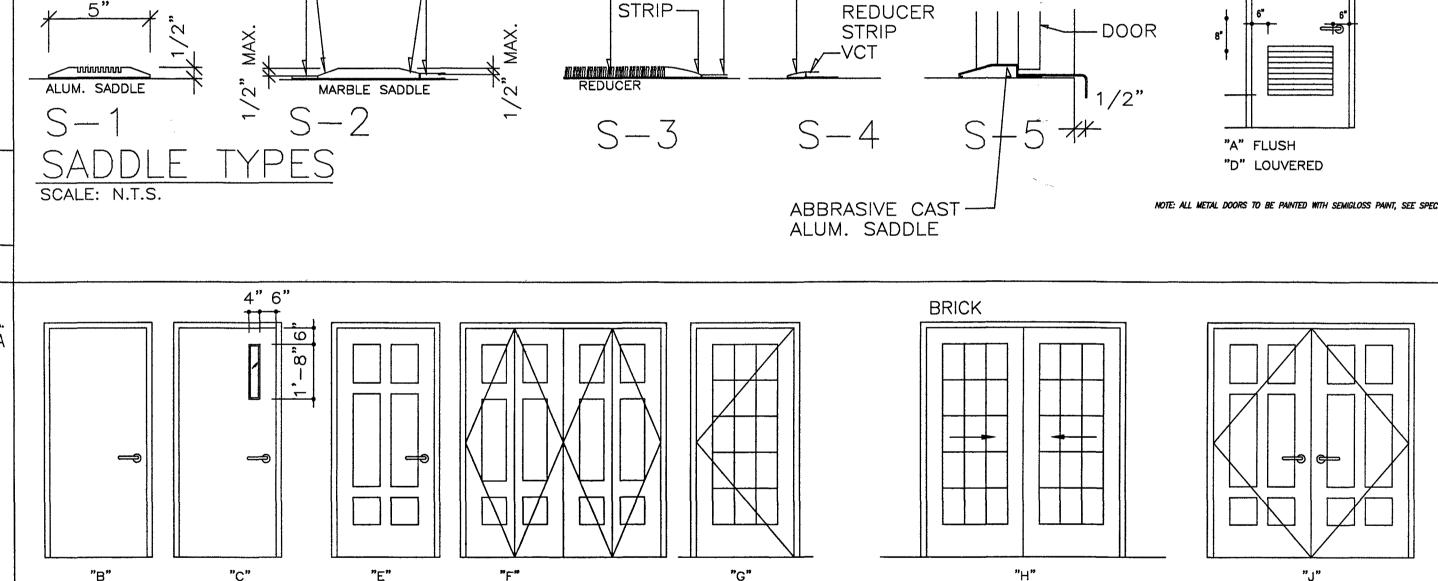
-1:2 MAX-7-CERAMIC TILE

LIN	TEL SCHE	DULE
WALL WIDTH	LINTEL SPAN (MASONRY OPENING)	LINTEL SIZE
8"-10"	0'-0" THRU 4'-0"	TWO 4"X3 1/2"X5/16" ANGLES
8"	5'-1" THRU 6'-6"	FOUR 5"X3 1/2"X5/16"ANGLES
12"-14"	0'-0" THRU 4'-0"	SEVEN 4"X3 1/2"X5/16"ANGLES
12"		

FRAME

--VINYL

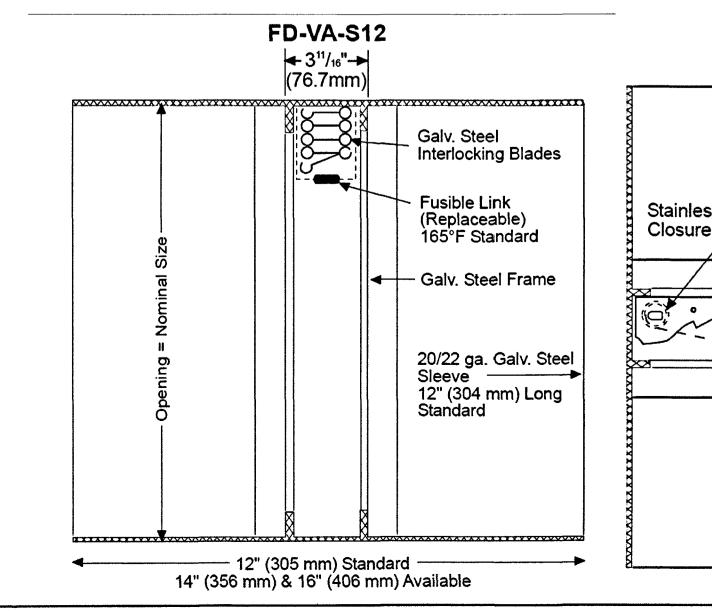
NOTE: 4" THICK WALLS SIMILAR, ALL STEEL LINTELS TO BE ASTM A-36 STEEL G.C. TO PROVIDE MIN. OF ONE COAT OF SHOP APPLIED ANTI RUST PAINT AND ONE COAT FIELD APPLIED. PROVIDE FIREPROOFING FOR ALL SPANS EXCEEDING 4'-0" BY SPRAY ON OR BY PORTLAND CEMENT STUCCO ON WIRE LATH. FIRE-PROOFING SHALL OF ADEQUATE THICKNESS TO PROVIDE AN HOURLY RATING EQUAL OF THE WALL TO BE SUPPORTED ..



--- CARPET

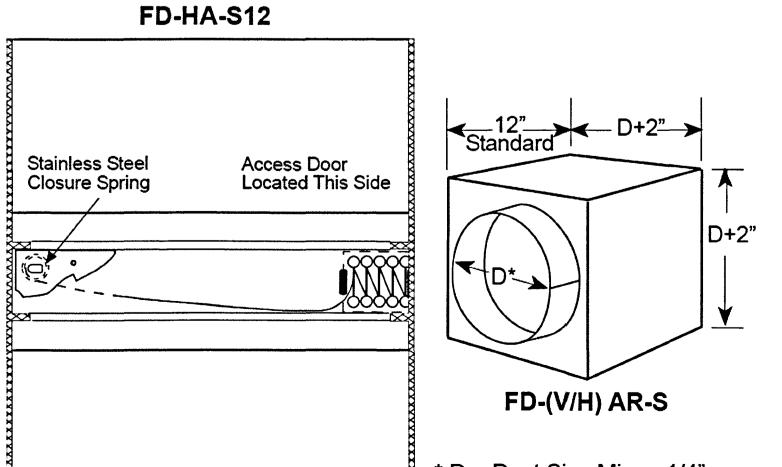
REDUCER

VINYL



D - 1 1/2 HOUR RATED DOOR

N.R.- NO RATING REQUIRED



RAISED PANEL

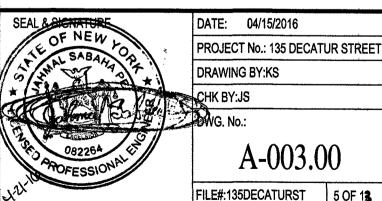
* D = Duct Size Minus 1/4" * Maximum Diameter = 46" (1168 mm)

RAISED PANEL

JS CONSULTING ENGINEER 52 SAINT MARKS AVENUE, TOP FLOOR BROOKLYN NY 11217. PHONE: 212-363-0505, FAX: 347-799-2948

135 DECATUR STREET BROOKLYN NY.

DOORS AND WINDOW SCHEDULES



FILE#:135DECATURST 5 OF 13

DOB APPROVAL

EXAMINED FOR ZONING, EGRESS AND FIRE

PREVENTION ONLY AS PER DIR. 2/75 MAY 2 4 2016

DEPT. OF BUILDINGS

DEPT BLDGS Job No. 321323545 Scan Code ESHS6114674

GRAVITY DAMPER DETAIL

SCALE: N.T.S.

