GENERAL NOTES

1- SCOPE OF WORK FOR 2-FAMILY DWELLING.

2- ALL WORK SHALL CONFORM TO THE REQUIREMENTS. UTILITY COMPANY REQUIREMENTS AND BEST TRADE PRACTICES.

3- BEFORE COMMENCING THE WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DOB. OBTAIN ALL REQUIRED PERMITS. & PAY ALL FEES REQUIRED BY VILLAGE OF MAMARONECK.

4- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT.

5- MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON THE DRAWINGS.

6- THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES.

7- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND FOR MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING & BRACING FOR EXCAVATIONS OR REMOVAL TASKS.

8- THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGES, INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.

9- THE CONTRACTOR SHALL LAY OUT HIS OWN WORK. AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES (PLUMBING ELECTRICAL, MECHANICAL)

10- PLUMBING/ELECTRICAL WORK SHALL BE PERFORMED BY CONTRACTOR LICENSED IN THEIR TRADES. AND WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.

11- THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS. AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

12- THE CONTRACTOR. UPON COMPLETION OF THE WORK, SHALL ARRANGE FOR DEPARTMENT OF BUILDINGS INSPECTIONS AND SIGN-OFFS AS REQUIRED. 13- CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND

REMOVAL INDICATED ON THE DRAWINGS AND AS MAY BE REQUIRED BY THE WORK. ALL WORK SHALL BE DONE CAREFULLY AND NEATLY, IN A SYSTEMATIC MANNER.

14- NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AS THE JOB PROCEEDS. THE SITE SHALL BE LEFT CLEAN AT THE COMPLETION OF THE DEMOLITION OF EXISTING BUILDING.

15- ALL ADJOINING PROPERTY AFFECTED BY ANY OPERATIONS OF DEMOLITION SHALL BE PROTECTED.

16- THE CONTRACTOR SHALL PROVIDE. ERECT AND MAINTAIN AL TEMPORARY SHORING AND BRACING AS REQUIRED BY DEPARTMENT OF BUILDINGS.

17– THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE CONSTRUCTION AND ITS CONTENTS DURING THE COURSE OF THE WORK. ALL OPENINGS IN ANY WALL SHALL BE PROTECTED FROM ALL FORMS OF WEATHER OR WATER PENETRATION.

18- THE CONTRACTOR SHALL FILE ALL NECESSARY CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS. PAY ALL FEES. OBTAIN ALL PERMITS, AND PROVIDE ANY AND ALL BONDS REQUIRED BY VILLAGE AGENCIES IN ORDER TO DO THE WORK HEREIN DESCRIBED.

19- CONTRACTOR TO PROVIDE CONSTRUCTION NOISE MITIGATION PLAN TO MANAGEMENT PRIOR TO START OF CONSTRUCTION

20- AT PROJECT COMPLETION THE ARCHITECT SHALL PROVIDE COPIES OF ALL "SIGN-OFFS" A) INDICATING COMPLETION OF FINAL SIGN-OFF B) COPIES OF PLUMBING SIGN-OFFS, AND C) COPIES OF ELECTRICAL SIGN-OFFS.

VILLAGE OF MAMARONECK-SCHEDULE OF MINIMUM REQUIREMENTS FOR RESIDENTIAL DISTRICTS

MINIMUM LOT AREA (SQUARE FEET) REQUIRED: 2,500 S.F. PER DWELLING UNIT PROVIDED: 99.4X50.0 = 4,970 S.F. - ALLOWS 2 DWELLING UNITS

MINIMUM LOT WIDTH (FEET) REQUIRED: 50 FEET PROVIDED: 50 FEET

MINIMUM LOT DEPTH (FEET) REQUIRED: 100 FEET PROVIDED: 99.4 FEET

MINIMUM HABITABLE FLOOR AREA (SQUARE FEET) REQUIRED: 900 S.F. EACH DWELLING UNIT PROVIDED: 1,739 S.F. EACH DWELLING UNITS

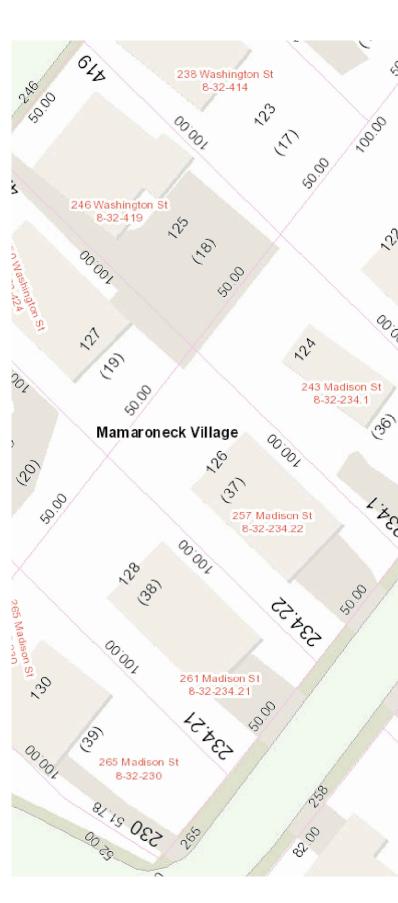
MAXIMUM HEIGHT OF PRINCIPAL BUILDING STORIES: 2/12 STORIES PROVIDED: 2 STORIES OVER CELLAR FEET 35 FEET PROPOSED: 20 FEET

MINIMUM REQUIRED YARDS 20 FEET REQUIRED; 22.71 FEET PROVIDED FRONT YARD: LESSER SIDE YARD: 6 FEET REQUIRED: 6 FEET PROVIDED 2 COMBINED YARDS: 16 FEET REQUIRED; 16 FEET PROVIDED REAR YARD: 25 FEET REQUIRED; 25 FEET PROVIDED

MAXIMUM LOT COVERAGE (ALL BUILDINGS AS PERCENTAGE OF LOT AREA) REQUIRED: 35% MAXIMUM = 0.35 X 4,970' = 1739.5 S.F. PROVIDED: $51.67' \times 34' - 17.78' = 1,739 \text{ S.F.}$

MAXIMUM FLOOR AREA RATIO REQUIRED: $0.70 = 4,970' \times 0.7 = 3,479 \text{ S.F.}$ PROVIDED: 0.70 = 3,478 S.F.

OTHER REQUIREMENTS NOTE 6: OFF-STREET PARKING - SEE ARTICLE VIII NOTE 11: ACCESSORY BUILDING - N/A, NO ACCESSORY BUILDINGS





SCHEDULE OF DRAWINGS

$\begin{array}{r} \underline{ARCHITECTURAL} \\ 1. T -101.00 \\ 2. T -102.00 \\ 3. EN-101.00 \\ 4. EN-102.00 \\ 5. EN-103.00 \\ 6. EN-103.00 \\ 6. EN-104.00 \\ 7. A -201.00 \\ 8. A -202.00 \\ 9. A -203.00 \\ 10. A -204.00 \\ 10. A -204.00 \\ 11. A -301.00 \\ 12. A -401.00 \\ 13. A -501.00 \\ 14. A -601.00 \\ 15. A -602.00 \\ 16. A -603.00 \\ 17. A -701.00 \\ 18. A -801.00 \\ \end{array}$	GENERAL NOTES, ZON EXISTING & PROPOSED F ENERGY NOTES ENERGY NOTES ENERGY AREA CALCUL RESCHECK CELLAR/SITE PLAN & 1ST FLOOR PLAN & 2ND FLOOR PLAN & ROOF PLAN & REFLE BUILDING ELEVATIONS BUILDING SECTIONS EXTERIOR WALL AND WALL TYPES AND DET DOOR SCHEDULE AND WINDOW SCHEDULE A STAIR SECTION AND E HANDICAP DETAILS
<u>STRUCTURAL</u> 19. S -101.00 20. S -102.00 21. S -103.00 22. S -104.00	STRUCTURAL NOTES STRUCTURAL FOUNDAT STRUCTURAL PLAN – STRUCTURAL DETAILS
<u>MECHANICAL –</u> 23. M –101.00 24. M –102.00 25. M –103.00 26. M –104.00	

LUMBING	
7. P -101.00	PLUMBING NOTES
8. P -102.00	PLUMBING PLANS
9. P -103.00	PLUMBING PLANS
0. P -104.00	WATER AND SANITAR
1. P -105.00	GAS AND STORM WA

<u>SPRINKLER</u> NONE

ELECT	RICAL		
32. E	-101.00	ELECTRICAL	NOTES
33. E	-102.00	ELECTRICAL	PLANS
34. E	-103.00	ELECTRICAL	PLANS
35. E	-104.00	ELECTRICAL	RISER

APPLICATION NOTES

- APPLICATION FILED FOR NEW 2-FAMILY BUILDING - EXISTING 1-FAMILY BUILDING TO BE DEMOLISHED
- CONSTRUCTION TYPE III
- ENERGY CONSERVATION CONSTRUCTION CODE 2020 EDITION

NEW CO REQUIRED

WORK UNDER THIS APPLICATION

- GENERAL CONSTRUCTION
- MECHANICAL - ELECTRICAL
- PLUMBING
- STORM WATER DETENTION/RETENTION - CURB CUTOUT

WORK TO BE FILED UNDER SEPARATE APPLICATION

- BPP - DEMOLITION
- BLASTING ROCK - REMOVE OIL TANK
- <u>§126–5 CONSTRUCTION INSPECTION</u>

A. WORK TO REMAIN ACCESSIBLE AND EXPOSED. WORK SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL INSPECTED AND ACCEPTED BY THE BUILDING INSPECTOR OR BY AN INSPECTOR AUTHORIZED BY THE CODE ENFORCEMENT OFFICER. THE PERMIT HOLDER SHALL NOTIFY THE BUILDING INSPECTOR WHEN ANY ELEMENT OF WORK DESCRIBED IN SUBSECTION B OF THIS SECTION IS READY FOR INSPECTION.

ELEMENTS OF WORK TO BE INSPECTED. THE FOLLOWING ELEMENTS OF THE CONSTRUCTION PROCESS SHALL BE INSPECTED, WHERE **APPLICABLE:**

1. WORK SITE PRIOR TO THE ISSUANCE OF A BUILDING PERMIT;

- 2. FOOTING AND FOUNDATION;

4. FRAMING;

243 MADISON ST. MAMARONECK, NY 10543

5. BUILDING SYSTEMS, INCLUDING UNDERGROUND AND ROUGH-IN;

- 6. FIRE-RESISTANT CONSTRUCTION:
- 7. FIRE-RESISTANT PENETRATIONS:
- 8. SOLID-FUEL-BURNING HEATING APPLIANCES, CHIMNEYS, FLUES OR GAS VENTS:
- 9. ENERGY CODE COMPLIANCE: AND
- 10. A FINAL INSPECTION AFTER ALL WORK AUTHORIZED BY THE BUILDING PERMIT HAS BEEN COMPLETED.

INSPECTION RESULTS. AFTER INSPECTION, THE WORK OR A PORTION THEREOF SHALL BE NOTED AS SATISFACTORY AS COMPLETED, OR THE PERMIT HOLDER SHALL BE NOTIFIED AS TO WHERE THE WORK FAILS TO COMPLY WITH THE UNIFORM CODE OR ENERGY CODE. WORK NOT IN COMPLIANCE WITH ANY APPLICABLE PROVISION OF THE UNIFORM CODE OR ENERGY CODE SHALL REMAIN EXPOSED UNTIL SUCH WORK SHALL HAVE BEEN BROUGHT INTO COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF THE UNIFORM CODE AND THE ENERGY CODE, RE-INSPECTED, AND FOUND SATISFACTORY AS COMPLETED.

D. FEE. THE FEE SPECIFIED IN CHAPTER A347 OF THIS CODE MUST BE PAID PRIOR TO OR AT THE TIME OF EACH INSPECTION PERFORMED PURSUANT TO THIS SECTION.

126-7. CERTIFICATES OF OCCUPANCY CERTIFICATES OF COMPLIANCE

CERTIFICATES OF OCCUPANCY OR CERTIFICATES OF COMPLIANCE REQUIRED. A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE SHALL BE REQUIRED FOR ANY WORK WHICH IS THE SUBJECT OF A BUILDING PERMIT AND FOR ALL STRUCTURES, BUILDINGS, OR PORTIONS THEREOF, WHICH ARE CONVERTED FROM ONE USE OR OCCUPANCY CLASSIFICATION OR SUB-CLASSIFICATION TO ANOTHER. PERMISSION TO USE OR OCCUPY A BUILDING OR STRUCTURE, OR PORTION THEREOF, FOR WHICH A BUILDING PERMIT WAS PREVIOUSLY ISSUED SHALL BE GRANTED ONLY BY ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE.

ISSUANCE OF CERTIFICATES OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE. THE BUILDING INSPECTOR SHALL ISSUE A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE IF THE WORK WHICH WAS THE SUBJECT OF THE BUILDING PERMIT WAS COMPLETED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE UNIFORM CODE AND ENERGY CODE AND, IF APPLICABLE, THE STRUCTURE, BUILDING OR PORTION THEREOF THAT WAS CONVERTED FROM ONE USE OR OCCUPANCY CLASSIFICATION OR SUBCLASSIFICATION TO ANOTHER COMPLIES WITH ALL APPLICABLE PROVISIONS OF THE UNIFORM CODE AND ENERGY CODE. THE BUILDING INSPECTOR OR AN INSPECTOR AUTHORIZED BY THE BUILDING INSPECTOR SHALL INSPECT THE BUILDING, STRUCTURE OR WORK PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE. IN ADDITION, WHERE APPLICABLE, THE FOLLOWING DOCUMENTS, PREPARED IN ACCORDANCE WITH THE PROVISIONS OF THE UNIFORM CODE BY SUCH PERSON OR PERSONS AS MAY BE DESIGNATED BY OR OTHERWISE ACCEPTABLE TO THE BUILDING INSPECTOR, AT THE EXPENSE OF THE APPLICANT FOR THE CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE, SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE:

- 1. A WRITTEN STATEMENT OF STRUCTURAL OBSERVATIONS AND/OR A FINAL REPORT OF SPECIAL INSPECTIONS; AND
- 2. FLOOD HAZARD CERTIFICATIONS.

C. CONTENTS OF CERTIFICATES OF OCCUPANCY OR CERTIFICATES OF COMPLIANCE. A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE SHALL CONTAIN THE FOLLOWING INFORMATION:

- 1. THE BUILDING PERMIT NUMBER, IF ANY:
- 2. THE DATE OF ISSUANCE OF THE BUILDING PERMIT, IF ANY;
- 3. THE NAME, ADDRESS AND TAX MAP NUMBER OF THE PROPERTY: 4. IF THE CERTIFICATE IS NOT APPLICABLE TO AN ENTIRE STRUCTURE, A DESCRIPTION OF THAT PORTION OF THE STRUCTURE FOR WHICH THE
- CERTIFICATE IS ISSUED: 5. THE USE AND OCCUPANCY CLASSIFICATION OF THE STRUCTURE;
- 6. THE TYPE OF CONSTRUCTION OF THE STRUCTURE;

ISSUANCE OF THE BUILDING PERMIT; AND

- 7. THE ASSEMBLY OCCUPANT LOAD OF THE STRUCTURE, IF ANY;
- 8. IF AN AUTOMATIC SPRINKLER SYSTEM IS PROVIDED, A NOTATION AS TO WHETHER THE SPRINKLER SYSTEM IS REQUIRED:
- 9. ANY SPECIAL CONDITIONS IMPOSED IN CONNECTION WITH THE
- 10. THE SIGNATURE OF THE BUILDING INSPECTOR ISSUING THE CERTIFICATE OF OCCUPANCY AND THE DATE OF ISSUANCE.

D. TEMPORARY CERTIFICATE. THE BUILDING INSPECTOR SHALL BE PERMITTED TO ISSUE A TEMPORARY CERTIFICATE ALLOWING THE TEMPORARY OCCUPANCY OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, PRIOR TO COMPLETION OF THE WORK WHICH IS THE SUBJECT OF A BUILDING PERMIT. HOWEVER. IN NO EVENT SHALL THE BUILDING INSPECTOR ISSUE A TEMPORARY CERTIFICATE UNLESS THE BUILDING INSPECTOR DETERMINES THAT THE BUILDING OR STRUCTURE, OR THE PORTION THEREOF COVERED BY THE TEMPORARY CERTIFICATE, MAY BE OCCUPIED SAFELY, THAT ANY FIRE- AND SMOKE-DETECTING OR FIRE PROTECTION EQUIPMENT WHICH HAS BEEN INSTALLED IS OPERATIONAL AND THAT ALL REQUIRED MEANS OF EGRESS FROM THE BUILDING OR STRUCTURE HAVE BEEN PROVIDED. THE BUILDING INSPECTOR MAY INCLUDE IN A TEMPORARY CERTIFICATE SUCH TERMS AND CONDITIONS AS HE OR SHE DEEMS NECESSARY OR APPROPRIATE TO ENSURE SAFETY OR TO FURTHER THE PURPOSES AND INTENT OF THE UNIFORM CODE. A TEMPORARY CERTIFICATE SHALL BE EFFECTIVE FOR A PERIOD OF TIME, NOT TO EXCEED SIX MONTHS, WHICH SHALL BE DETERMINED BY THE BUILDING INSPECTOR AND SPECIFIED IN THE TEMPORARY CERTIFICATE. DURING THE SPECIFIED PERIOD OF EFFECTIVENESS OF THE TEMPORARY CERTIFICATE, THE PERMIT HOLDER SHALL UNDERTAKE TO BRING THE BUILDING OR STRUCTURE INTO FULL COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF THE UNIFORM CODE AND THE ENERGY CODE.

E. REVOCATION OR SUSPENSION OF CERTIFICATES. IF THE BUILDING INSPECTOR DETERMINES THAT A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLIANCE OR A TEMPORARY CERTIFICATE WAS ISSUED IN ERROR BECAUSE OF INCORRECT, INACCURATE OR INCOMPLETE INFORMATION, AND IF THE RELEVANT DEFICIENCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE BUILDING INSPECTOR WITHIN SUCH PERIOD OF TIME AS SHALL BE SPECIFIED BY THE BUILDING INSPECTOR, THE BUILDING INSPECTOR SHALL REVOKE OR SUSPEND SUCH CERTIFICATE.

F. FEE. THE FEE SPECIFIED IN CHAPTER A347 OF THIS CODE MUST BE PAID AT THE TIME OF SUBMISSION OF AN APPLICATION FOR A CERTIFICATE OF OCCUPANCY OR FOR A TEMPORARY CERTIFICATE.

§ 278-7 REQUIRED INSPECTIONS

THERE SHALL BE THE FOLLOWING INSPECTIONS BY THE INSPECTOR OF WORK DONE PURSUANT TO PLANS AND SPECIFICATIONS APPROVED AS HEREINAFTER **PROVIDED:**

A. THE FIRST INSPECTION SHALL BE MADE WHEN ALL THE LINES OF SOIL. SEWER CONNECTION. WASTE AND VENT PIPES. WITH ALL THEIR RESPECTIVE BRANCHES. ARE IN PLACE AND BEFORE ANY WORK HAS BEEN COVERED OR CONCEALED. AT THIS INSPECTION, THE WORK SHALL BE TESTED BY THE WATER TEST IN THE PRESENCE OF THE INSPECTOR. ANY JOINT APPEARING AT THIS INSPECTION TO BE DEFECTIVE MUST BE MADE TIGHT, AND ANY DEFECTIVE PIPE THEN DISCOVERED MUST BE REPLACED BY SOUND PIPE.

NING. CODES PLOT PLAN; ZONING MAP; FLOOD PLAIN MAP

227 Madison St

MADISON

244 Madison S

8-32-189

S

243 MADISON ST.

MAMARONECK. NY

ZONE: R-4F

124

LOT:

52

e.

238 Madison St

243 Cente

8-32-

8-32-184

8-32-259

231-237 Madison St

8-32-249

ULATIONS & ENVELOPE SCHEMES

& REFLECTED CEILING PLAN REFLECTED CEILING PLAN REFLECTED CEILING PLAN ECTED CEILING PLAN

8-32-194

ROOF DETAILS ETAILS ND DETAILS AND DETAILS DETAILS

ATION & 1ST FLOOR PLANS – 2nd FLOOR & ROOF

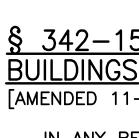
D 1ST FLOOR PLANS AND ROOF PLANS

RY RISER DIAGRAM ATER RISER DIAGRAM

& LIGHTING SCHEDULE

DIAGRAMS

- APPLICABLE CODES: NEW YORK UNIFORM BUILDING CODE AND NY STATE



B. AN INSPECTION FOR LEAKS SHALL BE MADE WHEN THE WORK IS COMPLETED.

C. IN CASE THE INSPECTOR, AT FIRST INSPECTION OR AT ANY TIME THEREAFTER, PRIOR TO THE ISSUANCE OF A CERTIFICATE BY THE INSPECTOR HEREINAFTER PROVIDED. SHALL DELIVER TO THE PLUMBER IN CHARGE OF THE WORK A WRITTEN STATEMENT OF ANY PARTICULAR OR PARTICULARS IN WHICH THE WORK VIOLATES ANY PROVISION OR PROVISIONS OF THIS CHAPTER, THERE SHALL BE SUCH INSPECTIONS IN ADDITION TO THOSE HERE IN ABOVE PROVIDED AS SHALL BE NECESSARY FOR THE INSPECTOR TO FIND OUT WHETHER THE VIOLATION HAS BEEN CURED; PROVIDED, HOWEVER, THAT SUCH INSPECTION SHALL, IF POSSIBLE, BE A PART OF THE INSPECTION SPECIFIED IN SUBSECTIONS A AND B ABOVE.

342-14 BUILDING PROJECTIONS

PROJECTING ARCHITECTURAL FEATURES (HORIZONTAL). THE SPACE IN ANY REQUIRED YARD SHALL BE OPEN AND UNOBSTRUCTED, EXCEPT FOR THE ORDINARY PROJECTION OF THE WINDOWSILLS, BAY WINDOWS, BELT COURSES, CORNICES, EAVES, EXTERIOR STAIRS AND OTHER ARCHITECTURAL FEATURES: PROVIDED, HOWEVER, THAT SUCH FEATURES SHALL NOT PROJECT MORE THAN THREE FEET INTO ANY REQUIRED YARD, BUT NOT CLOSER THAN FIVE FEET TO THE PROPERTY LINE. THE SUM TOTAL OF SUCH PROJECTIONS IN ANY ONE YARD SHALL NOT EXCEED 25% OF THE OVERALL DIMENSION OF THE WALL FROM WHICH THEY PROJECT. [AMENDED 5-10-2010 BY L.L. NO. 12-2010, EFFECTIVE 5-26-2010]

PROJECTING FEATURES ABOVE THE ROOF LEVEL. THE HEIGHT LIMITATIONS OF THIS CHAPTER SHALL NOT APPLY TO CHURCH SPIRES BELFRIES, CUPOLAS, SILOS AND DOMES NOT USED FOR HUMAN OCCUPANCY NOR TO CHIMNEYS. VENTILATORS. SKYLIGHTS. WATER TANKS BULKHEADS OR SIMILAR FEATURES AND NECESSARY MECHANICAL APPURTENANCES TO A BUILDING WHICH ARE CARRIED ABOVE THE ROOF LEVEL, EXCEPT AS SUCH MAY BE SPECIFICALLY MODIFIED BY OTHER PROVISIONS OF THIS CHAPTER. RADIO AND TELEVISION ANTENNAS AND SUPPORTING STRUCTURES NO MORE THAN 15 FEET IN HEIGHT ABOVE THE ROOF OF THE BUILDING TO WHICH THEY ARE ATTACHED SHALL BE PERMITTED: OTHER SUCH ANTENNAS AND SUPPORTING STRUCTURES SHAL BE PERMITTED ONLY IF APPROVED BY THE BOARD OF APPEALS. PARAPETS OR CORNICES USED FOR ORNAMENTATION AND WITHOUT WINDOWS MAY EXTEND ABOVE THE ROOF LEVEL NOT MORE THAN THREE FEET. ALL SUCH FEATURES, HOWEVER, SHALL BE ERECTED ONLY TO SUCH HEIGHT AS IS NECESSARY TO ACCOMPLISH THE PURPOSE THEY ARE INTENDED TO SERVE.

FENCES, WALLS OR RETAINING WALLS SHALL BE CONSTRUCTED WITH THE FINISHED SIDE FACING OUTWARD FROM THE PROPERTY, AND SHALL NOT EXCEED SIX FEET IN HEIGHT, EXCEPT: [AMENDED 5-10-2010 BY L.L. NO. 12-2010, EFFECTIVE 5-26-2010]

- 1. ON A CORNER PARCEL, PLACED BEYOND THE FRONT OR SIDE BUILDING LINES, THEY SHALL NOT EXCEED FOUR FEET IN HEIGHT
- 2. AN ADDITIONAL SIX INCHES IN HEIGHT MAY BE ALLOWED, AT THE DISCRETION OF THE BUILDING INSPECTOR, TO PROVIDE FOR NECESSARY DISTANCE BETWEEN THE GRADE AND THE BOTTOM OF THE FENCE. FOR GREATER FLEXIBILITY IN MOUNTING.
- 3. WHERE REQUIRED PURSUANT TO ARTICLE XI.
- 4. WHERE APPROVED IN CONJUNCTION WITH A SPECIAL PERMIT GRANTED UNDER ARTICLE X.

§ 342-15 UNIFORMITY OF ALIGNMENT WITH EXISTING

[AMENDED 11-28-2016 BY L.L. NO. 23-2016, EFFECTIVE 12-7-2016]

IN ANY RESIDENTIAL DISTRICT, IF, ON ONE SIDE OF A STREET WITHIN A GIVEN BLOCK AND WITHIN 150 FEET OF ANY LOT, THERE IS A PRONOUNCED UNIFORMITY OF ALIGNMENT OF THE FRONTS OF EXISTING BUILDINGS AND OF THE DEPTH OF FRONT YARDS GREATER OR LESS THAN THE DEPTHS SPECIFIED IN THE SCHEDULES OF REGULATIONS, THE FRONT YARD REQUIRED IN CONNECTION WITH ANY NEW BUILDING SHALL CONFORM AS NEARLY AS PRACTICABLE TO THOSE EXISTING ON THE ADJACENT LOTS, EXCEPT THAT NO SUCH BUILDING SHALL BE REQUIRED TO BE SET BACK FROM THE STREET A DISTANCE GREATER THAN 50 FEET.

<u>342–16 LANDSCAPING GUIDELINES</u> [AMENDED 9-9-1985 BY L.L. NO. 19-1985, EFFECTIVE 9-26-1985]

OBJECTIVE: THE OBJECTIVE OF THIS SECTION IS TO PRESERVE THE NATURAL CHARACTER OF OFF-STREET PARKING AREAS AND CERTAIN OTHER SETBACK AND YARD AREAS OF MULTIFAMILY AND NONRESIDENTIAL DEVELOPMENTS

- SPECIFIC GOALS. THE SPECIFIC GOALS OF THIS SECTION ARE:
- 1. TO PROVIDE NATURAL VISUAL SCREENING OF PARKING AREAS AND ALONG PROPERTY BOUNDARIES TO PRESERVE THE EXISTING VISUAL QUALITY OF ADJACENT LANDS.
- 2. TO REDUCE SURFACE RUNOFF AND MINIMIZE SOIL EROSION THROUGH THE NATURAL FILTERING CAPABILITY OF LANDSCAPED AREAS.
- 3. TO PROVIDE NATURAL BUFFERS THAT REDUCE GLARE AND NOISE.
- 4. TO MODERATE THE MICROCLIMATE OF PARKING AREAS BY PROVIDING SHADE, ABSORBING REFLECTED HEAT FROM PAVED SURFACES AND CREATING NATURAL WIND BREAKS.

5. TO ENHANCE THE OVERALL VISUAL QUALITY OF NEW DEVELOPMENT BY PROVIDING A VARIETY OF PLANT MATERIALS THAT ARE CONSISTENT AND COMPATIBLE WITH THE EXISTING NATURAL VEGETATION OF THE AREA.

SUBMISSION REQUIREMENTS. LANDSCAPING PLANS SHALL BE INCLUDED WITH THE PRELIMINARY SITE PLAN AND FINAL SITE PLAN SUBMISSIONS AND SHALL CONSIST OF THE FOLLOWING:

1. PRELIMINARY LANDSCAPING PLAN.

A. A GENERAL CONCEPT OF THE LANDSCAPING, BOTH IN WRITTEN AND GRAPHIC FORM.

B. A LIST OF EXISTING VEGETATION, WITH THE LOCATION, TYPE AND SIZE OF EXISTING TREES.

C. PROPOSALS TO PRESERVE AND PROTECT EXISTING VEGETATION DURING AND AFTER CONSTRUCTION.

THE LOCATION OF EXISTING NATURAL FEATURES. SUCH AS STREAMS. WETLANDS AND ROCK OUTCROPPINGS.

2. FINAL LANDSCAPING PLAN.

A. ALL PROPOSED PHYSICAL IMPROVEMENTS, SUCH AS BUILDINGS, WALLS, PARKING AREAS, SIDEWALKS, ETC.

B. PROPOSED LANDSCAPING MATERIALS, INCLUDING:

1. EXISTING VEGETATION TO REMAIN.

2. TYPES OF NEW PLANT MATERIALS, IDENTIFIED BY COMMON NAME AND BOTANICAL NAME.

3. SIZES OF ALL NEW PLANT MATERIALS BY HEIGHT AND/OR DIAMETER.

4. QUANTITIES OF EACH OF THE PLANTING MATERIALS.

5. TREATMENT OF GROUND SURFACES (PAVING, SEEDING AND GROUND COVER)

METHODS FOR CONTROLLING EROSION AND PROTECTING LANDSCAPED AREAS.

D. A GRADING AND DRAINAGE PLAN.

AN IRRIGATION PLAN OR LOCATION OF WATER OUTLETS.

342-18 EXTERIOR LIGHTING

ALL EXTERIOR LIGHTING IN MANUFACTURING, COMMERCIAL, OFFICE AND MULTIPLE RESIDENCE DISTRICTS AND IN CONNECTION WITH ALL NONRESIDENTIAL USES IN ALL OTHER RESIDENCE DISTRICTS SHALL BE OF SUCH TYPE AND LOCATION AND SHALL HAVE SUCH SHIELDING AS WILL DIRECT THE LIGHT DOWNWARD AND WILL PREVENT THE SOURCE OF THE LIGHT FROM BEING VISIBLE FROM ANY ADJACENT RESIDENTIAL PROPERTY OR STREET. "SOURCE OF LIGHT" SHALL BE DEEMED TO INCLUDE ANY TRANSPARENT OR TRANSLUCENT LIGHTING WHICH IS AN INTEGRAL PART (THE LIGHTING FIXTURE OR FIXTURES.

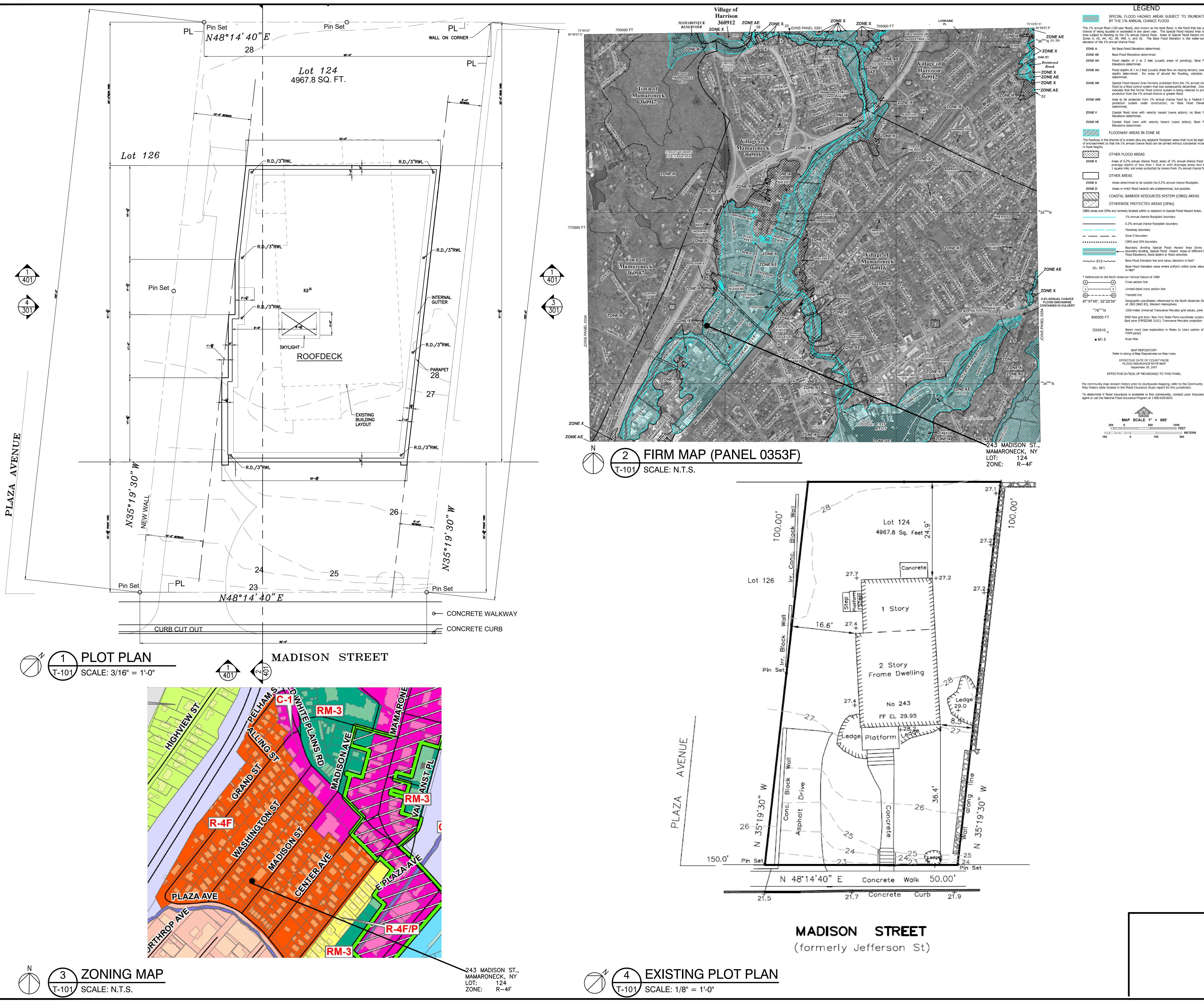
342-19 INTERPRETATION OF DISTRICT REGULATIONS

THE ACCOMPANYING SCHEDULES OF REGULATIONS[1] AND ARTICLES V, VI AND VII LIST THE PERMITTED USES OF LAND AND BUILDINGS AND THE STANDARDS AND REQUIREMENTS APPLYING TO SUCH USES FOR THE VARIOUS DISTRICTS OF THIS CHAPTER. UNLESS OTHERWISE INDICATED REQUIREMENTS SHALL BE DEEMED TO BE THE MINIMUM IN EVERY INSTANCE OF THEIR APPLICATION.



REVISIONS	
NO DATE ISSUE/	REVISION
NEW 2-F	AMILY
RESIDE	ΝΤΙΔΙ
BUIL	JING
243 MADI MAMARONEC	-
drawing title	
GENERAL	NOTES
ZONING	
B-scan job sticker	
NYC DOB IDENTIFICATION N SEAL & SIGNATURE	UMBER DATE: 9/26/19 PROJECT #:09-2019
	DRAWN BY:RU CHECK BY:AY
	dwg no. T - 101 ,00
OF NEW	SHEET 01 of 36

SHEET 01 of 36



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATIO BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface

Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually areas of ponding); Base F Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); avera depths determined. For areas of alluvial fan flooding, velocities al Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined. Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases

> Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs) CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary Floodway boundary

Boundary dividing Special Flood Hazard Area Zones and

 boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. Base Flood Elevation value where uniform within zone; elevation in fæt*

Cross section line Limited detail cross section line

Transect line

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere 1000-meter Universal Transverse Mercator grid values, zone 18N 5000-foot grid ticks: New York State Plane coordinate system, East zone (FIPSZONE 3101), Transverse Mercator projection

Bench mark (see explanation in Notes to Users section of this FIRM panel) River Mile

MAP REPOSITORY Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE -LOOD INSU ICE RATE MA

September 28, 2007 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP	SCALE 1" = 50	0'
0	500	1000
		FEET
		METERS
0	150	300

OFFICE for ARCHITECTURE, PLANNING, DESIGN, P.C. 4 Governors Court, Great Neck, N.Y. 11023 1334 East Gun Hill Road, Bronx, N.Y. 10469 Off. (516) 773-3862 Off. (718) 798-9547 Fax (516) 773-3879 Cel. (516) 967-3862 WWW.OAPDARCHITECTURE.COM

REVISIONS

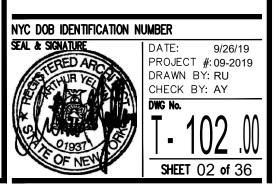
NO DATE ISSUE/REVISION

NEW 2-FAMILY RESIDENTIAL BUILDING

243 MADISON ST. MAMARONECK, NY 10543

DRAWING TITLE EXISTING & PROPOSED PLOT PLAN; ZONING MAP; FLOOD PLAIN MAP

B-SCAN JOB STICKER



020 ENERGY CONSERVATION CODE

CHAPTER R4 RESIDENTIAL ENERGY EFFICIENCY

ECTION ECC R401GENERAL

R401.1 SCOPE. THIS CHAPTER APPLIES TO RESIDENTIAL BUILDINGS.

R401.2 COMPLIANCE. PROJECTS SHALL COMPLY WITH ONE OF THE FOLLOWING:

- 1. SECTIONS R401 THROUGH R404. 2. FOR GROUP R-2 AND GROUP R-3 BUILDINGS, THE PROVISIONS OF SECTION R405 AND THE
- PROVISIONS OF SECTIONS R401 THROUGH R404 LABELED "MANDATORY." THE BUILDING ENERGY COST SHALL BE EQUAL TO OR LESS THAN 80PERCENT OF THE STANDARD REFERENCE DESIGN BUILDING.
- 3. THE PROVISIONS OF SECTION SECTION R406.

R401.3 CERTIFICATE (MANDATORY). A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM OR AN APPROVED LOCATION INSIDE THE BUILDING. WHERE LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL INDICATE THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILINGS, ROOFS, WALLS, FOUNDATION COMPONENTS SUCH AS SLABS, BASEMENT WALLS, CRAWL SPACE WALLS AND FLOORS AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS OF FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION, AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING PERFORMED ON THE BUILDING. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL INDICATE THE VALUE COVERING THE LARGEST AREA. THE CERTIFICATE SHALL INDICATE THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT, WHERE A GAS-FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE OR BASEBOARD ELECTRIC HEATER IS INSTALLED IN THE RESIDENCE, THE CERTIFICATE SHALL INDICATE "GAS-FIRED UNVENTED ROOM HEATER," "ELECTRIC FURNACE" OR "BASEBOARD ELECTRIC HEATER," AS APPROPRIATE. AN EFFICIENCY SHALL NOT BE INDICATED FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES AND ELECTRIC BASEBOARD HEATERS.

SECTION R402 BUILDING THERMAL ENVELOPE

R402.1 GENERAL (PRESCRIPTIVE)

THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS R402.1.1 THROUGH R402.1.5.

EXCEPTIONS:

- 1. THE FOLLOWING LOW-ENERGY BUILDINGS, OR PORTIONS THEREOF, SEPARATED FROM THE REMAINDER OF THE BUILDING BY BUILDING THERMAL ENVELOPE ASSEMBLIES COMPLYING WITH THIS SECTION SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION R402.
- 1.1 THOSE WITH A PEAK DESIGN RATE OF ENERGY USAGE LESS THAN 3.4 BTU/H • FT2 (10.7 W/M2) OR 1.0 WATT/FT2 OF FLOOR AREA FOR SPACE-CONDITIONING PURPOSES.
- 1.2 THOSE THAT DO NOT CONTAIN CONDITIONED SPACE.
- 2. LOG HOMES DESIGNED IN ACCORDANCE WITH ICC 400.

R402.1.1 VAPOR RETARDER

WALL ASSEMBLIES IN THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH THE VAPOR RETARDER REQUIREMENTS OF SECTION R702.7 OF THE RESIDENTIAL CODE OF NEW YORK STATE OR SECTION 1404.3 OF THE BUILDING CODE OF NEW YORK STATE, AS APPLICABLE.

R402.1.2 INSULATION AND FENESTRATION CRITERIA

THE BUILDING THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF TABLE R402.1.2, BASED ON THE CLIMATE ZONE SPECIFIED IN CHAPTER R3.

	TABLE 402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT											
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b.e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R- VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE⁰ WALL R- VALUE		
4	0.32	0.55	0.40	0.49	20+5 OR 13+5 ^h	8 / 13	19	10 / 13	10, 2 FT	10 / 13		
5	0.30	0.55	NR	0.49	20+5 OR 13+5 ^h	13 / 17	30 ^g	15 / 19	10, 2 FT	15 / 19		
6	0.30	0.55	NR	0.49	20+5 ^h OR 13+10 ^h	15 / 20	30 ^g	15 / 19	10, 4 FT	15 / 19		
NR = NOT	REQUIRED)										

FOR SI: 1 FOOT = 304.8 MM.