L - LOCK

P - PANIC

PV- PRIVACY

LV- LEVER/LATCH

LS- LOCK SET

PB- PUSH/PULL BARS

S — SLIDINĢ HARDWARE

HM- HOLLOW METAL

VP- VISION PANEL

LVR-LOUVERED DOOR

FF-FACTORY FINISH LL - LEAD LINED AL - ALUMINUM

WD - OAK FIN DOOR

KD- KNOCK DOWN BUCK

SLS-SEE LINTEL SCHEDULE

MVxC - MEASUREMENTS TO BE

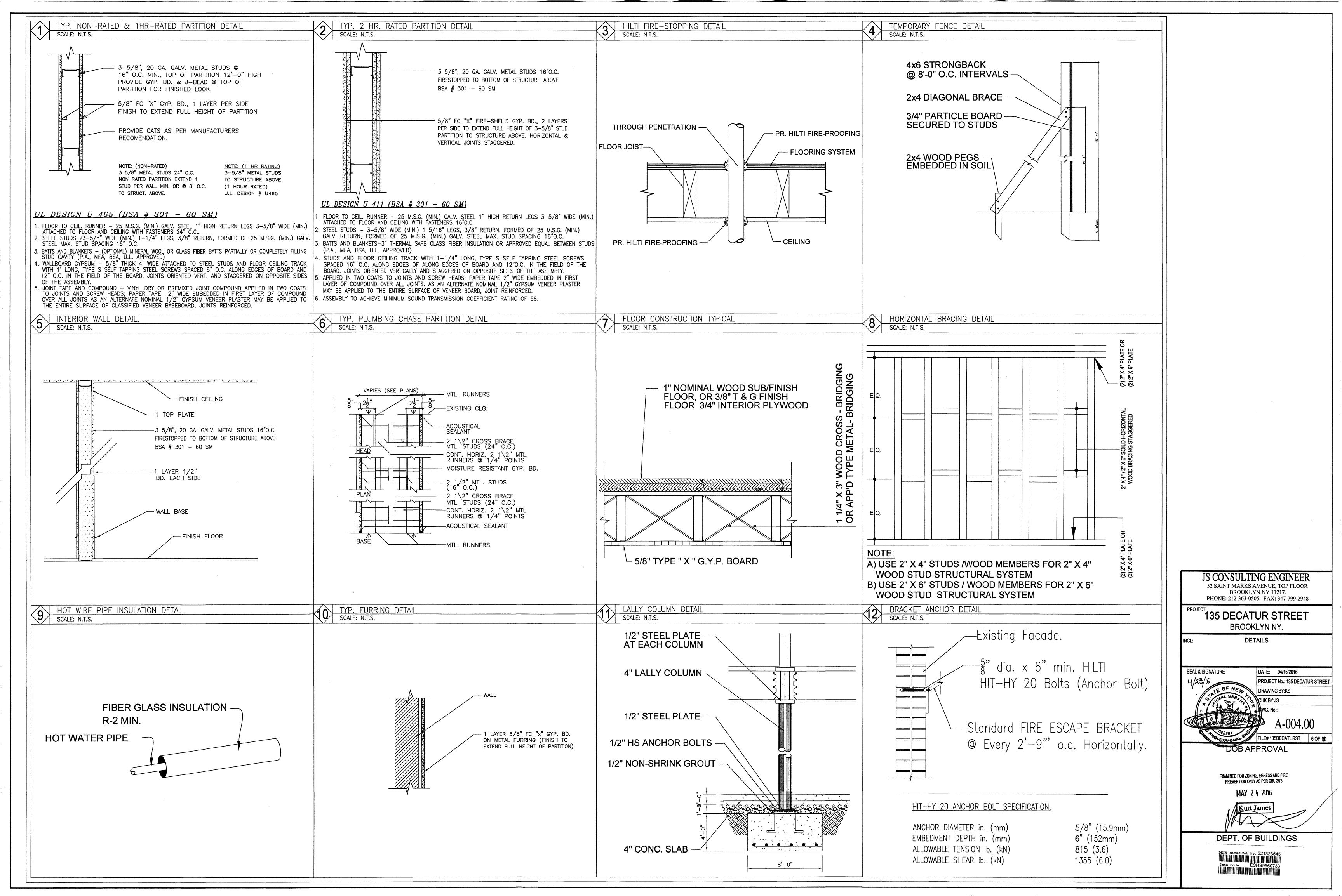
SxHw - TO BE SELECTED BY

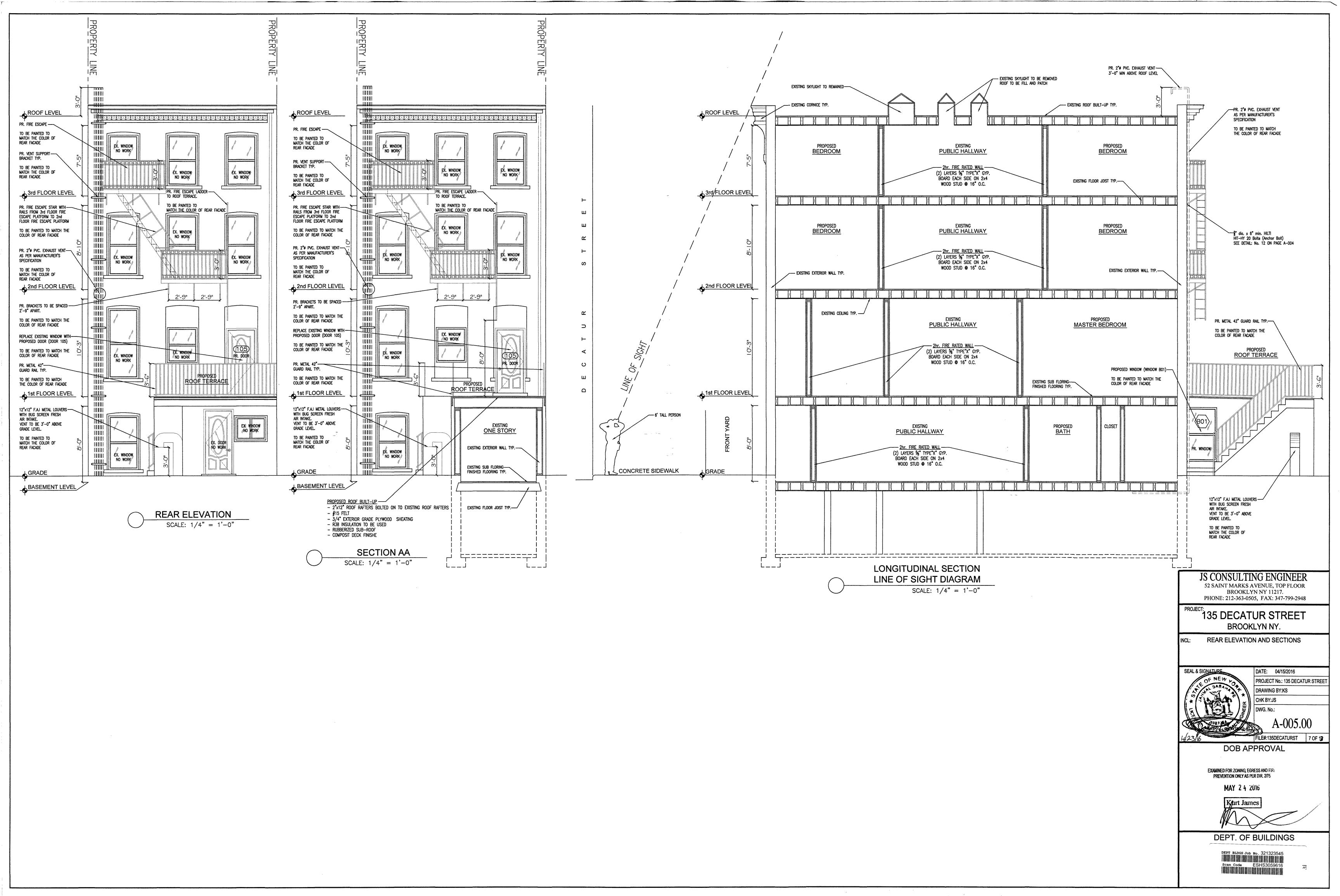
HOMEOWNER

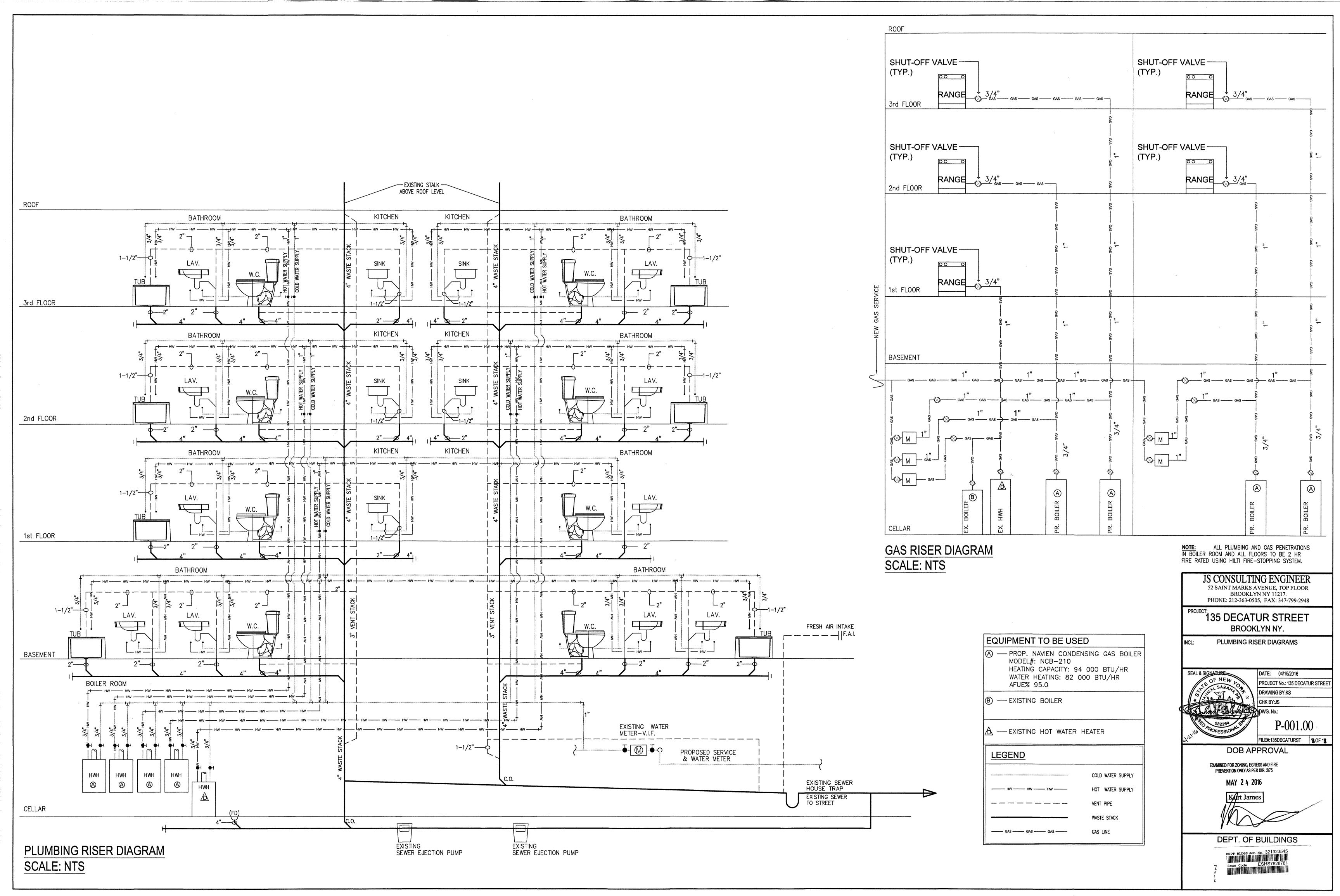
VERIFIED BY CONTRACTOR

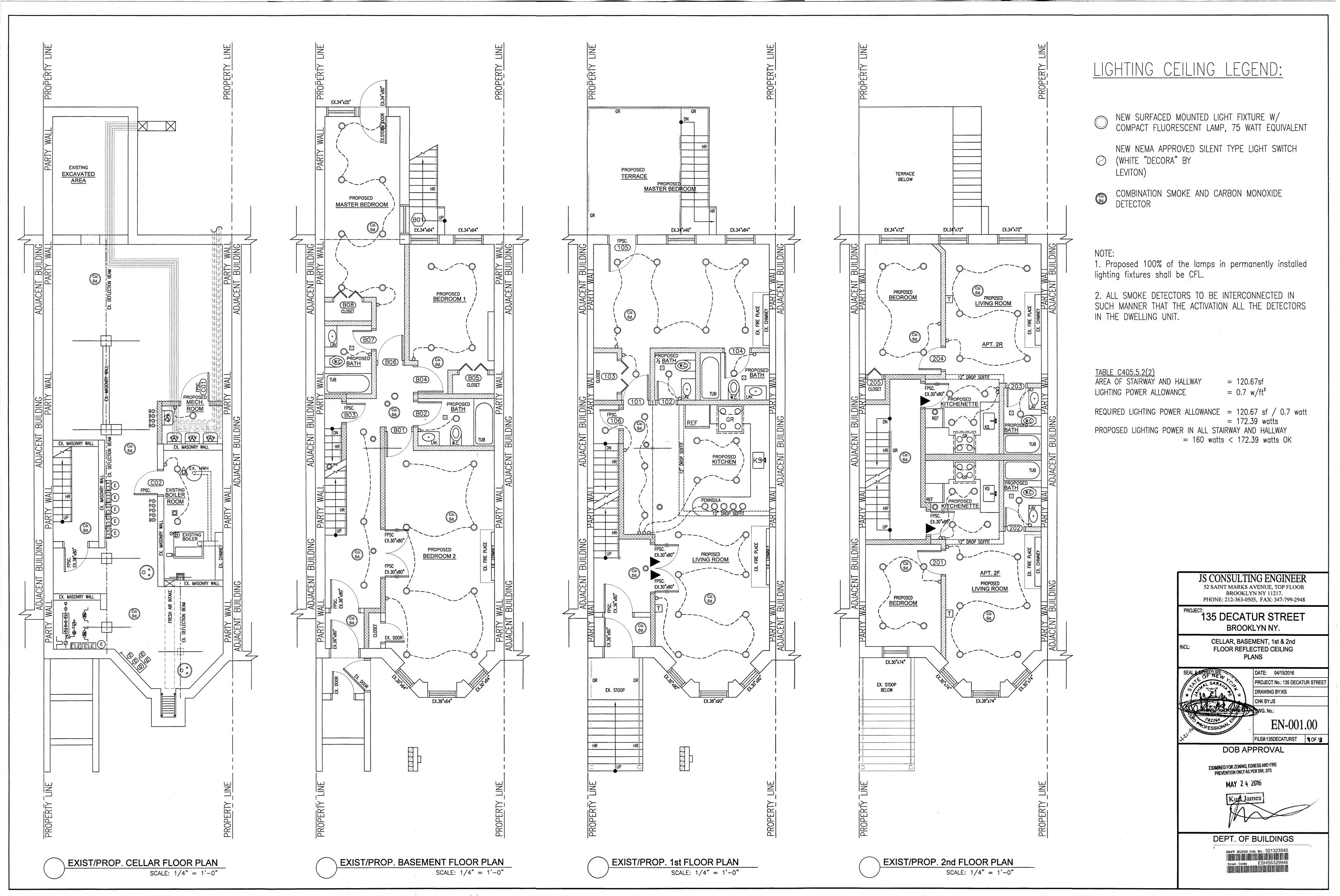
SG- SEMI GLOSS PAINT

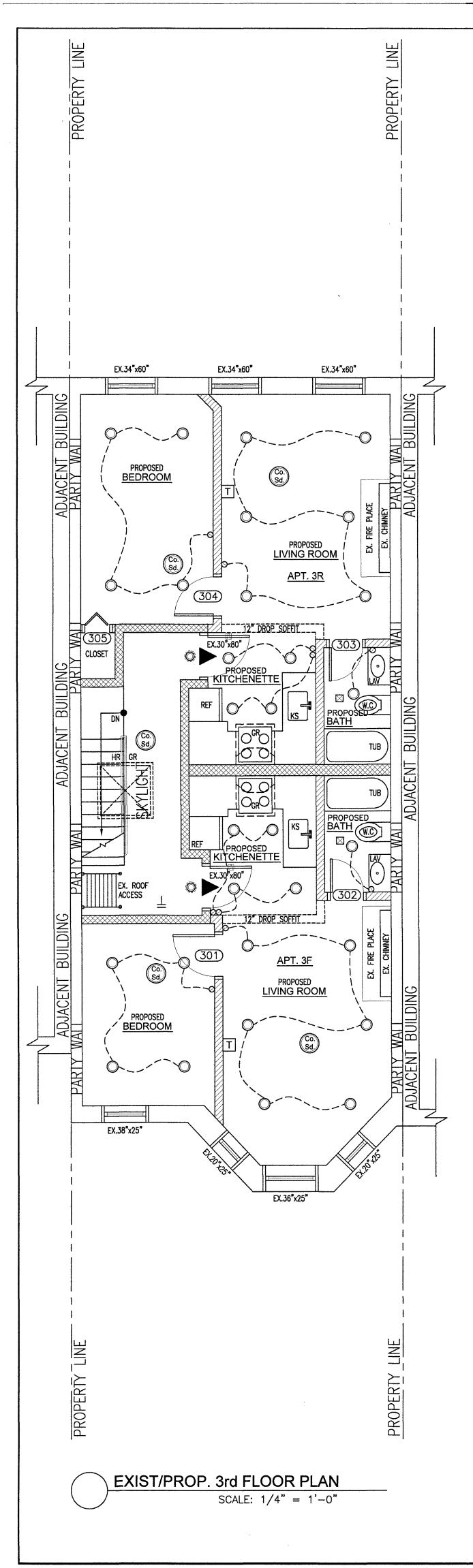
M - METAL











SECTION ECC C402 BUILDING ENVELOPE REQUIREMENTS

OF THE NEW YORK CITY ENERGY CONSERVATION CODE.

C402.1.1 INSULATION AND FENESTRATION. THE BUILDING THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF TABLES C402.2 AND C402.3 BASED ON THE CLIMATE ZONE SPECIFIED IN CHAPTER 3. COMMERCIAL BUILDINGS OR PORTIONS OF COMMERCIAL BUILDINGS ENCLOSING GROUP R OCCUPANCIES SHALL USE THE R-VALUES FROM THE "GROUP R" COLUMN OF TABLE C402.2. COMMERCIAL BUILDINGS OR PORTIONS OF COMMERCIAL BUILDINGS ENCLOSING OCCUPANCIES OTHER GROUP R SHALL USE THE R-VALUES FROM THE "ALL OTHER" COLUMN OF TABLE C402.2. BUILDINGS WITH A VERTICAL FENESTRATION AREA OR SKYLIGHT AREA THAT EXCEEDS THAT ALLOWED IN TABLE C402.3 SHALL COMPLY WITH THE BUILDING ENVELOPE PROVISIONS ASHRAE 90.1-2010, AS AMENDED BY APPENDIX A

C402.1.2 U-FACTOR ALTERNATIVE AN ASSEMBLY WITH A U-FACTOR, C-FACTOR, OF F-FACTOR EQUAL OR LESS THAN THAT SPECIFIED IN TABLES C402.1.2 SHALL BE PERMITTED AS AN ALTERNATIVE TO THE R-VALUE IN TABLE C402.2. COMMERCIAL BUILDINGS OR PORTIONS OF COMMERCIAL BUILDINGS ENCLOSING GROUP R OCCUPANCIES SHALL USE THE U-FACTOR, C-FACTOR, OR F-FACTOR FROM THE "GROUP R" COLUMN OF TABLE C402.1.2. COMMERCIAL BUILDINGS OR PORTIONS OF COMMERCIAL BUILDINGS ENCLOSING OCCUPANCIES OTHER THAN GROUP R SHALL USE THE U-FACTOR, C-FACTOR OR F-FACTOR FROM THE "ALL OTHER" COLUMN OF TABLE

C402.2 SPECIFIC INSULATION REQUIREMENTS (PRESCRIPTIVE OPAQUE ASSEMBLIES SHALL COMPLY WITH TABLE C402.2. WHERE TWO OR MORE LAYERS OF CONTINUOUS INSULATION BOARD ARE USED IN A CONSTRUCTION ASSEMBLY, THE CONTINUOUS INSULATION BOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION C303.2. IF THE CONTINUOUS INSULATION BOARD MANUFACTURER'S INSTALLATION INSTRUCTIONS DO NOT ADDRESS INSTALLATION OF TWO OR MORE LAYERS, THE EDGE JOINTS BETWEEN EACH LAYER OF CONTINUOUS INSULATION BOARDS SHALL BE STAGGERED.

THE MINIMUM THERMAL RESISTANCE R-VALUE OF THE INSULATING MATERIAL INSTALLED EITHER BETWEEN THE ROOF FRAMING OR CONTINUOUSLY ON THE ROOF ASSEMBLY SHALL BE AS SPECIFIED IN TABLE C402.2, BASED ON CONSTRUCTION MATERIALS USED IN THE ROOF ASSEMBLY. SKYLIGHT CURBS SHALL BE INSULATED TO THE R-VALUE OF ROOFS WITH INSULATION ENTIRELY ABOVE DECK OR R-5, WHICHEVER IS LESS.

CONTINUOUSLY INSULATED ROOF ASSEMBLIES WHERE THE THICKNESS OF INSULATION VARIES INCH (25 mm) OR LESS AND WHERE THE AREA-WEIGHTED U-FACTOR IS EQUIVALENT TO THE SAME ASSEMBLY WITH THE R-VALUE SPECIFIED IN TABLE C402.2.

UNIT SKYLIGHT CURBS INCLUDED AS A COMPONENT OF AN NFRC 100 RATED ASSEMBLY SHALL

NOT BE REQUIRED TO BE INSULATED. INSULATION INSTALLED ON A SUSPENDED CEILING WITH REMOVABLE CEILING TILE SHALL NOT BE CONSIDERED PART OF THE MINIMUM THERMAL RESISTANCE OF THE ROOF INSULATION.

C402.2.1.1 ROOF SOLAR REFLECTANCE AND THERMAL EMITTANCE LOW-SLOPED ROOFS, WITH A SLOPE LESS THAN 2 UNITS VERTICAL IN 12 HORIZONTAL, DIRECTLY ABOVE COOLED CONDITIONED SPACES IN CLIMATE ZONE 1,2, AND 3 SHALL COMPLY WITH ONE OR MORE OF THE OPTIONS IN TABLE C402.2.1.1

EXCEPTIONS: THE FOLLOWING ROOFS AND PORTIONS OF ROOFS ARE EXEMPT FROM THE REQUIREMENTS IN TABLE C402.2.1.1:

1. PORTIONS OF ROOFS THAT INCLUDE OR ARE COVERED BY:

1.1 PHOTOVOLTAIC SYSTEMS OR COMPONENTS 1.2 SOLAR AIR OR WATER HEATING SYSTEMS OR COMPONENTS

1.3 ROOF GARDENS OR LANDSCAPED ROOFS

1.4 ABOVE-ROOF DECKS OR WALKWAYS

1.6 HVAC SYSTEMS, COMPONENTS, AND OTHER OPAQUE OBJECTS MOUNTED ABOVE THE ROOF

2. PORTIONS OF ROOFS SHADED DURING THE PEAK SUN ANGLE ON THE SUMMER SOLSTICE BY PERMANENT FEATURES OF THE BUILDING, OR BY PERMANENT FEATURES OF ADJACENT BUILDINGS. 3. PORTIONS OF ROOFS THAT ARE BALLASTED WITH A MINIMUM STONE BALLAST OF 17 POUNDS PER SQUARE FOOT (psf) (74 kg/m^2) OR 23 psf (117 kg/m^2) PAVERS.

4. ROOFS WERE A MINIMUM OF 75 PERCENT OF THE ROOF AREA MEETS A MINIMUM OF ONE OF THE EXCEPTIONS ABOVE.

C402.3 FENESTRATION (PRESCRIPTIVE): FENESTRATION SHALL COMPLY WITH TABLE C402.3 AUTOMATIC DAYLIGHTING CONTROLS SPECIFIED BY THIS SECTION SHALL COMPLY WITH SECTION C405.2.2.3.2

A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE. THE AIR BARRIERS SHALL BE PERMITTED TO BE LOCATED ON THE INSIDE OR OUTSIDE OF THE BUILDING ENVELOPE. LOCATED WITHIN THE ASSEMBLIES COMPOSING THE ENVELOPE. OR ANY COMBINATION THEREOF. THE AIR BARRIER SHALL COMPLY WITH SECTIONS C402.4.1.1 AND C402.4.1.2.

EXCEPTION: AIR BARRIERS ARE NOT REQUIRED IN BUILDINGS LOCATED IN CLIMATE ZONES 1.2 AND 3.

C402.4.1.1 AIR BARRIER CONSTRUCTION

THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING: 1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES. 2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACE AND CHANGES IN MATERIALS. AIR BARRIER PENETRATIONS SHALL BE SEALED IN

ACCORDANCE WITH SECTION C402.4.2. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE. LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND. STACK EFFECT AND MECHANICAL VENTILATION.

3. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.4.8 WHERE SIMILAR OBJECTS ARE INSTALLED WHICH PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER. EXCEPTION: BUILDINGS THAT COMPLY WITH SECTION C402.4.1.2.3 ARE NOT REQUIRED TO

COMPLY WITH ITEMS 1 AND 3.

C402.4.1.2 AIR BARRIER COMPLIANCE OPTIONS: A CONTINUOUS AIR BARRIER FOR THE OPAQUE BUILDING ENVELOPE SHALL COMPLY WITH SECTION C402.4.1.2.1, C402.4.1.2.2, OR C402.4.1.2.3.

C402.4.1.2.1 MATERIALS MATERIALS WITH AN AIR PERMEABILITY NO GREATER THAN 0.004 CFM/FT2 (0.02L/S.M2) UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE (W.G) (75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E 2178 SHALL COMPLY WITH THIS SECTION. MATERIALS IN ITEMS 1 THROUGH 15 SHALL BE DEEMED TO COMPLY WITH THIS SECTION PROVIDED JOINTS ARE SEALED AND MATERIALS ARE INSTALLED AS AIR BARRIER IN ACCORDANCE WITH THE MANUFACTURE'S INSTRUCTIONS.

1. PLYWOOD WITH A THICKNESS OF NOT LESS THAN 3/2 INCH (10mm) 2. ORIENTED STRAND BOARD HAVING A THICKNESS OF NOT LESS THAN 3/4 INCH (10mm) 3. EXTRUDED POLYSTYRENE INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2 INCH

4. FOIL-BACK POLYISOCYANURATE INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN ½ INCH (12mm) 5. CLOSED CELL

C403.1 GENERAL.