- a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHERE INSULATION IS INSTALLED IN A CAVITY THAT IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL BE NOT LESS THAN THE R-VALUE SPECIFIED IN THE TABLE. FPR STEEL FRAMED ASSEMBLIES SEE SECTION R402.2.6
- b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL WALL DOWN TO 10 FEET (3048 MM) BELOW GRADE OR T GLAZED FENESTRATION. c. "10/13" MEANS R-10 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 THE FLOOR OVERHEAD IS INSULATED IN ACCORDANCE CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL. "15/19" MEANS R-15 CONTINUOUS
- INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-19 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL. ALTERNATIVELY, COMPLIANCE WITH "15/19" SHALL BE R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL PLUS R-5 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME.
- R-10 INSULATION SHALL BE PROVIDED UNDER THE FULL SLAB AREA OF A HEATED SLAB IN ADDITION OF THE SLAB ON THE OUTSIDE OR INSIDE OF THE FOU TO THE REQUIRED SLAB EDGE INSULATION R-VALUE FOR SLABS. AS INDICATED IN THE TABLE. THE SLAB EDGE INSULATION FOR HEATED SLABS SHALL NOT BE REQUIRED TO EXTEND BELOW THE SLAB. INSULATION, INSULATION EXTENDING UNDER THE SLAP e. NOT USED.
- NOT USED
- g. ALTERNATIVELY, IN ALTERATION OF EXISTING BUILDINGS, INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY AND PROVIDING NOT LESS THAN AN R-VALUE OF R-19. h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION.
- THEREFORE, AS AN EXAMPLE, "13+10" MEANS R-13 CAVITY INSULATION PLUS R-10 CONTINUOUS INSULATION.
- MASS WALLS SHALL BE IN ACCORDANCE WITH SECTION R402.2.5. THE SECOND R-VALUE APPLIES WHERE MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

R402.1.3 R -VALUE COMPUTATION

INSULATION MATERIAL USED IN LAYERS, SUCH AS FRAMING CAVITY INSULATION OR CONTINUOUS INSULATION, SHALL BE SUMMED TO COMPUTE THE CORRESPONDING COMPONENT R-VALUE. THE MANUFACTURER'S SETTLED R-VALUE SHALL BE USED FOR BLOWN-IN INSULATION. COMPUTED R-VALUES SHALL NOT INCLUDE AN R-VALUE FOR OTHER BUILDING MATERIALS OR AIR FILMS. WHERE INSULATED SIDING IS USED FOR THE PURPOSE OF COMPLYING WITH THE CONTINUOUS INSULATION REQUIREMENTS OF TABLE R402.1.2, THE MANUFACTURER'S LABELED R-VALUE FOR THE INSULATED SIDING SHALL BE REDUCED BY R-0.6.

R402.1.4 U- FACTOR ALTERNATIVE

AN ASSEMBLY WITH A U-FACTOR EQUAL TO OR LESS THAN THAT SPECIFIED IN TABLE R402.1.4 SHALL BE AN ALTERNATIVE TO THE R-VALUE IN TABLE R402.1.2.

			EQUIV	ALENT U-FAC	CTORS ^a	-			
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT SKYLIGHT	CEILING R-VALUE	FRAME WALL U-FACTOR	MASS WALL U-FACTOR	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR	
4	0.32	0.55	0.26	0.060	0.098	0.047	0.059	0.065	

TABLE 402.1.4

a. NONFENESTRATION U-FACTORS SHALL BE OBTAINED FROM MEASUREMENT, CALCULATION OR AN APPROVED SOURCE. FOR STEEL-FRAMED ASSEMBLIES, SEE SECTION R402.2.6 MASS WALLS SHALL BE IN ACCORDANCE WITH SECTION R402.2.5. WHERE MORE THAN HALF THE

INSULATION IS ON THE INTERIOR, THE MASS WALL U-FACTORS SHALL NOT EXCEED 0.056.

R402.1.5 TOTAL UA ALTERNATIVE

WHERE THE TOTAL BUILDING THERMAL ENVELOPE UA, THE SUM OF U-FACTOR TIMES ASSEMBLY AREA, IS LESS THAN OR EQUAL TO THE TOTAL UA RESULTING FROM MULTIPLYING THE U-FACTORS IN TABLE R402.1.4 BY THE SAME ASSEMBLY AREA AS IN THE PROPOSED BUILDING, THE BUILDING SHALL BE CONSIDERED TO BE IN COMPLIANCE WITH TABLE R402.1.2. THE UA CALCULATION SHALL BE PERFORMED USING A METHOD CONSISTENT WITH THE ASHRAE HANDBOOK OF FUNDAMENTALS AND SHALL INCLUDE THE THERMAL BRIDGING EFFECTS OF FRAMING MATERIALS. IN ADDITION TO UA COMPLIANCE, THE SHGC REQUIREMENTS SHALL BE MET.

R402.2 SPECIFIC INSULATION REQUIREMENTS (PRESCRIPTIVE)

N ADDITION TO THE REQUIREMENTS OF SECTION R402.1, INSULATION SHALL MEET THE SPECIFIC REQUIREMENTS OF SECTIONS R402.2.1 THROUGH R402.2.13.

R402.2.1 CEILINGS WITH ATTIC SPACES

WHERE SECTION R402.1.2 REQUIRES R-38 INSULATION IN THE CEILING, INSTALLING R-30 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL SATISFY THE REQUIREMENT FOR R-38 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. WHERE SECTION R402.1.2 REQUIRES R-49 INSULATION IN THE CEILING, INSTALLING R-38 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL SATISFY THE REQUIREMENT FOR R-49 INSULATION WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-38 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.4 AND THE TOTAL UA ALTERNATIVE IN SECTION R402.1.5.

R402.2.2 CEILINGS WITHOUT ATTIC SPACES

WHERE SECTION R402.1.2 REQUIRES INSULATION R-VALUES GREATER THAN R-30 IN THE CEILING AND THE DESIGN OF THE ROOF/CEILING ASSEMBLY DOES NOT ALLOW SUFFICIENT SPACE FOR THE REQUIRED INSULATION, THE MINIMUM REQUIRED INSULATION R-VALUE FOR SUCH ROOF/CEILING ASSEMBLIES SHALL BE R-30. INSULATION SHALL EXTEND OVER THE TOP OF THE WALL PLATE TO THE OUTER EDGE OF SUCH PLATE

AND SHALL NOT BE COMPRESSED. THIS REDUCTION C R402.1.2 SHALL BE LIMITED TO 500 SQUARE FEET (46 M AREA, WHICHEVER IS LESS. THIS REDUCTION SHALL NO SECTION R402.1.4 AND THE TOTAL UA ALTERNATIVE IN S

R402.2.4 ACCESS HATCHES AND DOORS

ACCESS DOORS FROM CONDITIONED SPACES TO UNC SPACES SHALL BE WEATHERSTRIPPED AND INSULATED SURROUNDING SURFACES. ACCESS THAT PREVENTS I PROVIDED TO ALL EQUIPMENT. WHERE LOOSE-FILL INS EQUIVALENT BAFFLE OR RETAINER SHALL BE INSTALL SPILLING INTO THE LIVING SPACE WHEN THE ATTIC AC PROVIDE A PERMANENT MEANS OF MAINTAINING THE

EXCEPTION: VERTICAL DOORS PROVIDING ACCESS FRO COMPLY WITH THE FENESTRATION REQUIREMENTS OF ZONE SPECIFIED IN CHAPTER 3.

R402.2.5 MASS WALLS - N/A - NONE

R402.2.6 STEEL-FRAME CEILINGS, WALLS AND FLOORS STEEL FRAME CEILING, WALL WOOD FRAME COLD-FORMED R-VALUE REQUIREMENT STEEL TR R-30 R-3 R-38 R-: R-49 R-: STEEL JC R-38 IN 2 X 4 C R-30 R-38 R-49 IN 2 STEEL-FRAMED WAL R-13 R-13 + 4.2 OR R-21 + R-13 + 3 R-0 + 11.2 OR R-13 + 6 R-20 R-0 + 14.0 OR R-13 + 8.9 OR F R-13 + 12.7 OR R-R-20 + 5 R-0 + 14.6 OR R-13 + 9 R-21 STEEL-FRAMED WAL R-13 R-0 + 9

R-13 + 3 R-0 + 11.2 OR R-13 + 4 R-20 R-0 + 14.0 OR R-13 + 7 R-20 + 5 R-13 + 11.5 OR R-15 + 1 R-0 + 14.6 OR R-13 + 8.3 OR I R-21 STEEL R-13 R-19 R-19 IN 2 × R-19 + 6 IN 2 a. THE FIRST VALUE IS CAVITY INSULATION R-

R-VALUE. THEREFORE, FOR EXAMPLE, "R-30" CONTINUOUS INSULATION.

b. INSULATION EXCEEDING THE HEIGHT OF THE

R402.2.7 WALLS WITH PARTIAL STRUCTURAL SHEATHI

WHERE SECTION R402.1.2 REQUIRES CONTINUOUS INS SHEATHING COVERS 40 PERCENT OR LESS OF THE GR CONTINUOUS INSULATION R-VALUE SHALL BE PERMIT NOT MORE THAN R-3 TO RESULT IN A CONSISTENT TOT COVERED BY STRUCTURAL SHEATHING. THIS REDUCTI SECTION R402.1.4 AND THE TOTAL UA ALTERNATIVE IN S R402.2.8 FLOORS

FLOOR FRAMING-CAVITY INSULATION SHALL BE INSTAL UNDERSIDE OF THE SUBFLOOR DECKING.

TOPSIDE OF SHEATHING OR CONTINUOUS INSULATION WHERE COMBINED WITH INSULATION THAT MEETS OR TABLE R402.1.2 AND THAT EXTENDS FROM THE BOTTO MEMBERS.

WALLS ASSOCIATED WITH CONDITIONED BASEMENTS ASSOCIATED WITH UNCONDITIONED BASEMENTS SHAL

R402.2.10 SLAB-ON-GRADE FLOORS

SLAB-ON-GRADE FLOORS WITH A FLOOR SURFACE LES INSULATED IN ACCORDANCE WITH TABLE R402.1.2. THE SHALL BE EXTENDED THE DISTANCE PROVIDED IN TAB INSULATION EXTENDING AWAY FROM THE BUILDING SH THAN 10 INCHES (254 MM) OF SOIL. THE TOP EDGE OF WALL AND THE EDGE OF THE INTERIOR SLAB SHALL BE ANGLE AWAY FROM THE EXTERIOR WALL. SLAB-EDGE DESIGNATED BY THE BUILDING OFFICIAL AS HAVING A

R402.2.11 CRAWL SPACE WALLS - N/A - NONE

R402.2.12 MASONRY VENEER - N/A - NONE

R402.2.13 SUNROOM INSULATION - N/A - NONE

R402.3 FENESTRATION (PRESCRIPTIVE)

IN ADDITION TO THE REQUIREMENTS OF SECTION R402

THROUGH R402.3.5.

R402.3.1 U -FACTOR

AN AREA-WEIGHTED AVERAGE OF FENESTRATION PRC REQUIREMENTS.

R402.3.2 GLAZED FENESTRATION SHGC

AN AREA-WEIGHTED AVERAGE OF FENESTRATION PRO PERMITTED TO SATISFY THE SHGC REQUIREMENTS.

DYNAMIC GLAZING SHALL BE PERMITTED TO SATISFY THAT THE RATIO OF THE HIGHER TO LOWER LABELED DYNAMIC GLAZING IS AUTOMATICALLY CONTROLLED SPACE IN MULTIPLE STEPS. DYNAMIC GLAZING SHALL FENESTRATION, AND AREA-WEIGHTED AVERAGING WIT SHALL BE PROHIBITED.

EXCEPTION: DYNAMIC GLAZING SHALL NOT BE REQUIR LOWER AND HIGHER LABELED SHGC COMPLY WITH THE

R402.3.3 GLAZED FENESTRATION EXEMPTION

NOT GREATER THAN 15 SQUARE FEET (1.4 M2) OF GLAZ EXEMPT FROM THE U-FACTOR AND SHGC REQUIREME APPLY TO THE U-FACTOR ALTERNATIVE IN SECTION R4 R402.1.5.

R402.3.4 OPAQUE DOOR EXEMPTION

ONE SIDE-HINGED OPAQUE DOOR ASSEMBLY NOT GRE EXEMPT FROM THE U-FACTOR REQUIREMENT IN SECTI U-FACTOR ALTERNATIVE IN SECTION R402.1.4 AND THE

R402.3.5 SUNROOM FENESTRATION - N/A - NONE

R402.4 AIR LEAKAGE (MANDATORY)

THE BUILDING THERMAL ENVELOPE SHALL BE CONSTR REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R40.

R402.4.1 BUILDING THERMAL ENVELOPE THE BUILDING THERMAL ENVELOPE SHALL COMPLY WI

METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALL

R402.4.1.1 INSTALLATION

THE COMPONENTS OF THE BUILDING THERMAL ENVEL INSTALLED IN ACCORDANCE WITH THE MANUFACTUREF TABLE R402.4.1.1, AS APPLICABLE TO THE METHOD OF CONSTRUCTION. WHERE REQUIRED BY THE BUILDING OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE.

EXCEPTION: AS AN ALTERNATIVE, THE FLOOR FRAMIN

R402.2.9 BASEMENT WALLS

R402.2.3 EAVE BAFFLE - N/A - NONE

													-
ON OF INSULATION FROM THE REQUIREMENTS OF SECTION 46 M2) OR 20 PERCENT OF THE TOTAL INSULATED CEILING		AIR BARRIER AND INSULATION I		R402.4.5 RECESSED LIGHTING			R403.3.6 DUCTS BURIED			_			
LL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN /E IN SECTION R402.1.5.	COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA AIR-PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL. INSULATION	LEAKAGE BETWEEN CONDITIONED	IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALE AND UNCONDITIONED SPACES. RECESSED LUMINAIRES AKAGE RATE OF NOT GREATER THAN 2.0 CFM (0.944 L/S	SHALL BE IC-RATED	WHERE SUPPLY AND R SUCH DUCTS SHALL CO 1. THE SUPPLY	MPLY WITH AL					
		A CONTINUOUS AIR BARRIER SHALL BE	INSTALLED IN A CAVITY MUST UNIFORMLY FILL EACH CAVITY SIDE TO SIDE AND TOP-TO-BOTTOM WITHOUT SUBSTANTIAL	ACCORDANCE WITH ASTM E283 AT A SHALL BE SEALED WITH A GASKET (ARAGE RATE OF NOT GREATER THAN 2.0 CFM (0.944 L/S A PRESSURE DIFFERENTIAL OF 1.57 PSF (75 PA). RECESS OR CAULKED BETWEEN THE HOUSING AND THE INTERIO	SED LUMINAIRES	2. AT ALL POIN	TS ALONG EAC	DUCTS SHALL HAVE AN H DUCT, THE SUM OF T JCT, AND AGAINST AND	HE CEILING IN	SULATION R-VALUE A	GAINST AND	
	GENERAL REQUIREMENTS	INSTALLED IN THE BUILDING ENVELOPE. THE EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER.BREAKS OR	GAPS OR VOIDS AROUND OBSTRUCTIONS, AND SHALL BE SPLIT OR FITTED TIGHTLY	COVERING. R402.4.6 TENANT SEPARATION WALL	S (MANDATORY)		LESS THAN F	R-19, EXCLUDIN	IG THE R-VALUE OF THE			-	
UNCONDITIONED SPACES SUCH AS ATTICS AND CRAWL ATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE		JOINTS IN THE AIR BARRIER SHALL BE SEALED.	AROUND WIRING AND OTHER PENETRATIONS IN THE CAVITY. NOT MORE THAN 2 PERCENT OF THE TOTAL INSULATED AREA SHALL BE	FIRE SEPARATIONS BETWEEN DWEI	LING UNITS IN TWO-FAMILY DWELLINGS AND MULTIPLE		R403.3.6.1 EFFECTIVE F			SIS, SECTIONS	OF DUCTS THAT ARE	E: INSTALLED IN	
NTS DAMAGING OR COMPRESSING THE INSULATION SHALL BE L INSULATION IS INSTALLED, A WOOD-FRAMED OR FALLED TO PREVENT THE LOOSE-FILL INSULATION FROM			COMPRESSED BELOW THICKNESS REQUIRED TO ATTAIN THE LABELED R VALUE OR CONTAIN GAPS OR VOIDS IN THE INSULATION.		BE INSULATED TO NO LESS THAN R-10 AND THE WALLS		ACCORDANCE WITH SE SURROUNDED WITH BL	CTION R403.3.6 OWN-IN ATTIC I); LOCATED DIRECTLY (INSULATION HAVING AN	N, OR WITHIN R-VALUE OF F	5.5 INCHES (140 MM) (R-30 OR GREATER ANI	OF THE CEILING D LOCATED	
C ACCESS IS OPENED. THE BAFFLE OR RETAINER SHALL THE INSTALLED R-VALUE OF THE LOOSE-FILL INSULATION.			THE INSULATION IN ANY DROPPED	R402.5 MAXIMUM FENESTRATION U	FACTOR AND SHGC (MANDATORY)		SUCH THAT THE TOP O SHALL BE CONSIDERED			()		HE INSULATION	
S FROM CONDITIONED SPACES TO UNCONDITIONED SPACES S OF TABLE R402.1.2 BASED ON THE APPLICABLE CLIMATE	CEILING/ATTIC	BARRIER SHALL BE SEALED. ACCESS	CEILING/SOFFIT SHALL BE ALIGNED WITH THE AIR BARRIER.		XIMUM FENESTRATION U-FACTOR PERMITTED USING TR E 0.40 FOR VERTICAL FENESTRATION, AND 0.75 FOR SKY		R403.3.7 DUCTS LOCAT						-
		SPACES SHALL BE SEALED.	CAVITIES WITHIN CORNERS AND HEADERS OF FRAME WALLS SHALL BE INSULATED BY	R402.6 THERMAL BRIDGES (MANDAT	<u>ORY)</u>		FOR DUCTS TO BE CON OF THE FOLLOWING: 1. THE DUCT S		SIDE A CONDITIONED S	,			
	WALLS	THE JUNCTION OF THE FOUNDATION AND SILL PLATE SHALL BE SEALED. THE JUNCTION OF	COMPLETELY FILLING THE CAVITY WITH A MATERIAL HAVING A THERMAL RESISTANCE,	APPLICATIONS FOR CONSTRUCTION BRIDGES.	N DOCUMENT APPROVAL SHALL INCLUDE DOCUMENTATI	TION OF THERMAL	WITHIN THE 2. THE DUCTS	BUILDING THEF SHALL BE BURI	RMAL ENVELOPE. ED WITHIN CEILING INS	ULATION IN AC			
<u>ORS</u> - N/A - NONE TABLE 402.2.6 ALL AND FLOOR INSULATION R-VALUES	WALLS	WALLS SHALL BE SEALED. KNEE WALLS SHALL BE SEALED.	FOR FRAMED WALLS SHALL BE INSTALLED IN		DGES. WHERE OTHERWISE NOT INCLUDED IN PRE-CALC FORS OUTLINED IN APPENDEX A OF ASHRAE 90.1-2016 (A		AND ALL OF 2.1. THE	THE FOLLOWIN AIR HANDLER I	IG CONDITIONS SHALL I IS LOCATED COMPLETE	EXIST: LY WITHIN THE			
THE AND FLOOR INSULATION K-VALUES	WINDOWS,	THE SPACE BETWEEN FRAMING AND	SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER.		S CODE, CLEAR FIELD THERMAL BRIDGES IN A WALL, RO		2.2. THE	DUCT LEAKAG	NG THERMAL ENVELOP E, AS MEASURED EITHE ION TOTAL SYSTEM LEA	R BY A ROUGH			
IED STEEL-FRAME EQUIVALENT R-VALUE ^a		SKYLIGHTS, AND THE JAMBSOF WINDOWS AND DOORS, SHALL BE SEALED.	- RIM JOISTS SHALL BE INSULATED	R402.6.2 POINT THERMAL BRIDGES			ENV	ELOPE IN ACCO FPER MINUTE (ORDANCE WITH SECTIO (42.5 L/MIN) PER 100 SQ	N R403.3.4, IS I	ESS THAN OR EQUAL	L TO 1.5 CUBIC	
- TRUSS CEILINGS ^b R-38 OR R-30 + 3 OR R-26 + 5	RIM JOISTS	RIM JOISTS SHALL INCLUDE THE AIR BARRIER.	COMPLETELY FILING THE CAVITY WITH A MATERIAL HAVING THERMAL RESISTANCE, R-VALUE, OF NOT LESS THAN R-3 PER INCH.		R THAN OR EQUAL IN AREA TO 8 IN ² (5161 MM ²) AND NOT A		2.3. THE	CEILING INSUL	THE DUCT SYSTEM. ATION R-VALUE INSTAL REQUAL TO THE PROPC	-			
R-38 OR R-30 + 3 OR R-26 + 5 R-38 OR R-30 + 3 OR R-26 + 5 R-38 OR R-30 + 3 OR R-26 + 5			FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT	R402.6.3 LINEAR THERMAL BRIDGES			R-VA	LUE OF THE IN	SULATION ON THE DUC			, .	
L JOIST CEILINGS ^b 4 OR 2 X 6 OR 2 X 8 R-49 IN ANY FRAME	FLOORS, INCLUDING CANTILEVERED		CONTACT WITH THE UNDERSIDE OF SUBFLOOR DECKING. ALTERNATIVELY, FLOOR FRAMING CAVITY INSULATION SHALL BE IN	CONSTRUCTION DOCUMENTS SHAL	L INCLUDE THE FOLLOWING DOCUMENTATION IN TABUL N TABLE R402.6:	AR FORMAT FOR	R403.3.8 DUCT SYSTEM	•	<u>_</u>			EIN	
N 2 X 4 OR 2 X 6 OR 2 X 8 OR 2 X 10 WALL, 16 INCHES ON CENTER 21 + 2.8 ORR-0 + 9.3 OR R-15 + 3.8 OR R-21 + 3.1	FLOORS AND FLOORS ABOVE GARAGES	ANY EXPOSED EDGE OF INSULATION.	CONTACT WITH THE TOP SIDE OF SHEATHING, OR CONTINUOUS INSULATION INSTALLED ON THE UNDERSIDE OF FLOOR FRAMING; AND	 LINEAR THERMAL BRIDEO AGGREGATE LENGTH OF 	G TYPE. EACH TYPE OF LINEAR THERMAL BRIDGE.		ACCORDANCE WITH SE	CTION R403.7 A	AND SECTION R403.8.				
21 + 2.8 ORR-0 + 9.3 OR R-15 + 3.8 OR R-21 + 3.1 3 + 6.1 OR R-15 + 5.7 ORR-19 + 5.0 OR R-21 + 4.7 OR R-15 + 8.5 OR R-19 + 7.8 OR R-19 + 6.2 OR R-21 + 7.5			SHALL EXTEND FROM THE BOTTOM TO THE TOP OF ALL PERIMETER FLOOR FRAMING MEMBERS.	BRIDGE.	RUCTION DOCUMENTS SHOWING A CROSS-SECTION TH	HKOUGH THE THEMAL	R403.4 MECHANICAL SY			<u></u>	AN 105°E (41°C) OD 1 E	- <u>SS THAN 55°5</u>	
R R-15 + 12.3 OR R-19 + 11.6 OR R-21 + 11.3 OR R-25 + 10.9 3 + 9.5 OR R-15 + 9.1 ORR-19 + 8.4 OR R-21 + 8.1	CRAWL SPACE WALLS	EXPOSED EARTH IN UNVENTED CRAWL SPACES SHALL BE COVERED WITH A CLASS I	CRAWL SPACE INSULATION, WHERE PROVIDED INSTEAD OF FLOOR INSULATION, SHALL BE PERMANENTLY ATTACHED TO THE	EXCEPTION: WHERE LINEAR THERM	AL BRIDGES HAV BEEN TESTED OR MODELED USING ME		(13°C) SHALL BE INSULA	TED TO AN R-V	ALUE OF NOT LESS TH <u>TABLE 403</u>	AN R-3. <u>4</u>			1
OR R-25 + 7.7 WALL, 24 INCHES ON CENTER	SHAFTS,	JOINTS TAPED. DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFTS OPENING TO EXTERIOR OR	WALLS.	BY THE DEPARTMENT, ALTERNATE PROVIDED.	VALUES MAY BE USED AS LONG AS SUPPORTING DOCUM	MENTATION IS	G E E E C	INSULA	M PIPE INSULATION THI	CKNESS (IN INC	<u>CHES)^{a,c}</u> E OR TUBE SIZE 9INC⊦	HES)	
+ 9.3 OR R-13 + 3.0 OR R-15 + 2.4 3 + 4.9 OR R-15 + 4.3 ORR-19 + 3.5 OR R-21 + 3.1 3 + 7.7 OR R 15 + 7.1 ORR 10 + 6.3 OR R 21 + 5.9	PENETRATIONS	UNCONDITIONED SPACE SHALL BE SEALED.	- BATTS TO BE INSTALLED IN NARROW			P-VALUE	FLUID OPERATINC EMPERATU RANGE ANI USAGE (°F.	CONDUC CONDUCTIVITY BTLI*in //h*ft	MEAN RATING				
3 + 7.7 OR R-15 + 7.1 ORR-19 + 6.3 OR R-21 + 5.9 5 + 10.9 OR R-19 + 10.1 ORR-21 + 9.7 OR R-25 + 9.1 OR R-15 + 7.7 ORR-19 + 6.9 OR R-21 + 6.5 OR R-25 + 5.9	NARROW CAVITIES	-	CAVITIES SHALL BE CUT TO FIT OR NARROW CAVITIES SHALL BE FILLED WITH INSULATION THAT ON INSTALLATION READILY CONFORMS	,	[BTU/HR*FT*°F] , POURED-IN-PLACE CONCRETE, CONCRETE BLOCK, CUI	W/mK	— — —	F)	TEMPERATURE, ^{< 1} °F		1-1/2 TO <4 4 TO <		
EL JOIST FLOOR I 2 × 6, OR R-19 + 6 IN 2 × 8 OR 2 × 10	GARAGE SEPARATION	AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.	TO THE AVAILABLE CAVITY SPACE -	BALCONY FLOOR ^b SLAB TO GROUND	0.50 0.871 0.44 0.755 N/A N/A		350 251-350 201-250	0.32-0.34 0.29-0.32 0.27-0.30	250 4.5 200 3.0 150 2.5	5.0 4.0 2.5	5.0 5.0 4.5 4.5 2.5 3.0	5.0 4.5 3.0	
N 2 × 6, OR R-19 + 12 IN 2 × 8 OR 2 × 10 N R-VALUE, THE SECOND VALUE IS CONTINUOUS INSULATION	RECESSED	RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE	RECESSED LIGHT FIXTURES PENETRATING THE BUILDING THERMAL ENVELOPE SHALL BE AIR TIGHT AND IC RATED.	FENESTRATION PERIMETER TRANSITION [©]	N/A N/A 0.32 0.550 0.40 0.705		141-200 105-140	0.25-0.29 0.21-0.28	1251.51001.0	2.3 1.5 1.0	2.3 3.0 2.0 4.5 1.5 1.5	4.5 1.5	
R-30+3" MEANS R-30 CAVITY INSULATION PLUS R-3	PLUMBING AND		IN EXTERIOR WALLS, BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING, OR INSULATION, THAT ON	PARAPET EAVES SHELF ANGLE	0.42 0.735 N/A N/A 0.41 0.713		40-60 <40	0.21-0.27 0.25-0.26	750.5500.5	0.5 1.0	1.01.01.01.0	1.0 1.5	
F THE FRAMING SHALL COVER THE FRAMING.	PLUMBING AND WIRING	-	INSTALLATION READILY CONFORMS TO AVAILABLE SPACE, SHALL EXTEND BEHIND		0.41 0.713 , POURED-IN-PLACE CONCRETE, CONCRETE BLOCK, CUI N/A N/A	JRTAIN-WALL	FOR S1: 1 INCH=25.4MM						
S INSULATION ON EXTERIOR WALLS AND STRUCTURAL	SHOWER/TUB ON EXTERIOR	THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS	PIPING AND WIRING. EXTERIOR WALLS ADJACENT TO SHOWERS	FLOOR ^b SLAB TO GROUND	0.336 0.582 N/A N/A		SPACES, RE	DUCTION OF TH	I 1-1/2 INCHES AND LOC HESE THICKNESSES BY LEOOTNOTE b) BUT NO	1 INCH SHALL	BE PERMITTED (BEFC	ORE THICKNESS	
E GROSS AREA OF ALL EXTERIOR WALLS, THE REQUIRED MITTED TO BE REDUCED BY AN AMOUNT NECESSARY, BUT TOTAL SHEATHING THICKNESS ON AREAS OF THE WALLS	WALL ELECTRICAL/PH	SHOWER OR TUB. THE AIR BARRIER SHALL BE INSTALLED	AND TUBS SHALL BE INSULATED.	FENESTRATION PERIMETER TRANSITION [©] PARAPET	0.15 0.26 0.032 0.056		b. FOR INSULA		I FOOTNOTE b) BUT NO THE STATED CONDUCT WS:				
UCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE IN 'E IN SECTION R402.1.5.	ONE BOX ON EXTERIOR WALLS	BEHIND ELECTRICAL AND COMMUNICATION BOXES. ALTERNATIVELY, AIR-SEALED BOXES SHALL BE INSTALLED.	-	EAVES SHELF ANGLE	N/A N/A 0.186 0.322		T=r[(1+t/r) ^{K/k·} WHERE:]					
	HVAC REGISTER	HVAC SUPPLY AND RETURN REGISTER BOOTS THAT PENETRATE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE	_	THERMAL BRIDGING GUI	FROM ASHRAE RESEACH PROJECT 1365 AND BC BUILDI DE VERSION 1.2- SEPTEMBER 2018, AND ARE BASED ON I		r=ACTUAL O	NSULATION TH JTSIDE RADIUS N THICKNESS L		R APPLICABL	E FLUID TEMPERATUR	RE AND PIPE	
STALLED TO MAINTAIN PERMANENT CONTACT WITH THE	BOOTS	SUBFLOOR, WALL COVERING OR CEILING PENETRATED BY THE BOOT.		DETAILS. b. THIS VALUE IS FOR AN IN FOR ALL BUILDINGS.	TERMEDIATE FLOOR. GROUND TO SLAB THERMAL BRIDO	OGING S APPLICABLE	SIZE K= CONDUC	IVITY OF ALTE	RNATE MATERIAL AT M	EAN RATING T	EMPERATURE INDICA	TED FOR THE	
MING-CAVITY INSULATION SHALL BE IN CONTACT WITH THE		WHERE REQUIRED TO BE SEALED, CONCEALED FIRE SPRINKLERS SHALL ONLY BE SEALED IN A MANNER THAT IS		c. FENESTRATION PERIMET FRAME AND THE TYPICAL	ER TRANSITION IS THE THERMAL BRIDGE BETWEEN ANY WALL, ROOF OR FLOOR ASSEMBLY IT ABUTS OR IS MOU	UNTED WITHIN. FOR		R VALUE OF TH	RATURE INDICATEDFOR			, ,	
TION INSTALLED ON THE BOTTOM SIDE OF FLOOR FRAMING OR EXCEEDS THE MINIMUM WOOD FRAME WALL R-VALUE IN TTOM TO THE TOP OF ALL PERIMETER FLOOR FRAMING	CONCEALED SPRINKLERS	RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN	-	TYPICAL-INSTALLATION	OR DOOR INSTALLATION TYPE, PROVIDE A MINIMUM OF C DETAIL SHOWING EITHER THE HEAD, JAMB OR SILL DETA IE ABUTTING WALL, ROOF OR FLOOR CONSTRUCTION, IN	AIL OF THE WINDOW	C. FOR DIRECT-BU 1-1/2 INCHES	IRIED HEATING (38MM) SHALL	AND HOT WATER SYST BE PERMITTED (BEFOR	E THICKNESS			
		FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.		STRUCTURAL AND INSUL	ATION LAYERS, BLOCKING, FLASHING AND CLADDING.		FOOTNOTE) BUT NOT TO ⁻	THICKNESS LESS THAN	1 INCH.			
NTS SHALL BE INSULATED FROM THE TOP OF THE BASEMENT		CTION OF LOG WALLS SHALL BE IN ACCORDANCI		<u>SECTION R403 SYSTEMS</u> R403.1 CONTROLS (MANDATORY)			R403.4.1 PROTECTION						
OR TO THE BASEMENT FLOOR, WHICHEVER IS LESS. WALLS SHALL COMPLY WITH THIS REQUIREMENT EXCEPT WHERE	R402.4.1.3 OPTIO	NAL TESTING PROCEDURE FOR BUILDINGS WITH	TWO OR MORE DWELLING UNITS WITHIN THE		SHALL BE PROVIDED FOR EACH SEPARATE HEATING AN	ND COOLING SYSTEM.	PIPING INSULATION EXI BY SUNLIGHT, MOISTUF	RE, EQUIPMENT	MAINTENANCE AND W	ND. THE PROT	ECTION SHALL PROVI	IDE SHIELDING	
ANCE WITH SECTIONS R402.1.2 AND R402.2.8.	BUILDING THERM	IAL ENVELOPE MORE DWELLING UNITS ARE LOCATED WITHIN TI	HE BUILDING THERMAL ENVELOPE OF A	R403.1.1 PROGRAMMABLE THERMO	STAT		FROM SOLAR RADIATIC PROHIBITED.		JUSE DEGRADATION OF	איזי אוו ENIA (ERIA	L. AUTESIVE TAPE SH	INLL DE	
E LESS THAN 12 INCHES (305 MM) BELOW GRADE SHALL BE	BUILDING, THE T	ESTING PROCEDURE SPECIFIED IN SECTION R402 COMPLIANCE WITH SECTION R402.4.1.2.		BE CAPABLE OF CONTROLLING THE	HE PRIMARY HEATING OR COOLING SYSTEM OF THE DW HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE	E TO MAINTAIN	R403.5 SERVICE HOT W		-				
. THE INSULATION SHALL EXTEND DOWNWARD FROM THE TOP FOUNDATION WALL. INSULATION LOCATED BELOW GRADE TABLE R402.1.2 BY ANY COMBINATION OF VERTICAL		, EACH DWELLING UNIT AND EACH OTHER CONDI IERMAL ENVELOPE OF THE BUILDING SHALL BE F		THE CAPABILITY TO SET BACK OR T	NTS AT DIFFERENT TIMES OF THE DAY. THIS THERMOSTA EMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE GREATER THAN 85°F (29°C). THE THERMOSTAT SHALL B	E TEMPERATURES OF	ENERGY CONSERVATION MEASURES FOR SERVICE HOT WATER SYSTEMS SHALL BE IN ACCORDANCE WITH OF SECTIONS R403.5.1 THROUGH R403.5.5.						
SLAB OR INSULATION EXTENDING OUT FROM THE BUILDING. IG SHALL BE PROTECTED BY PAVEMENT OR BY NOT LESS	"ENCLOSURE SU EXTERIOR WALL	RFACE AREA" WITHIN A TESTING UNIT SHALL BE IN SUCH TESTING UNIT, (II) EACH INTERIOR WALL	EQUAL TO THE SUM OF THE AREAS OF (I) EACH IN SUCH TESTING UNIT THAT ABUTS OTHER	INITIALLY BY THE MANUFACTURER	GREATER THAN 85°F (29°C). THE THERMOSTAT SHALL B WITH A HEATING TEMPERATURE SETPOINT OF NOT GRE/ RE SETPOINT OF NOT LESS THAN 78°F (26°C).		R403.5.1 HEATED WATER CIRCULATION AND TEMPERATURE MAINTENANCE SYSTEMS (MANDATORY) HEATED WATER CIRCULATION SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION R403.5.1.1. HEAT TRACE						
OF THE INSULATION INSTALLED BETWEEN THE EXTERIOR LL BE PERMITTED TO BE CUT AT A 45-DEGREE (0.79 RAD) DGE INSULATION IS NOT REQUIRED IN JURISDICTIONS	. ,	, (III) EACH CEILING IN SUCH TESTING UNIT THAT SPACE, AND (IV) EACH FLOOR IN SUCH TESTING TIONED SPACE.		· · · ·			HEATED WATER CIRCU TEMPERATURE MAINTE CONTROLS, TEMPERAT	NANCE SYSTE	MS SHALL BE IN ACCOR	DANCE WITH S	SECTION R403.5.1.2. A	UTOMATIC	
IG A VERY HEAVY TERMITE INFESTATION.	EACH TESTING U	NIT SHALL BE TESTED AND VERIFIED AS HAVING			ARY ELECTRIC-RESISTANCE HEAT SHALL HAVE CONTRO EMENTAL HEAT OPERATION WHEN THE HEAT PUMP CON	,	READILY ACCESSIBLE.						
	TESTING SHALL E	MINUTE PER SQUARE FOOT OF ENCLOSURE SUF BE CONDUCTED WITH A BLOWER DOOR AT A PRE JCTED IN ACCORDANCE WITH ASTM E779. TESTIN	ESSURE OF 0.2 INCHES W.G. (50 PASCALS), AND	MEET THE HEATING LOAD.			R403.5.1.1 CIRCULATION				JLATION PLIMP THE S	SYSTEM RETUR	R
	CREATION OF AL	L PENETRATIONS OF THE BUILDING THERMAL EN		R403.2 HOT WATER BOILER OUTDOO	<u> DR TEMPERATURE SETBACK</u> - N/A - NOT USED		PIPE SHALL BE A DEDIC CIRCULATION SYSTEMS	ATED RETURN S SHALL BE PRO	PIPE OR A COLD WATE DHIBITED. CONTROLS F	R SUPPLY PIPE OR CIRCULATI	E. GRAVITY AND THER NG HOT WATER SYST	RMOSYPHON TEM PUMPS	
		RIOR WINDOWS AND DOORS, FIREPLACE AND STO			E INSTALLED IN ACCORDANCE WITH SECTIONS R403.3.1	1 THROUGH R403.3.7.	SHALL START THE PUM OCCUPANCY. THE CON CIRCULATION LOOP IS	TROLS SHALL A	UTOMATICALLY TURN	OFF THE PUMF	WHEN THE WATER IN	N THE	
R402, FENESTRATION SHALL COMPLY WITH SECTIONS R402.3.1	MEAS	ED, BEYOND THE INTENDED WEATHER-STRIPPING URES. ERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR,		R403.3.1 INSULATION (PRESCRIPTIV	<u>E)</u>		R403.5.1.2 HEAT TRACE			THERE I	UEIVIANU FOR H		
	CLOSE 3. INTER	ED, BUT NOT SEALED BEYOND INTENDED INFILTR IOR DOORS, IF INSTALLED AT THE TIME OF THE T	RATION CONTROL MEASURES. TEST, SHALL BE OPEN.	DUCTS 3 INCHES (76 MM) IN DIAMET	FICS SHALL BE INSULATED TO AN R-VALUE OF NOT LESS ER AND LARGER AND NOT LESS THAN R-6 FOR DUCTS S	SMALLER THAN 3	ELECTRIC HEAT TRACE	SYSTEMS SHA					
PRODUCTS SHALL BE PERMITTED TO SATISFY THE U-FACTOR	SHALL	RIOR DOORS FOR CONTINUOUS VENTILATION SYS BE CLOSED AND SEALED. NG AND COOLING SYSTEMS, IF INSTALLED AT TH		INCHES (76 MM) IN DIAMETER. SUPP INSULATED TO NOT LESS THAN R-6	LY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUFOR DUCTS 3 INCHES (76 MM) IN DIAMETER AND NOT LE	UILDING SHALL BE	SHALL AUTOMATICALLY TEMPERATURE IN THE OCCUPANCY.						
	6. SUPPL WHER	LY AND RETURN REGISTERS, IF INSTALLED AT TH RE REQUIRED BY THE BUILDING OFFICIAL, TESTIN	E TIME OF THE TEST, SHALL BE FULLY OPEN.	DUCTS SMALLER THAN 3 INCHES (76 EXCEPTION: DUCTS OR PORTIONS 1	3 MM) IN DIAMETER. THEREOF LOCATED COMPLETELY INSIDE THE BUILDING ⁻	THERMAL ENVELOPE.	R403.5.2 DEMAND RECI	RCULATION WA	TER SYSTEMS				
PRODUCTS MORE THAN 50-PERCENT GLAZED SHALL BE		PARTY.		R403.3.2 SEALING (MANDATORY)			DEMAND RECIRCULATIO	ON WATER SYS	TEMS SHALL HAVE COM	ITROLS THAT (COMPLY WITH BOTH C	OF THE	
S. SFY THE SHGC REQUIREMENTS OF TABLE R402.1.2 PROVIDED	CONDUCTING TH	E TEST AND PROVIDED TO THE BUILDING OFFICIA AME AND PLACE OF BUSINESS OF THE PARTY CO	AL. THE WRITTEN REPORT SHALL INCLUDE:	,	BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL CO DRK STATE OR RESIDENTIAL CODE OF NEW YORK STATE		1. THE CONTRO OF A FIXTUR	E OR APPLIANC	RT THE PUMP UPON RE CE, SENSING THE PRES	ENCE OF A US	ER OF A FIXTURE OR		
LED SHGC IS GREATER THAN OR EQUAL TO 2.4, AND THE ED TO MODULATE THE AMOUNT OF SOLAR GAIN INTO THE ALL BE CONSIDERED SEPARATELY FROM OTHER	2. THE A 3. THE C	DDRESS OF THE BUILDING WHICH WAS TESTED; ONDITIONED FLOOR AREA OF DWELLING, CALCU	JLATED IN ACCORDANCE WITH ANSI/BOMA	CITY CONSTRUCTION CODE, AS APP			2. THE CONTRO	-	ED WATER TO A FIXTUR T THE TEMPERATURE (4°F (40°C)		-	D WATER PIPING	, -
ALL BE CONSIDERED SEPARATELY FROM OTHER G WITH OTHER FENESTRATION THAT IS NOT DYNAMIC GLAZING	IS LES	EXCEPT THAT CONDITIONED FLOOR AREA SHALI SS THAN 5 FEET (1524 MM); UREMENT OF THE AIR LEAKAGE RATE OF EACH T		EXCEL HONO.	Y FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIE S.	ED WITHOUT	R403.5.3 HOT WATER PI		, , , , , , , , , , , , , , , , , , ,				
QUIRED TO COMPLY WITH THIS SECTION WHERE BOTH THE	5. THE D 6. A CER	ATE(S) OF THE TEST; ATIFICATION BY THE PARTY CONDUCTING THE TE		2. FOR DUCTS HAVING A ST COLUMN (500 PA), ADDIT	ATIC PRESSURE CLASSIFICATION OF LESS THAN 2 INCH ONAL CLOSURE SYSTEMS SHALL NOT BE REQUIRED FO	OR CONTINUOUSLY	INSULATION FOR HOT V	VATER PIPING V		TANCE, R-VAL	UE, OF NOT LESS THA	AN R-3 SHALL BI	:
H THE REQUIREMENTS OF TABLE R402.1.2.	AND 7. THE S	IGNATURE OF THE PARTY CONDUCTING THE TES	ST.	WELDED JOINTS AND SEA SNAP-LOCK AND BUTTON	AMS, AND LOCKING-TYPE JOINTS AND SEAMS OF OTHER I-LOCK TYPES.	R THAN THE	1. PIPING 3/4 IN	CH (19.1 MM) A	ND LARGER IN NOMINA				
GLAZED FENESTRATION PER DWELLING UNIT SHALL BE		DINGS WITH MORE THAN SEVEN DWELLING UNITS	<u>S</u> - N/A - NOT USED	R403.3.2.1 SEALED AIR HANDLER			 PIPING LOCA PIPING FROM 	TED OUTSIDE ⁻ 1 THE WATER H	THE CONDITIONED SPA IEATER TO A DISTRIBU ⁻	CE.	Э.		
EMENTS IN SECTION R402.1.2. THIS EXEMPTION SHALL NOT IN R402.1.4 AND THE TOTAL UA ALTERNATIVE IN SECTION		<u>CES</u> - N/A - NOT USED			JFACTURER'S DESIGNATION FOR AN AIR LEAKAGE OF NO RATE WHEN TESTED IN ACCORDANCE WITH ASHRAE 19		6. BURIED PIPI		FLOOR SLAB. IG IN RECIRCULATION S	YSTEMS OTHF	R THAN DEMAND REG	CIRCULATION	
	WINDOWS, SKYLI	IGHTS AND SLIDING GLASS DOORS SHALL HAVE /		R403.3.3 DUCT TESTING (MANDATOR	<u>RY)</u>		SYSTEMS.	-		-			
GREATER THAN 24 SQUARE FEET (2.22 M2) IN AREA SHALL BE ECTION R402.1.2. THIS EXEMPTION SHALL NOT APPLY TO THE	SQUARE FOOT (2	R SQUARE FOOT (1.5 L/S/M2), AND FOR SWINGING 2.6 L/S/M2), WHEN TESTED IN ACCORDANCE WITH ED, INDEPENDENT LABORATORY AND LISTED AN	NFRC 400 OR AAMA/WDMA/CSA 101/I.S.2/A440	1. ROUGH-IN TEST: TOTAL L	D TO DETERMINE AIR LEAKAGE BY ONE OF THE FOLLOW EAKAGE SHALL BE MEASURED WITH A PRESSURE DIFFE	ERENTIAL OF 0.1 INCH	R403.5.4 DRAIN WATER			ъЕD			
THE TOTAL UA ALTERNATIVE IN SECTION R402.1.5.		E-BUILT WINDOWS, SKYLIGHTS AND DOORS.		, ,	E SYSTEM, INCLUDING THE MANUFACTURER'S AIR HAND OF THE TEST. REGISTERS SHALL BE TAPED OR OTHERW		R403.6 MECHANICAL VE						DF
	R402.4.4 ROOMS	CONTAINING FUEL-BURNING APPLIANCES		2. POSTCONSTRUCTION TE OF 0.1 INCH W.G. (25 PA)	ST: TOTAL LEAKAGE SHALL BE MEASURED WITH A PRES ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFA	ACTURER'S AIR	THE BUILDING SHALL B			COMPLIES WIT	TH THE REQUIREMEN	TS OF THE	
ISTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE		ES 3 THROUGH 8, WHERE OPEN COMBUSTION AIF EL BURNING APPLIANCES, THE APPLIANCES AND		EXCEPTIONS:	REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DU		RESIDENTIAL CODE OF CONSTRUCTION CODE,	NEW YORK STA AS APPLICABL	ATE OR MECHANICAL C E, OR WITH OTHER APP				.] <u>.</u>
R402.4.6.	LOCATED OUTSIE	DE THE BUILDING THERMAL ENVELOPE OR ENCLOR RMAL ENVELOPE. SUCH ROOMS SHALL BE SEALE	OSED IN A ROOM THAT IS ISOLATED FROM D AND INSULATED IN ACCORDANCE WITH THE	LOCATED ENTIRELY WITH 2. A DUCT AIR-LEAKAGE TE	HIN THE BUILDING THERMAL ENVELOPE. ST SHALL NOT BE REQUIRED FOR DUCTS SERVING HEAT	T OR ENERGY	MEANS OF VENTILATION HAVE AUTOMATIC OR OF VENTILATION SYSTEM	RAVITY DAMPE	ERS THAT CLOSE WHEN				B
Y WITH SECTIONS R402.4.1.1 AND R402.4.1.2. THE SEALING	LESS THAN THE E	JIREMENTS OF TABLE R402.1.2, WHERE THE WALL BASEMENT WALL R-VALUE REQUIREMENT. THE D ANY WATER LINES AND DUCTS IN THE ROOM INSI	OOR INTO THE ROOM SHALL BE FULLY		S THAT ARE NOT INTEGRATED WITH DUCTS SERVING HE		R403.6.1 WHOLE-HOUSE			EFFICACY			
L ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION.		N AIR DUCT SHALL BE INSULATED WHERE IT PAS		A WRITTEN REPORT OF THE RESUL AND PROVIDED TO THE BUILDING O	TS OF THE TEST SHALL BE SIGNED BY THE PARTY COND FFICIAL.	DUCTING THE TEST	FANS USED TO PROVID SHALL MEET THE EFFIC						N' St
IVELOPE AS INDICATED IN TABLE R402.4.1.1 SHALL BE	EXCEPTIONS:	T VENT APPLIANCES WITH BOTH INTAKE AND EX		R403.3.4 DUCT LEAKAGE (PRESCRIP			EXCEPTION: WHERE AN	AIR HANDLER	THAT IS INTEGRAL TO	ESTED			1
URER'S INSTRUCTIONS AND THE CRITERIA INDICATED IN OF CONSTRUCTION. WHERE REQUIRED BY THE BUILDING	OUTSI 2. FIREP	IDE. LACES AND STOVES COMPLYING WITH SECTION		R403.3.5 BUILDING CAVITIES (MAND)	ATORY)		AND LISTED HVAC EQU MECHANICAL VENTILAT AN ELECTRONICALLY C	ION, THE AIR H	ANDLER SHALL BE POV				Y
PECT ALL COMPONENTS AND VERIFY COMPLIANCE.		ENTIAL CODE OF NEW YORK STATE.		BUILDING FRAMING CAVITIES SHALL									- - - -

RESIDENTIAL CODE OF NEW YORK STATE.

BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.

S١	WITH THE REQUIREMENTS OF THE
IEV	V YORK STATE OR NEW YORK CITY



REVISIONS

_____ _____ _____ _____ _____ _____ ____ _____ _____ _____

_____ _____ _____ _____ _____ _____

NO DATE ISSUE/REVISION

NEW 2-FAMILY RESIDENTIAL BUILDING

243 MADISON ST. MAMARONECK, NY 10543

DRAWING TITLE

ENERGY NOTES

B-SCAN JOB STICKER

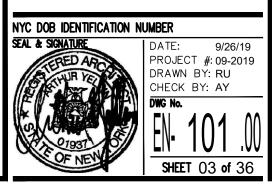


TABLE R403.6.1									
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY ^a									
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM(CF M)						
HRV OR ERV	ANY	1.2 CFM/WATT	ANY						
RANGE HOODS	ANY	2.8 CFM/WATT	ANY						
IN-LINE FAN	ANY	2.8 CFM/WATT	ANY						
BATHROOM UTILITY ROOM	10	1.4 CFM/WATT	<90						
BATHROOM UTILITY ROOM	90	2.8 CFM/WATT	ANY						
a. WHEN TESTED IN ACCORDANC	E WIHHVI STANDARD 916								

R403.7 EQUIPMENT SIZING AND EFFICIENCY RATING (MANDATORY)

HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATION METHODOLOGIES. NEW OR REPLACEMENT HEATING AND COOLING EQUIPMENT SHALL HAVE AN EFFICIENCY RATING EQUAL TO OR GREATER THAN THE MINIMUM REQUIRED BY FEDERAL LAW FOR THE GEOGRAPHIC LOCATION WHERE THE EQUIPMENT IS INSTALLED.

R403.8 SYSTEMS SERVING MULTIPLE DWELLING UNITS (MANDATORY)

SYSTEMS SERVING MULTIPLE DWELLING UNITS SHALL COMPLY WITH SECTIONS C403 AND C404 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE—COMMERCIAL PROVISIONS INSTEAD OF SECTION WHERE SOME OR ALL OF AN EXISTING FENESTRATION

R403.9 SNOW MELT AND ICE SYSTEM CONTROLS (MANDATORY)

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 TEMPERATURE IS GREATER THAN 50°F (10°C) AND PRECIPITATION IS NOT FALLING, AND AN AUTOMATIC OR MANUAL CONTROL THAT WILL ALLOW SHUTOFF WHEN THE OUTDOOR TEMPERATURE IS GREATER THAN 40°F (4.8°C).

R403.10 POOLS AND PERMANENT SPA ENERGY CONSUMPTION (MANDATORY) - N/A - NOT USED

R403.11 PORTABLE SPAS (MANDATORY) - N/A - NOT USED

R403.12 RESIDENTIAL POOLS AND PERMANENT RESIDENTIAL SPAS

RESIDENTIAL SWIMMING POOLS AND PERMANENT RESIDENTIAL SPAS THAT ARE ACCESSORY TO DETACHED

ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE AND THAT ARE AVAILABLE ONLY TO THE HOUSEHOLD AND ITS GUESTS SHALL BE IN ACCORDANCE WITH R503.2 CHANGE IN SPACE CONDITIONING - N/A APSP 15A.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

R404.1 LIGHTING EQUIPMENT (MANDATORY)

NOT LESS THAN 90 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS.

R404.1.1 LIGHTING EQUIPMENT (MANDATORY)

FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.

ECTION R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE - N/A - NOT USED

LOCATION OF PERMANENT CERTIFICATE" - SEE EN-104.

CHAPTER R5 EXISTING BUILDING

ECTION R501GENERAL

R501.1 SCOPE

THE PROVISIONS OF THIS CHAPTER SHALL CONTROL THE ALTERATION, REPAIR, ADDITION AND CHANGE OF DCCUPANCY OF EXISTING BUILDINGS AND STRUCTURES.

R501.1.1 ADDITIONS, ALTERATIONS, OR REPAIRS: GENERAL

ADDITIONS, ALTERATIONS, OR REPAIRS TO AN EXISTING BUILDING, BUILDING SYSTEM OR PORTION THEREOF SHALL COMPLY WITH SECTION R502, R503 OR R504. UNALTERED PORTIONS OF THE EXISTING BUILDING OR BUILDING SUPPLY SYSTEM SHALL NOT BE REQUIRED TO COMPLY WITH THIS CODE.

R501.2 EXISTING BUILDINGS

EXCEPT AS SPECIFIED IN THIS CHAPTER, THIS CODE SHALL NOT BE USED TO REQUIRE THE REMOVAL, ALTERATION OR ABANDONMENT OF, NOR PREVENT THE CONTINUED USE AND MAINTENANCE OF, AN EXISTING BUILDING OR BUILDING SYSTEM LAWFULLY IN EXISTENCE AT THE TIME OF ADOPTION OF THIS CODE.

R501.3 MAINTENANCE

BUILDINGS AND STRUCTURES, AND PARTS THEREOF, SHALL BE MAINTAINED IN A SAFE AND SANITARY CONDITION. DEVICES AND SYSTEMS THAT ARE REQUIRED BY THIS CODE SHALL BE MAINTAINED IN CONFORMANCE TO THE CODE EDITION UNDER WHICH INSTALLED. THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF BUILDINGS AND STRUCTURES. THE REQUIREMENTS DESCRIBED IN PARAGRAPHS 1 THROUGH 5 OF THIS SU OF THIS CHAPTER SHALL NOT PROVIDE THE BASIS FOR REMOVAL OR ABROGATION OF ENERGY CONSERVATION, FIRE PROTECTION AND SAFETY SYSTEMS AND DEVICES IN EXISTING STRUCTURES.

NY] R501.4 COMPLIANCE

ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY TO, OR RELOCATION OF, EXISTING BUILDINGS AND STRUCTURES SHALL COMPLY WITH THE PROVISIONS FOR ALTERATIONS, REPAIRS, ADDITIONS 2. MANDATORY REQUIREMENTS. THE CONSTRUCTION AND CHANGES OF OCCUPANCY OR RELOCATION, RESPECTIVELY, IN THIS CODE AND THE RESIDENTIAL CODE OF REQUIREMENTS OF THE ENERGY CODE. FOR RESIDEN NEW YORK STATE, BUILDING CODE OF NEW YORK STATE, EXISTING BUILDING CODE OF NEW YORK STATE, FIRE PROVISIONS, REFERENCES FOR SUCH REQUIREMENTS CODE OF NEW YORK STATE, FUEL GAS CODE OF NEW YORK STATE, MECHANICAL CODE OF NEW YORK STATE, PLUMBING CODE OF NEW YORK STATE, PROPERTY MAINTENANCE CODE OF NEW YORK STATE AND NFPA 70.

EXCEPTION: IN THE CASE OF A BUILDING THAT IS SUBJECT TO THE NEW YORK CITY CONSTRUCTION CODES, ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY TO, OR RELOCATION OF, EXISTING BUILDINGS AND STRUCTURES SHALL COMPLY WITH (I) ALL APPLICABLE PROVISIONS OF THE RESIDENTIAL CODE OR CONSTRUCTION. IF REQUIRED, THE ENERGY ANALY OF NEW YORK STATE (II) THE PROVISIONS FOR ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY OR RELOCATION, RESPECTIVELY, IN THE NEW YORK CITY CONSTRUCTION CODES, AND (III) THE NEW YORK CITY ELECTRICAL CODE.

R501.5 NEW AND REPLACEMENT MATERIALS

EXCEPT AS OTHERWISE REQUIRED OR PERMITTED BY THIS CODE, MATERIALS PERMITTED BY THE APPLICABLE SEEN BELOW. CODE FOR NEW CONSTRUCTION SHALL BE USED. LIKE MATERIALS SHALL BE PERMITTED FOR REPAIRS. PROVIDED THAT HAZARDS TO LIFE, HEALTH OR PROPERTY ARE NOT CREATED. HAZARDOUS MATERIALS SHALL 2. CONSTRUCTION SCHEDULING INSTRUCTIONS. IN ACCORDANCE WITH ARTICLE 116 OF TITLE 28 AND NOT BE USED WHERE THE CODE FOR NEW CONSTRUCTION WOULD NOT ALLOW THEIR USE IN BUILDINGS OF SIMILAR OCCUPANCY, PURPOSE AND LOCATION.

NY] R501.6 HISTORIC BUILDINGS

PROVISIONS OF THIS CODE RELATING TO THE CONSTRUCTION. REPAIR, ALTERATION, RESTORATION AND CHANGE OF OCCUPANCY SHALL NOT BE MANDATORY FOR HISTORIC BUILDINGS.

SECTION R502 ADDITIONS

R502.1 GENERAL ADDITIONS TO AN EXISTING BUILDING, BUILDING SYSTEM OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THIS CODE AS THOSE PROVISIONS RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTION OF THE EXISTING BUILDING OR BUILDING SYSTEM TO COMPLY WITH THIS CODE. ADDITIONS SHALL NOT CREATE AN UNSAFE OR HAZARDOUS CONDITION OR OVERLOAD EXISTING BUILDING

SYSTEMS. AN ADDITION SHALL BE DEEMED TO COMPLY WITH THIS CODE WHERE THE ADDITION ALONE COMPLIES, WHERE THE EXISTING BUILDING AND ADDITION COMPLY WITH THIS CODE AS A SINGLE BUILDING, OR WHERE THE BUILDING WITH THE ADDITION DOES NOT USE MORE ENERGY THAN THE EXISTING BUILDING. ADDITIONS SHALL BE IN ACCORDANCE WITH SECTION R502.1.1 OR R502.1.2.

ADDITIONS SHALL COMPLY WITH SECTIONS R502.1.1.1

R502.1.1 PRESCRIPTIVE COMPLIANCE

NY] R502.1.1.1 BUILDING ENVELOPE

THROUGH R502.1.1.4.

NEW BUILDING ENVELOPE ASSEMBLIES THAT ARE PART OF THE ADDITION SHALL COMPLY WITH SECTIONS R402.1, R402.2, R402.3.1 THROUGH R402.3.5.

EXCEPTION: WHERE UNCONDITIONED SPACE IS CHANGED TO CONDITIONED SPACE, THE BUILDING ENVELOPE WORK. OF THE ADDITION SHALL COMPLY WHERE THE TOTAL UA, AS DETERMINED IN SECTION R402.1.5, OF THE EXISTING BUILDING AND THE ADDITION, AND ANY ALTERATIONS THAT ARE PART OF THE PROJECT, IS LESS THAN OR EQUAL TO THE TOTAL UA GENERATED FOR THE EXISTING BUILDING.

R502.1.1.2 HEATING AND COOLING SYSTEMS

NEW HEATING, COOLING AND DUCT SYSTEMS THAT ARE PART OF THE ADDITION SHALL COMPLY WITH SECTION EXCEPTION: WHERE DUCTS FROM AN EXISTING HEATING AND COOLING SYSTEM ARE EXTENDED TO AN

ADDITION, DUCT SYSTEMS WITH LESS THAN 40 LINEAR FEET (12.19 M) IN UNCONDITIONED SPACES SHALL NOT BE REQUIRED TO BE TESTED IN ACCORDANCE WITH SECTION R403.3.3.

R502.1.1.3 SERVICE HOT WATER SYSTEMS

NEW SERVICE HOT WATER SYSTEMS THAT ARE PART OF THE ADDITION SHALL COMPLY WITH SECTION R403.5. R502.1.1.4 LIGHTING

NEW LIGHTING SYSTEMS THAT ARE PART OF THE ADDITION SHALL COMPLY WITH SECTION R404.1. R502.1.2 EXISTING PLUS ADDITION COMPLIANCE (SIMULATED PERFORMANCE ALTERNATIVE)

WHERE UNCONDITIONED SPACE IS CHANGED TO CONDITIONED SPACE, THE ADDITION SHALL COMPLY WHERE THE ANNUAL ENERGY COST OR ENERGY USE OF THE ADDITION AND THE EXISTING BUILDING, AND ANY ALTERATIONS THAT ARE PART OF THE PROJECT. IS LESS THAN OR EQUAL TO THE ANNUAL ENERGY COST OF THE EXISTING BUILDING WHEN MODELED IN ACCORDANCE WITH SECTION R405. THE ADDITION AND ANY ALTERATIONS THAT ARE PART OF THE PROJECT SHALL COMPLY WITH SECTION R405 IN ITS ENTIRETY.

SECTION R503 ALTERATIONS R503.1 GENERAL

ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS CONFORMING TO THE PROVISIONS OF THIS CODE THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION.

ALTERATIONS TO AN EXISTING BUILDING, BUILDING SYSTEM OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THIS CODE AS THEY RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED

PORTIONS OF THE EXISTING BUILDING OR BUILDING SY NOT CREATE AN UNSAFE OR HAZARDOUS CONDITION C ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUIL THAN THE EXISTING BUILDING OR STRUCTURE PRIOR T BUILDINGS SHALL COMPLY WITH SECTIONS R503.1.1 THE

[NY] <u>R503.1.1 BUILDING ENVELOPE</u>

EXCEPTION: THE FOLLOWING ALTERATIONS SHALL NOT FOR NEW CONSTRUCTION PROVIDED THAT THE ENERG 1. STORM WINDOWS INSTALLED OVER EXISTING FEM

- 2. EXISTING CEILING, WALL OR FLOOR CAVITIES EXP CAVITIES ARE FILLED WITH INSULATION.
- 3. CONSTRUCTION WHERE THE EXISTING ROOF, WAI
- 4. ROOF RE-COVER. ROOFS WITHOUT INSULATION IN THE CAVITY AND DURING REROOFING SHALL BE INSULATED EITHER
- SURFACE-APPLIED WINDOW FILM INSTALLED ON I REDUCE SOLAR HEAT GAIN PROVIDED THAT THE (
- FENESTRATION ASSEMBLY TO BE REPLACED. 7. ALTERATIONS WHICH REPLACE LESS THAN 50 PER
- THAT SUCH ALTERATIONS DO NOT INCREASE THE

PRODUCT, INCLUDING SASH AND GLAZING, THE REPLAC APPLICABLE REQUIREMENTS FOR U-FACTOR AND SHGC

R503.1.4 LIGHTING

SECTION R504 REPAIRS

BUILDINGS, STRUCTURES AND PARTS THEREOF SHALL THIS SECTION. WORK ON NONDAMAGED COMPONENTS COMPONENTS SHALL BE CONSIDERED TO BE PART OF REQUIREMENTS FOR ALTERATIONS IN THIS CHAPTER. ORDINARY REPAIRS EXEMPT FROM PERMIT, AND ABATE SHALL NOT BE SUBJECT TO THE REQUIREMENTS FOR F

R504.2 APPLICATION

SEPARATES CONDITIONED SPACE FROM THE EXTERIOR SECTION R505 CHANGE OF OCCUPANCY OR USE

1 RCNY §5000-01 - GENERAL

SECTION BC 109, CONSTRUCTION SHALL BE SCHEDULED TO ALLOW REQUIRED PROGRESS INSPECTIONS TO TAKE PLACE, AND THAT ROOFS, CEILINGS, EXTERIOR WALLS, INTERIOR WALLS, FLOORS, FOUNDATIONS, BASEMENTS AND ANY OTHER CONSTRUCTION SHALL NOT BE COVERED OR ENCLOSED UNTIL REQUIRED PROGRESS INSPECTIONS ARE COMPLETED OR THE PROGRESS INSPECTOR INDICATES THAT SUCH COVERING OR ENCLOSURE MAY PROCEED, AT EACH STAGE OF CONSTRUCTION, AS APPLICABLE.

ASHRAE 90.1 AS USED FOR DESIGN, IN ACCORDANCE WITH THE FOLLOWING:

A. WHEN ECC CHAPTER 4 HAS BEEN USED FOR THE PROJECT DESIGN, AS REFLECTED IN THE ENERGY ANALYSIS, THE APPLICANT SHALL LIST ON THE DRAWINGS THE RESPECTIVE REFERENCES AND CITATIONS FOR ECC FOR THE PROGRESS INSPECTION.

THE APPLICANT SHALL LIST ON THE DRAWINGS THE RESPECTIVE REFERENCES AND CITATIONS FOR ASHRAE 90.1 FOR THE PROGRESS INSPECTION

4. LIST OF PROGRESS INSPECTIONS REQUIRED. THE FOLLOWING PROGRESS INSPECTIONS AND/OR TESTING SHALL BE REQUIRED WHEN APPLICABLE TO THE SCOPE OF WORK. ENERGY CODE SECTIONS CITED IN TABLES I SHALL BE UNDERSTOOD TO INCLUDE THE SECTION, ALL SUBSECTIONS, ALL TABLES AND, WHEN ASHRAE 90.1 IS USED, APPENDICES RELATED TO THE CITED ENERGY CODE SECTION.

5. **RESIDENTIAL BUILDINGS.** THE PROGRESS INSPECTIONS AND TESTS DESCRIBED IN TABLE I SHALL BE PERFORMED FOR BUILDINGS REGULATED BY EITHER ECC CHAPTER 4 OR ASHRAE 90.1 AS APPLICABLE.

6. INSPECTION OR TEST FAILURE. IN ACCORDANCE WITH SECTION BC 109.9 AND ECC 104.2.3, WHERE AN INSPECTION OR TEST FAILS, THE CONSTRUCTION SHALL BE CORRECTED AND MUST BE MADE AVAILABLE FOR REINSPECTION AND/OR RETESTING BY THE PROGRESS INSPECTOR UNTIL IT COMPLIES. FOR ADDITIONS AND ALTERATIONS, THE APPLICANT MUST CLEARLY INDICATE WHAT PORTIONS OF THE ALTERED SYSTEMS SHOULD BE INSPECTED AND/OR TESTED. AND WHAT INSPECTION AND/OR TESTING MAY BE OUTSIDE THE SCOPE OF THE

ENERGY ANALYSIS OF CONSTRUCTED CONDITIO
DMINISTRATIVE CODE AND SECTION ECC 103.4, IF C
ULL ENERGY ANALYSIS, AN AS-BUILT ENERGY ANAL
HE ACTUAL VALUES USED IN THE BUILDING FOR ALI
EMONSTRATING THAT THE BUILDING COMPLIES WIT
IGNED AND SEALED BY A REGISTERED DESIGN PRC
HAT TO THE BEST OF HIS OR HER KNOWLEDGE AND
IGNED AND SEALED ENERGY ANALYSIS AND CONST
/HERE NO TRADE-OFFS HAVE BEEN USED AMONG D
ROFESSIONAL MAY SIGN AND SEAL THE ELEMENTS

TABLE I PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE RESIDEN

INSPECTION/TEST

BE APPROVED OR ACCEPTED BY THE DEPARTMENT PRIOR TO SIGN-OFF.

IA ENVELOPE INSPECTIONS 1 PROTECTION OF EXPOSED FOUNDATION INSULATION: INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER PROTECTION WHERE APPLIED TO THE EXTERIOR OF BASEMEN OR CELLAR WALLS, CRAWL-SPACE WALLS AND/C THE PERIMETER OF SLAB-ON-GRADE FLOORS. INSULATION PLACEMENT AND R-VALUES: INSTAL INSULATION FOR EACH COMPONENT OF THE CONDITIONED SPACE ENVELOPE AND AT JUNCTI BETWEEN COMPONENTS SHALL BE VISUALLY INSPECTED TO ENSURE THAT THE R-VALUES ARE MARKED, THAT SUCH R-VALUES CONFORM TO TH RVALUES IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND THAT THE INSULATION IS PROPERLY INSTALLED. CERTIFICATIONS FOR UNMARKED INSULATION SHALL BE SIMILARLY VISUALLY INSPECTED

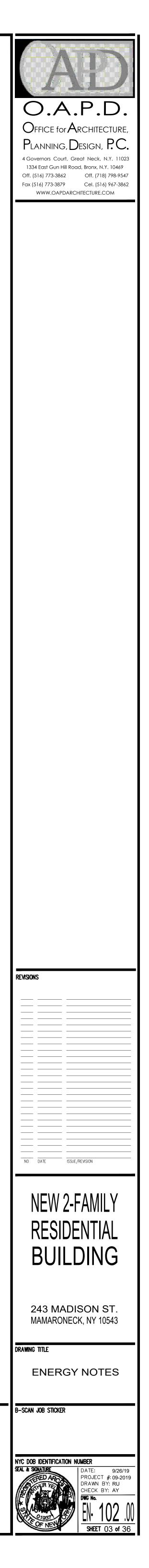
NOT (ALTE THAN	TIONS OF THE EXISTING BUILDING OR BUILDING SYSTEM TO COMPLY WITH THIS CODE. ALTERATIONS SHALL CREATE AN UNSAFE OR HAZARDOUS CONDITION OR OVERLOAD EXISTING BUILDING SYSTEMS. RATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE DOES NOT USE MORE ENERGY I THE EXISTING BUILDING OR STRUCTURE PRIOR TO THE ALTERATION. ALTERATIONS TO EXISTING DINGS SHALL COMPLY WITH SECTIONS R503.1.1 THROUGH R503.2.		SHALL BE VERIFIED BY VISUAL INSPECTION FOR CONFORMANCE WITH THE U-FACTORS IDENTIFIED IN THE CONSTRUCTION DRAWINGS, EITHER BY	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; NFRC 100	303.1, 303.1.3, 402.1, 402.3, 402.62
[NY]	R503.1.1 BUILDING ENVELOPE		VERIFYING THE MANUFACTURER'S NFRC LABELS OR, WHERE NOT LABELED, USING THE RATINGS IN ECC TABLES 303.1.3(1)AND (2).			
OR R EXCE	DING ENVELOPE ASSEMBLIES THAT ARE PART OF THE ALTERATION SHALL COMPLY WITH SECTION R402.1.2 402.1.4, SECTIONS R402.2.1 THROUGH R402.2.13, R402.3.1, R402.3.2, R402.4.3 AND R402.4.5. PTION: THE FOLLOWING ALTERATIONS SHALL NOT BE REQUIRED TO COMPLY WITH THE REQUIREMENTS NEW CONSTRUCTION PROVIDED THAT THE ENERGY USE OF THE BUILDING IS NOT INCREASED: STORM WINDOWS INSTALLED OVER EXISTING FENESTRATION.\	IA4	FENESTRATION AIR LEAKAGE: WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS, EXCEPT SITEBUILT WINDOWS, SKYLIGHTS AND DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT INSTALLED ASSEMBLIES ARE LISTED AND LABELED TO THE REFERENCED STANDARD	AS REQUIRED DURING INSTALLATION	NFRC 400, AAMAWDMA/CSA 101/I.S.2/A440	402.4.4
2.	EXISTING CEILING, WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION. CONSTRUCTION WHERE THE EXISTING ROOF, WALL OR FLOOR CAVITY IS NOT EXPOSED.	IA5	FENESTRATION AREAS: DIMENSIONS OF WINDOWS, DOORS AND SKYLIGHTS SHALL BE VERIFIED BY	PRIOR TO FINAL CONSTRUCTION	APPROVED CONSTRUCTION	402.3
4. 5. 6.	ROOF RE-COVER. ROOFS WITHOUT INSULATION IN THE CAVITY AND WHERE THE SHEATHING OR INSULATION IS EXPOSED DURING REROOFING SHALL BE INSULATED EITHER ABOVE OR BELOW THE SHEATHING. SURFACE-APPLIED WINDOW FILM INSTALLED ON EXISTING SINGLE PANE FENESTRATION ASSEMBLIES TO REDUCE SOLAR HEAT GAIN PROVIDED THAT THE CODE DOES NOT REQUIRE THE GLAZING OR FENESTRATION ASSEMBLY TO BE REPLACED. ALTERATIONS WHICH REPLACE LESS THAN 50 PERCENT OF THE LUMINARIES WITHIN A SPACE, PROVIDED	IA6	VISUAL INSPECTION. AIR SEALING AND INSULATION – VISUAL INSPECTION: OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE, INCLUDING SITE-BUILT FENESTRATION AND DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY ARE PROPERLY SEALED, IN ACCORDANCE WITH TABLE 402.4.2. AIR SEALING AND INSULATION– TESTING:	INSPECTION AS REQUIRED DURING ENVELOPE CONSTRUCTION PRIOR TO FINAL	DOCUMENTS APPROVED CONSTRUCTION DOCUMENTS; ASTM E283; ASTM E84; RCNYS ASHRAE/ASTM E779	
	THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.		TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION ECC 402.4.2.1 AND SHALL BE ACCEPTED IF THE BUILDING MEETS THE	CONSTRUCTION	ANSI Z65; APPROVED CONSTRUCTION	402.4.2.1
PROE APPL ONE	RE SOME OR ALL OF AN EXISTING FENESTRATION UNIT IS REPLACED WITH A NEW FENESTRATION DUCT, INCLUDING SASH AND GLAZING, THE REPLACEMENT FENESTRATION UNIT SHALL MEET THE ICABLE REQUIREMENTS FOR U-FACTOR AND SHGC AS SPECIFIED IN TABLE R402.1.2. WHERE MORE THAN REPLACEMENT FENESTRATION UNIT IS TO BE INSTALLED, AN AREA-WEIGHTED AVERAGE OF THE CTOR, SHGC OR BOTH OF ALL REPLACEMENT FENESTRATION UNITS SHALL BE AN ALTERNATIVE THAT CAN	IB	REQUIREMENTS DETAILED IN SUCH SECTION. TEST RESULTS SHALL BE RETAINED IN ACCORDANCE WITH THE PROVISIONS OF TITLE 28. MECHANICAL AND SERVICE WATER HEATING INSPECT FIREPLACES: PROVISION OF COMBUSTION AIR AND		DOCUMENTS	303.1.5; BC 2111;
BE US	SED TO SHOW COMPLIANCE. 1.2 HEATING AND COOLING SYSTEMS - N/A		TIGHT-FITTING FIREPLACE DOORS SHALL BE VERIFIED BY VISUAL INSPECTION.	CONSTRUCTION INSPECTION	DOCUMENTS; ANSI	CHAPTER 6
NEW	1.3 SERVICE HOT WATER SYSTEMS SERVICE HOT WATER SYSTEMS THAT ARE PART OF THE ALTERATION SHALL COMPLY WITH SECTION		SHUTOFF DAMPERS: NOT LESS THAN 20% OF INSTALLED AUTOMATIC OR GRAVITY DAMPERS, AND A MINIMUM OF ONE OF EACH TYPE, SHALL BE	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	403.5; 403.7, C403
R403. R503.	5. 1.4 LIGHTING		VISUALLY INSPECTED AND PHYSICALLY TESTED FOR PROPER OPERATION. HVAC AND SERVICE WATER HEATING EQUIPMENT:	PRIOR TO FINAL	ACCA MANUAL J;	403.6, 403.7,
NEW	LIGHTING SYSTEMS THAT ARE PART OF THE ALTERATION SHALL COMPLY WITH SECTION R404.1.		HEATING AND COOLING EQUIPMENT SHALL BE VERIFIED BY VISUAL INSPECTION FOR PROPER SIZING. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION.	PLUMBING AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING	403.9, C403
THAT	SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.		HVAC AND SERVICE WATER HEATING SYSTEM	PRIOR TO FINAL	ENERGY ANALYSIS	403.1, 403.4,
	2 CHANGE IN SPACE CONDITIONING - N/A		CONTROLS: SYSTEM CONTROLS SHALL BE INSPECTED TO VERIFY THAT EACH DWELLING IS	ELECTRICAL AND CONSTRUCTION	DOCUMENTS,	403.7, 403.8, 403.9
-	<u>I GENERAL</u>		PROVIDED WITH AT LEAST ONE INDIVIDUAL PROGRAMMABLE THERMOSTAT WITH CAPABILITIES AS DESCRIBED IN ECC 403.1.1, AND THAT SUCH CONTROLS ARE SET AND OPERATE AS SPECIFIED IN	INSPECTION	INCLUDING CONTROL SYSTEM NARRATIVES	
THIS COMF REQU ORDI SHAL	DINGS, STRUCTURES AND PARTS THEREOF SHALL BE REPAIRED IN COMPLIANCE WITH SECTION R501.3 AND SECTION. WORK ON NONDAMAGED COMPONENTS NECESSARY FOR THE REQUIRED REPAIR OF DAMAGED PONENTS SHALL BE CONSIDERED TO BE PART OF THE REPAIR AND SHALL NOT BE SUBJECT TO THE JIREMENTS FOR ALTERATIONS IN THIS CHAPTER. ROUTINE MAINTENANCE REQUIRED BY SECTION R501.3, NARY REPAIRS EXEMPT FROM PERMIT, AND ABATEMENT OF WEAR DUE TO NORMAL SERVICE CONDITIONS L NOT BE SUBJECT TO THE REQUIREMENTS FOR REPAIRS IN THIS SECTION.		ECC 403.1.1. CONTROLS FOR SUPPLEMENTARY ELECTRIC-RESISTANCE HEAT PUMPS SHALL BE INSPECTED TO VERIFY THAT SUCH CONTROLS PREVENT SUPPLEMENTAL HEAT OPERATION WHEN THE HEAT PUMP COMPRESSOR CAN MEET THE			
	<u>2 APPLICATION</u> THE PURPOSES OF THIS CODE, THE FOLLOWING SHALL BE CONSIDERED TO BE REPAIRS:		HEATING LOAD.			
GLAS ROOF REPA REPL	S-ONLY REPLACEMENTS IN AN EXISTING SASH AND FRAME. FREPAIRS. JIRS WHERE ONLY THE BULB, BALLAST OR BOTH WITHIN THE EXISTING LUMINAIRES IN A SPACE ARE ACED PROVIDED THAT THE REPLACEMENT DOES NOT INCREASE THE INSTALLED INTERIOR LIGHTING		CONTROLS FOR SNOW- AND ICE-MELTING SYSTEMS AND POOLS SHALL BE INSPECTED FOR PROPER OPERATION. NOT LESS THAN 20% OR ONE OF EACH CONTROL TYPE, WHICHEVER IS MORE, SHALL BE INSPECTED.			
REQL	ER. ACEMENT OF EXISTING DOORS THAT SEPARATE CONDITIONED SPACE FROM THE EXTERIOR SHALL NOT JIRE THE INSTALLATION OF A VESTIBULE PROVIDED, HOWEVER, THAT AN EXISTING VESTIBULE THAT RATES CONDITIONED SPACE FROM THE EXTERIOR SHALL NOT BE REMOVED.		CONTROLS FOR TURNING OFF CIRCULATING HOT WATER PUMPS WHEN NOT IN USE SHALL BE INSPECTED FOR AN AUTOMATIC OR MANUAL SWITCH.			
	ION R505 CHANGE OF OCCUPANCY OR USE 1 GENERAL	IB5	HVAC INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY CORRECT INSULATION PLACEMENT AND VALUES.	PRIOR TO CLOSING CEILINGS AND WALLS AND PRIOR TO FINAL	CONSTRUCTION	403.2.1, 403.2.2, 403.3, 403.4, 403.7; MC 603.9
EITHE	ES UNDERGOING A CHANGE IN OCCUPANCY THAT WOULD RESULT IN AN INCREASE IN DEMAND FOR ER FOSSIL FUEL OR ELECTRICAL ENERGY SHALL COMPLY WITH THIS CODE. 2 GENERAL		DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE VISUALLY	CONSTRUCTION INSPECTION		
ANY	SPACE THAT IS CONVERTED TO A DWELLING UNIT OR PORTION THEREOF FROM ANOTHER USE OR JPANCY SHALL COMPLY WITH THIS CODE.	IB6	AND/OR SOME DUCTWORK IS IN UNCONDITIONED SPACE, DUCT-LEAKAGE TESTING SHALL BE	CEILINGS AND WALLS AND PRIOR	CONSTRUCTION DOCUMENTS;	403.2.2, 403.7
SECT	PTION: WHERE THE SIMULATED PERFORMANCE OPTION IN SECTION R405 IS USED TO COMPLY WITH THIS ION, THE ANNUAL ENERGY COST OF THE PROPOSED DESIGN IS PERMITTED TO BE 110 PERCENT OF THE JAL ENERGY COST ALLOWED BY SECTION R405.3.		PERFORMED EITHER AFTER ROUGH-IN OR POST-CONSTRUCTION TO ENSURE COMPLIANCE WITH ECC 403.2.2. NOT LESS THAN 20% OF SUCH DUCTWORK SHALL BE TESTED.	TO FINAL CONSTRUCTION INSPECTION	ANSI/ASHRAE 152, ASTM E1554 TEST METHOD A	
	NY §5000-01 - GENERAL	IC1	ELECTRICAL POWER AND LIGHTING SYSTEMS ELECTRICAL ENERGY CONSUMPTION: THE	PRIOR TO FINAL		404.2
PROV VALU LIGH	UPPORTING DOCUMENTATION. THE CONSTRUCTION DRAWINGS SUBMITTED FOR APPROVAL SHALL /IDE ALL ENERGY DESIGN ELEMENTS AND SHALL MATCH OR EXCEED THE ENERGY EFFICIENCY OF EACH JE IN EACH PART OF THE ENERGY ANALYSIS - ENVELOPE, MECHANICAL/SERVICE WATER HEATING AND TING/POWER. IN ADDITION, OTHER MANDATORY ENERGY CODE REQUIREMENTS SHALL BE PROVIDED AS		PRESENCE AND OPERATION OF INDIVIDUAL METERS OR OTHER MEANS OF MONITORING INDIVIDUAL DWELLING UNITS SHALL BE VERIFIED BY VISUAL INSPECTION FOR ALL DWELLING UNITS.	CONSTRUCTION INSPECTION	CONSTRUCTION DOCUMENTS	
SHAL CON DOCI APPL	CRIBED IN PARAGRAPHS 1 THROUGH 5 OF THIS SUBDIVISION. FURTHER, SUPPORTING DOCUMENTATION L PROVIDE ALL INFORMATION NECESSARY FOR A PROGRESS INSPECTOR TO VERIFY DURING STRUCTION THAT THE BUILDING HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION JMENTS TO MEET THE REQUIREMENTS OF THE ENERGY CODE. FOR ADDITIONS AND ALTERATIONS, THE LICANT MUST CLEARLY SHOW THOSE PHYSICAL PORTIONS OF THE SYSTEMS THAT ARE BEING BROUGHT UP ODE AND THOSE THAT ARE NOT BEING UPGRADED.	IID	INTERIOR LIGHTING POWER: LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE VISUALLY INSPECTED TO VERIFY COMPLIANCE WITH HIGH-EFFICACY REQUIREMENTS. OTHERS MAINTENANCE INFORMATION: MAINTENANCE	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION PRIOR TO SIGNOFF	APPROVED CONSTRUCTION DOCUMENTS	404.1 303.3
2. N = REQI	IANDATORY REQUIREMENTS. THE CONSTRUCTION DOCUMENTS SHALL COMPLY WITH ALL MANDATORY JIREMENTS OF THE ENERGY CODE. FOR RESIDENTIAL BUILDINGS COMPLYING WITH ECC CHAPTER 4 /ISIONS, REFERENCES FOR SUCH REQUIREMENTS ARE LISTED THROUGHOUT CHAPTER 4.		MAINTENANCE INFORMATION. MAINTENANCE MANUALS FOR EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER.	OR ISSUANCE OF CERTIFICATE OF OCCUPANCY	CONSTRUCTION DOCUMENTS	303.3
THOS ACCO SUBN	EFERRED SUBMITTALS. DRAWINGS SHOWING DESIGN INTENT AND PERFORMANCE CRITERIA MATCHING SE IN THE ENERGY ANALYSIS MAY BE SUBMITTED AS SUPPORTING DOCUMENTATION PROVIDED THAT, IN ORDANCE WITH SECTION 28-104.2.6 OF THE ADMINISTRATIVE CODE, THE APPLICANT LISTS SUCH DEFERRED MITTALS IN THE CONSTRUCTION DRAWINGS AND SUBMITS THEM FOR APPROVAL PRIOR TO INSTALLATION		LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS.			
OR C ARE <u>ENEF</u>	ONSTRUCTION. IF REQUIRED, THE ENERGY ANALYSIS MUST BE UPDATED WHEN DEFERRED SUBMITTALS PROVIDED FOR APPROVAL. RGY CODE COMPLIANCE REQUIRED PROGRESS INSPECTIONS	ID2	PERMANENT CERTIFICATE: THE INSTALLED PERMANENT CERTIFICATE SHALL BE VISUALLY INSPECTED FOR LOCATION, COMPLETENESS AND ACCURACY.	PRIOR TO FINAL PLUMBING, ELECTRICAL AND/OR CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS	401.3; 1RCNY 500001(G)(5)
APPL	EQUIRED PROGRESS INSPECTIONS. SUPPORTING DOCUMENTATION SHALL ALSO SET FORTH ALL ICABLE REQUIRED PROGRESS INSPECTIONS IN ACCORDANCE WITH THE ENERGY CODE, 1 RCNY §101-07 AS N BELOW.			INSPECTION AS APPLICABLE		