MECHANIACL SYSTEMS AND EQUIPEMENT SERVING THE BUILDIGN HEATING, COOLING OR VENTING NEEDS SHALL COMPLY WITH SECTIONS C403.2.1, C403.2.3, C403.2.5, C403.2.7, AND C403.2.8, C403.2.9, AND C403.2.11 (REFERED TO AS MANDATORY PROVISIONS) AND EITHER:

1. SECTION C403.3 (SIMPLE SYSTEMS); OR

2. SECTION C403.3 (COMPLEX SYSTEMS).

C404.2 PROVISIONS APPLICABLE TO ALL MACHNICAL SYSTEMS (MANDATORY)

MECHANIACL SYSTEMS AND EQUIPEMENT SERVING THE BUILDIGN HEATING, COOLING OR VENTING NEEDS SHALL COMPLY WITH SECTIONS C403.2.1, C403.2.3, C403.2.5, C403.2.7, C403.2.8, C403.2.9, AND C403.2.11.

C403.2.1 CALCULATION OF HEATING AND COOLING LOAD

DESIGN LOADS SHALL BE DETERMINED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN ANSI/ASHRAE/ACCA STANDARD 183.

THE DESIGN LOAD SHALL ACCOUNT FOR BUILDING ENVELOPE, LIGHTING, VENTILATION AND OCCUPANCY LOADS BASED ON PROJECT DESIGN. HEATING AND COOLING LOADS SHALL BE ADJUSTED TO ACCOUNT FOR LOAD REDUCTIONS THAT ARE ACHIEVED WHERE ENERGY RECOVERY SYSTEMS ARE UTILIZED IN THE HVAC SYSTEM IN ACCORDANCE WITH THE ASHRAE HVAC SYSTEMS AND EQUIPMENT HANDBOOK. ALTERNATIVELY, DESIGN LOADS SHALL BE DETERMINED BY AN APPROVED EQUIVALENT COMPUTATION PROCEDURE. USING THE DESIGN PARAMETERS SPECIFIED IN CHAPTER 3.

C403.2.2 EQUIPMENT AND SYSTEM SIZING. THE OUTPUT CAPACITY OF HEATING AND COOLING EQUIPMENT AND SYSTEMS SHALL NOT EXCEED THE LOADS CALCULATED IN ACCORDANCE WITH SECTION C403.2.1. A SINGLE PIECE OF EQUIPMENT PROVIDING BOTH HEATING AND COOLING SHALL SATISFY THIS PROVISION FOR ONE FUNCTION WITH THE CAPACITY FOR THE OTHER FUNCTION AS SMALL AS POSSIBLE, WITHIN THE AVAILABLE EQUIPMENT OPTIONS.

1. REQUIRED STANBY EQUIPMENT AND SYSTEMS PROVIDED WITH CONTROLS AND DEVICES THAT ALLOW SUCH SYSTEMS OR EQUIPMENT TO OPERATE AUTOMATICALLY ONLY WHEN THE PRIMARY EQUIPMENT IS

2. MULTIPLE UNITS OF THE SAME EQUIPMENT TYPE WITH COMBINED CAPACITIES EXCEEDING THE DESIGN LOAD AND PROVIDED WITH CONTROLS THAT HAVE THE CAPABILITY TO SEQUENCE THE OPERATION OF EACH UNIT BASED ON LOAD.

C403.2.3 HVAC EQUIPMENT PERFORMANCE REQUIREMENT

EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C403.2.3 (1), 403.2.3(2), C403.2.3 (3), C403.2.3 (4), C403.2.3 (5), C403.2.3 (6), C403.2.3 (7), AND C403.2.3 (8) WHEN TESTED AND RATED IN ACCORDANCE WITH THE APPICABLE TEST PROCEDURE. PLATE-TYPE LIQUID-TO-LIQUID HEAT EXCHANGERS SHALL MEET THE MAXIMUM REQUIRMENTS OF THE TABLE C403.2.3 (9). THE EFFICENCY SHALL BE VERIFIED THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM OR, IF NO CERTIFICATION PROGRAM EXISTS, THE EQUIPMENT EFFICENCY RATINGS SHALL BE SUPPORTED BY DATA FURNISHED BY THE MANUFACTURER. WHERE MULTIPLE RATING CONDITIONS OR PERFORMANCE REQUIREMENTS ARE PROVIDED, THE EQUIPMENT SHALL SATISFY ALL STATED REQUIRMENTS. WHERE COMPONENTS, SUCH AS INDOORS AND OUTDOOR COILS, FROM DIFFERENT MANUFACTURES ARE USED CALCULATIONS AND SUPPORTING DATA SHALL BE FURNISHED BY THE DESIGNER THAT DEMONSTRATES THAT THE COMBINED EFFICENCY OF THE SPECIFIED COMPONENTS MEETS THE REQUIREMENTS HEREIN.

C403.2.4.1 THERMOSTATIC CONTROLS.

THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMERATURE WITHIN THE ZONE. WHERE THE HUMIDIFICATION OR DEHUMIDIFCATION OR BOTH IS PROVIDED, AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

EXCEPTIONS: INDEPENDENT PERIMETER SYSTEMS THAT ARE DESIGNED TO OFFSET ONLY BUILDING ENVELOPE HEAT LOOSES OR GAINS OR BOTH SERVICING ONE OR MORE PERIMETER ZONES ALSO SERVED BY AN INTERIOR SYSTEM PROVIDED:

1. THE PERIMETER SYSTEM INCLUDES AT LEAST ONE THERMOSTATIC CONTROL ZONE FOR EACH BUILDING EXPOSURE HAVING EXTERIOR-WALLS FACING ONLY ONE ORIENTATION (WITHIN +/-45 DEGREES) (0.8 RAD) FOR MORE THAT 50 CONTIGUOUS FEET (15 240mm); AND

2. THE PERIMETER SYSTEM HEATING AND COOLING SUPPLY IS CONTROLLED BY THERMOSTATS LOCATED WITHIN THE ZONES SERVED BY THE SYSTEM

C403.2.4.1.1 HEAT PUMP SUPPLEMENTARY SYSTEMS

HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST PREVENT SUPPLEMENTARY HEAT OPERATION WHERE THE HEAT PUMP CAN MEET THE HEATING LOAD.

C403.2.4.2 SET POINT OVERLAP RESTRICTION.

WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL PROVIDE A TEMERATURE RANGE OR DEADBAND OF AT LEAST 5F (2.8°C) WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.

EXCEPTIONS: THERMOSTATS REQUIRING MANUAL CHANGEOVER BETWEEN HEATING AND COOLING MODES.

C403.2.4.3 OFF -HOURS CONTROLS

EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.

1. ZONES THAT WILL BE OPERATED CONTINUOUSLY.

2. ZONES WITH A FULL HVAC LOAD DEMAND NOT EXCEEDING 6,800 BTU/H (2 Kw) AND HAVING A READILY ACCESSIBLE MANUAL SHUTOFF SWITCH.

C403.2.4.3.1 THERMOSTATIC SETBACK CAPABILITIES

THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMERATURES DOWN TO 55°F (13°C) OR UP TO 85° (29°C).

C403.2.4.3.2 AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES

AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DEFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL SHAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS: A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS: OR AN OCCUPANCY SENSOR.

C403.2.4.3.3 OPTIMUM START CONTROLS

INDIVIDUAL HEATING AND COOLING DISTRIBUTION SYSTEMS WITH A TOTAL DESIGN SUPPLY AIR CAPSCITY EXCEEDING 10,000 cfm, SERVED BY ONE OR MORE SUPPLY FANS, SHALL HAVE OPTIMUM STARTS CONTROLS. THE CONTROL ALGORITHM SHALL, AS A MINIMUM, BE FUNCTION OF DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT AND THE AMOUNT OF TIME PRIOR TO SCHEDULE OCCUPANCY.

C403.2.4.4 SHUTOFF DAMPERS

STAIRWAYS AND SHAFT VENT DAMPERS SHALL MEET THE REQUIREMENTS OF SECTION C403.2.4.4.1. OUTDOOR AIR SUPPLY INTAKES AND EXHAUSTS MEET THE REQUIRMENTS OF SECTION C403.2.4.4.2.

C403.2.4.4.1 STAIRWAY AND SHAFT_VENT DAMPERS

STAIRWAY AND SHAFT VENTS SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS WITH A MAXIMUM LEAKAGE RATE OF 4 cfm/ft2 (20.3L/s·m2) AT 1.0 INCH WATER GAUGE (W.G.) (249 PA) WHEN TESTED IN ACCORDANCE WITH AMCA 500D, STAIRWAY AND SHAFT VENT DAMPERS SHALL BE INSTALLED WITH CONTROLS SO THAT THEY ARE CAPABLE OF AUTOMATICALLY OPENING UPON:

1. THE ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE OF BUILDING'S FIRE ALARM SYSTEM; OR 2. THE INTERRUPTION OF POWER TO THE DAMPER

C403.2.4.4.2 OUTDOORS AIR INTAKE AND EXHAUST

RELIEF DAMPERS.

OUTDOOR AIR SUPPLY AND EXHAUST OPENINGS IN THE BUILDING ENVELOPE, DUCTS, OR EQUIPMENT SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS WITH A MAXIMUM LEAKAGE RATE OF 4 cfm/ft2 (20.3L/s m2) AT 1.0 INCH WATER GUAGE (w.g.) (249 Pa) WHEN TESTED IN ACCORDANCE WITH AMCA 500D OUTDOORS AIR SUPPLY AND EXHUST MOTORIZED DAMPERS SHALL BE CONFIGURED TO CLOSE AUTOMATICALLY WHEN SYSTEMS OR SPACES SERVED ARE NOT IN USE.

1. GRAVITY (NONMOTORIZED) DAMPERS HAVING A MAXIMUM LEAKAGE RATE OF 20 cfm/ft2 (101.6 L/s • m2) AT 1.0 INCH WATER GUAGE (w.g.) (249 Pa) WHEN TESTED IN ACCORDANCE WITH AMCA 500D ARE PERMITTED TO BE USED AS FOLLOWS: 1.1 IN BUILDINGS LESS THAN THREE STORIES IN HEIGHT ABOVE GRADE FOR EXHUST AND

1.2 WHERE THE DESIGN OUTDOOR AIR INTAKE OR EXHAUST CAPACITY DOES NOT EXCEED 300 cfm (141)

GRAVITY (NONMOTORIZED) DAMPERS FOR VENTILATION AIR INTAKES SHALL BE PROTECTED FROM DIRECT EXPOSURE TO WIND.