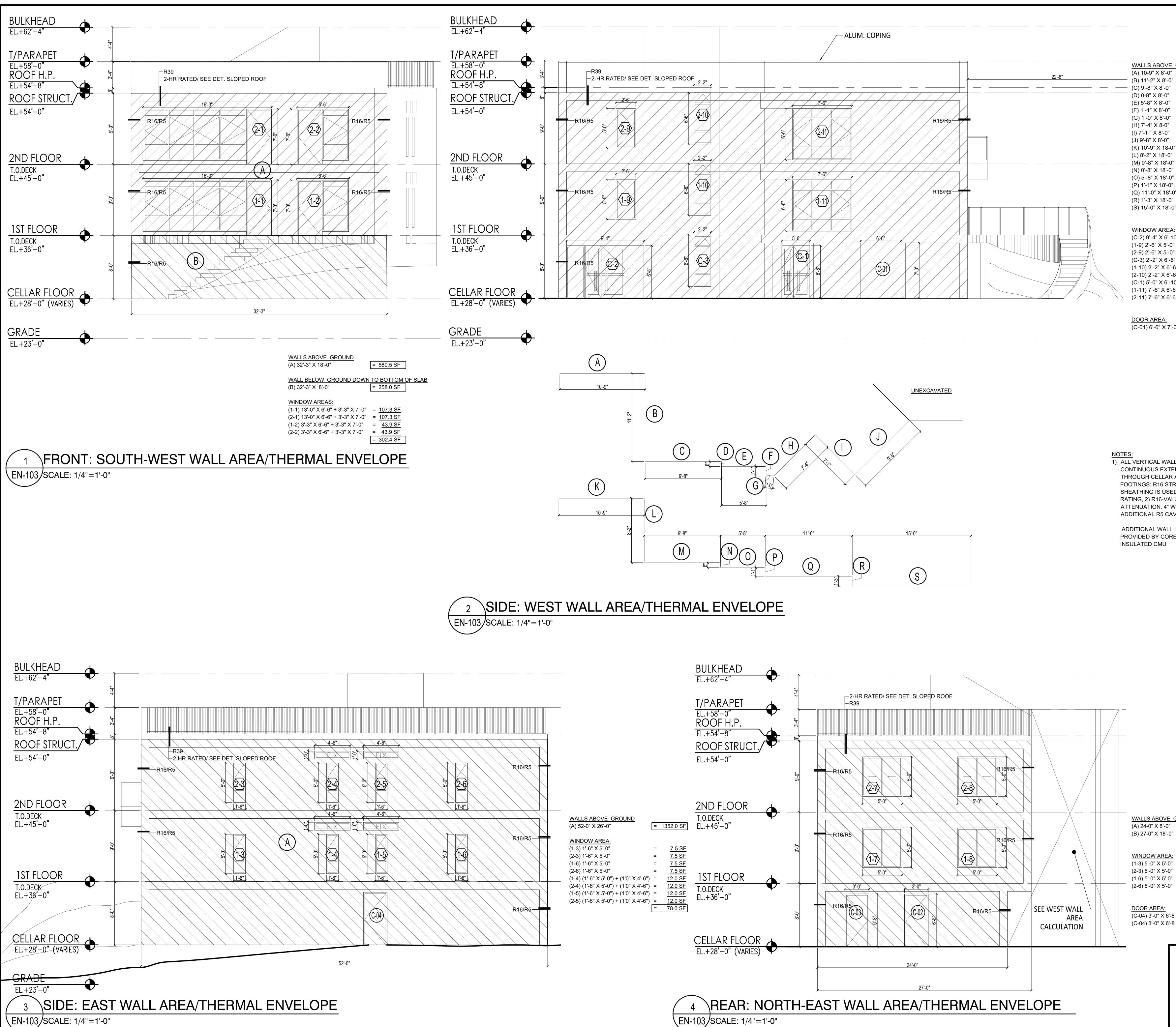
3. RESIDENTIAL BUILDING REFERENCE STANDARDS AND CITATIONS. PROGRESS INSPECTION REFERENCE STANDARDS AND CITATIONS SHALL CONFORM TO THE RESPECTIVE REQUIREMENTS OF ECC CHAPTER 4 OR

B. WHEN ASHRAE 90.1 HAS BEEN USED FOR THE PROJECT DESIGN, AS REFLECTED IN THE ENERGY ANALYSIS,

DNS. IN ACCORDANCE WITH SECTION 28-104.3 OF THE CONSTRUCTED WORK DIFFERS FROM THE LAST-APPROVED YSIS SHALL BE SUBMITTED TO THE DEPARTMENT, LISTING L APPLICABLE ENERGY CODE-REGULATED ITEMS AND TH THE ENERGY CODE. SUCH ENERGY ANALYSIS SHALL BE DFESSIONAL. THE PROGRESS INSPECTOR SHALL CERTIFY D BELIEF THE BUILDING AS BUILT COMPLIES WITH SUCH RUCTION DRAWINGS FOR ENERGY CODE COMPLIANCE: DISCIPLINES, MORE THAN ONE REGISTERED DESIGN S OF THE ENERGY ANALYSIS. THE ENERGY ANALYSIS SHALL

ITIAL E	BUILDINGS		
	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6) OR OTHER CRITERIA	ECC OR OTHER CITATION
NT OR	PRIOR TO BACKFILL	APPROVED CONSTRUCTION DOCUMENTS	303.2.1
LLED TIONS RE THE	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN	APPROVED CONSTRUCTION DOCUMENTS	303.1, 303.1.1, 303.1.2, 402.1, 402.2, 402.4.2.2, TABLE 402.4.2

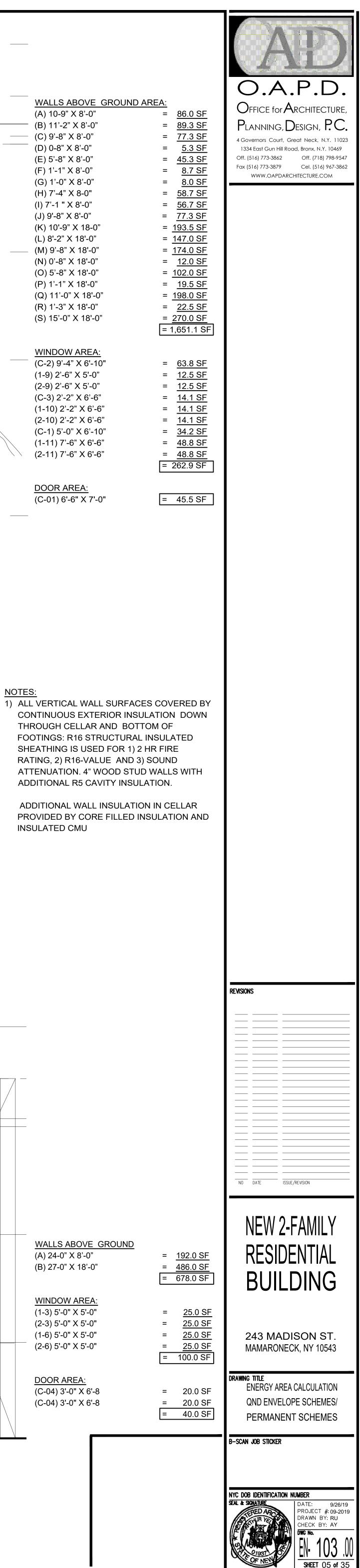






(G) 1'-0" X 8'-0" (H) 7'-4" X 8-0" (I) 7'-1 " X 8'-0" (J) 9'-8" X 8'-0" (K) 10'-9" X 18-0" (L) 8'-2" X 18'-0" (M) 9'-8" X 18'-0" (N) 0'-8" X 18'-0" (O) 5'-8" X 18'-0" (P) 1'-1" X 18'-0" (Q) 11'-0" X 18'-0" (R) 1'-3" X 18'-0" (S) 15'-0" X 18'-0" WINDOW AREA: (C-2) 9'-4" X 6'-10" (1-9) 2'-6" X 5'-0" (2-9) 2'-6" X 5'-0" (C-3) 2'-2" X 6'-6" (1-10) 2'-2" X 6'-6" (2-10) 2'-2" X 6'-6" (C-1) 5'-0" X 6'-10"

(A) 10-9" X 8'-0" (B) 11'-2" X 8'-0" (C) 9'-8" X 8'-0" (D) 0-8" X 8'-0" (E) 5'-8" X 8'-0" (F) 1'-1" X 8'-0"



REScheck Software Version 4.7.1 Compliance Certificate

Project NEW 2-FAMILY RESIDENTIAL BUILDING

Energy Code: Location: Construction Type: Single-family Project Type: Conditioned Floor Area: 3,404 ft2 Glazing Area Climate Zone: Permit Date: Permit Number:

2020 New York City Energy Conservation Code New York, New York New Construction 17% 4 (5362 HDD)

Construction Site: 243 Madison St. Mamaroneck, NY 10543 Owner/Agent:



Compliance: Passes using UA trade-off Compliance: 1.3% Better Than Code Maximum UA: 519 Your UA: 512 Maximum SHGC: 0.40 Your SHGC: 0.40 The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	1,702	29.0	20.0	0.021	3
Skylight 1: Metal Frame:Double Pane with Low-E SHGC: 0.40	24			0.320	
South-West Wall: Wood Frame, 24" o .c.	581	16.0	5.0	0.048	1
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E SHGC: 0.40	302			0.320	9
Basement Wall 1: Masonry Block with Integral Insulation Wall height: 8.0' Depth below grade: 1.0' Insulation depth: 8.0'	258	0.0	5.0	0.133	3
West Wall: Wood Frame, 24" o .c.	1,651	29.0	20.0	0.022	3
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E SHGC: 0.40	263			0.320	8
Door 1: Solid	46			0.320	1
Wall 3: Wood Frame, 24" o .c.	1,352	29.0	20.0	0.022	2
Window 3: Metal Frame with Thermal Break:Double Pane with Low-E SHGC: 0.40	78			0.320	2
Wall 4: Wood Frame, 24" o .c.	678	29.0	20.0	0.022	1
	100			0.320	3

Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 1 of 11 Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumption
402.1.1,	Door U-factor.	U	U		See the Envelope Assemblies
402.3.4 [FR1] ¹				Does Not	table for values.
[FK1]-				□Not Observable □Not Applicable	
402.1.1,	Glazing U-factor (area-weighted	U	U	Complies	See the Envelope Assemblies table for values.
402.3.1, 402.3.3,	average).			Does Not	cable for values.
402.5 [FR2] ¹				□Not Observable □Not Applicable	
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance			Complies	Requirement will be met.
[FR4]-	with the NFRC test procedure or				
	taken from the default table.			□Not Observable □Not Applicable	
402.1.1,	Skylight U-factor.	U	U	Complies	See the Envelope Assemblies
402.3.3, 402.3.6,				Does Not	table for values.
402.5				□Not Observable	
[FR5] ¹				□Not Applicable	
	Air barrier and thermal barrier			Complies	Requirement will be met.
[FR23] ¹	installed per manufacturer's instructions. An approved third-			Does Not	
	party will inspect all components			□Not Observable	
	and verify compliance. See section details and guidance			□Not Applicable	
	from Table R402.4.1.1.				
402.4.3	Fenestration that is not site built			Complies	Requirement will be met.
[FR20] ¹	is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440			Does Not	
	or has infiltration rates per NFRC			□Not Observable □Not Applicable	
	400 that do not exceed code limits.				
402.4.5	IC-rated recessed lighting fixtures				Requirement will be met.
[FR16] ²	sealed at housing/interior finish and labeled to indicate ≤2.0 cfm			Does Not	
	leakage at 75 Pa.			□Not Observable □Not Applicable	
403.3.1	Supply and return ducts in attics insulated >= R-8 where duct is				
[FR12] ¹	>= 3 inches in diameter and >=			□Does Not □Not Observable	
	R-6 where < 3 inches. Supply and				
	return ducts in other portions of the building insulated >= R-6 for			Littlet i ppineabie	
	diameter >= 3 inches and R-4.2 for < 3 inches in diameter.				
403.3.2	Ducts, air handlers and filter			Complies	
[FR13] ¹	boxes are sealed with joints/seams compliant with New			Does Not	
	York City Mechanical Code.			□Not Observable □Not Applicable	
403.3	Duct system in new buildings and				
n naga mini Plata tyadhadi Plata tyadha	cated in a			Does Not	
	403.3.7 (1-2).			□Not Observable □Not Applicable	
	in accordance				
	Jal D and sections			Does Not	
Anny				Not Observable	
	en ingrafia Ingrafian Ingraenen of its na.			□Not Applicable	
	Bene Harriste Bene Harriste Bene mer				
	High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (Ti	ier 3)
Ar particle of the second seco					
na Color Indexe para Internetiene	ILY RESIDENTIAL	BUILDING			Report date: 09/16/2

Section Section # Final Inspection Provisions Plans Verified Field Verified Value Value Complies? Comments/Assumptions & Req.ID 403.6.1 All mechanical ventilation system [FI25]² fans not part of tested and listed Complies Does Not HVAC equipment meet efficacy and air flow limits per Table Not Observable □Not Applicable R403.6.1. 403.6.2 Every dwelling unit is served by a Complies heat recovery ventilator (HRV) or Does Not energy recovery ventilator (ERV) □Not Observable installed per manufacturer's □Not Applicable instructions. The HRV/ERV is listed and sized adequately for the specific application, which will include the building's conditioned area, and number of occupants. 403.6.3 Installed performance of the Complies [FI35]² mechanical ventilation system is Does Not tested and verified by an ■Not Observable approved agency and measured using a flow hood, flow grid, or Not Applicable other airflow measuring device Hot water boilers supplying heat through one- or two-pipe heating Complies 403.2 Does Not systems have outdoor setback □Not Observable control to lower boiler water Not Applicable temperature based on outdoor temperature. 403.5.1.1 Heated water circulation systems Complies [FI28]² have a circulation pump. The Does Not system return pipe is a dedicated □Not Observable return pipe or a cold water supply Not Applicable pipe. Gravity and thermossyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists. 403.5.1.2 Electric heat trace systems Complies [FI29]² comply with IEEE 515.1 or UL Does Not 515. Controls automatically Not Observable adjust the energy input to the □Not Applicable heat tracing to maintain the desired water temperature in the piping. 403.5.2 Demand recirculation water Complies [FI30]² systems have controls that Does Not manage operation of the pump □Not Observable and limit the temperature of the Not Applicable water entering the cold water piping to <= 104ºF.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Report date: 09/16/20 Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 9 of 11 Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

Door 2: Solid Floor 1: Slab-On-Grade:Unheated : Vertical insulation Insulation depth: 1.5' Compliance Statement: The proposed building design calculations submitted with the permit application. The Conservation Code requirements in REScheck Version 4 Inspection Checklist.

Assembly

Name - Title

Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 2 of11 Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

Section #	Framing / Rough-In Inspection	Plan
& Req.ID 403.3.5 [FR15] ³	Building cavities are not used as ducts or plenums.	
403.3.7 [FR28] ³	Ducts located in conditioned space are either: 1) completely within the continuous air barrier and within the building thermal envelope, 2) buried within ceiling insulation in accordance with Section R403.3.6 and the air handler is located completely within the continuous air barrier and within the building thermal envelope and the duct leakage is $\leq = 1.5$ cfm / 100 sf of conditioned floor area served by the duct system, or 3) the ceiling insulation R-value installed against and above the insulated duct $\geq =$ to the proposed ceiling insulation R-value, less the R- value of the insulation on the duct.	
403.4 [FR17] ²	HVAC piping insulation insulated in accordance with Table R403.4. The thickness and conductivity of the insulation >= R-3.	R
403.4.1 [FR24] ¹	Protection of insulation on HVAC piping.	
403.5.3 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R
403.5 [FR29] ²	Energy conservation measures for SWH systems follow guidelines in section R403.5.1-5.	R
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.	

1 High Impact (Tier 1) 2 Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Data filename: C:\Users\jmriumano\Desktop\BASE+ Madison St. Mamaroneck, NY\2020ECC 243 Madiso

Section # & Req.ID	Final Inspection Provisions	P
403.5.4 [FI31] ²	Drain water heat recovery units have >= 40 percent efficiency if installed for equal flow or >=52 percent efficiency if installed for unequal flow. Vertical drain water heat recovery units comply with CSA B55.2 and tested and labeled in accordance with CSA B55.1. Sloped drain water heat recovery units may be used when approved by the department. Potable water-side pressure loss of drain water heat recovery units are < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units are < 2 psi for individual units connected to three or more showers.	
403.5.5(1- 4) [FI33] ²	Heated water supply piping is in acccordance with one of the following: 1) Maximum allowable pipe length method, 2) Maximum allowable pipe volume mehtod, 3) Drain water heat recovery units, or 4) Recirculation Systems.	
404.1 [FI6] ¹	90% or more of permanent fixtures have lamps with an efficacy >= 64 lumens/watt or have a total luminaire efficacy >= 45 lumens/watt.	
404.2 [FI35] ¹	Buildings with individual dwelling units have provisions determine the electrical energy consumed by each unit by separately metering the units.	
404.3 [FI36] ¹	One or two-family dwellings and townhouses with parking area provided on the building site shall have a 208/240V 40-amp outlet for each dwelling unit or panel capacity and conduit for the future installation of such an outlet. See section details.	
404.1.1 [FI23] ³	Fuel gas lighting systems have no continuous pilot light.	
401.3 [FI7] ²	Compliance certificate posted.	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.	

Additional Comments/Assumptions:

Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING

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	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
	40			0.320	13
	149		5.0	0.580	86
described here is consist proposed building has b 4.7.1 and to comply with	ent with the b een designed the mandator	uilding plan to meet the y requireme	is, specifica e 2020 New ents listed i	ations, and o Vork City E In the RES <i>cl</i>	other nergy neck
Signature			Date		

REScheck Soft	ware Vers	ion 4.7.1		
			neen ation C	- d-
nents: 34.0% were addressed e "Comments/Assumptions" col ent, the user certifies that a cod	d directly in the umn is provided l le requirement w	RES <i>check</i> soft by the user in the ill be met and ho	ware e REScheck Requi w that is docume	rements screen. For each nted, or that an exception
Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the NYCECC Commercial Provisions.			□Complies □Does Not □Not Observable □Not Applicable	
Construction document include documentation of thermal bridges per section details of: 1) R402.6.1 Clear field thermal bridges., 2) R402.6.2 Point thermal bridges, and 3) R402.6.3 Linear thermal bridges.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	□Complies □Does Not □Not Observable □Not Applicable	
	Inspectio Energy Code: 2020 Energy Code: 2020 Energy Code: 2020 Senerts: 34.0% were addressed e "Comments/Assumptions" cole atter of the user certifies that a code atter of the user of the	Inspection Check Energy Code: 2020 New York Ci cents: 34.0% were addressed directly in the e "Comments/Assumptions" column is provided ent, the user certifies that a code requirement were laimed. Where compliance is itemized in a separation Pre-Inspection/Plan Review Plans Verified Value Plans Verified Construction drawings and Plans Verified documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate dwelling units must demonstrate compliance with the NYCECC Commercial Provisions. Construction document include Construction of thermal bridges per section details of: 1) R402.6.1 Clear field thermal bridges., 2) R402.6.2 Point thermal bridges, and 3) R402.6.3 Enturbre_methods Heating and cooling equipment is Btu/hr	nents: 34.0% were addressed directly in the REScheck software e "Comments/Assumptions" column is provided by the user in the ent, the user certifies that a code requirement will be met and ho laimed. Where compliance is itemized in a separate table, a refer Pre-Inspection/Plan Review Plans Verified Value Field Verified Value Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents. Plans Verified Value Field Verified Value Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the NYCECC Commercial Provisions. Software Construction document include documentation of thermal bridges, 2) R402.6.2 Point thermal bridges, and 3) R402.6.3 Linear thermal bridges. Heating: Heating: Btu/hr Cooling: Btu/hr Cooling: Btu/hr Cooling: Btu/hr Cooling: Btu/hr Cooling: Btu/hr Cooling: Btu/hr Data table is the service of th	Inspection Checklist Energy Code: 2020 New York City Energy Conservation Conservations: 34.0% were addressed directly in the REScheck software e "Comments/Assumptions" column is provided by the user in the REScheck Requirent, the user certifies that a code requirement will be met and how that is docume laimed. Where compliance is itemized in a separate table, a reference to that table Pre-Inspection/Plan Review Plans Verified Value Complies? Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents. Construction drawings and documentation demonstrate energy code compliance for relighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the NYCECC Commercial Provisions. Complies Construction document include documentation determal bridges., 2) R402.6.2 Point thermal bridges., and 3) R402.6.3. Heating: Heating: Btu/hr Does Not is sized per ACCA Manual S based on loads calculated per ACCA Manual S based on loads calculated per ACCA Heating: Btu/hr Complies

ns Verified Field Verified Complies? Comments/Assumptions Value □Complies □Does Not ■Not Observable □Not Applicable Complies Does Not □Not Observable Not Applicable □Complies □Does Not R-____ □Not Observable □Not Applicable Complies Does Not □Not Observable □Not Applicable R-____ Does Not ■Not Observable Not Applicable Complies R-____ _ Does Not ■Not Observable □Not Applicable Requirement will be met. Complies Does Not

Report date: 09/16/20

Section # & Reg.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values provided.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.1.1, 402.2.5, 402.2.6 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R Wood Mass Steel	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.4.6 [IN14] ¹	Fire separations between dwelling units in two-family dwellings and multiple single- family dwellings (townhouses) insulated >= R-10 and walls are air sealed in accordance with Section R402.4.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING

Additional Comments/Assumptions:

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	Medium Impact (Tier 2)	3	Low Impact (Tier 3)	
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□Not Observable □Not Applicable

Verified alue	Field Verified Value	Complies?	Comments/Assumptions
		Complies	
		□Not Observable	
		□Not Applicable	
		□Complies □Does Not	
		□Not Observable	
		□Not Applicable	
		Complies	
		Does Not	
		Not Applicable	
		Complies	
		□ Not Observable	
		□Not Applicable	
		Complies	
		□Not Observable	
		□Not Applicable	
		Complies	
		Does Not	
		Not Applicable	
		Complies	Requirement will be met.
		□Does Not	
		□Not Applicable	
		Complies	
		Not Observable	
		□Not Applicable	1

Report date: 09/16/20

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Report date: 09/16/20 Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 7 of 11 Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.2 [FO1] ¹	Slab edge insulation R-value.	R Unheated Heated	R Unheated Heated	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.2 [FO3] ¹	Slab edge insulation depth/length.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.1 [FO4] ¹	Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	R R	R R	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.2.9 [FO6] ¹	Conditioned basement wall insulation depth of burial or distance from top of wall.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
403.9 [FO12] ²	Snow- and ice-melting system controls installed.			□Complies □Does Not □Not Observable □Not Applicable	

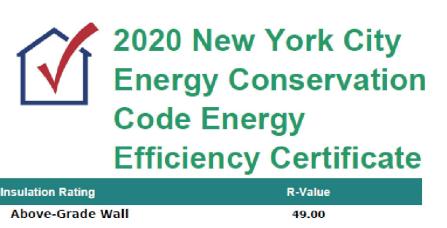
Additional Comments/Assumptions:

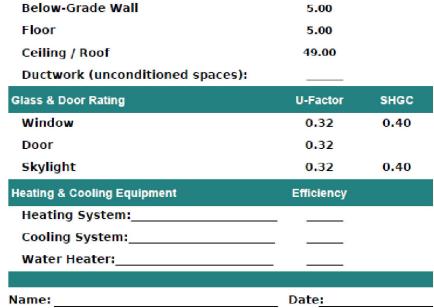
Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Report date: 09/16/20 Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 4 of11

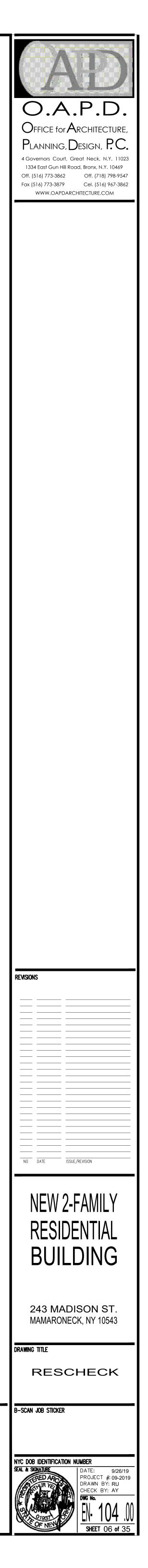
Section #	Final Inspection Provisions	Plans Verified	Field Verified	Complies?	Comments/Assumptions
& Req.ID 402.1.1, 402.2.1,	Ceiling insulation R-value.	R	R	Complies	See the Envelope Assemblies table for values.
402.2.1, 402.2.2, 402.2.6 [FI1] ¹		Uwood Steel	□ Wood □ Steel	Does Not Not Observable Not Applicable	
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
402.2.4 [FI3] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50 =	ACH 50 =	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.3.3 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	cfm/100 ft ²	cfm/100 ft ²	□Complies □Does Not □Not Observable □Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	cfm/100 ft ²	cfm/100 ft ²	□Complies □Does Not □Not Observable □Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			□Complies □Does Not □Not Observable □Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			□Complies □Does Not □Not Observable □Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			□Complies □Does Not □Not Observable □Not Applicable	

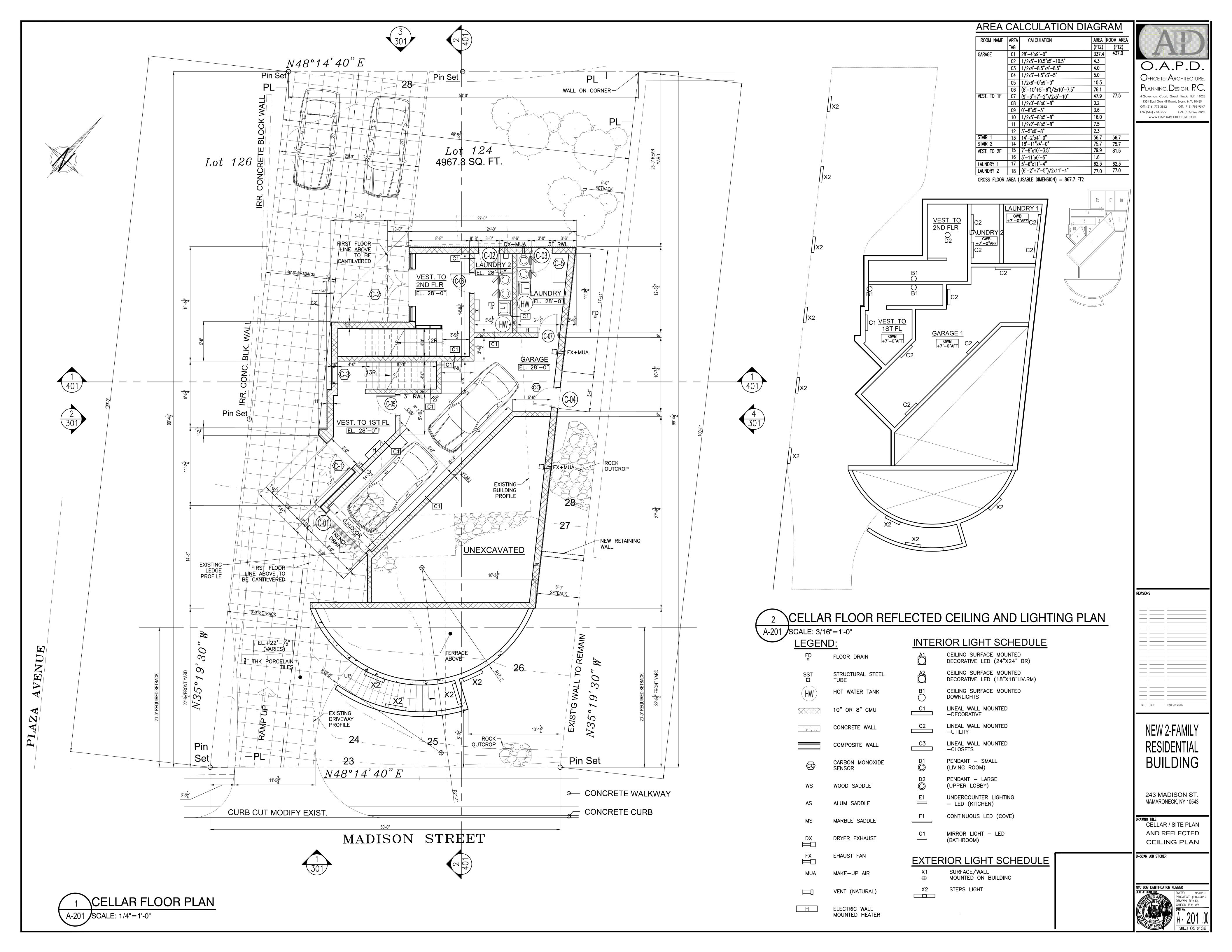
Project Title: NEW 2-FAMILY RESIDENTIAL BUILDING Report date: 09/16/20 Data filename: C:\Users\jmriumano\Desktop\BASE+form.LLC\02 Architecture\Project\AO-190702-243 Page 8 of 11 Madison St. Mamaroneck, NY\2020ECC 243 Madison.rck

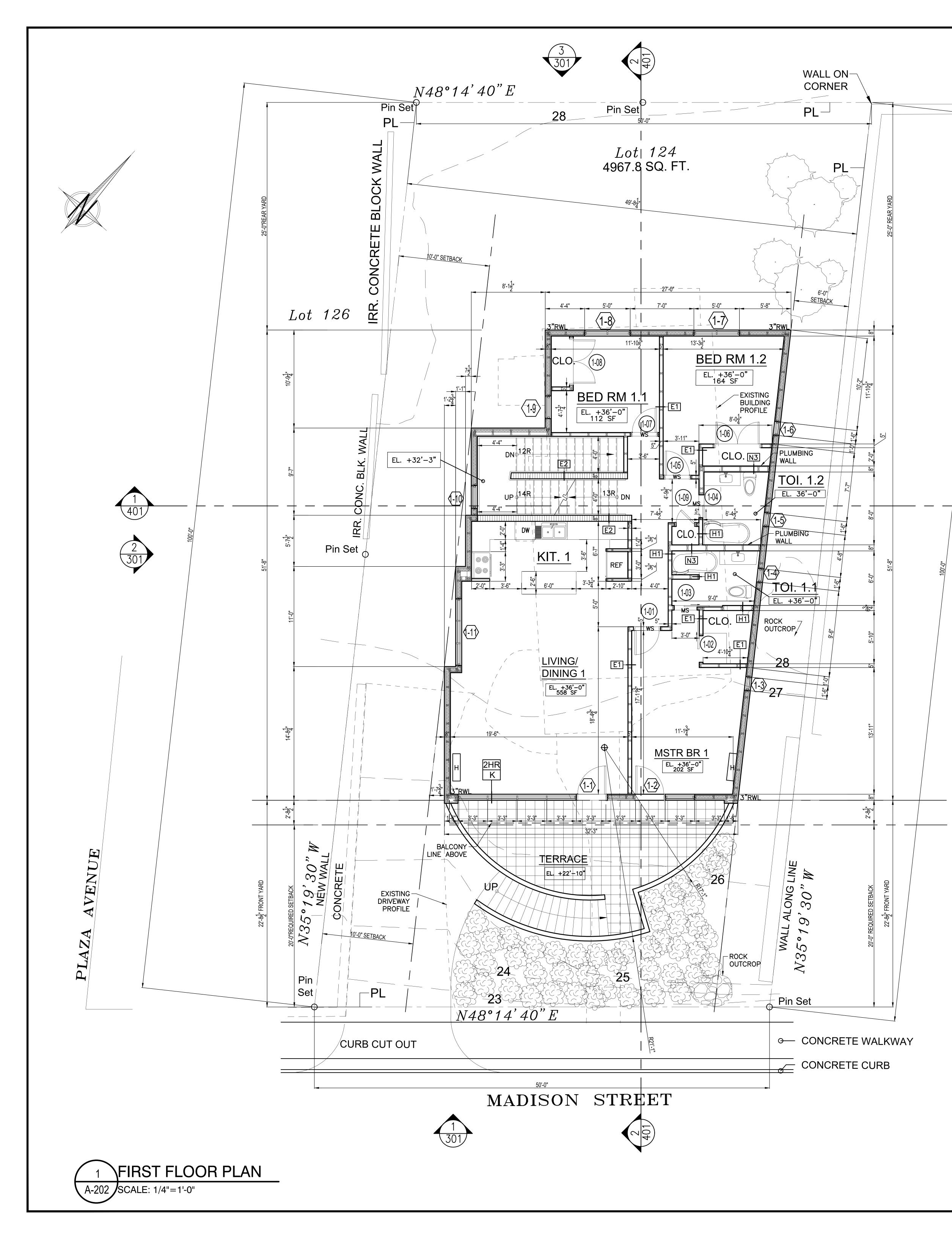




Comments

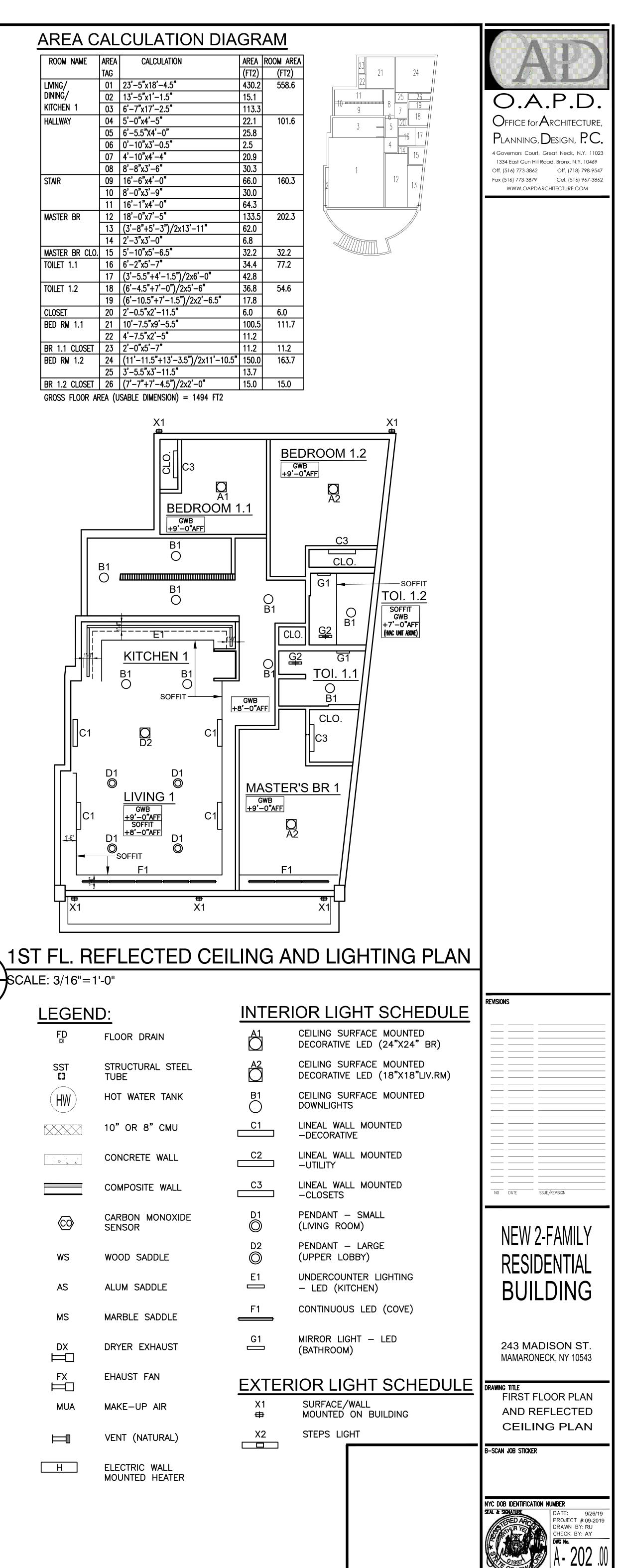






AREA CALCULATION DIAGRAM

ROOM NAME	AREA	CALCULATION	AREA	ROOM AR
	TAG		(FT2)	(FT2)
LIVING/	01	23'-5"x18'-4.5"	430.2	558.6
DINING/	02	13'-5"x1'-1.5"	15.1	
KITCHEN 1	03	6'-7"x17'-2.5"	113.3	
HALLWAY	04	5'-0"x4'-5"	22.1	101.6
	05	6'-5.5"X4'-0"	25.8	
	06	0'-10"x3'-0.5"	2.5	
	07	4'-10"x4'-4"	20.9	
	08	8'-8"x3'-6"	30.3	
STAIR	09	16'-6"x4'-0"	66.0	160.3
	10	8'-0"x3'-9"	30.0	
	11	16'-1"x4'-0"	64.3	
MASTER BR	12	18'-0"x7'-5"	133.5	202.3
	13	(3'-8"+5'-3")/2x13'-11"	62.0	
	14	2'-3"x3'-0"	6.8	
MASTER BR CLO.	15	5'-10"x5'-6.5"	32.2	32.2
TOILET 1.1	16	6'-2"x5'-7"	34.4	77.2
	17	(3'-5.5"+4'-1.5")/2x6'-0"	42.8	
TOILET 1.2	18	(6'-4.5''+7'-0'')/2x5'-6''	36.8	54.6
	19	(6'-10.5"+7'-1.5")/2x2'-6.5"	17.8	
CLOSET	20	2'-0.5"x2'-11.5"	6.0	6.0
BED RM 1.1	21	10'-7.5"x9'-5.5"	100.5	111.7
	22	4'-7.5"x2'-5"	11.2	
BR 1.1 CLOSET	23	2'-0"x5'-7"	11.2	11.2
BED RM 1.2	24	(11'-11.5"+13'-3.5")/2x11'-10.5"	150.0	163.7
	25	3'-5.5"x3'-11.5"	13.7	
BR 1.2 CLOSET	26	(7'-7"+7'-4.5")/2x2'-0"	15.0	15.0



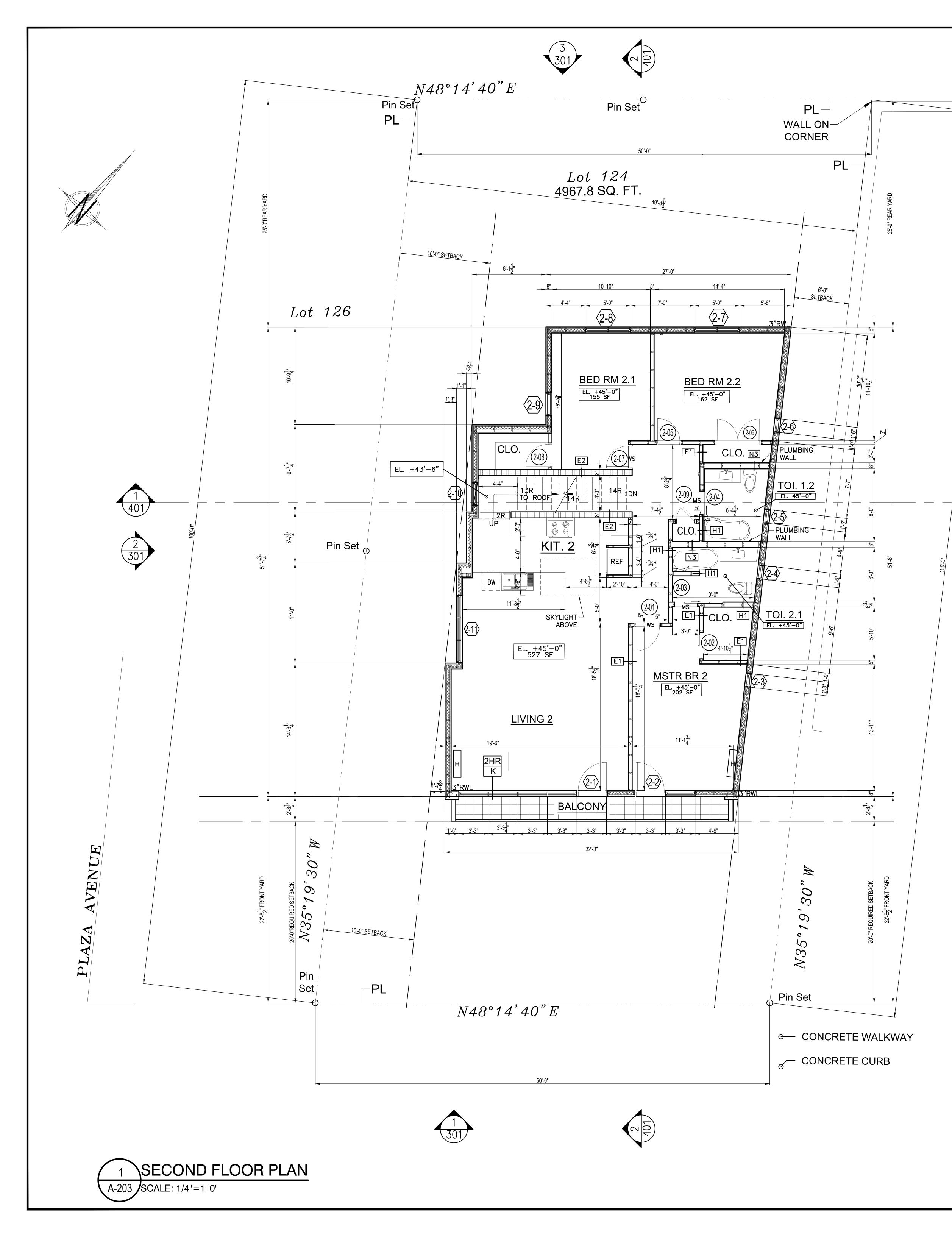
SHEET 06 of 36

$\overline{)}$	1ST	FL.	REFL	ECTE	D CE	EILING	AND	LI

CALE. 3/10 -	I -U		
LEGEN	D:	INTER	
FD	FLOOR DRAIN	A1	C D
SST	STRUCTURAL STEEL TUBE	\bigcirc^{A2}	C D
HW	HOT WATER TANK	B1	C D
	10" OR 8" CMU	C1	L –
	CONCRETE WALL	C2	L –
	COMPOSITE WALL	C3	L –
	CARBON MONOXIDE SENSOR	D1	P (I
WS	WOOD SADDLE	D2 ()	P (I
AS	ALUM SADDLE	E1	U _
MS	MARBLE SADDLE	F1	С
	DRYER EXHAUST	G1	M (1
FX	EHAUST FAN	EXTER	<u> </u>
MUA	MAKE-UP AIR	X1 ⊕	
	VENT (NATURAL)	X2	:
Н	ELECTRIC WALL MOUNTED HEATER		

401 301

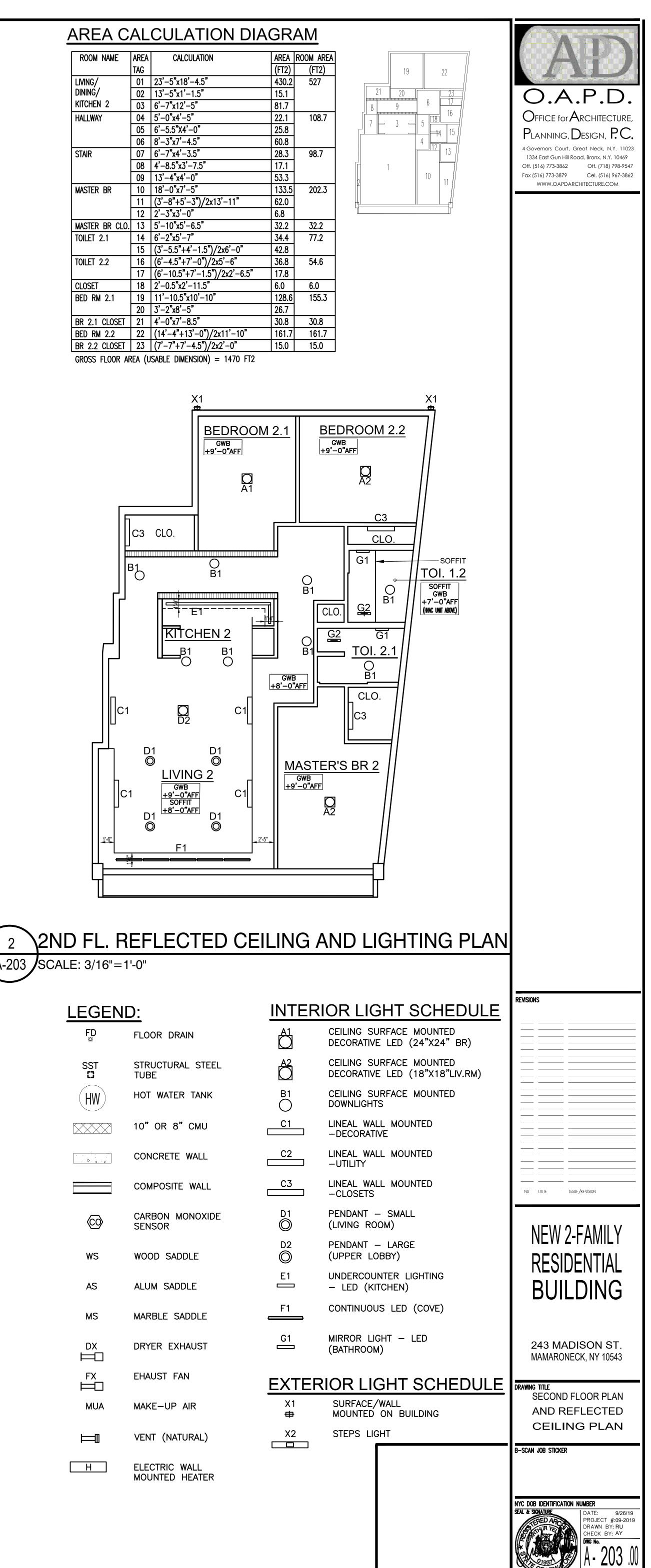
A-202



AREA CALCULATION DIAGRAM

ROOM NAME	AREA	CALCULATION	AREA	ROOM AREA
	TAG		(FT2)	(FT2)
LIVING/	01	23'-5"x18'-4.5"	430.2	527
DINING/	02	13'-5"x1'-1.5"	15.1	
KITCHEN 2	03	6'-7"x12'-5"	81.7	
HALLWAY	04	5'-0"x4'-5"	22.1	108.7
	05	6'-5.5"X4'-0"	25.8	
	06	8'-3"x7'-4.5"	60.8	
STAIR	07	6'-7"x4'-3.5"	28.3	98.7
	08	4'-8.5"x3'-7.5"	17.1	
	09	13'-4"x4'-0"	53.3	
MASTER BR	10	18'-0"x7'-5"	133.5	202.3
	11	(3'-8"+5'-3")/2x13'-11"	62.0	
	12	2'-3"x3'-0"	6.8	
MASTER BR CLO.	13	5'-10"x5'-6.5"	32.2	32.2
TOILET 2.1	14	6'-2"x5'-7"	34.4	77.2
	15	(3'-5.5"+4'-1.5")/2x6'-0"	42.8	
TOILET 2.2	16	(6'-4.5"+7'-0")/2x5'-6"	36.8	54.6
	17	(6'-10.5"+7'-1.5")/2x2'-6.5"	17.8	
CLOSET	18	2'-0.5"x2'-11.5"	6.0	6.0
BED RM 2.1	19	11'-10.5"x10'-10"	128.6	155.3
	20	3'-2"x8'-5"	26.7	
BR 2.1 CLOSET	21	4'-0"x7'-8.5"	30.8	30.8
BED RM 2.2	22	(14'-4"+13'-0")/2x11'-10"	161.7	161.7
BR 2.2 CLOSET	23	(7'-7"+7'-4.5")/2x2'-0"	15.0	15.0

GROSS FLOOR AREA (USABLE DIMENSION) = 1470 FT2



A-203 SCALE: 3/16"=1'-0"

401

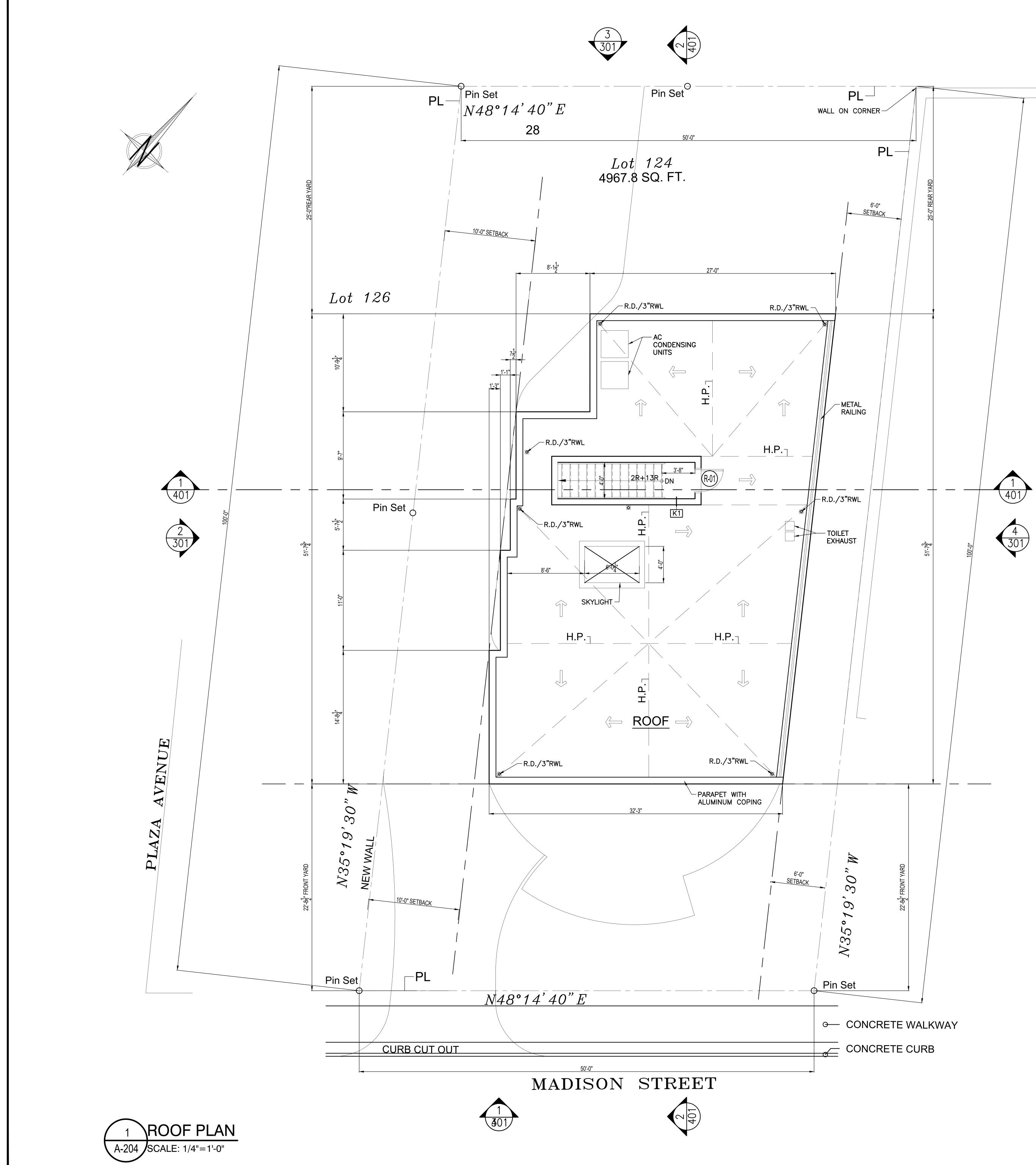
301/

INTEF	RIOR LI
	CEILING S DECORATI
$\overset{\text{A2}}{\bigcirc}$	CEILING S DECORATI
B1	CEILING S DOWNLIGH
C1	LINEAL W —DECORA
C2	LINEAL W —UTILITY
C3	LINEAL W -CLOSET
D1	PENDANT (LIVING R
D2	PENDANT

\bigcirc	(UPPER L
E1	UNDERCO — LED (ł
F1	CONTINUC
G1	MIRROR L (BATHROC

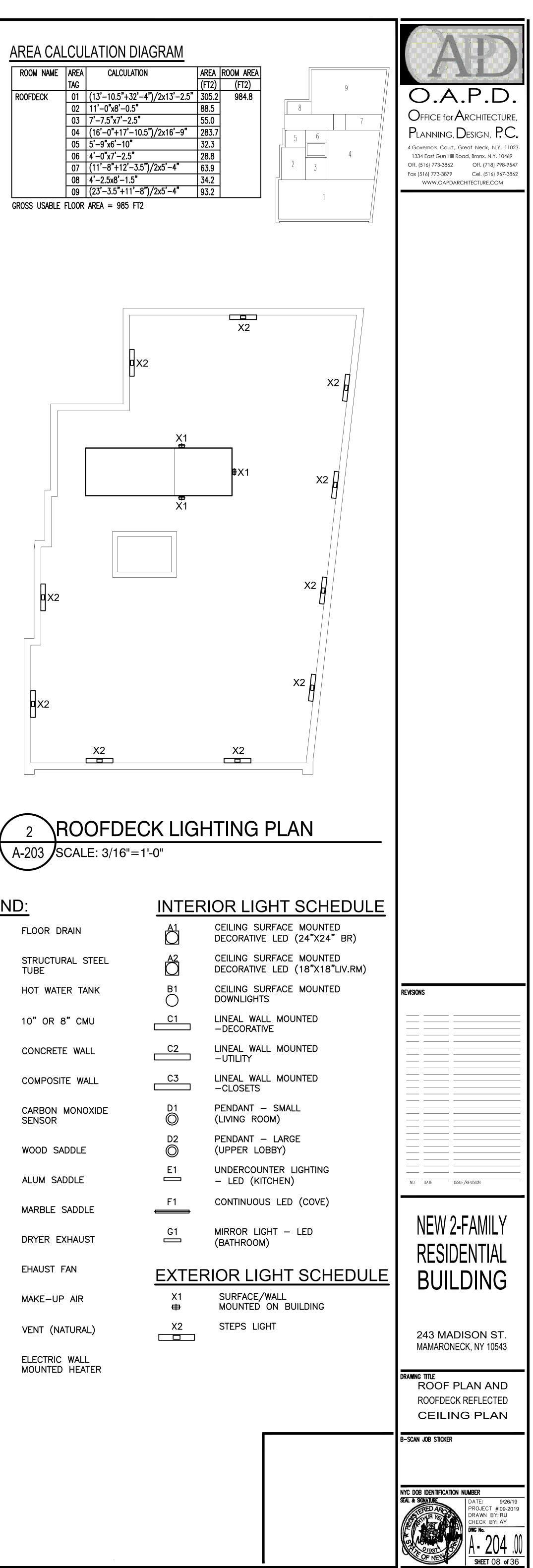
EXTER	RIOR L
X1 ⊕	SURFACI MOUNTE
X2	STEPS L

SHEET 07 of 30



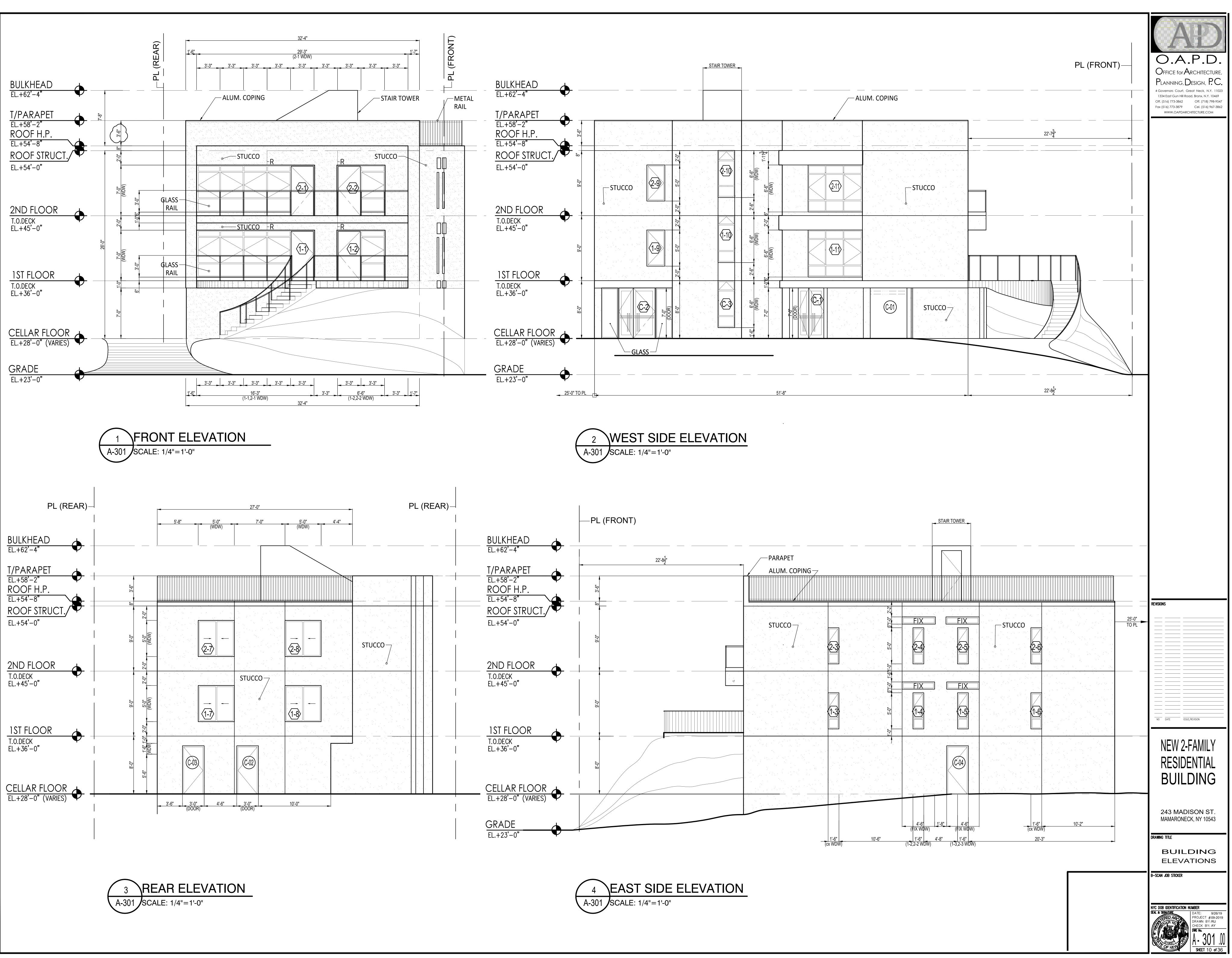


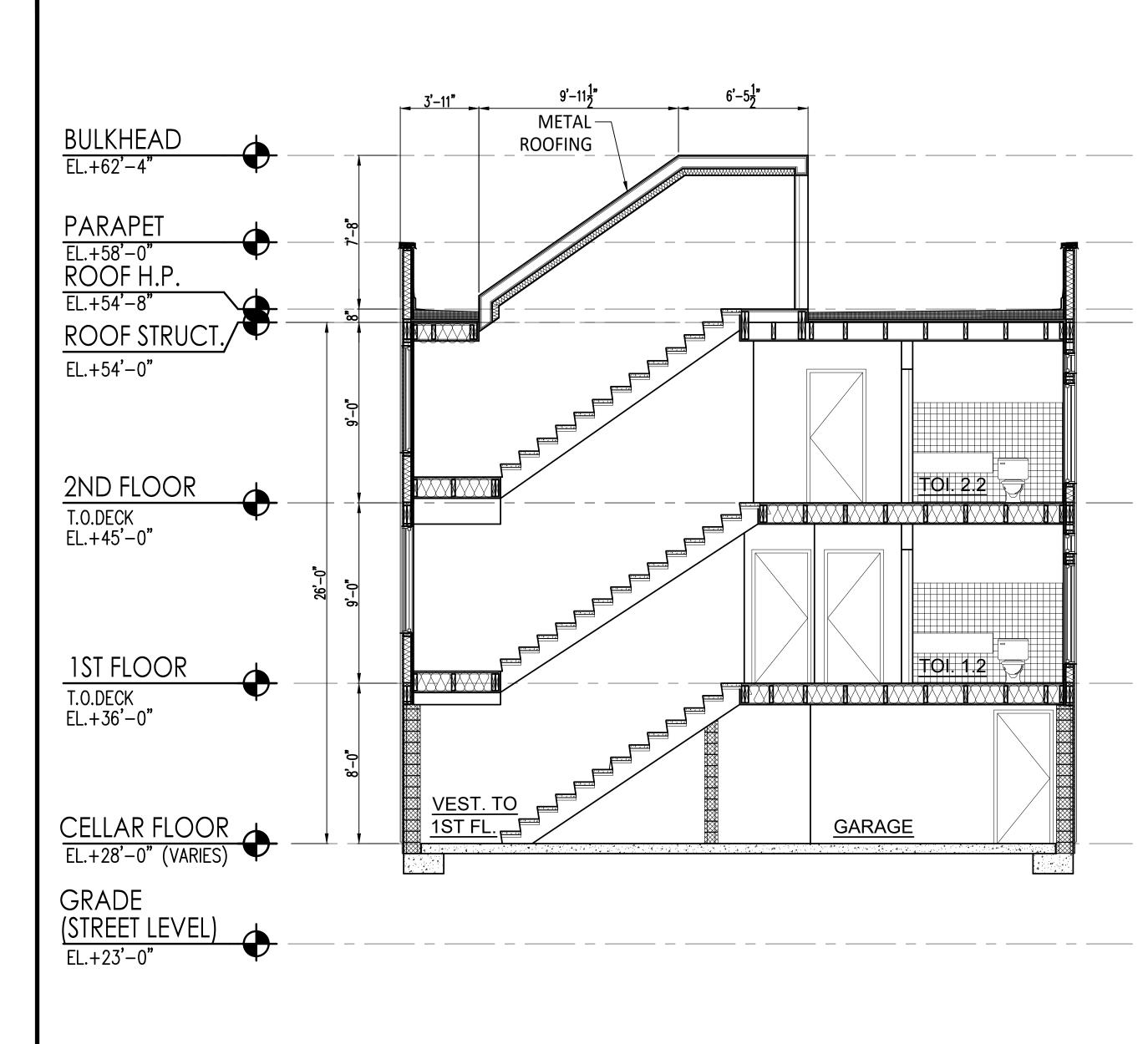
ROOM NAME	AREA	CALCULATION	AREA	ROOM ARE
	TAG		(FT2)	(FT2)
ROOFDECK	01	(13'-10.5"+32'-4")/2x13'-2.5"	305.2	984.8
	02	11'-0"x8'-0.5"	88.5	
	03	7'-7.5"x7'-2.5"	55.0	
	04	(16'-0"+17'-10.5")/2x16'-9"	283.7	
	05	5'-9"x6'-10"	32.3	
	06	4'-0"x7'-2.5"	28.8	
	07	(11'-8"+12'-3.5")/2x5'-4"	63.9	
	08	4'-2.5x8'-1.5"	34.2	
	09	(23'-3.5"+11'-8")/2x5'-4"	93.2	



A-203 SCALE: 3/16"=1'-0"

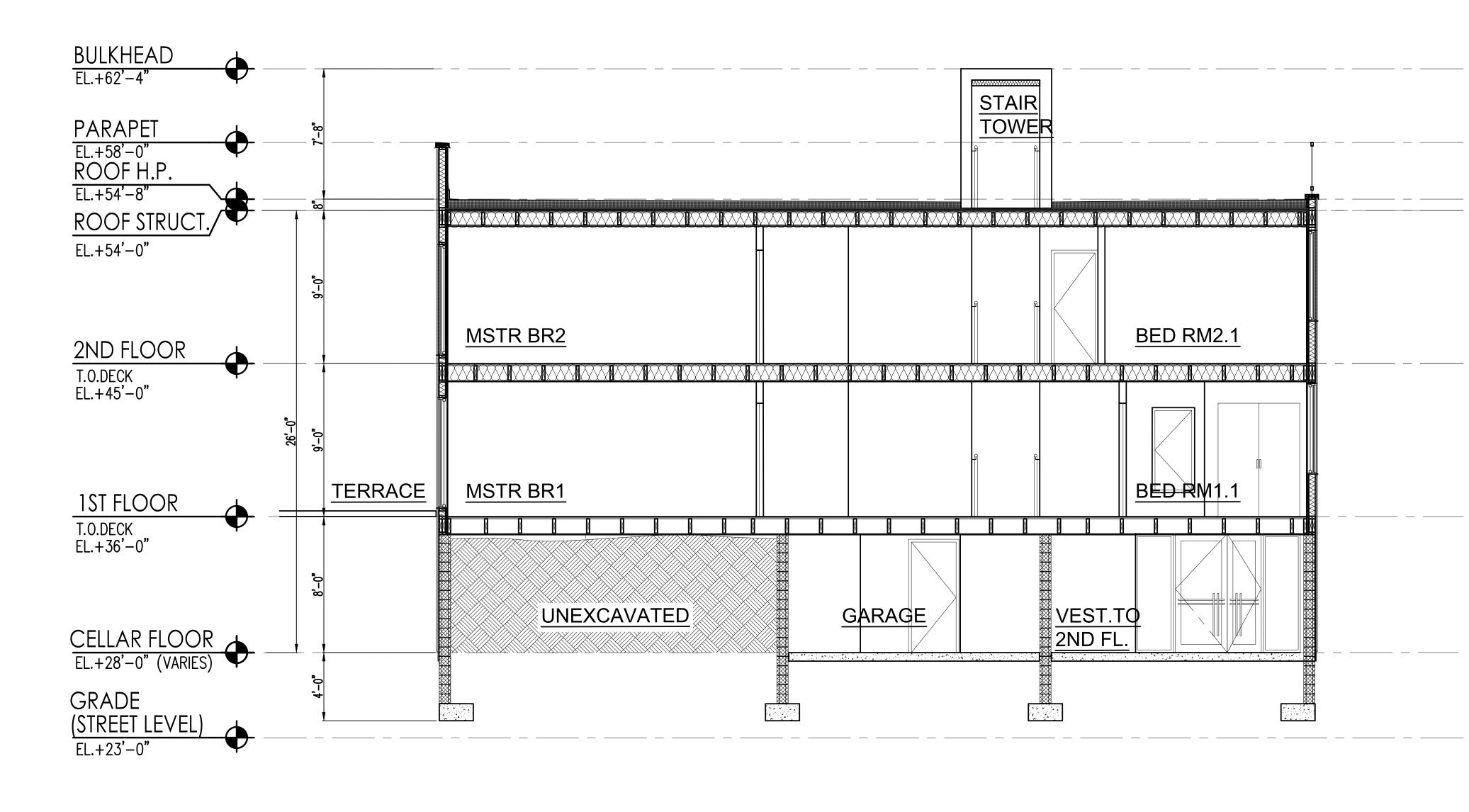
LEGEN	<u>D:</u>	INTER	IOR I
FD	FLOOR DRAIN		CEILIN DECOR
SST	STRUCTURAL STEEL TUBE	\bigcirc^{A2}	CEILIN DECOR
HW	HOT WATER TANK	B1	CEILIN DOWNL
	10" OR 8" CMU	C1	LINEAL -DECC
	CONCRETE WALL	C2	LINEAL —UTILI ⁻
	COMPOSITE WALL	C3	LINEAL —CLOS
	CARBON MONOXIDE SENSOR	D1	PENDA (LIVING
WS	WOOD SADDLE	D2 ()	PENDA (UPPEI
AS	ALUM SADDLE	E1	UNDER – LED
MS	MARBLE SADDLE	F1	CONTIN
	DRYER EXHAUST	G1	MIRROF (BATHF
FX	EHAUST FAN	EXTER	RIOR
MUA	MAKE-UP AIR	X1 母	SURF/ MOUN
	VENT (NATURAL)	X2	STEPS
Н	ELECTRIC WALL MOUNTED HEATER		





 1
 SECTION 1-1

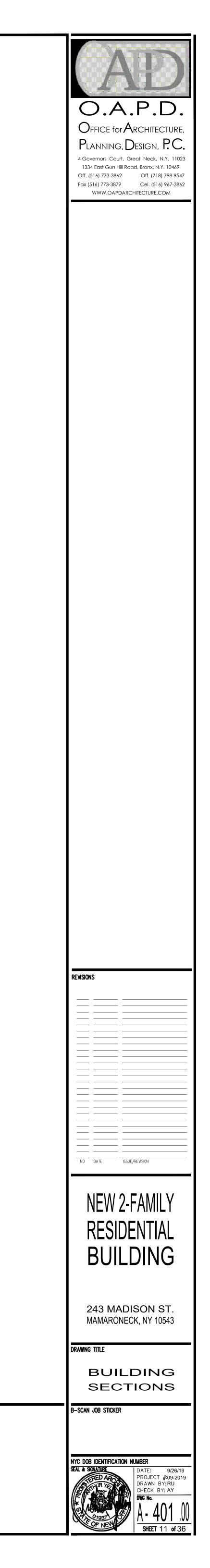
 A-301
 SCALE: 1/4"=1'-0"

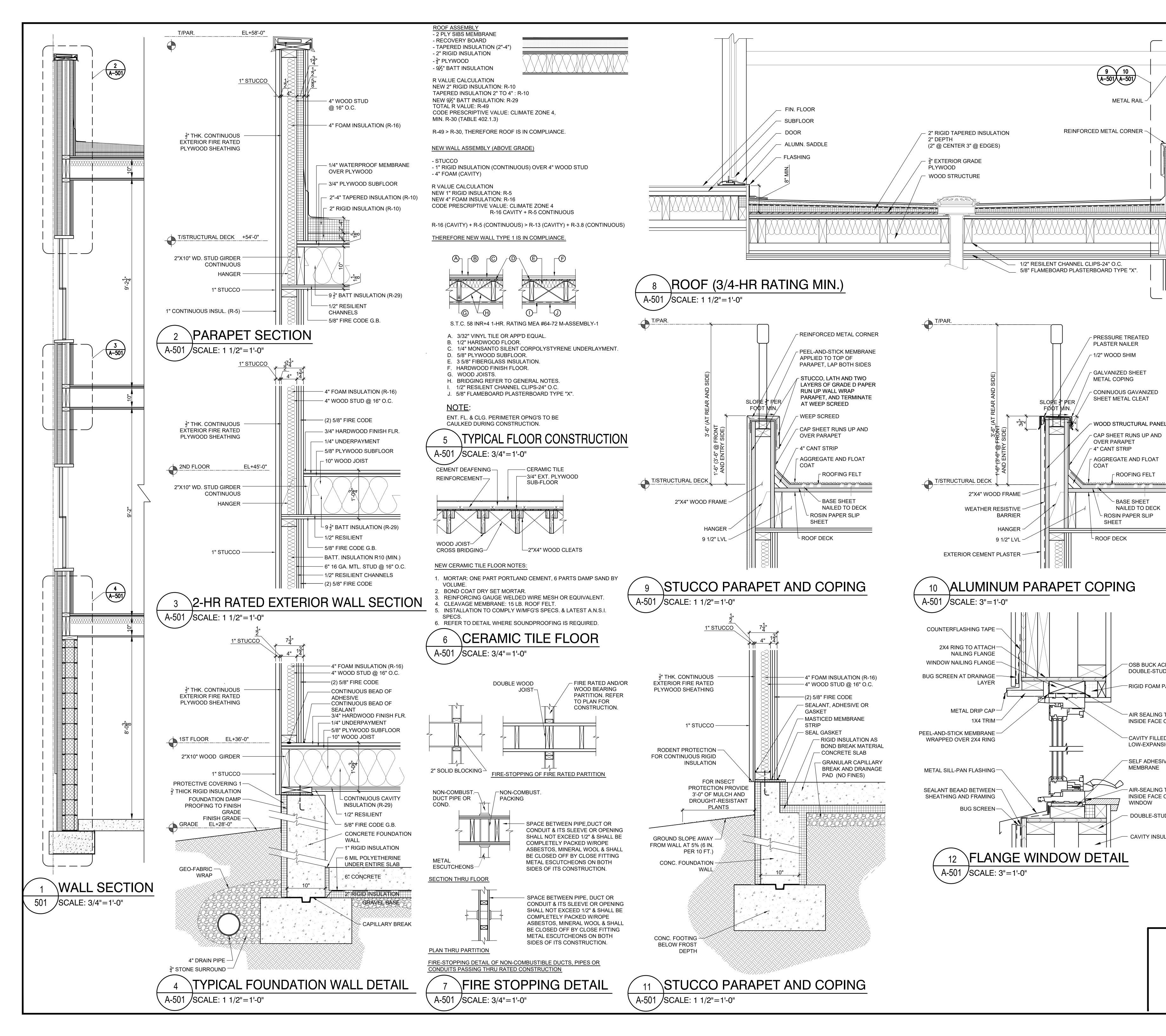


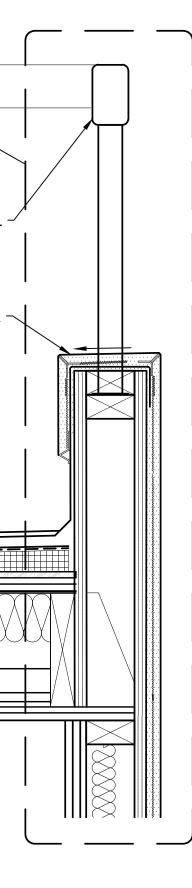
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- OSB BUCK ACROSS DOUBLE-STUD WALI

-RIGID FOAM PADDING

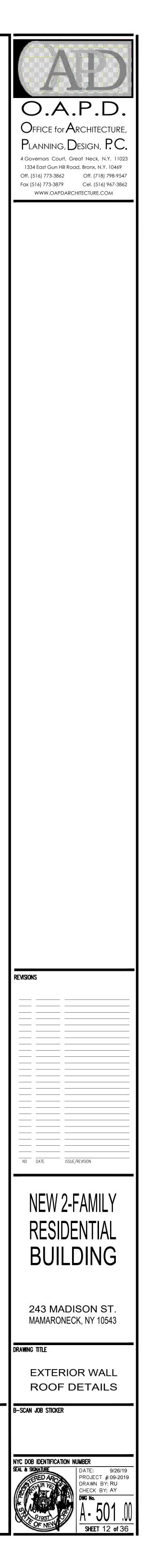
- AIR SEALING TAPE AT INSIDE FACE OF WINDOW

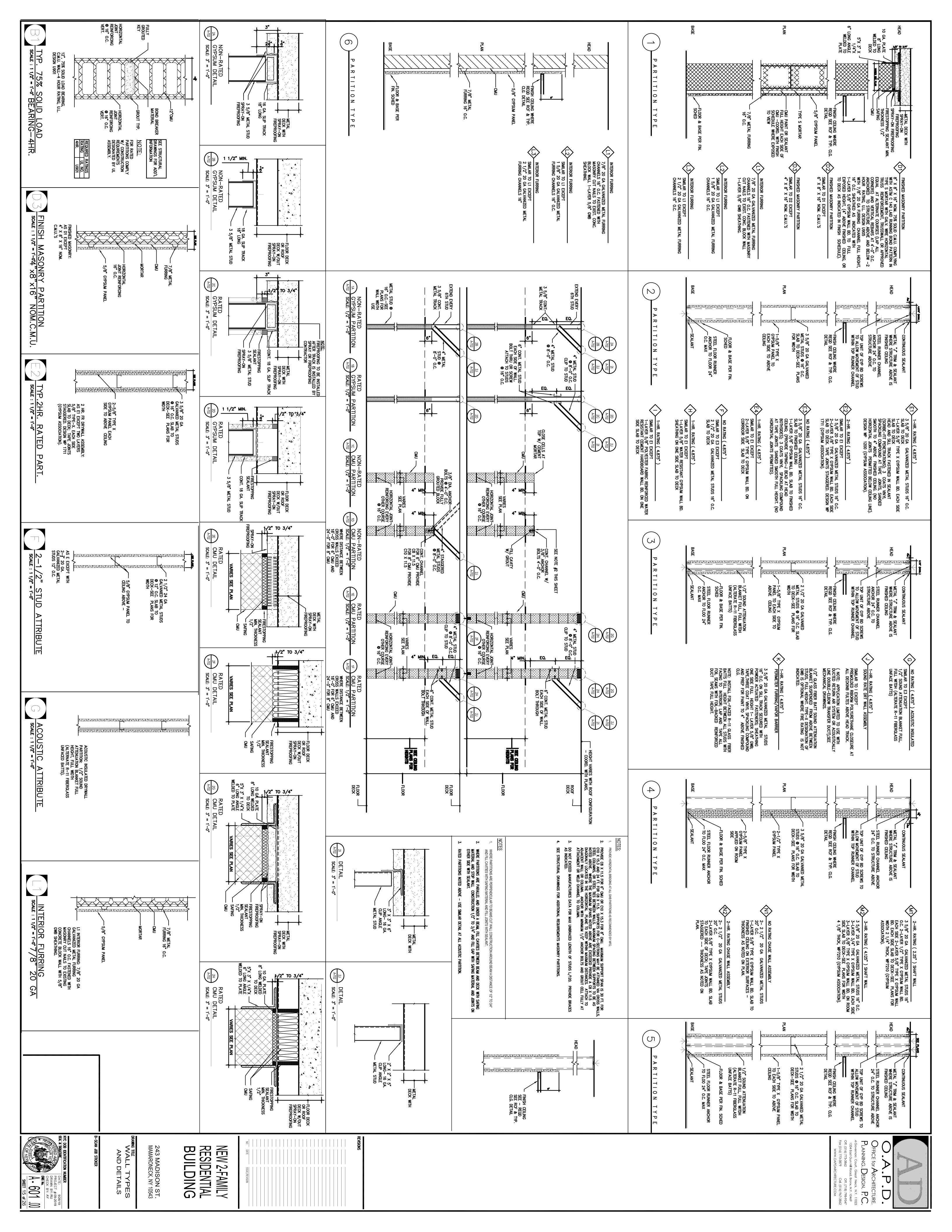
- CAVITY FILLED WITH LOW-EXPANSION FOAM

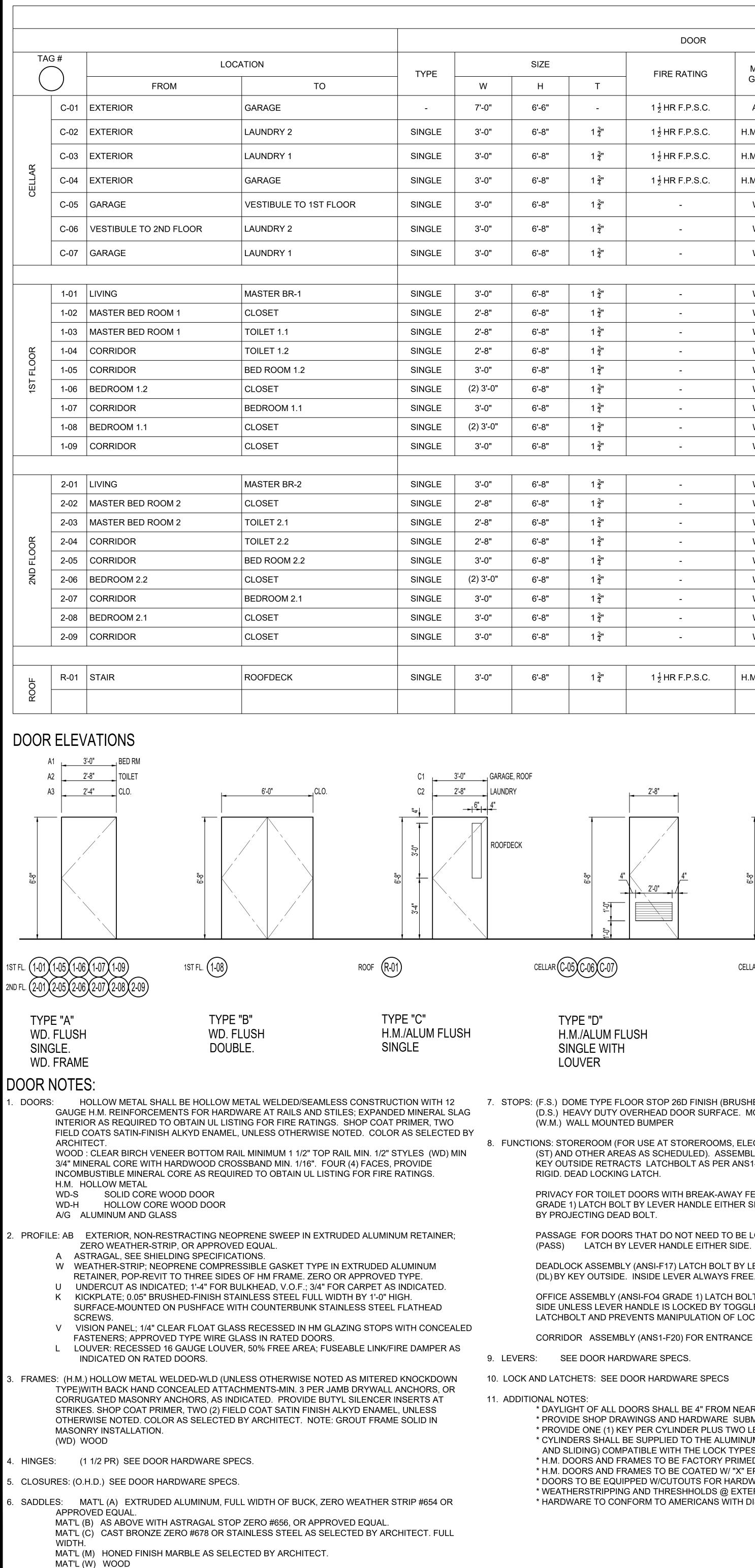
SELF ADHESIVE MEMBRANE

> AIR-SEALING TAPE AT INSIDE FACE OF DOUBLE-STUD WALL

- CAVITY INSULATION







					DOC	DR S	СНЕ	DUL	E								
	DOOR							FRAME					HARDWARE				
Т	FIRE RATING	MAT'L/ GAUGE	ELEVATION	HAND	ACCESSORIES	MAT'L/ GAUGE	NECK SIZE	WALL THICKNESS	FIRE RATING	DETAIL	FUNCTION	HDWR SET	SAI	DDLE MAT'L	STOPPER		REMARKS
-	1 ¹ / ₂ HR F.P.S.C.	ALUM	E	-	-	ALUM	-	-	1 ¹ / ₂ HR	-	-	-	-	-	-	OVERHEAD GARAGE DOOR	
1 3 "	1 ¹ / ₂ HR F.P.S.C.	H.M. 16 GA	С	L	-	H.M. 14 GA.	-	-	1 ½ HR	-	-	-	-	-	-		
1 3 "	1 ¹ / ₂ HR F.P.S.C.	H.M. 16 GA	С	R	-	H.M. 14 GA.	-	-	1 ½ HR	-	-	-	-	-	-		
1 3 "	1 ¹ / ₂ HR F.P.S.C.	H.M. 16 GA	С	L	-	H.M. 14 GA.	-	-	1 ½ HR	-	-	-	-	-	-		
1 3 "	-	WD-S	A	R	_	WD	-	-		-	-	-	C1	WOOD	-		
1 3 "	-	WD-S	A	R	_	WD	-	-		-	-	-	C1	WOOD	-		
1 3 "	-	WD-S	A	R	-	WD	-	-	-	-	-	-	C1	WOOD	-		
				I					I	I							
1 3 "	-	WD-S	A	R	-	WD	-	-	-	-	-	-	C1	WOOD	-		
1	-	WD-S	F	-	-	WD	-	-	-	-	-	-	D1	-	-	SLIDING DOOR	
1 3 "	-	WD-S	F	-	-	WD	-	-	-	-	-	-	D1	-	-	SLIDING DOOR	
1	-	WD-S	F	-	-	WD	-	-	-	-	-	-	D1	-	-	SLIDING DOOR	
1 3 "	-	WD-S	A	L	-	WD	-	-	-	-	-	-	C1	WOOD	-		
1 3 "	-	WD-S	В	-	-	WD	-	-	-	-	-	-	-	-	-		
1 3 "	-	WD-S	A	R	-	WD	-	-	-	-	-	-	C1	WOOD	-		
1 3 "	-	WD-S	В	_	-	WD	-	-	-	-	-	-	_	_	-		
1 3 "	-	WD-S	A	R	-	WD	-	-	-	-	-	-	-	-	-		
1 3 "	-	WD-S	A	R	-	WD	_	-	-	-	_	-	C1	WOOD	-		
1 3 "	-	WD-S	F	_	_	WD	_	-	_	_	-	-	D1	_	-	SLIDING DOOR	
1 3 "		WD-S	F	-	-	WD	-	-	_	-	-	-	D1	-	-	SLIDING DOOR	
1 3 "	-	WD-S	F	-	-	WD	-	-	-	-	-	-	D1	-	-	SLIDING DOOR	
1 <u>3</u> "	-	WD-S	A	L	_	WD	-	-	-	-	-	-	C1	WOOD	-		
1 3 "	-	WD-S	В	-	_	WD	-	-	-	-	_	-	-	-	-		
1 3 "	_	WD-S	A	R	_	WD	_	-	-	-	_	_	C1	WOOD	-		
1 3 "	-	WD-S	В		_	WD		-		-	-	-	-		-		
1 3 "	-	WD-S	A	R	_	WD		-		-	-	-	-	-	-		
				<u> </u>				1	<u> </u>	<u> </u>				<u> </u>	I		
1 3 "	1 ¹ / ₂ HR F.P.S.C.	H.M. 16 GA	С	L	-	H.M. 14 GA.	-	-	1 ¹ / ₂ HR	-	-	-	-	-	-	WITH VISION PANEL	

A3 3'-0" EXT

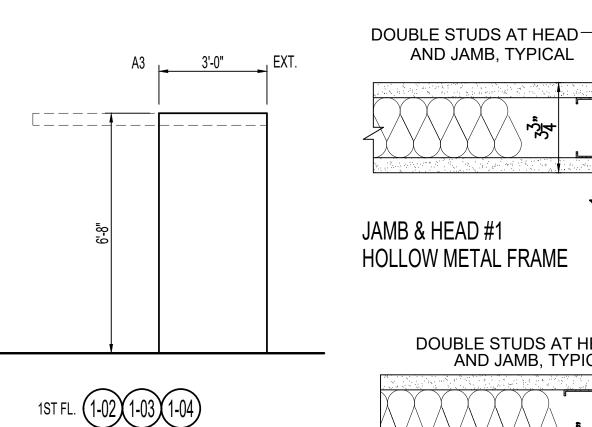
CELLAR C-02 C-03 C-04



6'-6"	 GARAGE

CELLAR C-01

TYPE "E" H.M./ALUM OVERHEAD GARAGE DOOR



2ND FL. 2-02 2-03 2-04

TYPE "F"
WD. FLUSH
SINGLE.
WD. FRAME, SLIDING

7. STOPS: (F.S.) DOME TYPE FLOOR STOP 26D FINISH (BRUSHED CHROME). (D.S.) HEAVY DUTY OVERHEAD DOOR SURFACE. MOUNTED STOP.