2. GRAVITY (NONMOTORIZED) DAMPERS SAMLLER THAN 24 INCHES (610 mm) IN EITHER DIMENSION SHALL BE PERMITTED TO HAVE A LEAKAGE OF 40 cfm/ft2 (203.2 L/s) at 1.0 INCH WATER GUAGE (w.g.)(249 Pa)

3. DAMPERS ARE NOT REQUIRED FOR:

3.1 VENTILATION OR EXHAUST SYSTEMS SERVING UNCONDITIONED SPACES 3.2 EXHAUST SYSTEM SERVING TYPE 1 LITCHEN EXHAUST HOODS.

ENERGY CODE TABULAR ANALYSIS CLIMATE ZONE: 4 COUNTY: KINGS ADDRESS: 135 DECATUR STREET BROOKLYN NY

NYCECC CITATION	PROVISION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE	SUPPORTING DOCUMENTS
C405	Permanent Certificate	Permanent certificate on electrical panel	certificate provide as per code	A permanent certificate shall be posted on or in the electrical distribution panel stating insulation R-values & equipment efficiencies.	A-001 Cellar Floor PLan
C402.1 & Table C402.1.1	tnsulation R-value	Metal Frame Wall	Provide R-13 batt insulation	Shall be insulated to R-13 insulation.	A-001 Floor Plan A-002 Floor Plan
C402.1 & TABLE C405.1.1	Cellar wall	Concrete wall	Provide R-13 batt insulation	Shall be insulated to R-13	A-001 Floor Plan
C402.1.2 Table C402.1.2	U-Factor Fenestration	Windows	Provide U= 0.35	Shall Provide U= 0.35	A-002 Floor Plan A-003 Schedule
C402.1.2 & TABLE C402.1.2	U-FACTOR FENESTRATION	DOORS	PROVIDE U=0.35	SHALL PROVIDE U=0.35	A-001, A-002 FLOOR PLAN A-003 SCHEDULE
C402	Air sealing	Building envelope	Provide sealing & insulation To be Inspected Visually	The following shall be caulked, gasket, weather stripped or otherwise sealed with an air barrier material, suitable film or solid material.	A-001 Floor Plan A-002 Floor Plan A-003 Schedule
C402.1 & Table C402.4.2	and insulation	tightness & insulation	AS per R-value		
C403.2.4.1	Programmable Thermostat	Thermostats	Thermostat is provide for each system with ability to setback temperatures down to 55 deg. F, or up to 85 deg. F, is programmable for different temperature at different times of day, control based on largest zone. Initial set point to be no higher than 70 deg F in heating & 78 deg. F in cooling.	At least one thermostat is provided for each system. Thermostat shall have the ability to setback temp. down to 55 deg. F, or up to 85 deg. F. Be programmable for different temp. at different times of day, control based on largest zone. Initial setpoint to be no higher than 70 deg. F in heating & 78 deg. F in cooling.	A-001 Floor Plan A-002 Floor Plan
C404.5	Circulating hot water system	Piping Insulation	Piping insulated to R-2	Shall be insulated to R-2 minimum and and include readily accessible manual switch to turn off circulating pump when system is not in use.	A-004 Detail
C403.2.5	Mechanical Ventilation	Dampers integral to building envelope	Gravity Damper	Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.	A-001 Cellar plan
C403.2.3(5)	Equipment sizing	Gas fired water boiler	95.0 % AFUE	82% AFUE	A-001, EN-003 Cellar Plan
C405.2	Lighting Equipment	lighting fixtures	Provide minimum 100% high efficacy lighting fixtures.	A minimum of 50% of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.	EN-001, EN-002 Reflected Ceiling plan
C405.7	Electric meters	Each meters for separate dwelling units	Electrical meters provide for each dwelling units	Provision shall be made to determine the electrical energy consumed by separately metering or monitoring each dwelling unit	A-001 1st Floor plan
TABLE C405.5.2(2)	Stairway	Interior lighting power allowances for stairway	160 watts	LPA - 0.70 w/ft²	EN. 001
TABLE C404.2	GAS	GAS HOT WATER HEATER	EF = 0.63	EF = 0.67 - 0.0019 (40) = 0.594	P. 001

C403.2.4.5 SNOW MELT SYSTEM CONTROLS.

SNOW- AND ICE MELTING SYSTEMS, SUPPLIED THROUGH ENERGY SERVICE TO THE BUILDING, SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF THE SYSTEM WHEN THE PAVEMENT TEMERATURE IS ABOVE 50°F (10°C) AND NO PRECIPITATION IS FALLING AND AN AUTOMATIC OR MANUAL CONTROL THAT WILL ALLOW SHUTOFF WHEN THE OUTDOOR TEMPERATURE IS ABOVE 40°F (4°C) SO THAT THE POTENTIAL FOR OR ICE ACCUMULATION IS NEGLIGIBLE.

C403.2.5 VENTILATION.

VENTILATION, EITHER NATURAL OR MACHANICAL, SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 4 OF THE NEW YORK CITY MACHANICAL CODE. WHERE MACHANICAL VENTILATION IS PROVIDED, THE SYSTEM SHALL PROVIDE THE CAPABILITY TO REDUCE THE OUTDOOR AIR SUPPLY TO MINIMUM REQUIRED BY CHAPTER 4 OF THE NEW YORK CITY MECHANICAL CODE.

C403.2.8.1 PROTECTION OF PIPING INSULATION.

PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FOR DAMAGED, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE. EQUIPMENT MAINTAINANCE AND WIND, AND SHALL PROVIDE SHEILDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVES TAP SHALL NOT BE PERMITTED.

C403.2.9 MECHANICAL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS

MECHANICAL SYSTEMS SHALL BE COMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2.

C403.10. AIR SYSTEM DESIGN AND CONTROL

EACH HVAC SYSTEM HAVING A TOTAL FAN SYSTEM MOTOR NAMEPLATE HORSEPOWER (hp) EXCEEDING 5 HORSEPOWER (hp) (3.7 kW) SHALL MEET THE PROVISIONS OF SECTION C403.2.10.1. THROUGH C403.2.10.2.

NOTE: THIS SECTION C403.2.10 SHALL NOT BE INCLUDED IN THE "MANDATORY PROVISIONS" APPLICABLE TO ALL MECHANICAL SYSTEMS. BUT SHALL BE INCLUDED IN THE "PRESCRIPTIVE" PROVISIONS SET APPLICABLE TO SIMPLE AND COMPLEX HVAC SYSTEMS AND EQUIPMENT.

C403.2.101. ALLOWABLE FAN MOTOR HORSEPOWER.

EACH HVAC SYSTEM AT FAN SYSTEM DESIGN CONDITIONS SHALL EXCEED THE ALLOWABLES FAN SYSTEM MOTOR NAMEPLATE hp (OPTION 1) OR FAN SYSTEM bhp (OPTION 2) AS SHOWN IN TABLE C403.2.10.(1). THIS INCLUDES SUPPLY FANS, RETURN/RELIEF FANS-POWERED TERMINAL UNITS ASSOCIATED WITH SYSTEMS PROVIDING HEATING OR COOLING CAPABILITY. SINGLE ZONE VARIABLE-AIR-VOLUME SYSTEMS SHALL COMLY WITH THE CONSTANT VOLUME FAN POWER LIMITATION.

EXCEPTION: THE FOLLOWING FAN SYSTEMS ARE EXEMPTED FROM ALLOWABLE FAN FLOOR HORSEPOWER REQUIREMENT 1. HOSPITAL, VIVARIUM AND LABORATORY SYSTEM THAT UTILIZE FLOW CONTROL DEVICES ON EXHAUST AND /OR RETURN TO MAINTAIN SPACE PRESSURE RELATIONSHIPS NECESSARY FOR OCCUPANT HEALTH AND SAFETY OR ENVIRONMENTAL CONTROL SHALL BE PERMITTED TO USE VARIABLE VOLUME FAN POWER LIMITATION.

2. INDIVIDUAL EXHAUST FANS WITH MOTOR NAMEPLATE HORSEPOWER OF 1 hp OR LESS

NYCECC COMPLIANCE STATEMENT

"TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2014 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC), USING CHAPTER C4"

JAHMAL SABAHA:

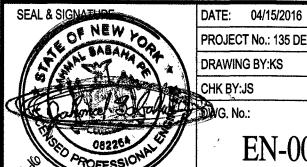
DATE:

JS CONSULTING ENGINEER 52 SAINT MARKS AVENUE, TOP FLOOR

BROOKLYN NY 11217. PHONE: 212-363-0505, FAX: 347-799-2948

135 DECATUR STREET BROOKLYN NY.

INCL: 3rd FLOOR REFLECTED CEILING PLAN, ENERGY CODE TABULAR ANALYSIS, EQUIPMENT EFFICIENCY TABLE & ENERGY COMPLIANCE NOTES

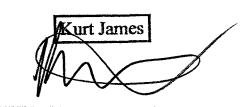


PROJECT No.: 135 DECATUR STREET DRAWING BY:KS

CHK BY:JS EN-002.00

FILE#:135DECATURST | 190F 13 DOB APPROVAL

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DIR. 2/75



DEPT. OF BUILDINGS



NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC 2014) BUILDING ADDRESS: 135 DECATUR STREET BROOKLYN NY **CLIMATE ZONE: 4** PROPOSED R-VALUE MIN. R-VALUE COMMENTS DESCRIPTION SECT. 402.1.1 CEILING SECT. 402.1.1 WALL EXTERIOR WALL PROPOSED U-FACTOR MAX. U-FACTOR COMMENTS DESCRIPTION SECT. 402.1.1 FENESTRATION **EQUIPMENT EFFICIENCY REQ'D AFUE** BOILER PROP. AFUE **NAVIEN BOILER** TABLE: 504.2 HOT WATER HEATER STATEMENT OF COMPLIANCE: THE PROPOSED BUILDING DESIGN REPRESENTED IN THESE DOCUMENTS IS CONSISTENT WITH THE

	AIR BAI	RRIER AND INS	TABLE 4 ULATION INS		MPONENT CR	ITERIA			
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁹	FLOOR R-VALUE	BASEMENT ^C WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE [©] WALL R-VALUE
4	0.35	0.60	38	13	5/109	19	10/13 ^C	10, 2ft ^d	10/13 ^C
5	0.35	0.60	38	20 or 13 + 5 ^f	13/179	30 ^e	10/13 ^C	10, 2ft ^d	10/13 ^C
		2.00		00 40 · Ef	40/47G	20e	15/10 ^C	10. 2ftd	10/13 ^C

BUILDING PLANS, SPECIFICATIONS, AND OTHER CALCULATIONS SUBMITTED WITH THE PERMIT APPLICATION. THE PROPOSED BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC

DESIGNER

JS CONSULTANTS COMPANY NAME

AIR BARRIE	TABLE 402.4.2 ER AND INSULATION INSPECTION COMPONENT CRITERIA					
COMPONENT	CRITERIA					
	Exterior thermal envelope insulation for framed walls in installed in substantial contact and continuous alignment with building envelope air barrier.					
Air barrier and thermal barrier	Breaks or joints in the air barrier are filled or repaired.					
All barrier and thermal barrier	Air-permeable insulation is not used as a sealing material.					
	Air-permeable insulation is inside of an air barrier.					
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.					
	Attic access (except unvented attic), knee wall door or drop down stair is sealed.					
Walls	Corners and header are insulated.					
vvans	Junction of foundation and sill plate is sealed					
Windows and doors	Space between window/door jambs and framing is sealed.					
Rim Joists	Rim joists are insulated and include an air barrier.					
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking.					
	Air barrier is installed at any exposed edge of insulation.					
	Insulation is permanently attached to walls.					
Crawl space walls	Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.					
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space sealed.					
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.					
Garage separation	Air sealing is provided between the garage and conditioned spaces.					
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception-fixtures in conditioned space.					
	Insulation is placed between outside and pipes.					
Plumbing and wiring	Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind pip and wiring.					
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from exterior wa					
Electrical/phone box on exterior walls	Air barrier extends behind boxes or air sealed-type boxes are installed.					
Common wall	Air barrier is installed in common wall between dwelling units.					
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.					
Fireplace	Fireplace walls include an air barrier.					