8. FUNCTIONS: STOREROOM (FOR USE AT STOREROOMS, ELECTRICAL, TELEPHONE AND JANITOR CLOSETS (ST) AND OTHER AREAS AS SCHEDULED). ASSEMBLY (ANSI-FO7) LATCH BY LEVER HANDLE INSIDE. KEÝ OUTSIDE RETRACTS LATCHBOLT ÁS PER ANS1-BHMA F707. OUTSIDE LEVER HANDLE ALWAYS

> PRIVACY FOR TOILET DOORS WITH BREAK-AWAY FEATURE. ASSEMBLY (ANSI-FO2 (PR) AND F19 GRADE 1) LATCH BOLT BY LEVER HANDLE EITHER SIDE EXCEPT WHEN OUTSIDE KNOB IS LOCKED

PASSAGE FOR DOORS THAT DO NOT NEED TO BE LOCKED. ASSEMBLY (ANSI-FO1 GRADE 1)

DEADLOCK ASSEMBLY (ANSI-F17) LATCH BOLT BY LEVER EITHER SIDE. DEADLOCKING LATCH. (DL) BY KEY OUTSIDE. INSIDE LEVER ALWAYS FREE.

OFFICE ASSEMBLY (ANSI-FO4 GRADE 1) LATCH BOLT BY KEY OUTSIDE AND LEVER. HANDLE EITHER SIDE UNLESS LEVER HANDLE IS LOCKED BY TOGGLE ACTION STOP AUXILIARY LATCH DEADLOCKS LATCHBOLT AND PREVENTS MANIPULATION OF LOCKED TOGGLE ACTION STOP.

CORRIDOR ASSEMBLY (ANS1-F20) FOR ENTRANCE (CORR.)

* DAYLIGHT OF ALL DOORS SHALL BE 4" FROM NEAREST INSIDE CORNER U.O.N.

* PROVIDE SHOP DRAWINGS AND HARDWARE SUBMITTALS FOR ALL DOORS. * PROVIDE ONE (1) KEY PER CYLINDER PLUS TWO LEVEL MASTERING.

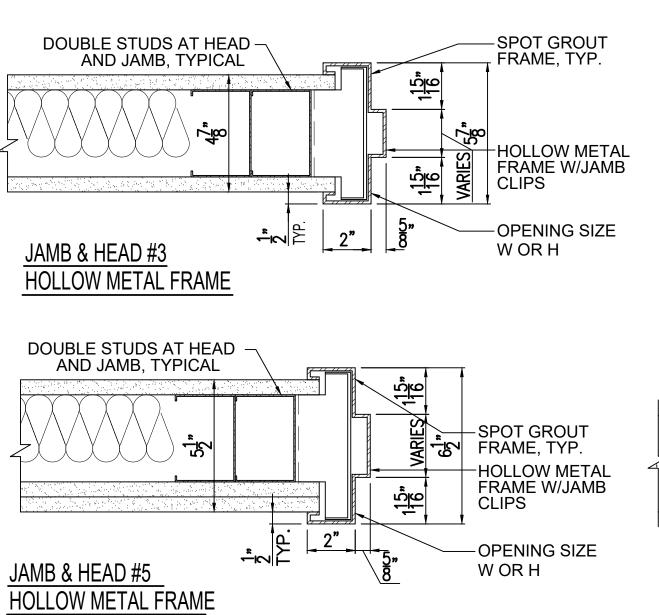
* CYLINDERS SHALL BE SUPPLIED TO THE ALUMINUM AND GLASS DOORMANUFACTURERS (HINGED AND SLIDING) COMPATIBLE WITH THE LOCK TYPES.

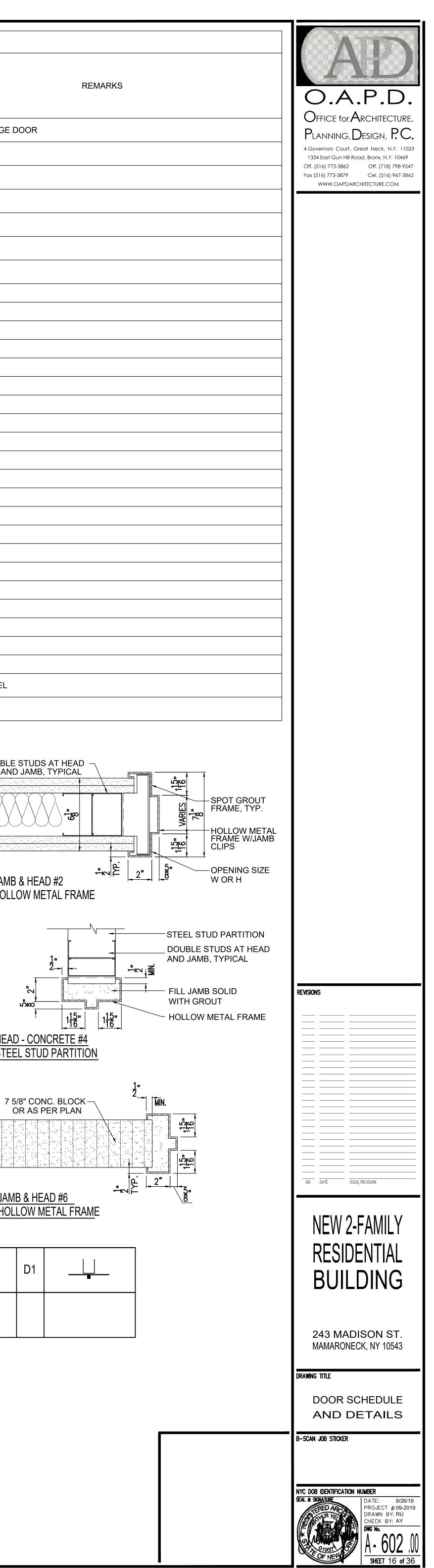
* H.M. DOORS AND FRAMES TO BE FACTORY PRIMED.

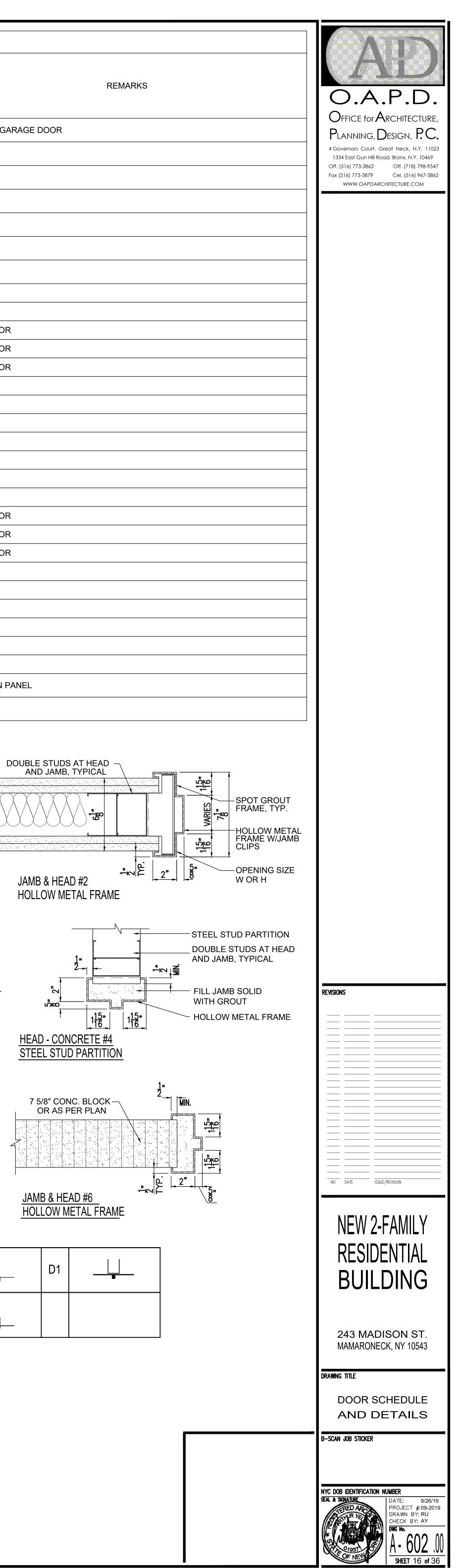
* H.M. DOORS AND FRAMES TO BE COATED W/ "X" EPOXY PAINT AT WET AREAS.

* DOORS TO BE EQUIPPED W/CUTOUTS FOR HARDWARE. * WEATHERSTRIPPING AND THRESHHOLDS @ EXTERIOR DOORS.

* HARDWARE TO CONFORM TO AMERICANS WITH DISABILITIES ACT.







SADDLE TYPE

JAMB AND HEAD DETAILS:

_**⊷ٍ∿** أو

A1	GASKET	B1	GASKET	C1	D1	
A2		B2		C2		

-SPOT GROUT FRAME, TYP.

HOLLOW METAL

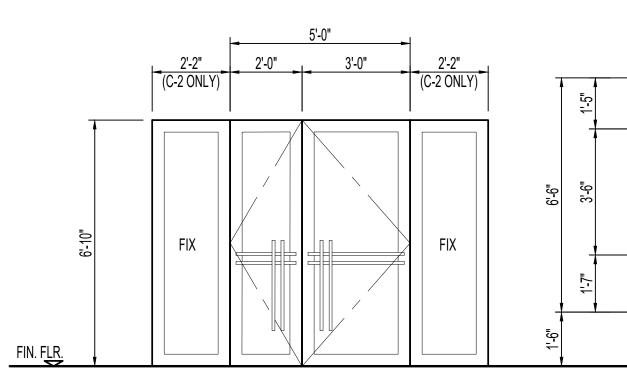
CLIPS

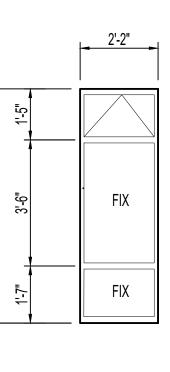
W OR H

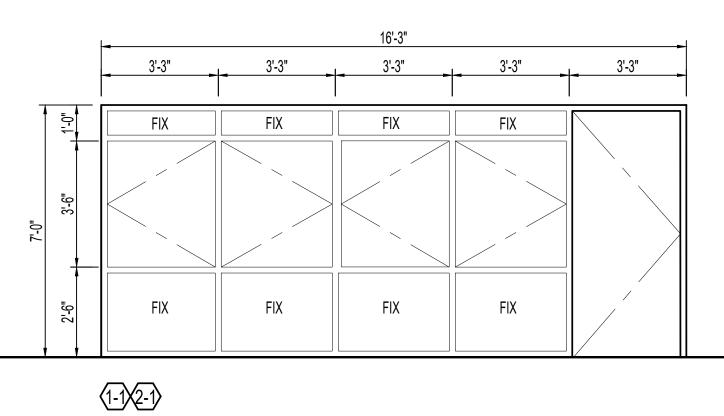
-OPENING SIZE

TAG #										SCHE									
	LOCATION	SIZE (ROUGH	H OPENING)		GHT (H)	NO. OF PANE	QTY	ТҮРЕ	MATERIAL	FIRE RATING	"U" VALUE	"SGHC" VALUE	OITC RATING	HARDWARE	MANUFACTURER	MODEL	COLOR		REMARKS
		W	Н	SILL HEIGHT FROM FIN. FLR	HEADER HEIGHT FROM FIN. FLR		Q. I.				0 VALUE			HDWR SET	WARNER AND THE REAL	MODEL	00LOIN		
r Gr	VESTIBULE TO 1ST FLOOR	3'-0"+ 2'-0"	6'-10"	0'-0"	6'-10"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
ELLA	VESTIBULE TO 2ND FLOOR	3'-0"+ 2'-0"+(2)2'-0"	6'-10"	0'-0"	6'-10"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND	WITH FIX GLASS	
0 63	STAIR	2'-2"	6'-6"	1'-6"	8'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
11	LIVING	16'-3"	7'-0"	0'-0"	7'-0"	5	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
12	MASTER BEDROOM 1	6'-6"	7'-0"	0'-0"	7'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
13	MASTER BEDROOM 1	1'-6"	5'-0"	1'-0"	6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
14	TOILET 1.1	4'-6" 1'-6"	1'-0" 5'-0"	6'-6" 1'-0"	7'6" 6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
5 15	TOILET 1.2	4'-6" 1'-6"	1'-0" 5'-0"	6'-6" 1'-0"	7'6" 6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
ELO FLO	BEDROOM 1.2	1'-6"	5'-0"	1'-0"	6'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
1ST 1ST	BEDROOM 1.1	5'-0"	5'-0"	2'-0"	7'-0"	2	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
18	BEDROOM 1.2	5'-0"	5'-0"	2'-0"	7'-0"	2	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
1.9	BEDROOM 1.1	2'-6"	5'-0"	2'-0"	7'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.35	-	-	-	PTND		
110	STAIR	2'-2"	6'-6"	1'-6"	8'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
2-11	KITCHEN 1	7'-6"	7'-0"	0'-6"	7'-0"	3	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
										1				1			1		
21	LIVING	16'-3"	7'-0"	0'-0"	7'-0"	5	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
22	MASTER BEDROOM 2	6'-6"	7'-0"	0'-0"	7'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
2-3	MASTER BEDROOM 2	1'-6"	5'-0"	1'-0"	6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
2-4	TOILET 2.1	4'-6" 1'-6"	1'-0" 5'-0"	6'-6" 1'-0"	7'6" 6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
YO 25	TOILET 2.2	4'-6" 1'-6"	1'-0" 5'-0"	6'-6" 1'-0"	7'6" 6'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
	BEDROOM 2.2	1'-6"	5'-0"	1'-0"	6'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
CNZ 24	BEDROOM 1.1	5'-0"	5'-0"	2'-0"	7'-0"	2	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
28	BEDROOM 1.2	5'-0"	5'-0"	2'-0"	7'-0"	2	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
2-9	BEDROOM 2.1	2'-6"	5'-0"	2'-0"	7'-0"	1	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.35	-	-	-	PTND		
210	STAIR	2'-2"	6'-6"	1'-6"	8'-0"	SEE ELEVATION	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	-	-	-	PTND		
2-11	KITCHEN 2	7'-6"	7'-0"	0'-6"	7'-0"	3	1	SEE ELEVATION	ALUM + GLASS	N/A	0.26	0.40	0.30	_	-	-	PTND		

WINDOW ELEVATIONS:







(C-1)(C-2)

QUANTITY: 2

LOCATION: VESTIBULE TO 1ST AND 2ND FLOOR TYPE: CUSTOMIZED DOUBLE SWING DOOR

LEGEND:

- SL. SLIDER
- SW. SWINGING PANEL FL. FOLDING PANEL
- FX. FIXED GLASS (CLEAR U.O.N.) SP. SPANDREL PANEL (OPAQUE U.O.N.)
- AW. AWNING TYPE WINDOW
- SCR. SCREEN

QUANTITY: 3 LOCATION: STAIR TYPE: CUSTOMIZED DOUBLE SWING DOOR

C-3(1-10)(2-10)

S. - SILL (BOTTOM RAIL)

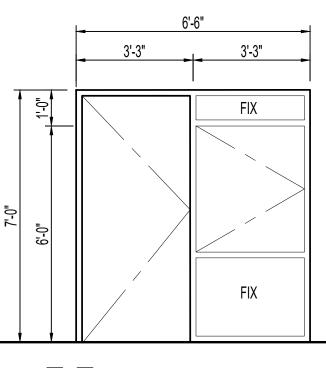
- LVR. LOUVER INT. INTERIOR
- EXT. EXTERIOR
- DIM. DIMENSION GLS. GLASS
- WINDOW NOTES:
- 1. ALL GLASS TO BE 1" CLEAR INSULATING GLASS, UNLESS OTHERWISE NOTED
- 2. ALL GLASS BELOW THE HEIGHT OF 1'-6" ABOVE THE FINISHED FLOOR TO BE $\frac{1}{4}$ " CLEAR TEMPERED GLASS
- 3. WINDOW FRAMES TO BE FACTORY PAINTED KINAR FINISH
- 4. SPANDREL PANELS TO BE OPAQUE GLASS TO MATCH WINDOW FRAMES
- 5. LOUVER SECTIONS TO BE FIXED BLADE, FACTORY PAINTED KINAR FINISH ALUMINUM
- 6. ALL ALUMINUM DOORS, WINDOWS AND STOREFRONT FRAMES TO BE COMMERCIAL GRADE WITH THERMAL BREAKS
- 7. ALL WINDOWS TO HAVE INSECT SCREENS @ INTERIOR SIDE
- 8. UNLESS OTHERWISE NOTED, DOORS AND WINDOWS AT FLOOR LEVEL ARE TO HAVE BASE PANELS 7-1/4" HIGH
- 9. ALUMINUM SILLS @ ALL WINDOWS

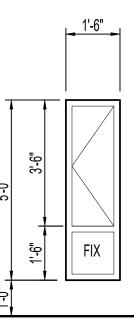
THE AIR LEAKAGE OF WINDOW AND SLIDING OR SWINGING DOOR ASSEMBLIES THAT ARE PART OF THE BUILDING ENVELOPE SHALL BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, OR NFRC 400 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER AND SHALL NOT EXCEED 0.3 CFM PER SQUARE FOOR (1.5L/S/M2), AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT (2.6 L/S/M2)

CURTAIN WALL, STOREFRONT GLAZING AND COMMERCIAL-GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS SHALL BE TESTED FOR AIR LEAKAGE AT 1.57 POUNDS PER SQUARE FOOT (PSF) (75 PA) IN ACCORDANCE WITH ASTM E 283.

FOR CURTAIN WALLS AND STOREFRONT GLAZING, THE MAXIMUM AIR LEAKAGE RATE SHALL BE 0.3 CUBIC FOOT PER MINUTE PER SQUARE FOOT (CFM/FT2) (5.5 M3/H X M2) OF FENESTRATION AREA.

FOR COMMERCIAL GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS, THE MAXIMUM AIR LEKAGE RATE SHALL BE 1.00 CFM/FT2 (18.3 M3/H X M2) OF DOOR AREA WHEN TESTED IN ACCORDANCE WITH ASTM E 283.





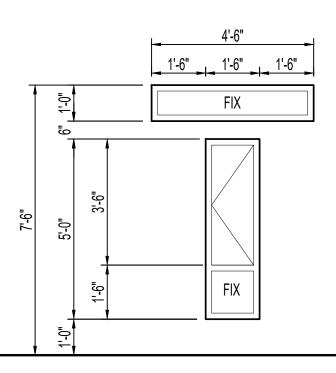
LOCATION: 1ST AND 2ND FLOOR FRONT WINDOW

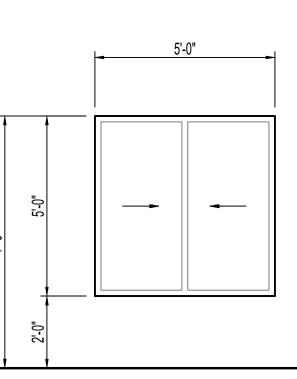
QUANTITY: 2

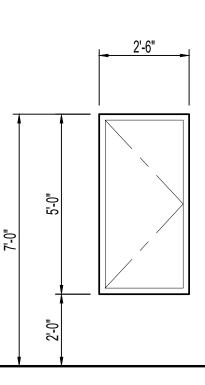
TYPE: FIX/SWING GLASS WINDOW

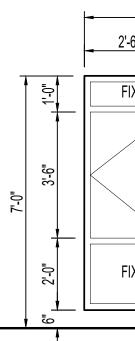
(1-2)(2-2) QUANTITY: 2 LOCATION: MSTR BR 1, MSTR BR 2 TYPE: FIX/SWING GLASS WINDOW

(1-3)(1-6)(2-3)(2-6) QUANTITY: 4 LOCATION: 1F MBR., 2F MBR., BR 1.2, BR 2.2 TYPE: UPPER CASEMENT WITH FBOTTOM FIXED GLASS









(1-4)(1-5)(2-4)(2-5)

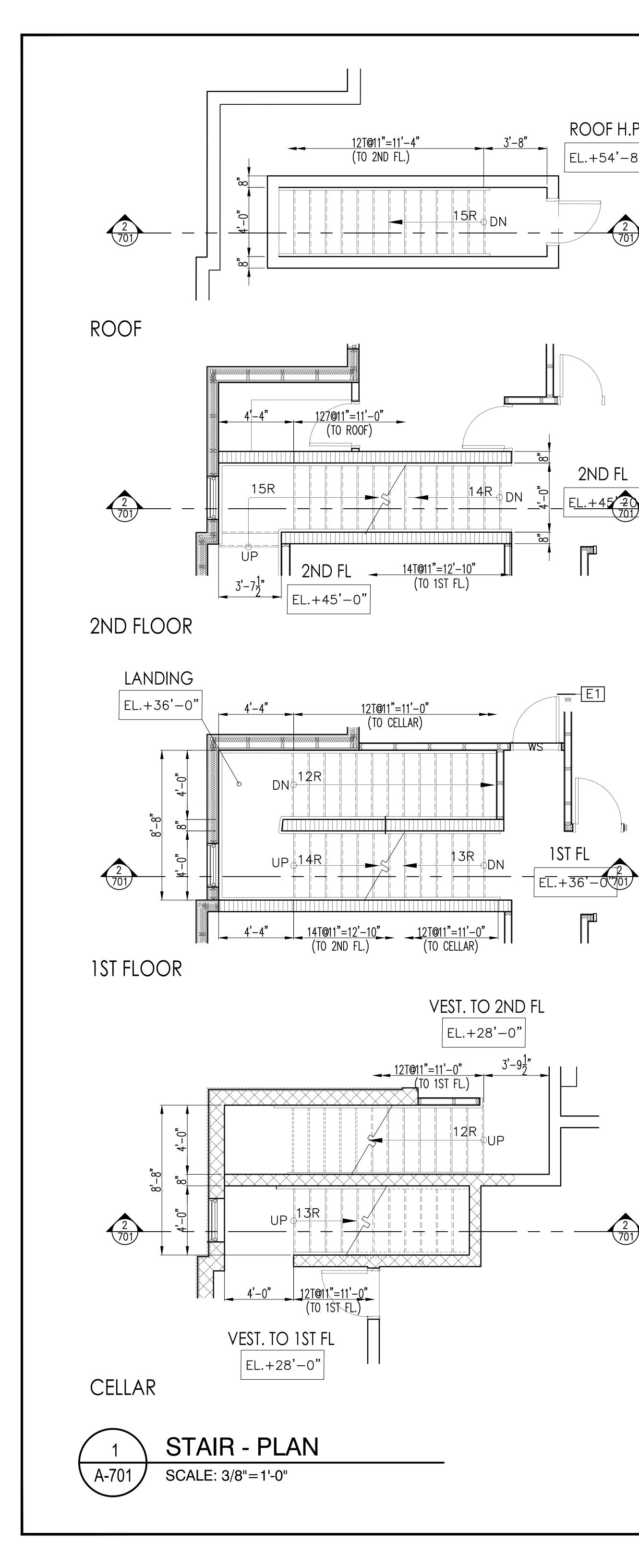
QUANTITY: 4

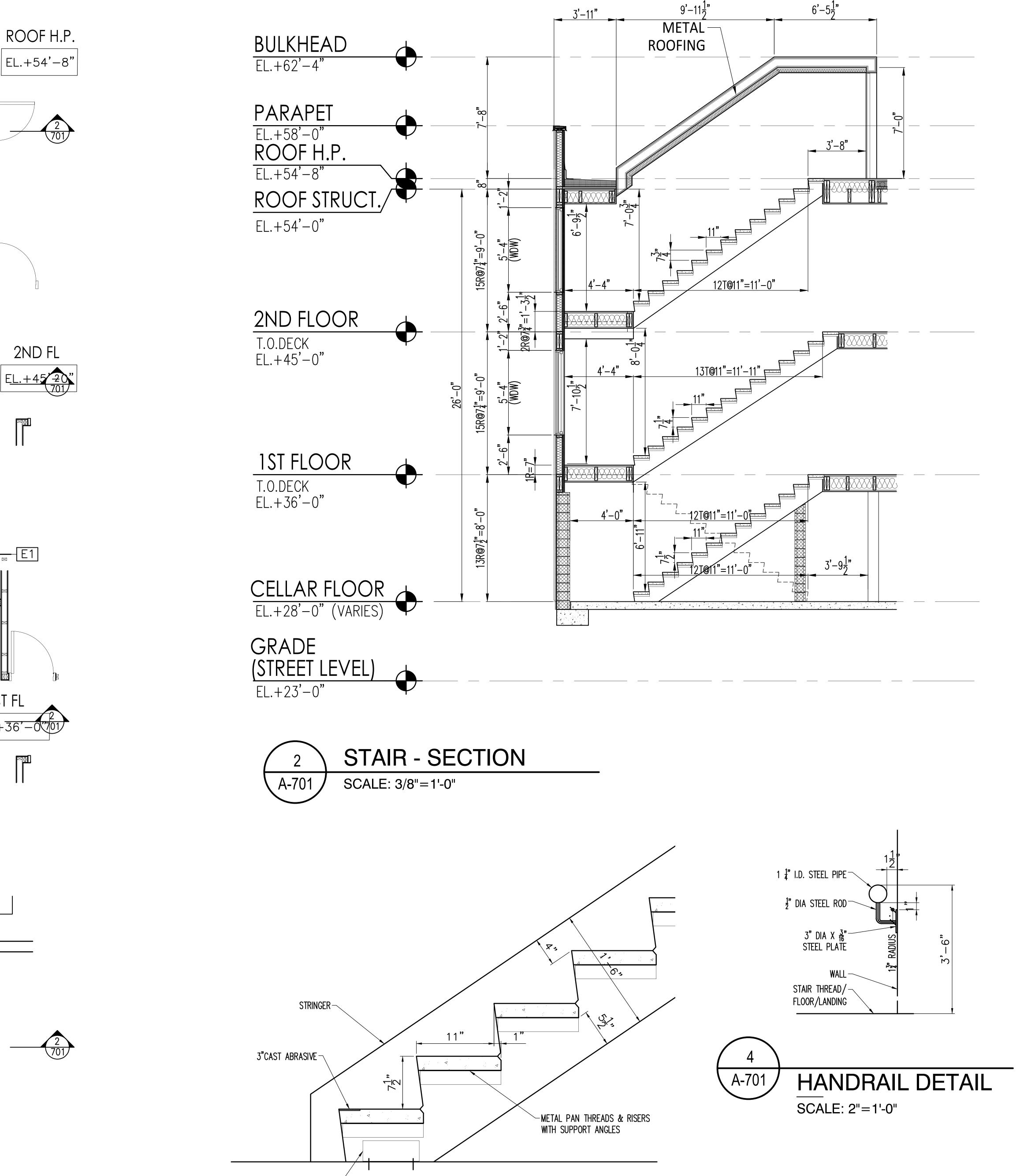
LOCATION: TOI.1.1, TOI. 1.2, TOI. 2.1, TOI. 2.2 TYPE: UPPER CASEMENT WITH FBOTTOM FIXED GLASS (1-7)(1-8)(2-7)(2-8) QUANTITY: 4

LOCATION: BED RM 1.1, BED RM 1.2, BED RM 2.1, BED RM 2.2 TYPE: SLIDING WINDOW

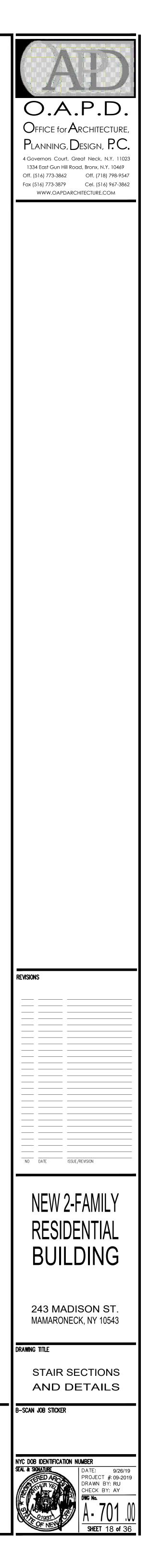
(1-9)(2-9) QUANTITY: 2 LOCATION: BED RM 1.1, BED RM 2.1 TYPE: SWING WINDOW

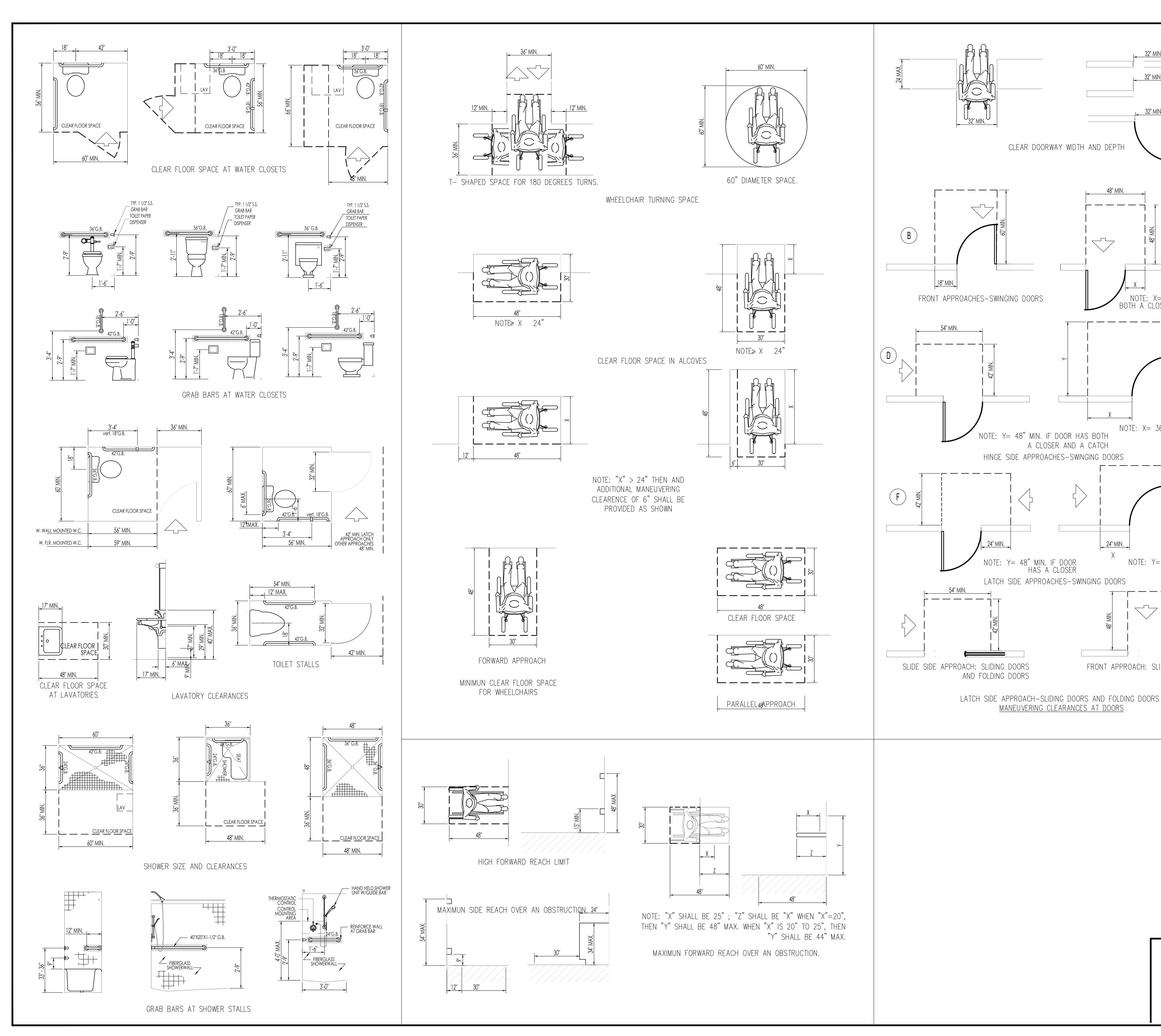
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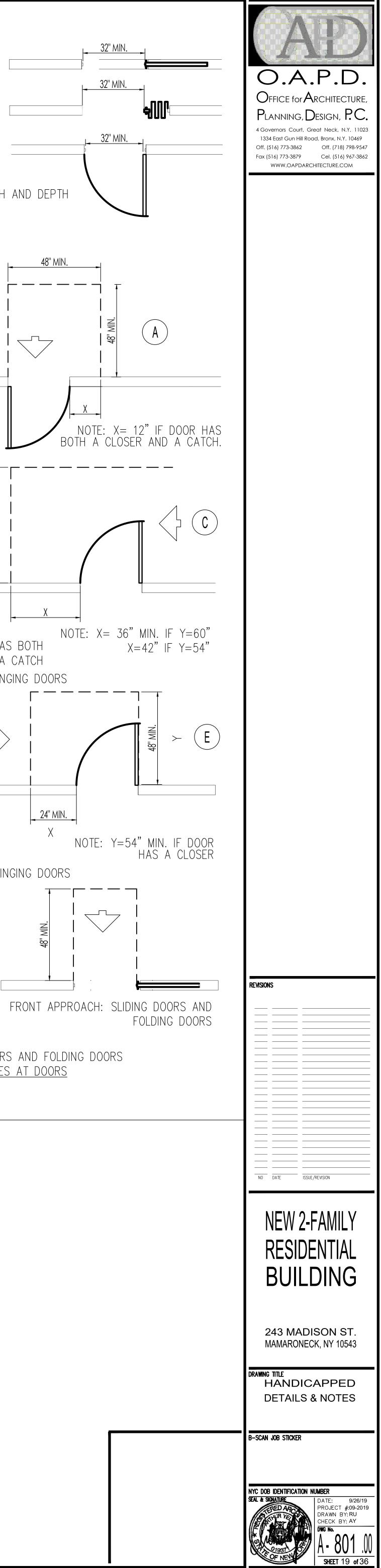




STAIR DETAIL- METAL PAN/ CONCRETE FILL A-701 SCALE: 2"=1'-0"