TR8: Technical Report Statement of Responsibility for Energy Code Progress Inspections

		Energy Code Progress Inspection	
Y	N	Progress Inspections	Table Reference in 1RCNY \$5000-01(h) (1)and(2)
X		Insulation placement and R values	(IA2), (IIA2)
X		Fenestration u-factor and product rating	(IA3), (IIA3)
X		Fenestration air leakage	(IA4), (IIA4)
X		Air sealing and insulation — visual	(IA6), (IIA6)
X		HVAC and service water heating equipment	(IB3), (IIB3)
X		HVAC and service water heating system controls	(IB4), (IIB4)
X		Interior lighting power	(IC2), (IIC3)
X		Lighting Control	(IIC5)
X		Maintenance information	(ID1), (IID1)
X	П	Permanent certificate	(ID2)

	Inspection/Test	Periodic (Minimum)	Reference Standard (see ECC Chapter 6) or Other Criteria	ECC or Other Citation
IIA	Envelope Inspections		<u> </u>	I
IIA2	Insulation placement and R-values: Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values Conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are	Approved construction documents	303.1, 303.1.1, 303.1.2, 502. 502.2; ASHRAE 90.1 - 5.5, 5.6 or 11; 5.8.1
IIA3	Fenestration thermal values and product ratings: U-factors and SHGC values of installed fenestration shall be visually inspected for conformance with the U-factors and SHGC values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in EXX Tables 303.1.3(1), (2) and (3). Where ASHRAE 90.1 is used, visible light transmittance values shall also be verified.	As required during installation	Approved construction documents; NFRC 100, NFRC 200	303.1, 303.1.3, 502.3; ASHRAE 90.1 - 5.5; 5.6 or 11; 5.8.2
IA4	Fenestration and door assembly product ratings for air leakage: Windows and sliding or swinging door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	502.4; ASHRAE 90.1 - 5.4.3.2
IIA6	Sealing: Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited in the approved plans.	As required during construction	Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	502.4.3, 502.4.7; ASHRAE 9 -5.4.3.1
IIB	Mechanical and Service Water Heating Inspections			
IIB3	HVAC, service water heating and pool equipment sizing and performance: Equipment sizing, efficiencies and other performance factors of all major equipment units, as determined by the applicant of record, and no less than 15% of minor equipment units, shall be verified by visual inspection and, where necessary, review of manufacturer's data. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	Approved construction documents	503.2, 504.2, 504.7; ASHRAI 90.1 - 6.3, 6.4.1, 6.4.2, 6.8; 7.4, 7.8
IIB4	service hot water system controls: No less than 20% of each type of required controls and economizers shall be verified by visual inspection and tested for functionality and proper operation. Such controls shall include, but are not limited to: Thermostatic Set point overlap restriction Off-hour Shutoff damper Snow-melt system Demand control systems Outdoor heating systems Cones Economizers Air systems Variable air volume fan Hydronic systems Heat rejection equipment fan speed Complex mechanical systems serving multiple zones Ventilation Energy recovery systems Hot gas bypass limitation Temperature Service water heating Hot water system Pool heater and time switches Exhaust hoods Radiant heating systems. Controls with seasonally dependent functionality: Controls whose complete operation cannot be demonstrated due to prevailing weather conditions typical of the season during which progress inspections will be performed shall be permitted to be signed off for the purpose of a Temporary Certificate of Occupancy with only a visual inspection, provided, however, that the progress inspector shall perform a supplemental inspection where the controls are visually inspected and tested for functionality and proper operation during the next immediate season thereafter. The owner shall provide full access to the progress inspector's request for such access to perform the progress inspection agency of any unresolved deficiencies in the installed work within 180 days of such supplemental inspection.	After installation and prior to final electrical and construction inspection, except that for controls with seasonally dependent functionality, such testing shall be performed before sign-off for issuance of a Final Certificate of Occupancy	Approved construction documents, including control system narratives; ASHRAE Guideline 1: The HVAC Commissioning Process where applicable.	504.7; ASHRAE 90.1 - 6.3, 6.4, 6.5, 6.7.2.4, 7.4.4, 7

CELLAR FLOOR ENERGY LOSS CALCULATIONS.									
LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR		
FLOOR ON GRADE	R-10 RIDGE	U 0.065	1062.8	69.08	74.6	74.6 x 57	4252.2		
WALL-BELOW GRADE	R-19 CONT.	U 0.047	1066.7	50.1	54.1	54.1 x 57	3083.7		
						TOTAL ENERGY LOSS	7335.9		

BASEMENT ENERGY LOSS CALCULATIONS.											
LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR				
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	514.53	42.19	45.57	45.57 x 57	2597.49				
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	925.47	60.16	64.97	64.97 x 57	3703.29				
FLOOR	R-19 CONT. INSULATION	0.047	1062.8	49.9	53.9	53.9 x 57	3072.3				
DOOR	U 0.350	U 0.350	40	14	15.12	15.12 x 57	861.84				
WINDOW	U 0.350	U 0.350	93.84	32.8	35.4	35.4 × 57	2017.8				
ROOF	R-38 CONT. INSULATION	U 0.030	134.2	4.03	4.35	4.35 × 57	247.95				
						TOTAL ENERGY LOSS	12500.67				

1st FLOOR ENERGY LOSS CALCULATIONS.											
	U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR					
R-13 CONT. INSULATION	0.082	490.4	40.2	43.4	43.4 x 57	2473.8					
R-10 CONT. INSULATION	0.065	1005.86	65.38	70.6	70.6 x 57	4024.2					
R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84					
U 0.350	U 0.350	40	14	15.12	15.12 x 57	861.84					
U 0.350	U 0.350	90.34	31.62	34.15	34.15 x 57	1946.55					
					TOTAL ENERGY LOSS	11992.23					
	R-13 CONT. INSULATION R-10 CONT. INSULATION R-19 CONT. INSULATION U 0.350	R-13 CONT. INSULATION 0.082 R-10 CONT. INSULATION 0.065 R-19 CONT. INSULATION 0.047 U 0.350 U 0.350	U VALUE AREA SF. R-13 CONT. INSULATION 0.082 490.4 R-10 CONT. INSULATION 0.065 1005.86 R-19 CONT. INSULATION 0.047 928.3 U 0.350 U 0.350 40	U VALUE AREA SF. U x AREA R-13 CONT. INSULATION 0.082 490.4 40.2 R-10 CONT. INSULATION 0.065 1005.86 65.38 R-19 CONT. INSULATION 0.047 928.3 43.63 U 0.350 U 0.350 40 14	U VALUE AREA SF. U x AREA X 1.08 R-13 CONT. INSULATION 0.082 490.4 40.2 43.4 R-10 CONT. INSULATION 0.065 1005.86 65.38 70.6 R-19 CONT. INSULATION 0.047 928.3 43.63 47.12 U 0.350 U 0.350 40 14 15.12	U VALUE AREA SF. U x AREA U x AREA TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72 R-13 CONT. INSULATION 0.082 490.4 40.2 43.4 43.4 x 57 R-10 CONT. INSULATION 0.065 1005.86 65.38 70.6 70.6 x 57 R-19 CONT. INSULATION 0.047 928.3 43.63 47.12 47.12 x 57 U 0.350 U 0.350 40 14 15.12 15.12 x 57 U 0.350 U 0.350 90.34 31.62 34.15 34.15 x 57					

2nd FLOOR ENERGY LOSS CALCULATIONS.											
LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR				
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	385.05	31.57	34.1	34.1 x 57	1943.7				
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	789.8	51.34	55.45	55.45 x 57	3160.65				
FLOOR	R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84				
WINDOW	U 0.350	U 0.350	116.4	40.74	44	44 x 57	2508				
						TOTAL ENERGY LOSS	10298.19				

	3rd FLO	OR EN	ERGY L	OSS CA	LCULAT	IONS.		
LOCATION U VALUE AREA SF. U x AREA U x AREA TEMPERATURE DIFFERENCE BTU/ HE x 1.08 OUTSIDE = -15 INSIDE = 72								
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	385.05	31.57	34.1	34.1 x 57	1943.7	
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	789.8	51.34	55.45	55.45 × 57	3160.65	
FLOOR	R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84	
WINDOW	U 0.350	U 0.350	57.417	20.1	21.7	21.7 x 57	1236.9	
ROOF	R-38 CONT. INSULATION	U 0.030	928.3	27.85	30.1	30.1 x 57	1715.7	
						TOTAL ENERGY LOSS	10742.79	

IIC	Electrical Power and Lighting Systems				
IIC3	Interior lighting power: Installed lighting shall be verified for compliance with the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.5; ASHRAE 90.1 – 9.1, 9.2, 9.5, 9.6; 1RCNY §101 - 07(c)(3)(v)(C)4	PR
IID	Other				INCL:
IID1	Maintenance information: Maintenance manuals for mechanical, service hot water and electrical equipment and systems requiring preventive maintenance shall be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems shall be inspected for accuracy and completeness.	Prior to sign-off or issuance of Final Certificate of Occupancy	Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of Operating and Maintenance Documentation for Building Systems	303.3, 503.2.9.3; ASHRAE 90.1 - 4.2.2.3, 6.7.2.2, 8.7.2	SEA

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ENERGY ANALYSIS FOR ALTERATION- CLIMATE ZONE 4

ITEM DESCRIPTION

PROPOSED DESIGN VALUE

CODE PRESCRIPTIVE VALUE

NAVIEN CONDENSING COMBINATION BOILER

95 % EFFECIENCY AFUE

MINIMUM 82% EFFECIENCY AFUE (TABLE C403.2.3(5))

SEAL & SIGNATURE

EN-003.00 FILE#:135DECATURST 19 OF 13

DRAWING BY:KS

PROJECT No.: 135 DECATUR STREET

DOB APPROVAL

JS CONSULTING ENGINEER
52 SAINT MARKS AVENUE, TOP FLOOR
BROOKLYN NY 11217.
PHONE: 212-363-0505, FAX: 347-799-2948

135 DECATUR STREET

BROOKLYN NY.

ENERGY LOSS CALCULATIONS

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DIR. 2/75

MAY 2 4 2016

Kurt James

DEPT. OF BUILDINGS DEDT BLOGS 221223545 Joh Number

UNIT SCHEDULE **UNIT DIMENSIONS WEIGHT** FLUE/ VENT DOMESTIC HEATING **DHW OUTPUT** AFUE % ANSI/CSA MODEL#: QUANTITY MAKE LOCATION (LBS) CAPACITY HOT WATER WxHxD 17" x 28" x 12" ANSI Z21.13b-2012/CSA-4.9b 2012 95.0 2" Ø 84 LBS 94 000 BTU/HR 82 000 BTU/HR **NAVIEN** NCB-210 CELLAR

NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC 2014) BUILDING ADDRESS: 135 DECATUR STREET BROOKLYN NY **CLIMATE ZONE: 4** PROPOSED R-VALUE MIN. R-VALUE DESCRIPTION COMMENTS SECT. 402.1.1 CEILING EXTERIOR WALL SECT. 402.1.1 13 WALL 13 PROPOSED U-FACTOR MAX. U-FACTOR DESCRIPTION COMMENTS SECT. 402.1.1 FENESTRATION 0.35 **EQUIPMENT EFFICIENCY REQ'D AFUE** BOILER PROP. AFUE

NAVIEN BOILER

A.O. SMITH

HOT WATER HEATER

STATEMENT OF COMPLIANCE: THE PROPOSED BUILDING DESIGN REPRESENTED IN THESE DOCUMENTS IS CONSISTENT WITH T BUILDING PLANS, SPECIFICATIONS, AND OTHER CALCULATIONS SUBMITTED WITH THE PERMIT APPLICATION. THE PROPOSED BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NEW YORK CITY ENERGY CONSERVATION CODE (NYCECO 2014) JS CONSULTANTS DESIGNER COMPANY NAME

TABLE: 504.2

	AIR BAI	RRIER AND INS	TABLE 4 ULATION INS		MPONENT CR	ITERIA			
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁹	FLOOR R-VALUE	BASEMENT ^C WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
4	0.35	0.60	38	13	5/10 ⁹	19	10/13 ^C	10, 2ft ^d	10/13 ^C
5	0.35	0.60	38	20 or 13 + 5 ^f	13/17 ⁹	30 ^e	10/13 ^C	10, 2ft ^d	10/13 ^C
6	0.35	0.60	38	20 or 13 + 5 ^f	13/17 ^g	30 ^e	15/19 ^C	10, 2ft ^d	10/13 ^C

AID DADDII	TABLE 402.4.2 ER AND INSULATION INSPECTION COMPONENT CRITERIA				
AIR BARRII	ER AND INSULATION INSPECTION COMPONENT CRITERIA				
COMPONENT	CRITERIA				
	Exterior thermal envelope insulation for framed walls in installed in substantial contact and continuou alignment with building envelope air barrier.				
Air barrier and thermal barrier	Breaks or joints in the air barrier are filled or repaired.				
	Air-permeable insulation is not used as a sealing material.				
	Air-permeable insulation is inside of an air barrier.				
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are seale				
	Attic access (except unvented attic), knee wall door or drop down stair is sealed.				
Walls	Comers and header are insulated.				
yana	Junction of foundation and sill plate is sealed				
Windows and doors	Space between window/door jambs and framing is sealed.				
Rim Joists	Rim joists are insulated and include an air barrier.				
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking.				
	Air barrier is installed at any exposed edge of insulation.				
Crawl space walls	Insulation is permanently attached to walls.				
Crawi space walls	Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joint taped.				
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned spacesealed.				
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.				
Garage separation	Air sealing is provided between the garage and conditioned spaces.				
Recessed lighting	Recessed tight fixtures are air tight, IC rated, and sealed to drywall. Exception-fixtures in conditioned space.				
	Insulation is placed between outside and pipes.				
Plumbing and wiring	Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind p and wiring.				
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from exterior walls				
Electrical/phone box on exterior walls	Air barrier extends behind boxes or air sealed-type boxes are installed.				
Common wall	Air barrier is installed in common wall between dwelling units.				
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.				
Fireplace	Fireplace walls include an air barrier.				