	 PARTITION, PARTITION GIRDER, OR FOUNDATION BELOW, OR MAY BE CONSTRUCTED ON SILL PLATES RUNNING ON TOP OF THE BEAMS OR JOISTS. 18. LOAD BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS, UNLESS OTHERWISE NOTED ON PLANS. 19. DOUBLE FLOOR JOIST SHALL BE PROVIDED UNDER PARTITIONS RUNNING PARALLEL TO JOISTS. 20. INTERIOR WALLS AND BEARING PARTITIONS WITH OPENINGS BETWEEN 3'-6" AND 6'-0" SHALL BE PROVIDED WITH DOUBLE STUDS AT THE SIDES OF OPENING; TRIPLE STUDS SHALL BE PROVIDED AT THE UNTIL ALL DUCTS, PIPES, ETC., ARE IN PLACE. 21. ALL STUDS IN EXTERIOR WALLS AND IN BEARING PARTITIONS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTION WITH OTHER WALLS AND BEARING PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 24". FOR PLATFORM FRAME CONSTRUCTION, STUDS SHALL REST ON A SINGLE BOTTOM PLATE. 22. EXTERIOR STUD WALLS SHALL BE BRACED BY 1" X 4" CONTINUOUS DIAGONAL STRIPS LET INTO THE FACE OF THE STUDS AND INTO THE TOP AND BOTTOM PLATES AT EACH CORNER OF THE BUILDING. BRACING MAY ALSO BE PROVIDED BY WOOD BOARD SHEATHING OF 1" NOMINAL THICKNESS, APPLIED DIAGONALLY. 	RUN THR BEFORE EXTEND NSERTS, NN ON PL NN ON PL CK OR BI CK OR BI
	 17. TRIMMERS TO MATCH EXISTING FLOOR JOISTS, AS TO SIZE AND SPECIES OF WOOD, UNLER OTHERWISE NOTED. 15. BEARING PARTITIONS ARE TO BE CONSTRUCTED REFERRING TO LEGEND FOR CONSTRUCT THICKNESS, (REFER TO DETAIL ON DRAWING). WHERE SUCH SILLS AT LEAST 2" IN NON FASTENED WITH MINIMUM 1/2" DIAMETER BOLTS EMBEDDED AT LEAST 8". EACH SILL PIECE AT LEAST TWO ANCHOR BOLTS, WITH ONE BOLT LOCATED AT LEAST 1" FROM EACH SILL PIECE AND WITH INTERMEDIATE SPACING NOT MORE THAN 8 FEET. WHERE SUCH SILLS BEAR ON THEY SHALL BE ANCHORED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS. 17. STUD PARTITIONS THAT REST DIRECTLY OVER EACH OTHER AND ARE NOT PARALLEL TO F OR BEAMS MAY EXTEND DOWN BETWEEN THE JOISTS AND REST ON THE TOP PLATE OF TI 	MUM YIELD POINT OF 60,000 PSI. REINFORCING FOR COLUMN TIES AND BEAM STIRRUPS SHALL BE DEFORMED IN OF 40,000 I DED WIRE FABRIC SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI. MUM REINFORCEMENT PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4" FOR SLA RIOR FACES OF WALLS, 1-1/2" FOR BEAMS AND GIRDERS, 2" FOR EXTERIOR FACES OF WALL FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND. SONCRETE SHALL BE POURED UNTIL THE REQUIRED PRELIMINARY TESTS HAVE BEEN MADE ROVED. STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTH IN ONE OPERATION. STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTH IN ONE OPERATION.
	ams shall be bridged, one line of "X" bridging for each 8' span Lumber. O be anchored. Ist hangers to be used wherever wood members frame into a re to be flush top. Provided over each opening in exterior walls and bearing p revuer the opening does not exceed 3'-0". Each end of the head a stud or framing anchor. Where the opening exceeds 3'-0" in r shall be supported on two studs. Aders and trimmers around stairwell opening. New triple hi	 CONCRETE NOTES 1. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE CONCRETE INSTITUTE (ACI) 318.98. 2. ALL CONCRETE, EXCEPT AS SPECIFICALLY NOTED HEREIN, SHALL BE STONE CONCRETE HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AFTER 28 DAYS AND SHALL HAVE A MINIMUM CEMENT CONTENT OF AT LEAST 5-1/2 BAGS PER CUBIC YARD. CONCRETE FOR SLAB ON GRADE SHAL BE 4000 PSI CONCRETE. CONCRETE ON METAL DECK SHALL BE STONE AGGREGATE, 3000 PSI CONCRETE. CONCRETE FOR FOOTINGS AND FOUNDATIONS, 3000PSI. 3. (A) REINFORCING FOR REINFORCED CONCRETE ELEMENTS, UNLESS OTHERWISE SHOWN OR SPECIFIED, SHALL BE DEFORMED IN ACCORDANCE WITH ASTM-A615, GRADE 60 AND SHALL HAVE A
I=	 PLANS. 5. ALL STRUCTURAL WOOD MEMBERS SHALL BE ENGINEERED LVL: 6. ALL TIMBER WORK TO BE DONE AS PER "NATIONAL DESIGN STANDARDS" OR "STREET GRADE LUMBER AND ITS FASTENINGS" 7. NOTCHES IN THE END OF WOOD JOISTS AND WOOD BEAMS SHALL COMPLY WITH SECTION C27-617. 8. WOOD JOISTS FRAMING FROM OPPOSITE SIDES AND SUPPORTED ON A BEAM, GIRDER OR PARTITIONS SHALL BE LAPPED AT LEAST 4" AND FASTENED, BUTTED END TO END AND TIED BY METAL STRAPS OR OTHER APPROVED MANNER 	 BACKFILLING AGAINST FOUNDATION WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH AND WALLS ARE PROPERLY SHORED OR BRACED OBTAIN APPROVAL FROM ENGINEER PRIOR TO BACKFILLING. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTINGS. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS. THE DESIGN OF THE FOUNDATION IS BASED ON SOIL INVESTIGATION REPORT PREPARED BY TESTING CO
	 ALL NEW LUMBER TO BE GRADE MARKED PRIOR TO DELIVERY TO SITE. LUMBER GRADE TO BE TYPE AS NOTED ON PLANS. NEW PLYWOOD SHALL BEAR IDENTIFICATION AS TO GRADE, TYPE, SPECIES OR IDENTIFICATION INDEX 27-618. ALL NEW STRUCTURAL LUMBER SHALL BE STRESS-GRADED (AS PER PLANS) PRIOR TO DELIVERY TO SITE. LVL MEMBERS TO BE AS PER INDUSTRY STANDARDS. THE ENDS OF ALL WOOD BEAMS BEARING ON CONCRETE OR MASONRY WALLS SHALL BE FIRE CUT AS PER SECTION C27-621.0 BUILDING CODE. BEVEL TO BE 3" IN THE DEPTH OF THE BEAM. ALL NEW WOOD BEAMS TO BE NEW WEST COAST HEM-FIR OF SIZE AND SPACING AS INDICATED ON 	SOIL HAVING A MIN. SAFE BEARING C, ISED, AND PIERS SHALL BE ADDED, F E ENGINEER, WHERE UNDISTURBED OWER OR HIGHER ELEVATION THAN S
	 20. ALL REINFORCEMENT SPLICES, MIN. 40 RE-BAR DIAMETER. 21. SEISMIC PROVISIONS: (A) MIN. WALL REINFORCEMENT #4 AT 48 INCHES ON CENTER, VERTICAL. (B) DUR-O-WAL, #9 GA WIRE @16" O.CJOINT REINF (C) 2#4 AROUND OPENINGS. SECTION 6 - WOOD & PLASTICS (CARPENTRY & FRAMING):	MOST SUCH CRACKS DEVELOP OVER THE FIRST TWO YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. PROVIDE ALLOWANCE FOR SUCH CRACKS. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST. ANY COST REQUIRED TO REPAIR CRACKS SHALL BE PAID BY OWNER PROCEED WITH THIS WORK ONLY
	 15. THICKNESS OF MORTAR BETWEEN MASONRY UNITS AND REINFORCEMENT MIN. 1/4 IN. BARS OR WIRE 1/4 IN. OR LESS IN DIAMETER EMBEDDED IN HORIZONTAL MORTAR JOINS SHALL HAVE AT LEAST 5/8 IN. HORIZONTAL COVER. 16. PROTECT MASONRY DURING FREEZING OR NEAR FREEZING WEATHER. NO FROZEN MATERIALS SHALL BE USED. HEAT SAND OR WATER TO REMOVE FROST. MAINTAIN MIN. 40 DEG. F. AIR TEMP. ON BOTH SIDES FOR A PERIOD OF 48 HOURS IF TYPE N OR O MORTAR IS USED. DO NOT USE CHEMICALS TO LOWER FREEZING TEMPERATURE. 17. STORE MATERIALS IN A MANNER THAT THEY ARE KEPT FREE OF EXCESSIVE DIRT AND WETNESS. S 18. MASONRY WORK SHALL PROCEED ONLY AFTER CERTIFICATES IDENTIFYING MASONRY STRENGTH & TYPE HAVE BEEN REVIEWED AND APPROVED BY STRUCTURAL ENGINEER. 19. FILL MASONRY VOIDS SOLID UNDER ALL BEARING PLATES. ALSO ALL JAMBS, AND AT 2 BLOCKS MIN. 	<u>SPECIAL NOTES TO OWNER REGARDING CONCRETE</u> UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AS WELL AS CONCRETE BLOCK WALLS DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF WALLS AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. ITS POSSIBLE THAT A NUMBER OF HAIR CRACKS, WHICH WOULD NORMALLY SPREAD OVER A WIDE AREA, WILL INTEGRATE INTO A SINGLE CRACK WITH A WIDTH EXCEEDING 0.01 INCH. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR/ROOF SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS.
lia	STRUCTURAL FRAMING SHALL BE ANCHORED WITH MBERS. N WALL AT EACH END FOR AT LEAST 6 IN. REVER NECESSARY TO SUPPORT LOADS. MORTAR MAY BE RE- TEMPERED BY ADDING WATE ITHIN 2-1/2 HOURS OF INITIAL MIXING.	 ANY WATER INFLOW INTO THE EXCAVATION SHALL BE CONTROLLED BY SUMPING OR OTHER SUITABLE METHODS. DISPOSAL OF WATER SHALL BE MADE OUT OF THE EXCAVATED AREA IN ACCORDANCE WITH LOCAL REGULATION. THE ELEVATION OF THE WATER LEVELS BEYOND THE LIMITS OF THE PROJECT SITE SHALL NOT BE LOWERED SO AS TO PREVENT DISTRESS TO ADJOINING STRUCTURES. A COMPETENT REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUB-GRADE OF THE EXCAVATION, ANY AND ALL BRACING AND BLOCKING, AT THE COMMENCEMENT OF EACH SHIFT, TO ASSURE INTEGRITY, PRIOR TO PERMITTING WORKMEN TO WORK WITHIN ANY EXCAVATED AREA. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY EXCAVATION RESTRAINT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT. IF A SHEETING OR BRACING SYSTEM IS TO BE UTILIZED, THE DETAILS SHALL BE SHOWN ON SHOP DRAWINGS AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT BEFORE COMMENCEMENT OF WORK. ANY COST FOR REPAIR OF ADJACENT PROPERTIES SHALL BE PAID BY OWNER.
	ANDARD GALVANIZED DUR-O-WALL REINFORCING EVERY OTHER COURSE, #9 (INTS TO BE DUR-O-WALL RAPID CONTROL JOINT, OR APPROVED EQUAL. OPENINGS 4'-0" OR GREATER, FILL JAMS SOLID. FILL MASONRY SOLID. BE TYPE "M" OR "S", ASTM C270. BE TYPE "M" OR "S", ASTM C270. L MULTIPLE WYTHE BONDED AND BRACED. L MULTIPLE WYTHE MASONRY WALLS BY THE FOLLOWING METHODS: RICATED JOINT REINFORCEMENT MIN. ONE CROSS WIRE EVERY MAXIMUM VE 3 NOT TO EXCEED 16 INCHES. BOND, BY PURGING BACK OF BRICK. EADERS WHERE SHOWN ON THE DRAWINGS. IG WALLS AND PARTITIONS SHALL BE BONDED BY EITHER A TRUE MASONRY E	 ON EARTIMORY OF RATIONS. NOTICE SHALL BE PROVIDED BY THE PROJECTS OWNER TO ADJOINING PROPERTY OWNERS IN ACCORDANCE WITH THE NY STATE BUILDING. CODE: "AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN TO COMMISSIONER BEFORE THE COMMENCEMENT OF ANY WORK FOR WHICH A PERMIT HAS BEEN ISSUED." ALL WORK PERFORMED IN CONNECTION WITH SHEETING, BRACING, UNDERPINNING, EXCAVATION SHALL ADHERE TO THE APPLICABLE PROVISIONS OF THE NY STATE BUILDING CODE, REGULATIONS OF THE NEW YORK STATE DEPARTMENT OF LABOR AND OSHA. PRIOR TO COMMENCEMENT OF MASS EXCAVATION, THE ADJOINING PROPERTIES, AND STREETS SHALL BE VISUALLY SURVEYED BY THE CONTRACTOR, SUITABLY MARKED WITH PERMANENT MONITORING POINTS TO BE MEASURED DURING CONSTRUCTION FOR THE PURPOSES OF DETERMINING CONSTRUCTION-RELATED EFFECTS. REPORT WITH PHOTOGRAPHS SHALL BE PROVIDED TO ARCHITECT IN TRIPLICATE COPIES. A PRE-CONSTRUCTION DAMAGE CONDITION SURVEY OF THE ADJOINING PROPERTIES SHALL BE MADE IN WRITTEN AND PICTORIAL FORM, AND TWO COPIES SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE.
	MASONRY NOTES 1. MASONRY UNITS SHALL BE CLEARLY IDENTIFIED TO SHOW THE GRADE OF UNIT AND THE COMPRESSIVE STRENGTH WHERE CALLED FOR ON PLANS. REINFORCING BARS SHALL BE ROLLED TO IDENTIFY GRADE OF STEEL AND SIZE, AND TAGGED. 2. MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS: <u>CONCRETE MASONRY UNITS</u> SOLID LOADBEARING ASTM C145 HOLLOW LOADBEARING ASTM C90 CAST STONE ASTM C196 METAL ANCHOR AND TIES ASTM C129 (NO EXPOSURE) ZINC COATING ON WIRE ASTM A116 1965 ZINC COATING ON WIRE ASTM A116 1965 ZINC COATING WIRE GRADE 30 HS ASTM B227 1965	 <u>GENERAL NOTES:</u> 1. ALL WORK PERTAINING TO SHEETING, BRACING, SUPPORT OF ADJOINING. LOTS AND SIDEWALKS, PLACEMENT OF FOUNDATION CONCRETE ON SOIL SUB-GRADE IS SUBJECT TO INSPECTION. DESIGN FOR SHEETING & BRACING SHALL BE DONE BY ENGINEER IN CHARGE OF CONTROLLED INSPECTION. & PAID BY THE CONTRACTOR. 2. PROPER NOTICES SHALL BE GIVEN FOR PERFORMANCE OF THE CONTROLLED INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NY STATE BUILDING CODE: "BEFORE ANY WORK IS COMMENCED ON AN ITEM OF CONSTRUCTION REQUIRING CONTROLLED INSPECTION, ALL PERSONS RESPONSIBLE FOR SUCH CONTROLLED INSPECTION SHALL BE NOTIFIED IN WRITING AT LEAST 72 HOURS PRIOR TO SUCH CONTROLLED INSPECTION SHALL BE NOTIFIED IN WRITING AT LEAST 72 ACCORDANCE WITH THE NY STATE BUILDING. CODE: "NO FOUNDATION OF EARTHWORK PERMIT ACCORDANCE WITH THE NY STATE BUILDING. CODE: "NO FOUNDATION OF EARTHWORK PERMIT BE ISSUED UNLESS AND UNTIL AT LEAST FIVE DAYS PRIOR WRITTEN NOTICE OF THE PERMIT APPLICATION SHALL HAVE BEEN GIVEN BY THE APPLICANT TO THE OWNERS OF ALL ADJOINING LOTS, BUILDINGS AND SERVICE FACILITIES WHICH MAY BE AFFECTED BY THE PROPOSED FOUNDATION WORK

Y NOTES	
SONRY UNITS SHALL BE CLEARLY IDENTIFIED TO SHOW THE GRADE OF MPRESSIVE STRENGTH WHERE CALLED FOR ON PLANS. REINFORCING I INTIFY GRADE OF STEEL AND SIZE, AND TAGGED.	SONRY UNITS SHALL BE CLEARLY IDENTIFIED TO SHOW THE GRADE OF UNIT AND THE MPRESSIVE STRENGTH WHERE CALLED FOR ON PLANS. REINFORCING BARS SHALL BE ROLLI ENTIFY GRADE OF STEEL AND SIZE, AND TAGGED.
TERIALS SHALL CONFORM TO THE FOND INCRETE MASONRY UNITS LID LOADBEARING LLOW LOADBEARING ST STONE LLOW NON-LOADBEARING	THE FOLLOWING STANDARDS: ASTM C145 ASTM C90 SS-S-721 1964 FED SPECIFICATION ASTM C 129 (NO EXPOSURE)
TAL ANCHOR AND TIES IC COATING IN IRON OR STEEL IC COATING ON WIRE IPPER COATED WIRE GRADE 30 HS	ASTM A173 1965 ASTM A116 1965 ASTM B227 1965
OVIDE STANDARD GALVANIZED DUR-O-WALL REINFORCING . WAY.	-O-WALL REINFORCING EVERY OTHER COURSE, #9 GA. W
NTROL JOINTS TO BE DUR-O-WALL RAPID	APID CONTROL JOINT, OR APPROVED EQUAL.
ALL WALL OPENINGS 4'-0" OR GREATER, FILL	ER, FILL JAMS SOLID. FILL MASONRY SOLID.
ORTAR TO BE TYPE "M" OR "S", ASTM C270	C270.
L MASONRY TO BE PROPERLY BONDED AND BRACED.	ED AND BRACED.
NDING: ALL MULTIPLE WYTHE MASONRY WALLS BY THE SPACING NOT TO EXCEED 16 INCHES. GROUT BOND, BY PURGING BACK OF BRICK. BRICK HEADERS WHERE SHOWN ON THE DRAWINGS	NDING: ALL MULTIPLE WYTHE MASONRY WALLS BY THE FOLLOWING METHODS: PREFABRICATED JOINT REINFORCEMENT MIN. ONE CROSS WIRE EVERY MAXIMUM VERTICA SPACING NOT TO EXCEED 16 INCHES. GROUT BOND, BY PURGING BACK OF BRICK. BRICK HEADERS WHERE SHOWN ON THE DRAWINGS.
TERSECTING WALLS AND PARTITIONS SHALL BE BONDED YING AT LEAST 50% OF THE UNITS 3 IN. ON THE UNIT BEI CHORS, ENDS BENT UP 2 IN. OR CROSS PINS ANCHORS OF OTHER EQUIVALENT.	TERSECTING WALLS AND PARTITIONS SHALL BE BONDED BY EITHER A TRUE MASONRY BOND YING AT LEAST 50% OF THE UNITS 3 IN. ON THE UNIT BELOW OR BY 1/4 IN. BY 1-1/2 IN. METAL CHORS, ENDS BENT UP 2 IN. OR CROSS PINS ANCHORS 2 FT. LONG. MAXIMUM VERTICAL SPAC OF OTHER EQUIVALENT.
ALLS AT JOINING OR INTERSECTION STRUCTURAL	STRUCTURAL FRAMING SHALL BE ANCHORED WITH FLEXI BERS.
ASES NOT TO BE DEEPER THAN 1/8 THE WALL	'HE WALL THICKNESS.
ITELS TO HAVE MINIMUM BEARING OF	TO HAVE MINIMUM BEARING ON WALL AT EACH END FOR AT LEAST 6 IN.
OVIDE TEMPORARY BRACING WHEREVER NECESSARY TO	EVER NECESSARY TO SUPPORT LOADS.
K MORTAR FOR A MINIMUM OF 5 MIN. MORTAR MAY BE MIXING. MORTAR SHALL BE USED WITHIN 2-1/2 HOURS	Mortar may be re- tempered by Adding water Ani Thin 2-1/2 Hours of Initial Mixing.
ICKNESS OF MORTAR BETWEEN MAS IN. OR LESS IN DIAMETER EMBEDDE	ICKNESS OF MORTAR BETWEEN MASONRY UNITS AND REINFORCEMENT MIN. 1/4 IN. BARS OR IN. OR LESS IN DIAMETER EMBEDDED IN HORIZONTAL MORTAR JOINS SHALL HAVE AT LEAST

BE THREE (3) STUD MEMBERS

1. FRAME BUILDINGS (a) CORNER POSTS RRACING FOR AL DE OF CORNERS. 2" X FRAMING SILLS OVER FOUNDATION WALLS TO BE ANCHORED TO FOUNDATION WALLS X 16" LONG BOLTS 8'-0" O.C. L TT HS : ALL BE A MINIMUM T WO STORY FRAME E S SHALL BE PROVIDE THREE (3) STUD MEMBERS. PROVIDE DIAGONAL LET_IN EXTENSIONS. MINIMUM 1" X 6" TO BE LAID AT A 40°_60°. ED AT EACH TIER OF FRAMING AND AT ANGLE.

10<u>.</u>

UPON REQUEST OF THE DEPARTMENT, THE INSPECTION ENGINEER SHAREVIEW BY THE DEPARTMENT DOCUMENTS AND THE LOG DESCRIBED A

THE INSPECTION ENGINEER SHALL REPORT UNSAFE CONDITIONS TO THAND/OR ANY OTHER AFFECTED PARTIES OR AGENCIES.

THE INSPECTION ENGINEER SHALL RETAIN A COPY OF THE DOCUMENT: HER OFFICE AND SHALL PROVIDE A COPY TO THE CONTRACTOR AND/O CONSTRUCTION SITE.

<u>9</u>

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(b) EACH SIDE TWO (2) 2" WITH 2"F)

26 New Clothes closets shall be provided with adjustable length poles with shelving wall brackets. Provide two rows of clear pine shelving 12" wide in each closet. Linen closet provide a minimum of five rows of adjustable clear pine shelving. STUDS SHALL BE THE MINIMUM GRADE OR BETTER THAN THE VARIOUS SPECIES ESTABLISHED.

27. INSTALL KITCHEN, (WALL AND BASE CABINETS). DESIGN, MATERIAL AND CONSTRUCTION, AS PER OWNER'S SELECTION. CONTRACTOR TO CHECK AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF CABINETS.

28. ALL WOODWORK WITHIN 1'-0" OF COOKING RANGES SHALL BE FIRE-RETARDED WITH #26 GA. METAL. MAINTAIN 2'-0" CLEAR WORKING SPACE ABOVE COOKING APPARATUS. FIRE-RETARD UNDERSIDE OF CABINET IF LESS THAN 3'-0" ABOVE RANGE.

29. ALL EXISTING FLOORS TO BE LEVELED AI ID PREPARED TO RECEIVE NEW FINISH FLOOR.

30<u>.</u> ALL WORK REQUIRING PAINTING AND FINISHING SHALL BE KEPT CLEAN, FREE FROM WARP, OPEN JOINTS AND OTHER DEFECTS. NAIL HEADS IN FINISHED WORK SHALL BE NAIL SET. HOLES FILLED WITH PLASTIC WOOD AND SANDED. SCREWS SHALL BE COUNTER SUNK.

з<u>1</u>. PROVIDE MEDICINE CABINET WITH LIGHT OWNER, IN RESIDENTIAL BATHROOMS.

<u>32</u> PROVIDE AND INSTALL VANITY WITH BASE CABINET IN NEW BATHROOMS, AS SELECTED BY OWNER, IN RESIDENTIAL BATHROOMS.

<u>မ</u> PROVIDE AND INSTALL CLOTHES HAMPERS IN NEW BATHROOMS, AS SELECTED BY OWNER, IN RESIDENTIAL BATHROOMS.

TREADS AND LANDINGS SHALL BE BUILT OF/OR SURFACED WITH NON-SKID MATERIALS. MINIMUM STAIR HEADROOM SHALL BE MAINTAINED: 7'-0" (COMMERCIAL) 6'-8" (RESIDENTIAL).

SECTION 7 35 - THERMAL & MOISTURE PROTECTION

SHEATHING COVER ALL SHEATHING FOR EXTERIOR WALLS AND ROOF WITH MINIMUM 15 POUNDS FELT WITH A MINIMUM 4" LAP. SHEATHING SHALL COVER AND BE WELL SPIKED INTO WOOD FOUNDATION SILL. WALL AND ROOF SHEATHING TO BE MINIMUM 3/4" EXTERIOR GRADE PLYWOOD, UNLESS OTHERWISE NOTED.

 \mathbf{N} EXISTING INTERIOR SURFACE FINISH OF EXTERIOR WALLS TO BE 5/8" SHEETROCK (REFER TO DETAIL).

INTERIOR WALLS AND CEILING, UNLESS OTHERWISE NOTED, SHALL BE FINISHED WITH 5/8" SHEETROCK. FIRE RESISTIVE RATING TO BE MAINTAINED WHERE APPLICABLE. SHEETROCK SHALL BE LAID UP AS PER MANUFACTURERS SPECIFICATIONS. ALL NEW WALLS FACING BATHROOMS, TOILETS, AND LAUNDRY COMPARTMENTS, SHALL BE FINISHED WITH WATER RESISTANT SHEETROCK, FROM FLOOR TO CEILING.

DE CORNER BEAD ΑT CORNERS OF ALL NEW SHEETROCK PARTITIONS

S EXTERIOR WALLS TO BE PROVIDED WITH FULL THICKNESS INSULATION BETWEEN WOOD STUDS IN CONFORMANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, UNLESS OTHER-WISE NOTED.

<u>INSULATION MATERIALS</u> <u>ALL INSULATION SHALL</u> BE NON-COMBUSTIBLE MATERIAL. ALL MATERIAL, COVERINGS, VAPOR BARRIERS AND ADHESIVES SHALL BE AND HAVE A FLAME SPREAD RATING NO HIGHER THAN 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50.

ALL COMBUSTIBLE INSULATION, ACOUSTICAL MATERIALS, EXPANSION JOINT FILLERS WHERE REQUIRE TO BE FIREPROOFED. NO COMBUSTIBLE INSULATION SHALL BE USED.

<u>PIPING INSULATION</u> ALL NEW PIPING INSTALLED TO SERVICE BUILDINGS AND WITHIN BUILDINGS SHALL BE THERMALLY INSULATED AS PER TABLE 4-5 OF THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION

9 ALL PLUMBING STACKS, EXHAUST FAN ASSEMBLIES, APPROVED TYPE GAS VENTS, CHIMNEYS, ETC., THAT PIERCE THE ROOF ARE TO BE PROPERLY FLASHED AND MADE WEATHER TIGHT. CONTRACTOR IS TO INSURE THAT THE DESIGNED DIRECTIONAL FLOW OF ROOF DRAINAGE IS MAINTAINED AND NOT IMPEDED BY ANY MATERIAL OR EQUIPMENT THAT PIERCES THE ROOF IN ITS PATH. AT NO TIME IS THERE TO BE ANY BLOCKAGE TO THE FLOW OF STORM WATER ON THE ROOF, CONTRACTOR IS TO REFER TO PLANS FOR FLOW OF DRAINAGE BEFORE PROCEEDING WITH ANY WORK AND BE RESPONSIBLE FOR NOTIFYING THE OWNER IN THE EVENT THERE WILL BE A CONFLICT BETWEEN THE FLOW OF DRAINAGE AND THE INSTALLATION OF ANY MECHANICAL EQUIPMENT AT ROOF.

ACE CONTINUOUS FLASHING UNDER ALL COPINGS, CORNICES, BELT COURSES, AND MULTIPLE PIECE LS TO PREVENT ENTRY OF WATER. FLASHING TO BE HIGH GRADE RUST RESISTANT MATERIAL.

INSP ECTIONS

<u>.</u>

PRIOR TO BEGINNING A SERVICES OF A LICENS EXPERIENCE ACCEPTA SHALL INCLUDE A PRO MINIMUM PROVEN EXP RK, THE OWNER SHALL RETAIN ON BEHALF OF THE OWNER THE DFESSIONAL ENGINEER OR TESTING AGENCY WHO SHALL HAVE PROVEN THE OWNER AND ARCHITECT. MINIMUM REQUIRED QUALIFICATIONS NAL LIABILITY INSURANCE COVERAGE OF 1 MILLION DOLLARS AND A E OF 5 YEARS WITH SIMILAR WORK.

VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL E INSPECTION SERVICES AS FOLLOWS:

2. THE CONTRACTOR'S ENGINEER SHALL VISIT THE SITE AND FAMILIARIZE EXISTING CONDITIONS. HE SHALL PROVIDE INSPECTION SERVICES AS FOLL

 (A) CONCRETE CAST-IN-PLACE
 (B) WOOD - INSTALLATIONS OF PREFABRICATED I-JOISTS
 (C) SUBGRADE INSPECTION
 (D) SUBSURFACE INVESTIGATIONS (BORING/TEST PITS)
 (E) VERTICAL MASONRY FOUNDATION ELEMENTS
 (F) MECHANICAL SYSTEMS
 (G) EXCAVATIONS - SHEETING, SHORING, AND BRACING
 (H) DRAINAGE DISPOSAL SYSTEMS AND DETENTION FACILITIES
 (J) CONCRETE SAMPLING
 (J) FIRE RESISTANT PENETRATIONS AND JOINTS
 (J) CONCRETE SAMPLING
 (K) FOOTING AND FOUNDATION
 (L) LOWEST FLOOR ELEVATION
 (M) ENERGY CODE COMPLIANCE INSPECTIONS
 (N) FIRE RESISTANCE RATED CONSTRUCTION

FIXTURE AND RECEPTACLE IN BATHROOM, AS SELECTED BY

THE CONTRACTOR SHALL PREPARE PLANS, CALCULATIONS, AND NOTES IN THE FORM OF SHOP DRAWINGS, FOR ALL ITEMS OF WORK WHICH DIFFER FROM WHAT IS SHOWN ON THE STRUCTURAL DRAWINGS DUE TO FIELD CONDITIONS. HE SHALL ALSO PREPARE PLANS IN THE FORM OF SHOP DRAWINGS, CALCULATIONS AND NOTES FOR ALL TEMPORARY SHORES AND BRACES AND CLEARLY INDICATE METHOD OF INSTALLATION, SEQUENCE OF OPERATIONS, AND QUALITY CONTROL.

THESE SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND ARCHITECT PRIOR TO CONSTRUCTION. WORK SHALL BE EXECUTED FROM REVIEWED SHOP DRAWINGS ONLY.

COPIES OF SUCH DRAWINGS WHICH INCLUDE THE ARCHITECT'S COMMENTS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS ADDITIONALLY, AT COMPLETION OF WORK, ALL INSPECTION REPORTS PREPARED BY THE INSPECTION ENGINEER SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS.

The inspection engineer shall determine the frequency of inspections needed and whether they should inspect the site personally or send a person under their direct supervision.

THE INSPECTION ENGINEER, SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH INCLUDES THE FOLLOWING INFORMATION: (i) ADDRESS OF THE PREMISES, JOB NUMBER, CONTRACTOR NAME AND ADRESS, AND

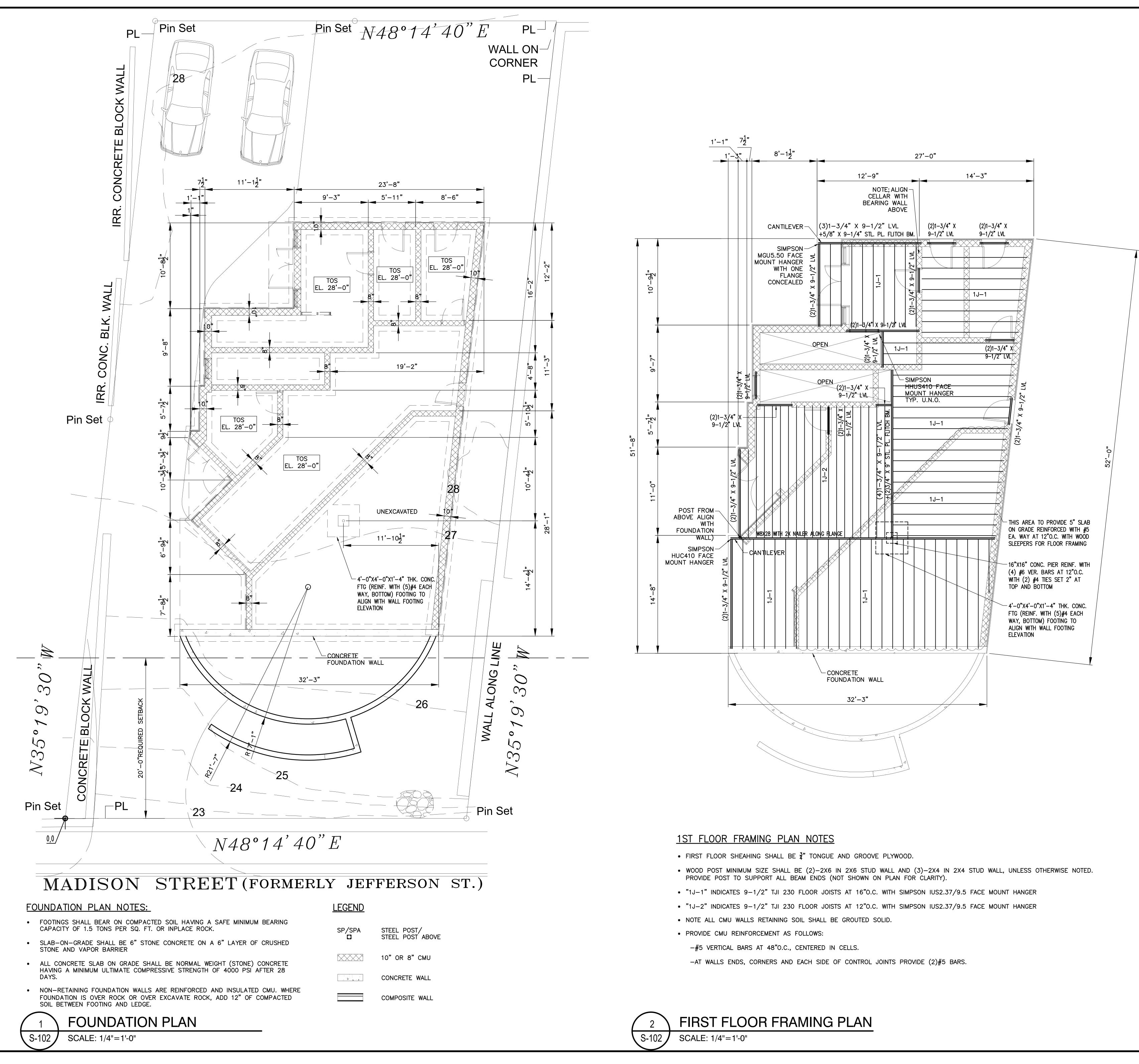
DATE AND TIME OF EACH INSPECTION INCLUDING
(A) NAMES OF PERSONNEL WHO INSPECTED THE SITE, AND
(B) ANY NAMES OF PERSONNEL WHO INSPECTED THE SITE, AND RELATING TO ANY OF THE FOLLOWING:
(1) DEVIATIONS FROM THE CONTRACT DOCUMENTS.
(2) ANTICIPATED FIELD CONDITIONS;
(3) PROPER EXECUTION OF THE WORK;
(4) GOOD ENGINEERING PRACTICE;
(5) SAFE JOB-SITE CONDITIONS;
(6) PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS IF WORK IS STOPPED FOR ANY

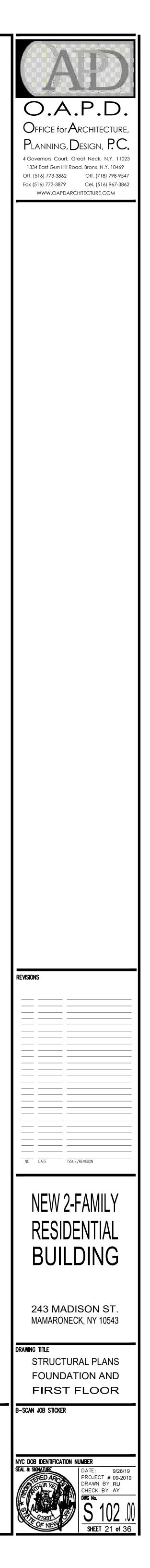
The contract documents. > conditions; >n of the work; yg practice; Nditions; Nditions; (en to maintain safe conditions if work is stopped for any

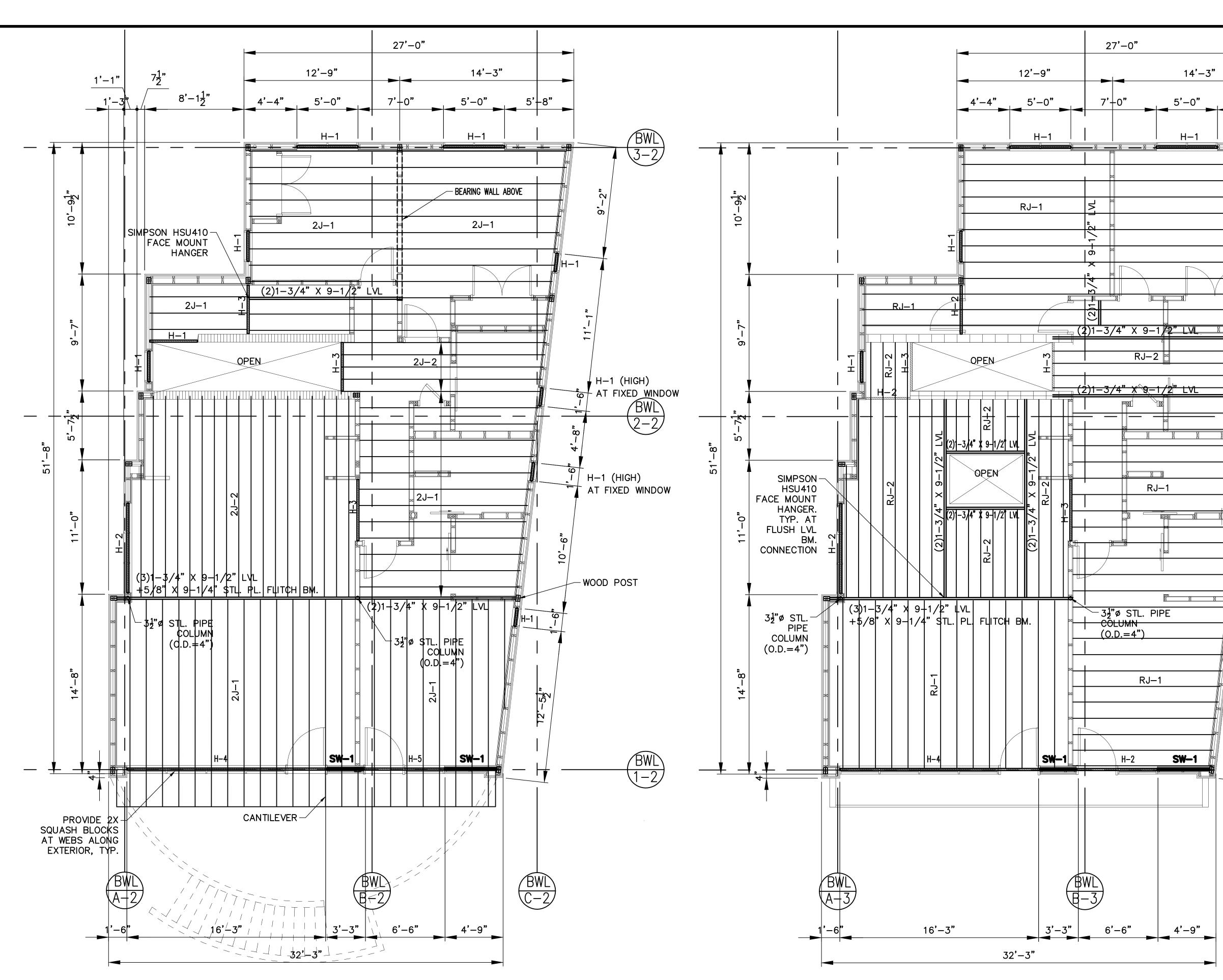
THE DATE OF AND PARTICIPANTS IN OCCURING OFF-SITE AND RELATING

ANY CONVERSATIONS WITH THE INSPECTION ENGINEER TO ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS

		IE DEPARTMENT OF BUILDINGS LL MAKE AVAILABLE FOR BOVE.
243 MADISON ST. MAMARONECK, NY 10543 DRAWN INST STRUCTURAL NOTES BESCAN JOB DIENTIFCATION NUMBER ENC DOB DIENTIFCATION NUMBER ENC DIENTIFCATION NUMBER DATE: 09/2019 DRAMN BY: RU DRAMN BY:	Image: Sector	OFFICE for Architecture Covernors Court, Great Neck, NY. 11023 1334 East Gun Hill Road, Bronx, NY. 11049 Off. (516) 773-3879 Cel. (516) 975-3862 WWW DAPDARCHITECTURECOM







2ND FLOOR FRAMING PLAN NOTES

• SECOND FLOOR SHEATHING SHALL BE $\frac{3}{4}$ " TONGUE AND GROOVE PLYWOOD.

- WOOD POST MINIMUM SIZE SHALL BE (2)-2X6 IN 2X6 STUD WALL AND (3)-2X4 IN 2X4 STUD WALL, UNLESS OTHERWISE NOTED. PROVIDE POST TO SUPPORT ALL BEAM ENDS (NOT SHOWN ON PLAN FOR CLARITY).
- INDICATES (2) 2X6 HDR. W/ (1) JACK STUD AND (1) KING STUD EA. END. ● "H—1'
- INDICATES (2) 2X8 HDR. W/ (1) JACK STUD AND (2) KING STUD EA. END. ● "H-2"
- INDICATES (2) 2X10 HDR. W/ (1) JACK STUD AND (1) KING STUD EA. END. • "H-3"
- INDICATES (2) 1 3/4"X14" LVL W/ 3 1/2"X7" PSL JACK STUD AND (4) KING STUDS EA. END. ● "H-4"
- INDICATES (2) 2X12 W/ (2) JACK STUDS AND (2) KING STUDS EA. END. • "H-5"
- INDICATES 9-1/2" TJI 230 FLOOR JOISTS AT 16"O.C. WITH SIMPSON IUS2.37/9.5 FACE MOUNT HANGER • "2J-1" • "2J-2" INDICATES 9-1/2" TJI 230 FLOOR JOISTS AT 12"O.C. WITH SIMPSON IUS2.37/9.5 FACE MOUNT HANGER • ETTETED INDICATES APPROXIMATE EXTENT OF BEARING WALL ABOVE. PROVIDE 2X SQUASH BLOCKING IN JOISTS WEBS AND LVL
- BLOCKING BETWEEN FLOOR JOISTS TO ALIGN W/ BEARING WALL ABOVE. "SW-1" INDICATES PLYWOOD SHEARWALL, SEE SCHEDULE BELOW. PROVIDE HOLDOWN DEVICE AT EACH END OF EACH SHEARWALL SEGMENT.