TR8: Technical Report Statement of Responsibility for Energy Code Progress Inspections

		Energy Code Progress Inspection	
Y	N	Progress Inspections	Table Reference in 1RCNY §5000-01(h) (1)and(2)
\boxtimes		Insulation placement and R values	(IA2), (IIA2)
\boxtimes		Fenestration u-factor and product rating	(IA3), (IIA3)
\boxtimes		Fenestration air leakage	(IA4), (IIA4)
\boxtimes		Air sealing and insulation — visual	(IA6), (IIA6)
\boxtimes		HVAC and service water heating equipment	(IB3), (IIB3)
\boxtimes		HVAC and service water heating system controls	(IB4), (IIB4)
\boxtimes		Interior lighting power	(IC2), (IIC3)
		Lighting Control	(IIC5)
\boxtimes		Maintenance information	(ID1), (IID1)
\boxtimes		Permanent certificate	(ID2)

	Inspection/Test	Periodic (Minimum)	Reference Standard (see ECC Chapter 6) or Other Criteria	ECC or Other Citat
IIA	Envelope Inspections			
IIA2	Insulation placement and R-values: Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values Conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are	Approved construction documents	303.1, 303.1.1, 303.1.2 502.2; ASHRAE 90.1 - 5.5, 5.6 or 11; 5.8.1
IIA3	Fenestration thermal values and product ratings: U-factors and SHGC values of installed fenestration shall be visually inspected for conformance with the U-factors and SHGC values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in EXX Tables 303.1.3(1), (2) and (3). Where ASHRAE 90.1 is used, visible light transmittance values shall also be verified.	As required during installation	Approved construction documents; NFRC 100, NFRC 200	303.1, 303.1.3, 502.3; ASHRAE 90.1 - 5.5; 5.6 or 11; 5.8.2
IIA4	Fenestration and door assembly product ratings for air leakage: Windows and sliding or swinging door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	502.4; ASHRAE 90.1 - 5.4.3.2
IIA6	Sealing: Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited in the approved plans.	As required during construction	Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	502.4.3, 502.4.7; ASHF -5.4.3.1
IIB	Mechanical and Service Water Heating Inspections			
IIB3	HVAC, service water heating and pool equipment sizing and performance: Equipment sizing, efficiencies and other performance factors of all major equipment units, as determined by the applicant of record, and no less than 15% of minor equipment units, shall be verified by visual inspection and, where necessary, review of manufacturer's data. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	Approved construction documents	503.2, 504.2, 504.7; AS 90.1 - 6.3, 6.4.1, 6.4.2, 6.8; 7.
IIB4	HVAC system controls and economizers and service hot water system controls: No less than 20% of each type of required controls and economizers shall be verified by visual inspection and tested for functionality and proper operation. Such controls shall include, but are not ilimited to: Thermostatic Set point overlap restriction Off-hour Shutoff damper Snow-melt system Demand control systems Demand control systems Outdoor heating systems Cones Economizers Air systems Variable air volume fan Hydronic systems Variable air volume fan Hydronic systems Ventilation Energy recovery systems Hot gas bypass limitation Temperature Service water heating Hot water system Pool heater and time switches Exhaust hoods Radiant heating systems. Controls with seasonally dependent functionality: Controls whose complete operation cannot be demonstrated due to prevailing weather conditions typical of the season during which progress inspections will be performed shall be permitted to be signed off for the purpose of a Temporary Certificate of Occupancy with only a visual inspection, provided, however, that the progress inspector shall perform a supplemental inspection where the controls are visually inspected and tested for functionality and proper operation during the next immediate season thereafter. The owner shall provide full access to the progress inspector's request for such access to perform the progress inspector of any unresolved deficiencies in the installed work within 180 days of such supplemental inspection.	After installation and prior to final electrical and construction inspection, except that for controls with seasonally dependent functionality, such testing shall be performed before sign-off for issuance of a Final Certificate of Occupancy	Approved construction documents, including control system narratives; ASHRAE Guideline 1: The HVAC Commissioning Process where applicable.	504.7; ASHRAE 90.1 - 6.3, 6.4, 6.5, 6.7.2.4, 7.

CELLAR FLOOR ENERGY LOSS CALCULATIONS.								
LOCATION U VALUE AREA SF. U x AREA U x AREA TEMPERATURE DIFFERENCE 8TU/ HR x 1.08 OUTSIDE = -15 INSIDE = 72								
FLOOR ON GRADE	R-10 RIDGE	U 0.065	1062.8	69.08	74.6	74.6 x 57	4252.2	
WALL-BELOW GRADE	R-19 CONT.	U 0.047	1066.7	50.1	54.1	54.1 x 57	3083.7	
						TOTAL ENERGY LOSS	7335.9	

	BASEMEN	NT ENE	RGY LO	SS CAL	CULATIO	DNS.	
LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	514.53	42.19	45.57	45.57 x 57	2597.49
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	925.47	60.16	64.97	64.97 x 57	3703.29
FLOOR	R-19 CONT. INSULATION	0.047	1062.8	49.9	53.9	53.9 x 57	3072.3
DOOR	U 0.350	U 0.350	40	14	15.12	15.12 x 57	861.84
WINDOW	U 0.350	U 0.350	93.84	32.8	35.4	35.4 x 57	2017.8
ROOF	R-38 CONT. INSULATION	U 0.030	134.2	4.03	4.35	4.35 x 57	247.95
						TOTAL ENERGY LOSS	12500.67

1st FLOOR ENERGY LOSS CALCULATIONS.										
LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR			
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	490.4	40.2	43.4	43.4 x 57	2473.8			
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	1005.86	65.38	70.6	70.6 x 57	4024.2			
FLOOR	R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84			
DOOR	U 0.350	U 0.350	40	14	15.12	15.12 x 57	861.84			
WINDOW	U 0.350	U 0.350	90.34	31.62	34.15	34.15 x 57	1946.55			
						TOTAL ENERGY LOSS	11992.23			

LOCATION		U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	385.05	31.57	34.1	34.1 x 57	1943.7
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	789.8	51.34	55.45	55.45 x 57	3160.65
FLOOR	R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84
WINDOW	U 0.350	U 0.350	116.4	40.74	44	44 x 57	2508
						TOTAL ENERGY LOSS	10298.19

	3rd FLO	OR EN	ERGY L	OSS CA	LCULAT	IONS.	
LOCATION	, , . ,	U VALUE	AREA SF.	U x AREA	U x AREA x 1.08	TEMPERATURE DIFFERENCE OUTSIDE = -15 INSIDE = 72	BTU/ HR
WALL 1-BRICK	R-13 CONT. INSULATION	0.082	385.05	31.57	34.1	34.1 x 57	1943.7
WALL 2-PARTY	R-10 CONT. INSULATION	0.065	789.8	51.34	55.45	55.45 x 57	3160.65
FLOOR	R-19 CONT. INSULATION	0.047	928.3	43.63	47.12	47.12 x 57	2685.84
WINDOW	U 0.350	U 0.350	57.417	20.1	21.7	21.7 x 57	1236.9
ROOF	R-38 CONT. INSULATION	U 0.030	928.3	27.85	30.1	30.1 x 57	1715.7
						TOTAL ENERGY LOSS	10742.79

CODE PRESCRIPTIVE VALUE

IIC | Electrical Power and Lighting Systems 505.5; ASHRAE 90.1 - 9.1, 9.2, Prior to final electrical and construction | Approved construction documents IIC3 Interior lighting power: Installed lighting shall be verified for compliance with the lighting power 9.5, 9.6; 1RCNY allowance by visual inspection of fixtures, lamps, ballasts and transformers. 07(c)(3)(v)(C)4

ENERGY ANALYSIS FOR ALTERATION- CLIMATE ZONE 4

PROPOSED DESIGN VALUE

95 % EFFECIENCY AFUE

for Building Systems

Certificate of Occupancy

| IID1 | Maintenance information: Maintenance manuals | Prior to sign-off or issuance of Final

for mechanical, service hot water and electrical

equipment and systems requiring preventive maintenance shall be reviewed for applicability to

for accuracy and completeness.

ITEM DESCRIPTION

NAVIEN CONDENSING

COMBINATION BOILER

installed equipment and systems before such manuals are provided to the owner. Labels required

for such equipment or systems shall be inspected

"135 DECATUR STREET BROOKLYN NY. ENERGY LOSS CALCULATIONS Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of 303.3, 503.2.9.3; ASHRAE 90.1 - 4.2.2.3, 6.7.2.2, 8.7.2 Operating and Maintenance Documentation

SEAL & SIGNATUR

DRAWING BY:KS CHK BY:JS

JS CONSULTING ENGINEER

52 SAINT MARKS AVENUE, TOP FLOOR BROOKLYN NY 11217. PHONE: 212-363-0505, FAX: 347-799-2948

> EN-003.00 FILE#:135DECATURST 19 OF 13

PROJECT No.: 135 DECATUR STREET

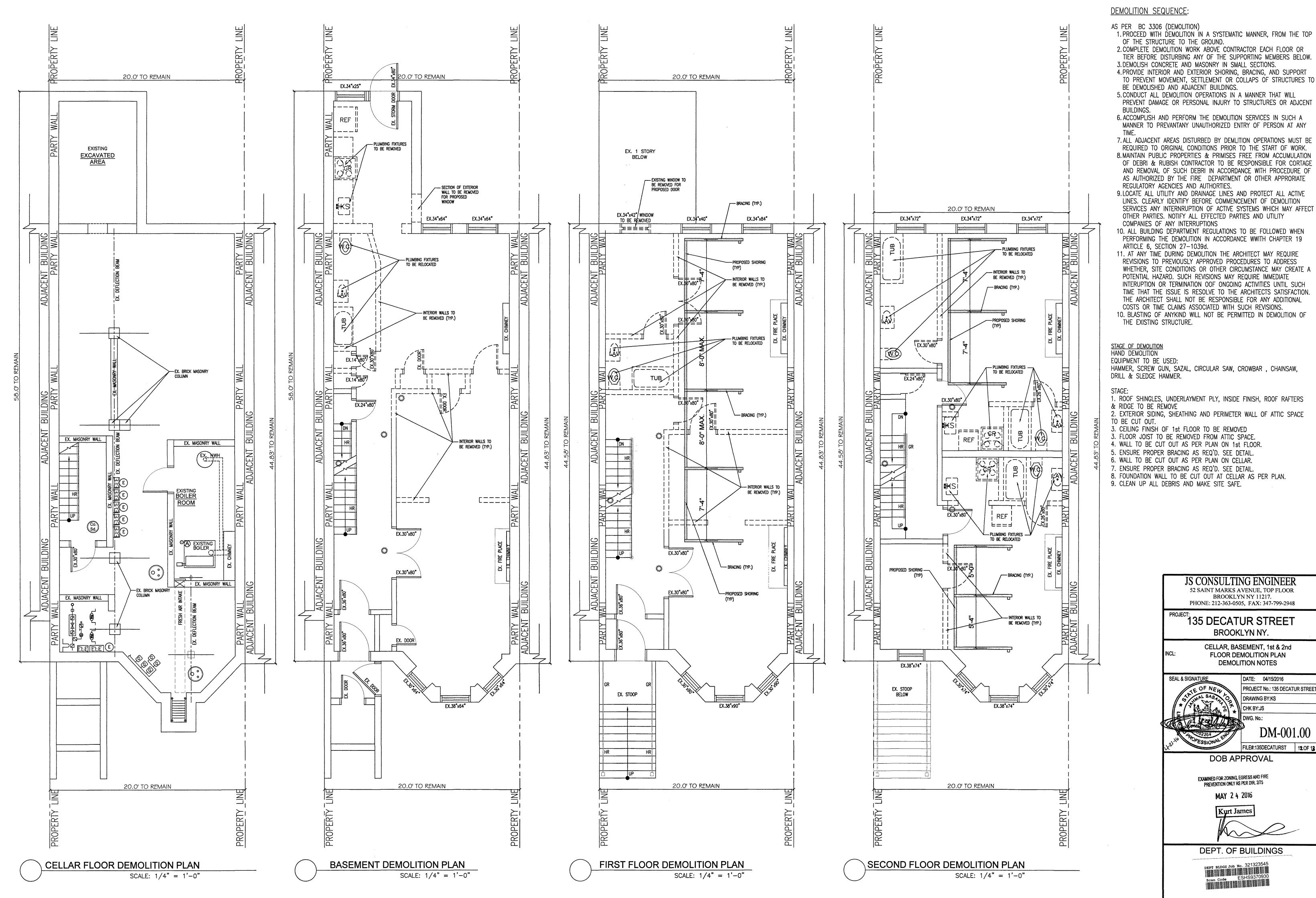
DATE: 04/15/2016

DOB APPROVAL MINIMUM 82% EFFECIENCY AFUE (TABLE C403.2.3(5))

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DIR. 2/75 MAY 2 4 2016

DEPT. OF BUILDINGS

UNIT SCHEDULE **WEIGHT UNIT DIMENSIONS DOMESTIC** FLUE/ **HEATING** LOCATION QUANTITY DHW OUTPUT ANSI/CSA AFUE % MAKE MODEL#: VENT CAPACITY HOT WATER (LBS) WxHxD 17" x 28" x 12" 94 000 BTU/HR ANSI Z21.13b-2012/CSA-4.9b 2012 95.0 2" Ø 84 LBS 82 000 BTU/HR **NAVIEN** NCB-210 **CELLAR**



1. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP

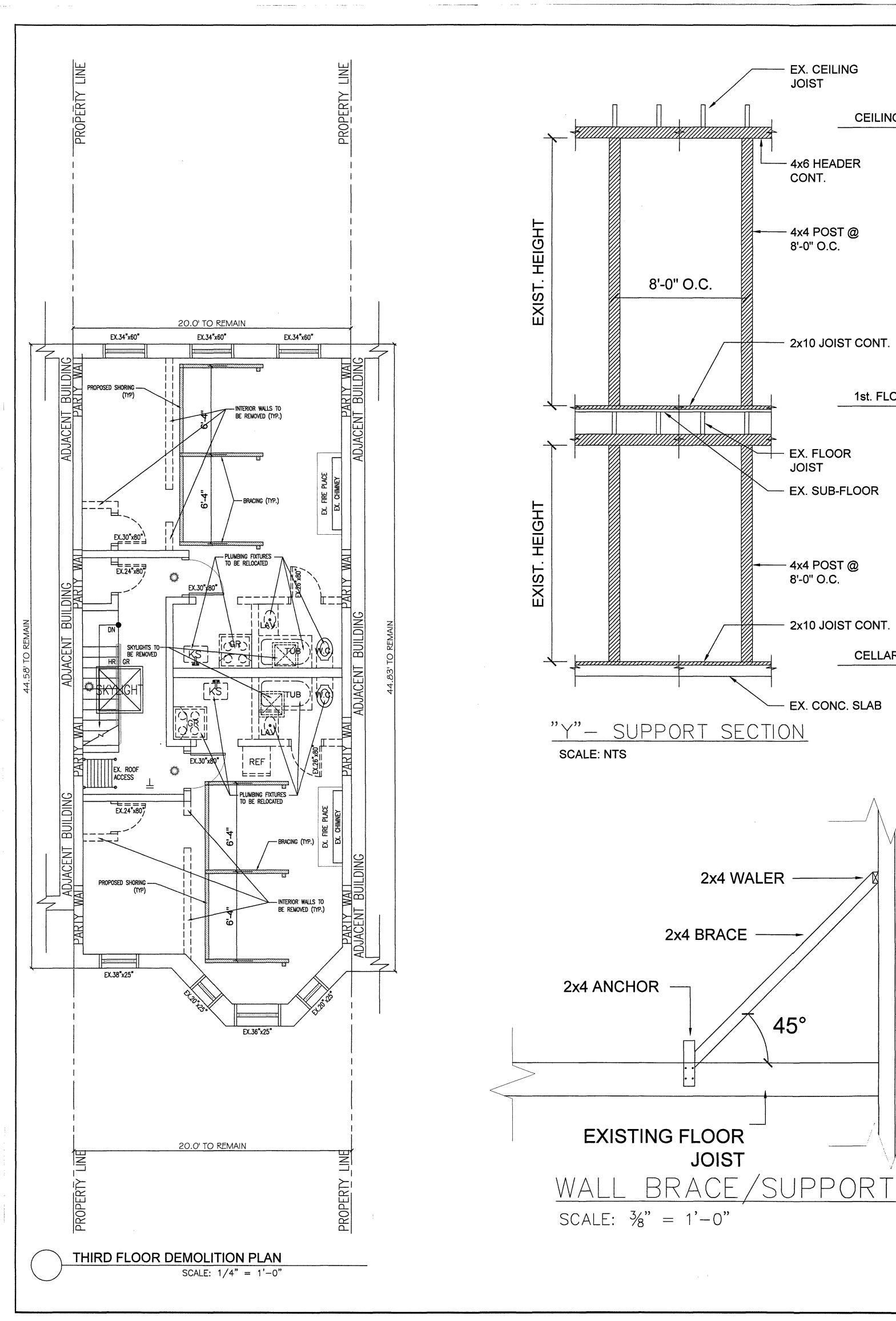
2. COMPLETE DEMOLITION WORK ABOVE CONTRACTOR EACH FLOOR OR

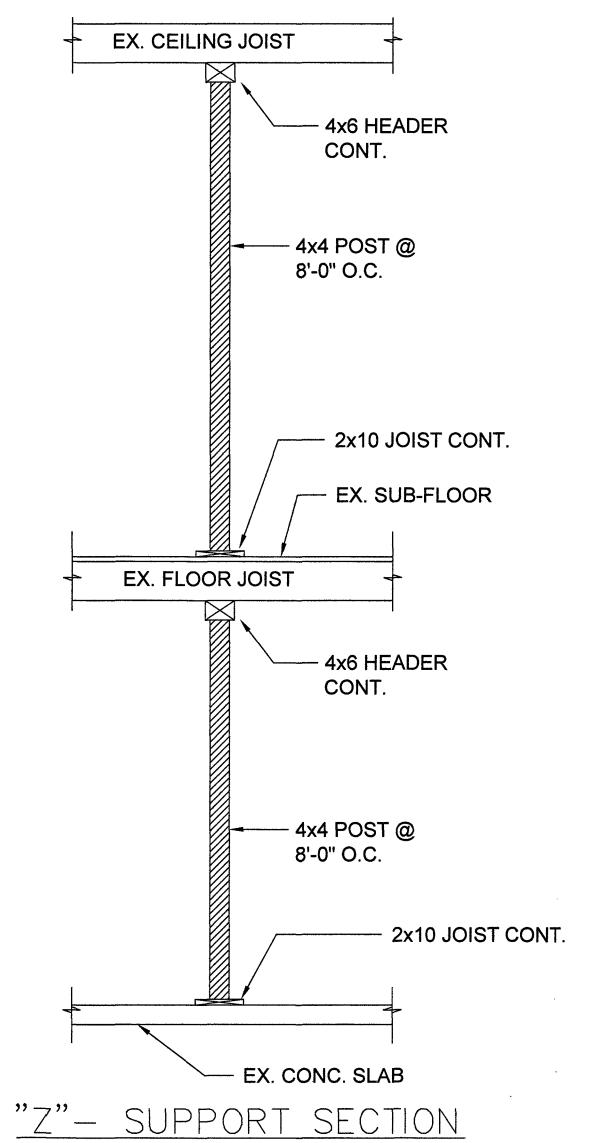
OF DEBRI & RUBISH CONTRACTOR TO BE RESPONSIBLE FOR CORTAGE AND REMOVAL OF SUCH DEBRI IN ACCORDANCE WITH PROCEDURE OF AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPRORIATE 9.LOCATE ALL UTILITY AND DRAINAGE LINES AND PROTECT ALL ACTIVE

SERVICES ANY INTERNRUPTION OF ACTIVE SYSTEMS WHICH MAY AFFECT

WHETHER, SITE CONDITIONS OR OTHER CIRCUMSTANCE MAY CREATE A TIME THAT THE ISSUE IS RESOLVE TO THE ARCHITECTS SATISFACTION.

DM-001.00 FILE#:135DECATURST 12 OF 13





SCALE: NTS

EXTERIOR WALL PARTIAL DEMO CALCULATION

*NOTE: CEILING JOIST AND FLOOR JOIST WILL REMAIN ONLY ROOF RAFTERS, RIDGE & SHINGLE WITH PLYWOOD WILL BE TAKEN OFF.

EXISTING PERIMETER WALL

CEILING

1st. FLOOR

CELLAR

5'-9"

- EXISTING

EXTERIOR

WALL

CELLAR: 58.0' + 20.0' + 44.83' + 20.0' = 142.83 FT BASEMENT: 58.0' + 20.0' + 44.83' + 20.0' = 142.83 FT 1st FLOOR: 44.58' + 20.0' + 44.83' + 20.0' = 129.41 FT 2nd FLOOR: 44.58' + 20.0' + 44.83' + 20.0' = 129.41 FT 3rd FLOOR: 44.58' + 20.0' + 44.83 + 20.0' = 129.41 FT

TOTAL EXIST. PERIMETER WALL = 673.89 FT

PERIMETER WALL TO CUT OUT

CELLAR: = 0 FT

BASEMENT: = 0 FT

1st FLOOR: = 0 FT

2nd FLOOR: = 0 FT

3rd FLOOR: = 0 FT

TOTAL WALL TO CUT OUT = 0 FT

TOTAL EXIST. WALL TO REMAIN: 673.89' - 0' = 673.89 FT

TOTAL EXIST. PERIMETER WALL TO REMAIN 673.89 > 0 FT ...ok Therefore, NO NEW BUILDING APPLICATION REQ'D.