		CED WALL LINE SCI SIDENTIAL BUILDING CODE S		
BRACING LINE	SPACING	BRACING METHOD	REQUIRED L.F. OF BRACING	PROVIDED L.F. OF BRACING
BWL/1-2	29'-0"	ENGR. SW	N/A	N/A
BWL/2-2	29'-0"	GB	20.37'	26'-9"
BWL/3-2	22'-0"	CS-WSP	7.87'	16'-5"
BWL/A-2	20'-3"	CS-WSP	7.41'	30'-0"
BWL/B-2	20'-3"	GB	14.85'	40'-5"
BWL/C-2	13'-6"	CS-WSP	4.96'	40'-5"

<u>NOTES</u>

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- 1. ALL BRACED WALL PANELS USING PLYWOOD/OSB SHEATHING SHALL HAVE 2X BLOCKING ALONG THE HORIZONTAL PANEL JOINTS PER THE NY RESIDENTIAL BUILDING CODE SECTION R602.10.10
- 2. ALL BRACED WALL PANELS USING METHOD "GB" SHALL HAVE PANELS INSTALLED HORIZONTALLY. IF PANELS ARE INSTALLED VERTICALLY, PROVIDE 2X BLOCKING ALONG THE HORIZONTAL PANEL JOINTS PER NY RESIDENTIAL BUILDING CODE SECTION R602.10.10.

2ND FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0"

ROOF FRAMING PLAN NOTES

• ROOF SHEATHING SHALL BE $\frac{3}{4}$ " MIN. PLYWOOD.

- WOOD POST MINIMUM SIZE SHALL BE (2)-2X6 IN 2X6 STUD WALL AND (3)-2X4 IN 2X4 ST PROVIDE POST TO SUPPORT ALL BEAM ENDS (NOT SHOWN ON PLAN FOR CLARITY).
- INDICATES (2) 2X6 HDR. W/ (1) JACK STUD AND (1) KING STUD EA. END. • "H-1"
- INDICATES (2) 2X8 HDR. W/ (2) JACK STUD AND (2) KING STUD EA. END. • "H-2"
- INDICATES (2) 2X10 HDR. W/ (1) JACK STUD AND (1) KING STUD EA. END. • "H-3"
- INDICATES (2) 1 3/4"X14" LVL W/ 3 1/2"X7" PSL JACK STUD AND (4) KING STUDS EA. END. • "H-4"
- INDICATES 9-1/2" TJI 230 ROOF JOISTS AT 16"O.C. WITH SIMPSON IUS2.37/9.5 FACE MOUNT HANGER • "RJ-1 INDICATES 9-1/2" TJI 230 ROOF JOISTS AT 12"O.C. WITH SIMPSON IUS2.37/9.5 FACE MOUNT HANGER • "RJ-2"
- CTTTTTT INDICATES APPROXIMATE EXTENT OF BEARING WALL ABOVE.
- "SW-1" INDICATES PLYWOOD SHEARWALL, SEE SCHEDULE BELOW. PROVIDE HOLDOWN DEVICE AT EACH END OF EACH SHEARWALL SEGMENT.

		CED WALL LINE SC SIDENTIAL BUILDING CODE SI		
BRACING LINE	SPACING	BRACING METHOD	REQUIRED L.F. OF BRACING	PROVIDED L.F. OF BRACING
BWL/1-3	29'-0"	ENGR. SW	N/A	N/A
BWL/2-3	29'-0"	GB	8.77'	23'-4"
BWL/3-3	22'-0"	CS-WSP	3.29	16'-5"
BWL/A-3	20'-3"	CS-WSP	3.06'	30'-0"
BWL/B-3	20'-3"	GB	6.13'	36'-7"
BWL/C-3	13'-6"	CS-WSP	2.18'	45'-4"

<u>NOTES</u>

- 1. ALL BRACED WALL PANELS USING PLYWOOD/OSB SHEATHING SHALL HAVE 2X BLOCKING ALONG THE HORIZONTAL PANEL JOINTS PER THE NY RESIDENTIAL BUILDING CODE SECTION R602.10.10
- 2. ALL BRACED WALL PANELS USING METHOD "GB" SHALL HAVE PANELS INSTALLED HORIZONTALLY. IF PANELS ARE INSTALLED VERTICALLY, PROVIDE 2X BLOCKING ALONG THE HORIZONTAL PANEL JOINTS PER NY RESIDENTIAL BUILDING CODE SECTION R602.10.10.

ROOF FRAMING PLAN S-103 SCALE: 1/4"=1'-0"

			<u>S</u>	HEARW	ALL SC	HEDUL	<u>.E</u>	
		SHEATHIN		ANCHORAG	NAILING PATTERN "A"	NAILING PATTERN "B"		ç
MARK	EXTERIOR	THICKNESS	both Sides of Wall	TOP OF FOUND'N	Sheathing Panel Edges to Ver. Studs And Hor. 2X Blocking	PLATE AND FLOOR	MODEL	ļ
SW-1	EXT	15/32"	Ν	1/2"ø HOOKED ANCHOR RODS AT 4'-0" O.C.	8d AT 6"O.C.	10D AT 6"O.C.	HDUB-5D 52.5	

TUD	WALL,	UNLESS	OTHERWISE	NOTED.

(BWL)C-3

BWD

 $\sqrt{3-3}$

H-2 (HIGH)

|H-1 (HIGH)

TAT FIXED WINDOW

AT FIXED WINDOW

2 - 3

 \overline{BWL}

H-1

STAIR ROOF FRAMING NOTES • ROOF SHEAHING SHALL BE 1/2" MIN. PLYWOOD.

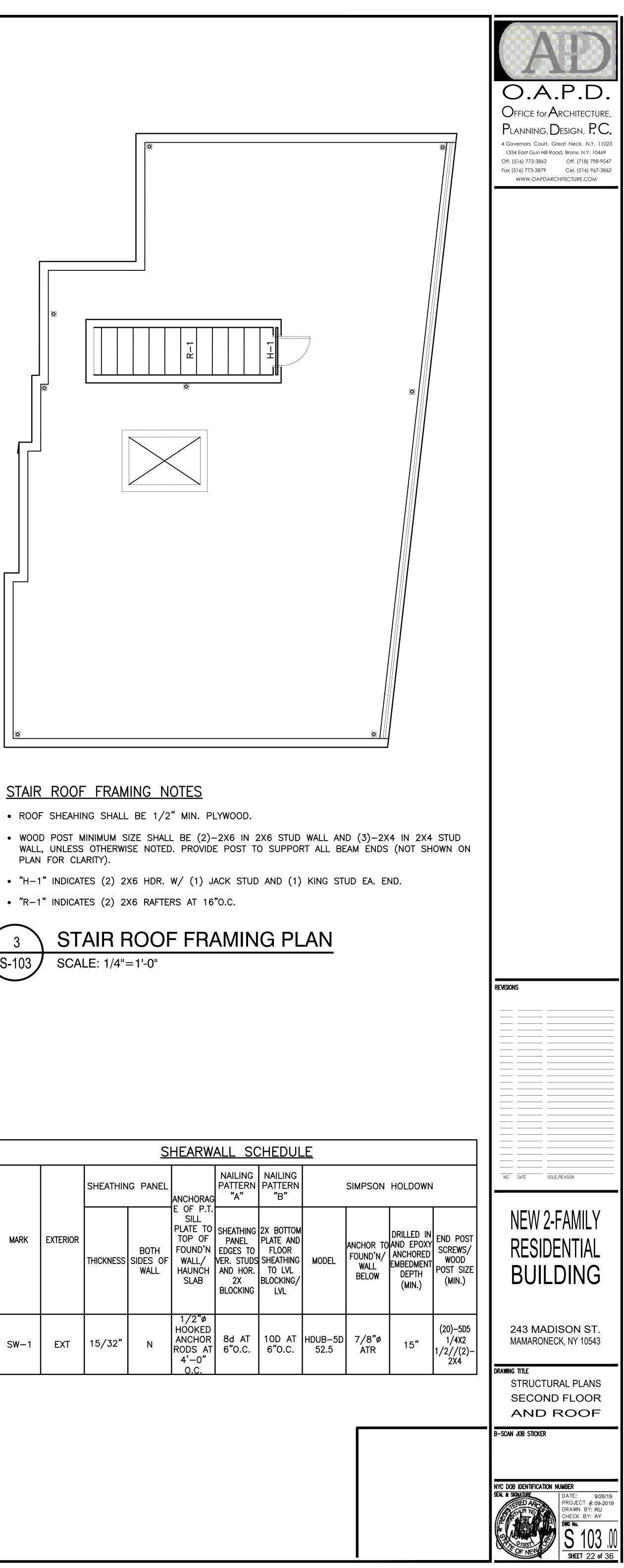
• "R-1" INDICATES (2) 2X6 RAFTERS AT 16"O.C.

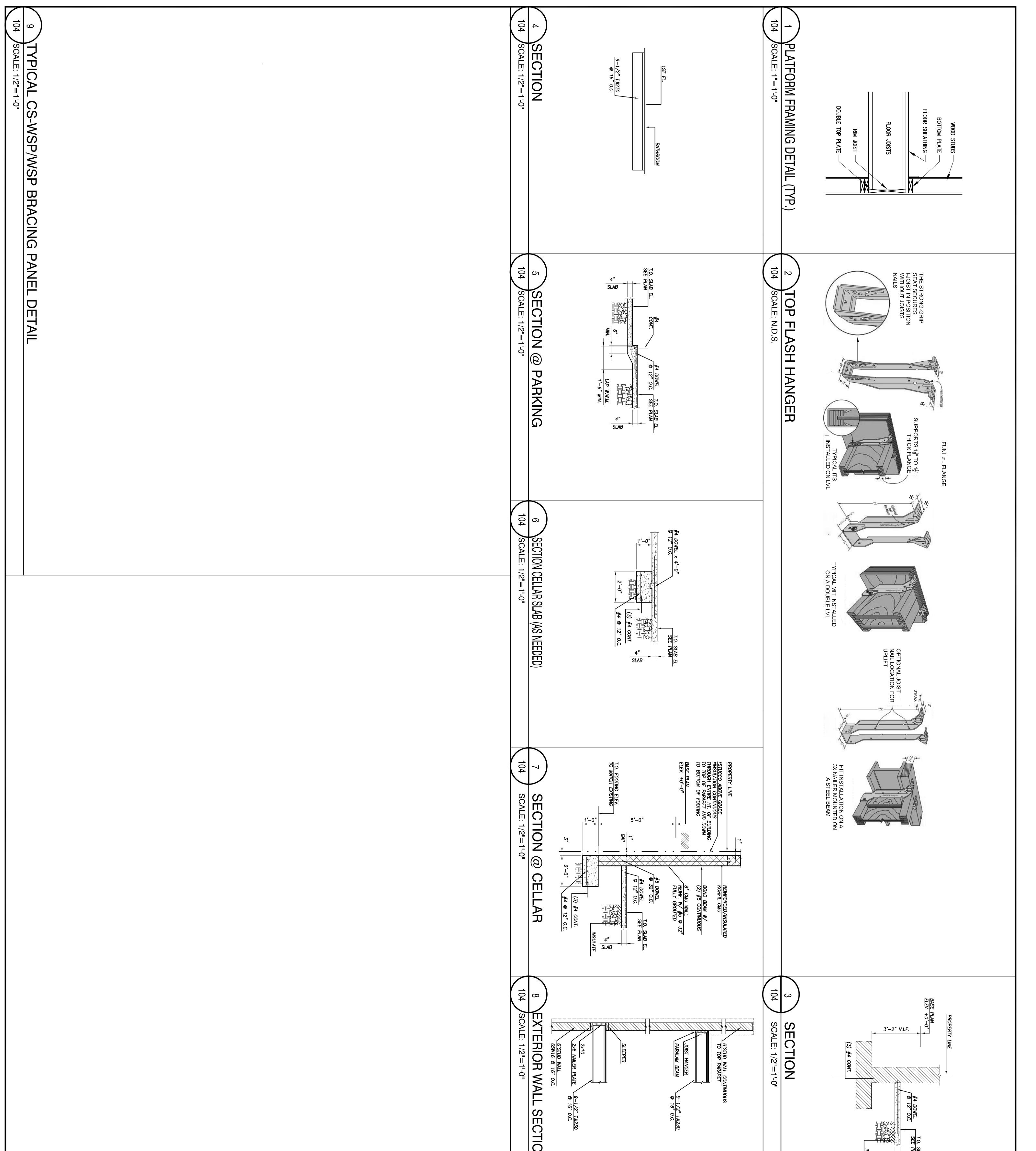
SCALE: 1/4"=1'-0"

STAIR ROOF FRAMING PLAN

PLAN FOR CLARITY).

S-103 /





		INSULAR SLAB
MAMARONECK, NY 10543	MADISON	OFFICE for ARCHITECTURE, PLANNING, DESIGN, P.C., 1334 Edd Gun Hill Road, Brox, NY, 1049 off, (516) 773-3862 off, (718) 789-5847 fox (516) 773-3872 off, (718) 789-5847 fox (516) 773-3872 off, (718) 789-5847 www.OAPDARCHITECTURE.COM

NOTES

- PICHERAL NOTES INVESTIGATION CONTRIPUTED INTERPRETATION CONTRIPU

MECHANICAL RESIDENTIAL

2. CELLAR

4. ACC-CELLAR 3. ACC-1 & 2 3 TON HEAT PUMP ROOFTOP UNIT "MITSUBISHI" MODEL PUZ-A: COMPRESSOR; COOLING INTAKE AIR TEMP (MAXIMUM / MINIMI (MAXIMUM / MINIMUM) 70°F DB/0, 59°F WB / 12°F DB/0, 10°F WB; 4°F, WEIGHT: 214 LBS.; WXDXH: 42-15/16" X 17-11/16" X 56-1/16". ,36NKA7, INVERTER-DRIVEN TWIN ROTARY UM) 115°F DB/0° DB; HEATING AIR INTAKE AIR TEMP THERMAL LOCK-OUT / RE-START TEMPERATURE 8°F

5. EXHAUSTS - RESIDENTIAL (KITCHEN & BATHROOMS): NDIVIDUAL APARMENT INDOOR EXHAUST FANS CEILING EXHAUST FANS " COOK GEMINI" 100 SERIES, MODEL GC, 120 VOLTS/1 PHASE. SPEED CONTROLLER, 100 SERIES DAMPER AND RC-75 VIBRATION ISOLATORS. SCHED TX FAN SIZE 144, 50 CFM @ 0.25" SP KX FAN SIZE 164, 100 CFM @ 0.25" SP

6. ROOF EXHAUST FANS DOWNBLAST CENTRIFUGAL ROOF MOUNTED DIRECT DRIVE "COOK" MODEL ACED-EC, 120 VOLTS/1 PHASE. PROVIDE GF SWITCH AND CONSTANT PRESSURE CONTROL SYSTEM. SC -TX FAN SIZE 90C17DEC, 200 CFM @ 0.5" SP, 1/4 HP -KX FAN SIZE 100C17DEC, 400 CFM @ 0.5" SP, 1/4 HP IVE ELECTRONICALLY COMMUTATED MOTOR GRAVITY BACKDRAFT DAMPER, ROOF CURB, SCHEDULE TO BE AS FOLLOWS: R EXHAUST FANS 1, DISCONNECT

8. GRAVITY DAMPER "S & P" SERIES MODEL 502 AUTOMATIC WALL VELOCITY. TEMPERATURE: -40°F TO 180°F.

MECHANICAL 1. MECHANICAL/ WATER HEATING COOLING EQUIP/ HEATING EQUIP/ AND PIPING INSL THAN THE ENERG SECTION, AS APF ITS FUNCTION AN

JM PIP

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uct Loc ation SEA R-5 -value

Unconditior Outside the envelope a

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A. WHEN LOC B. WHEN THE I DOES NOT

5. MAINTENANCE IN A. MAINTENANC ON A READILY OPERATION A B. AN OPERATION A B. AN OPERATIN CONTRACTOF II. EQUIPMEN II. EQUIPMEN II. SYSTEM C SCHEMATICS, AND SEQUENCE I SEQUENCE I SEQUENCE I N. A COMP NANCE INFORMATION AND MANUALS NTENANCE INSTRUCTIONS SHALL BE FURNISHED FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTIVE NTENANCE. REQUIRED REGULAR MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED A READILY ACCESSIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE RATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. DPERATING AND MAINTENANCE MANUAL MUST BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL VIRACTOR. THE MANUAL SHALL INCLUDE, AT LEAST, THE FOLLOWING: QUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS. EQUIPMENT OPERATION AND MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, ICS, AND CONTROL QUIPMENT OPERATIONS. DESIRED OR FIEI D-DETERMINING MAINTENANCE ACTIONS. VENTLY RECORDED ON

CE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY WINGS, TROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS. MPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

VENTILATION OUTDOOR AIF DUTDOOR AIR IN SSS THAN A CLA SSS THAN A CLA SOOT (6.8 L/S - A XCEPTION: GRA XCEPTION: GRA V HEIGHT ABOV IR INTAKES AND EXHAUST OPENINGS - AIR TIGHTNESS: STAIR AND ELEVATOR SHAFT VENTS AND OTHER INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE EQUIPPED WITH NOT .ASS I MOTORIZED, LEAKAGERATED DAMPER WITH A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE M2) AT 1.0 INCH WATER GAUGE (W.G.) (1250 PA) WHEN TESTED IN ACCORDANCE WITH AMCA 500D. :AVITY (NONMOTORIZED) DAMPERS ARE PERMITTED TO BE USED IN BUILDINGS LESS THAN THREE STORIES VE GRADE. WPER CONTROLS - WHEN SYSTEM/SPACE NOT IN USE: BOTH OUTDOOR AIR SUPPLY AND EXHAUST DUCT 'PED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES JT IN USE.

EQUIPMENT

(FLOORS <u>د</u> |

1. APARTMENT A & B (FLOORS 1 AC-1 & AC-2 3.0 TON INDOOR "MITSUBSHI I 36.000/ 38.000 BTU COOLING/ HEATING; POWE WEIGHT: 86 lbs.; SOUND PRESSURE: dBA 33/3 ALL THERMOSTATS FOR THE RESIDENTIAL UI PROGRAMMABLE THERMOSTAT" 208 42, V 2 <u>ZONTA - DUCTED HEAT PUMP SYSTEM"</u> 8-230V / 60 Hz / 1 PH; COOLING: 3.0 kW; WxDxH: 55-1/8" x 28-7/8" x 9-7/8". .4 1

UNITS SHALL BE WALL M 0 MHK1

PRC TO BE AS FOLLOWS:

7. VENTILATION FAN

SYSTEM AND EQUIPMENT TYPES, SIZES AND EFFICIENCIES SHALL BE PROVIDED. SPACE HEATING AND SERVICE SYSTEM AND EQUIPMENT TYPES, SIZES AND EFFICIENCIES SHALL BE PROVIDED. SPACE HEATING AND MENT, ENERGY RECOVERY EQUIPMENT, ECONOMIZERS, VENTILATION EQUIPMENT, SERVICE WATER AND MANDATORY REQUIREMENTS INCLUDING CONTROL SYSTEMS, DUCT SEALING AND DUCT JLATION SHALL BE SHOWN ON THE CONSTRUCTION DRAWINGS AND SHALL BE EQUAL TO OR GREATER SY EFFICIENCY REQUIREMENTS ESTABLISHED IN THE ENERGY ANALYSIS, THE ENERGY CODE AND/OR THIS PLICABLE. A NARRATIVE SHALL BE PROVIDED FOR EACH MANDATORY CONTROL SYSTEM DESCRIBING AD OPERATION AND SPECIFYING PROPER SETPOINTS OF EQUIPMENT AND CONTROLS.

		Nominal ripe planner
LINIC	≤ 1 <u>.</u> 5"	≥ 1.5"
ater	1.5"	2"
lter, Refrigerant, Brine	1.5"	1.5"
lot Water	1"	" L
nsulation having conducticity (k) not exceeding 0.27 Btu per $\bullet^{\circ}\text{F}$)	city (k) not excee	ding 0.27 Btu per
-		

CATED WITHIN EQUIPMENT. DESIGN TEMPERATURE DIFI EXCEED 15 °F (8°C) BETV /EEN THE = QR Ð EXTER Õ פ OR PLEN

4. ALL DUCTS, AIR HANDLERS AND FII 603.9 OF THE MECHANICAL CODE.

QUIPMENT AND BUILDING SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN WITH CODES.

Y DAMPERS SHALL BE PERMITTED IN BUILDINGS LESS THAN THREE STORIES IN HEIGHT. IY DAMPERS SHALL BE PERMITTED FOR OUTSIDE AIR INTAKE OR EXHAUST AIRFLOWS OF ? LESS. 300 CFM (.14

HVAC LEGEND

RR AC ACC ACC TX DXN FLFD VCD FLFD W/ ADD B AIR CONDITIONING UNIT/ FURM AIR COOLED CONDENSING TOILET EXHAUST FAN DRYER EXHAUST FAN U.L. FIRE DAMPER VOLUME CONTROL DAMPER WITH WIRE MESH SCREEN COMBINATION FIRE SMOKE D/ WITH ACCESS DOOR MOTORIZED DAMPER RETURN AIR REGISTER CUBIC FEET PER MINUTE

DRAWING LIST LEGEND S

M-101 M-102 M-103 M-104 HVAC HVAC HVAC HVAC NOTES, PLANS PLANS RISER

EILING) OW FLOOR) TH / TOILET BOILER

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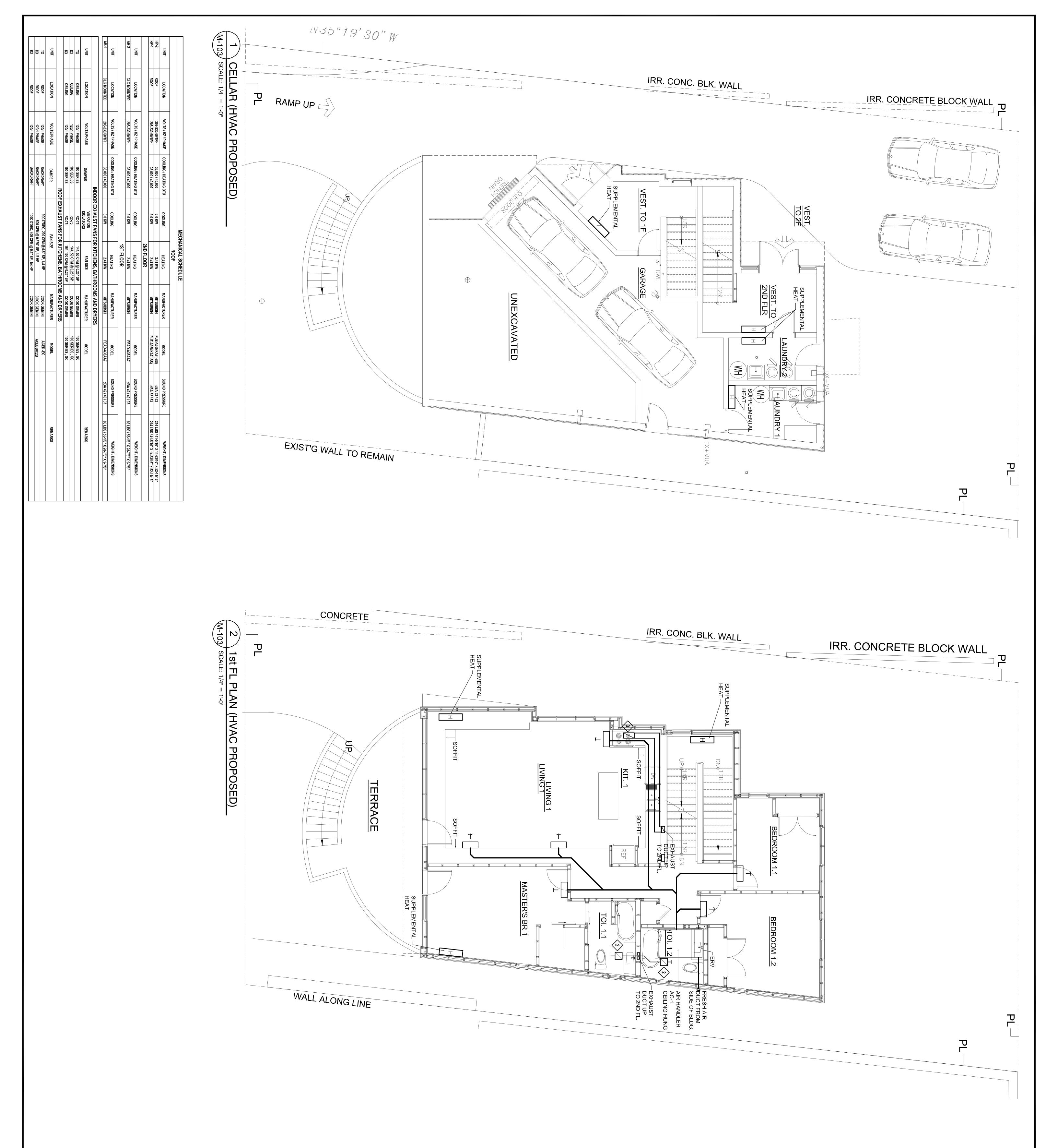
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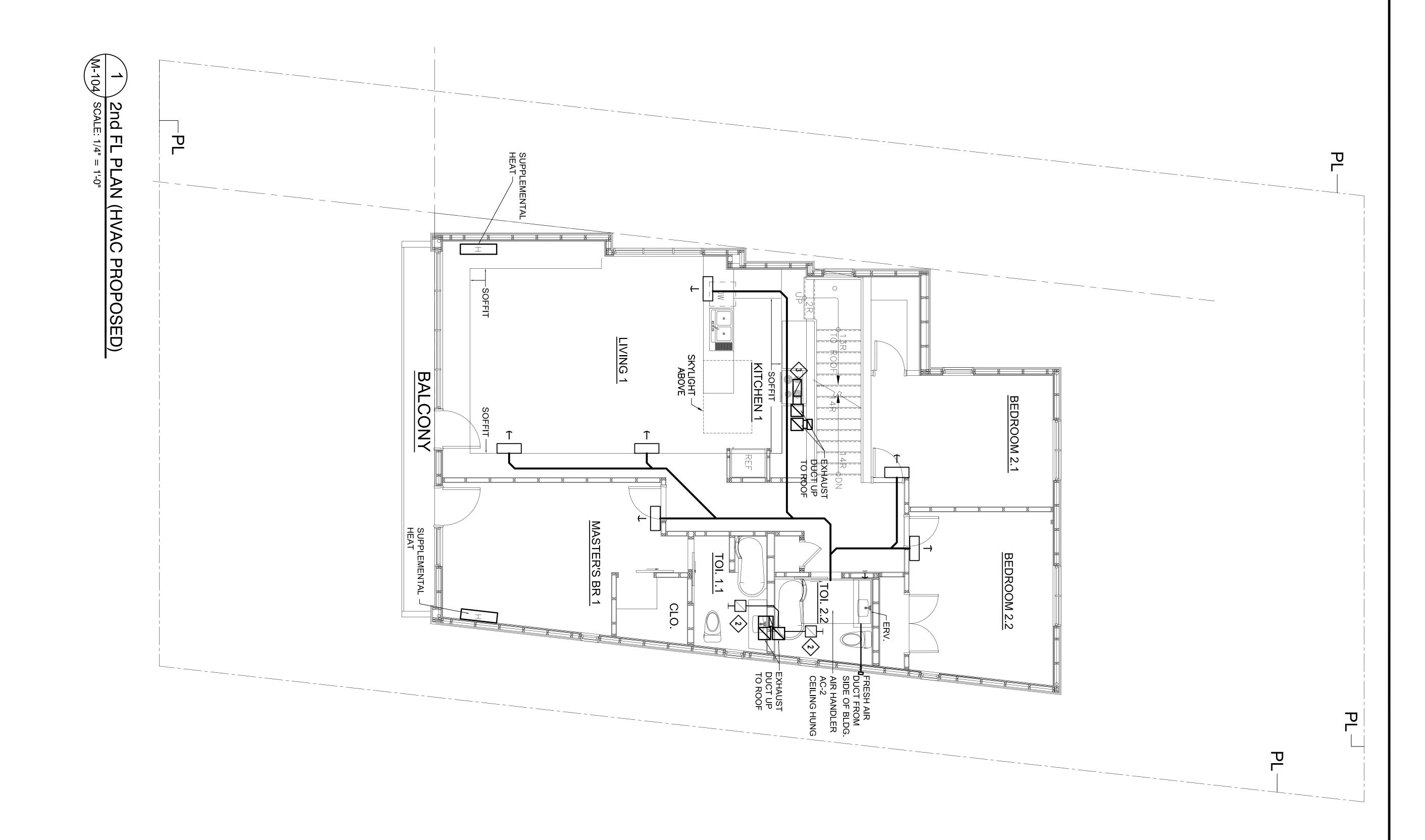
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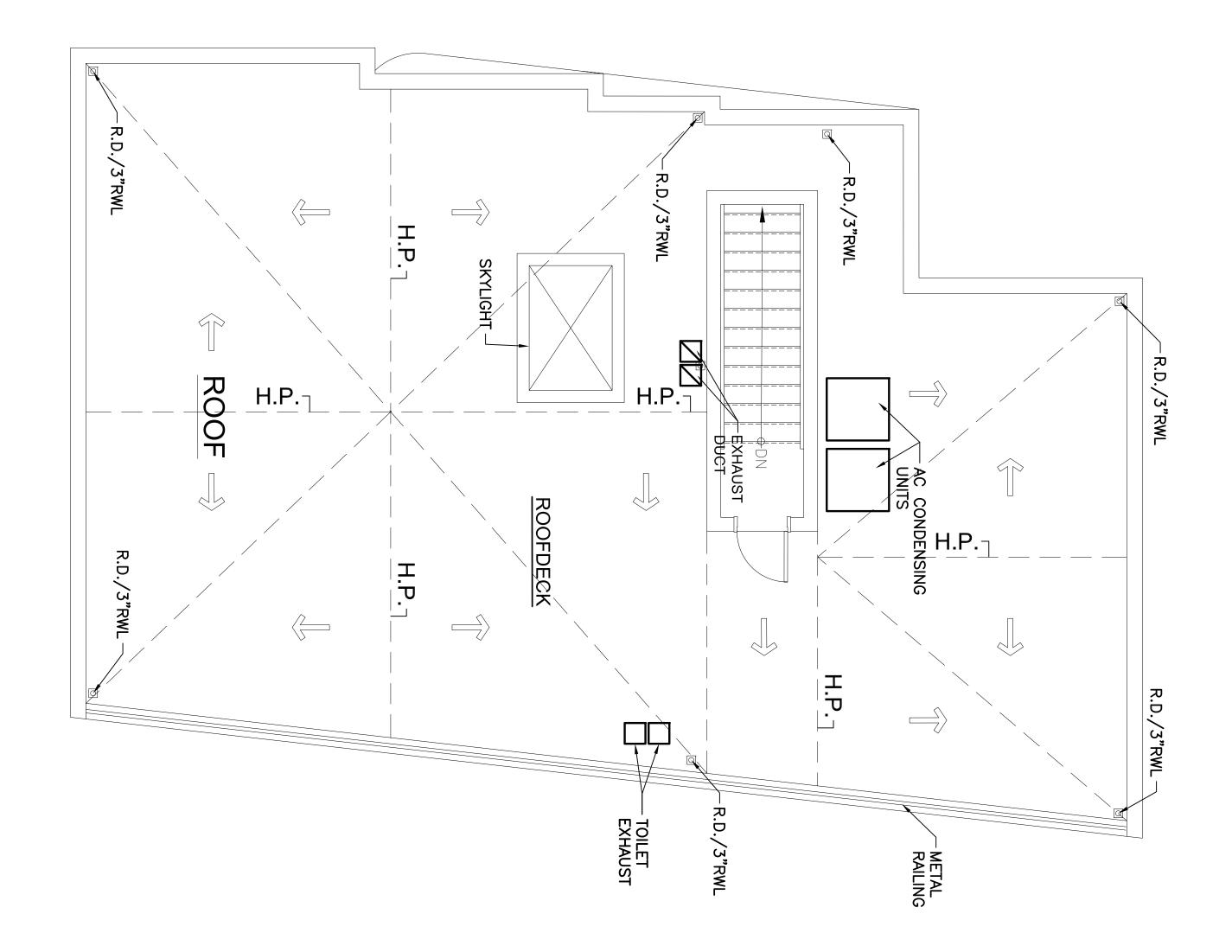
NYC DOB IDENTIFICATION NU SEAL & SIGNATURE THE AND A SIGNATURE	243 MADISON STREET MAMARONECK, NY 10543 DRAWNG TITLE HVAC NOTES SPECS, LEGEND & VENT RISE DIAGRAM B-SCAN JOB STICKER	NEW 2-F Reside	NO DATE ISSUE	#4 DATE REV 4 SSUE/ #2 DATE REV 2 SSUE/ #2 DATE REV 2 SSUE/	OFFICE for A PLANNING, D 4 Governors Court, Gr 1334 East Gun Hill Roc Off. (516) 773-3862 Fax (516) 773-3879 WWW.OAPDARC
UMBER DATE: 09/18/20 PROJECT #: 2020-02 DRAWN BY: EH CHECK BY: AY DWC No. M - 101 01 01 04	DN STREET X, NY 10543 & VENT GRAM	ENTIAL BING	REVISION	REVISION 4 REVISION 3	FFICE for Architecture, Covernors Court, Great Neck, N.Y. 11023 34 East Gun Hill Road, Bronx, N.Y. 10469 (516) 773-3862 Off. (718) 798-9547 (516) 967-3862 WWW.OAPDARCHITECTURE.COM



NYC DOB IDENTIFICATION NUMBER SEAL & SIGNATURE DATE: 09/18/20 DATE: 09/18/20 DRAWN BY: EH DRAWN BY: EH OWG: N. M. 00,000 M. 00,000	243 MADISON STREET MAMARONECK, NY 10543 DRAWNG TITLE HVAC PLAN AND MECHANICAL SCHEDULE ENERGY ANALYSIS B-SCAN JOB STICKER	NEW 2-FAMILY BULDING		OFFICE for Architecture PLANNING, DESIGN, P.C. 1334 East Gun Hill Road, Bronx, N.Y. 10469 Off. (516) 773-3862 Off. (516) 773-3879 Cel. (516) 967-386 WWW.OAPDARCHITECTURE.COM
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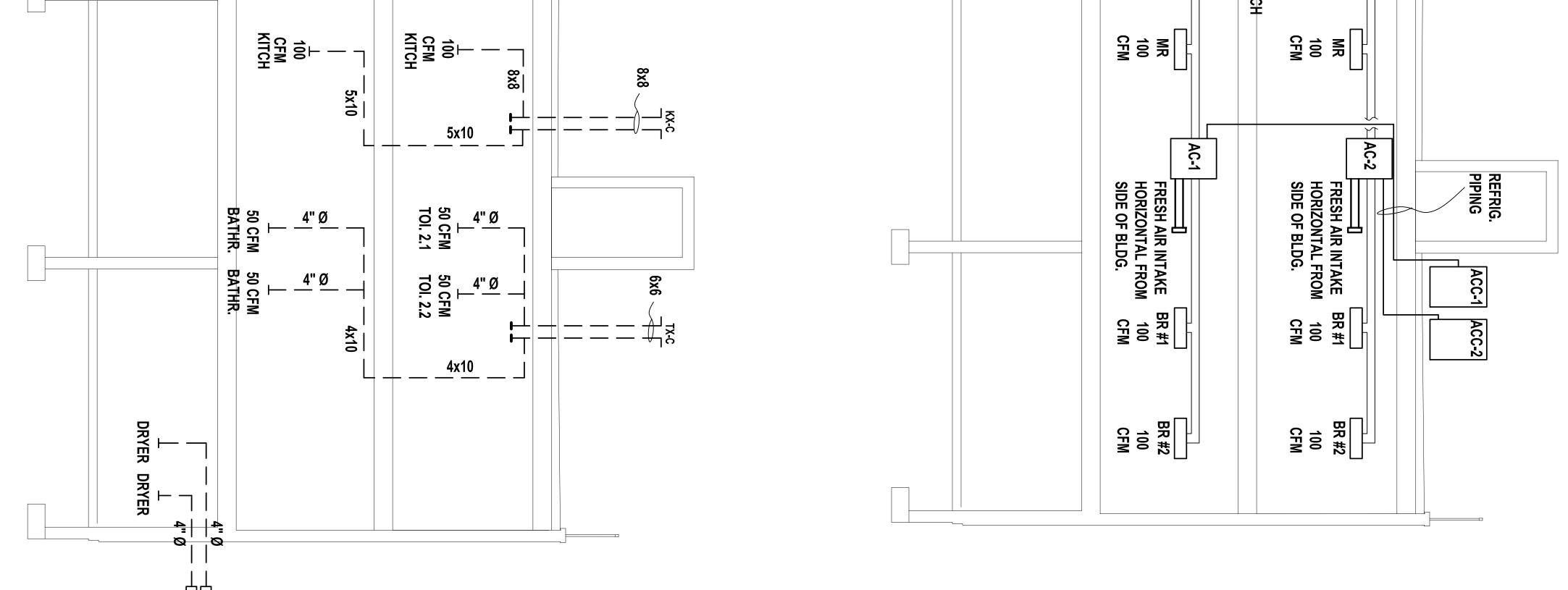




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NYC DOB IDENTIFICATION NUMBER SEA & SIGNATURE SEA & SIGNATURE DATE: 09/18/20 PROJECT #: 2020-02 DRAWN BY: EH CHECK BY: AY OWG: No. M - 100,00 SHEET 03 of 04	243 MADISON STREET MAMARONECK, NY 10543 DRAWNG TITLE HVAC PLAN AND MECHANICAL SCHEDULE ENERGY ANALYSIS B-SCAN JOB STICKER	NEW 2-FAMILY ISUE/REVISION		OFFICE for Architecture, PLANNING, DESIGN, P.C., 1334 East Gun Hill Road, Bronx, N.Y. 11023 1334 East Gun Hill Road, Bronx, N.Y. 10469 Off. (516) 773-3862 Off. (516) 773-3879 Cel. (516) 987-3862 WWW.OAPDARCHITECTURE.COM
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GRADE	CELLAR FLOOR EL.+28'-0" (VARIES)	IST FLOOR T.O.DECK	2ND FLOOR T.O.DECK EL.+45'-0"	EL.+58-0 ROOF H.P. ROOF STRUCT.	BULKHEAD EL.+62'-4"	GRADE STREEMENESPLAT HVAC RISER	CELLAR FLOOR EL.+28'-0" (VARIES)	IST FLOOR T.O.DECK EL.+36'-0"	T.O.DECK EL.+45'-0"		EL.+58'-0" ROOF H.P. EL.+54'-8" ROOF STRUCT.	ULKH +62.
	UNEXCAVATED	APARTMENT "A"		APARTMENT "B"			UNEXCAVATED	LR#1 100 CFM CFM CFM CFM CFM CFM CFM CFM CFM CFM	APARTMENT "A"	LR#1 LR#2 LR#3 100 100 100 100 100	APARTMENT "B"	



$ \begin{array}{l} BT = BOTTOM THROAT \\ TT = TOP THROAT \\ BT = \\ TT =$	SUPPLY DUCT SPLIT	SUPPLY, RETURN OR EXHAUST DUCT BRANCH	PPLY, RETURN C	ELBOW MAY TRANSITION IN "W" DIMENSION ONLY SUPPLY, RETURN OR EXHAUST ROUND ELBOW	SINGLE LINE DOUBLE LINE
RETURN REGISTER AT END OF DUCT RUN	SUPPLY DIFFUSER AT END OF DUCT RUN OPPOSE VOLUME	KEYO	SUPPLY DIFFUSER CONNECTION		DUCT DETAILS <u>SINGLE LINE</u>
	OF DUCT RUN OPPOSED BLADE- VOLUME DAMPER	1/2 NECK SIZE MIN. 6"	EXTRACTOR EXTRACTOR	CTION KEY OPERATED	DOUBLE LINE

R403.6 MECHANICAL VENTILATION (MANDATORY). THE BUILDING SHALL BE PROVIDED WITH VENTILATION THAT MEETS THE REQUIREMENTS OF THE NEW YORK STATE MECHANICAL CODE AS APPLICABLE, OR WITH OTHER APPROVED MEANS OF VENTILATION. OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN VENTILATION SYSTEM IS NOT OPERATING.

R406.1 WHOLE- HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY. MECHANICAL VENTILATION SYSTEM FANS SHALL MEET EFFICACY REQUIREMENTS OF TABLE R403.6.1

EXCEPTION: WHERE MECHANICAL VENTILATION FANS ARE INTEGRAL TO TESTED AND LISTED HVAC EQUIPMENT, THEY SHALL BE POWERED BY AN ELECTRONICALLY COMMUTATED MOTOR.

ME	MECHANICAL VENTILATION SYSTEM FAN EFFICACY	EM FAN EFFICACY	
FAN LOCATION	AIR FLOW RATE MINIMUM	MINIMUM EFFICACP	AIR FLOW RATE MAXIMUM
RANGE HOODS	ANY	2.8 CFM / WATT	ANY
IN-LINE FAN	ANY	2.8 CFM / WATT	ANY
BATHROOM, UTILITY ROOM	10	1.4 CFM / WATT	06 >
BATHROOM, UTILITY ROOM	50	2.8 CFM / WATT	ANY



25

The Model FGS is a rear flanged exhaust shutter for areas where corrosion is a known problem. The frame and blades are a heavy duty fiberglass pultrusion with stainless steel tie rods. Ideal for use with direct-drive or belt-driven exhaust fans in chemical plants and poultry/swine confinement operations. Recommended for vertical mount exhaust applications only.

FEATURES:
Fiberglass pultrusion construction.
Integrated weather stripping incorporated into frame for additional strength and w
Maximum recommended velocity is 2,500 FPM. Temperature: -40 F to 180 F
304 stainless steel screws, pins, rivets and bushings.



EXAMPLE TO DE CONTRACTOR DIAGRAM AND NOTES TO DE CONTRACTOR DIAGRAM AND NOTES	OFFICE for ArcHITECTURE PLANING, DESIGN, P.C. Golf, 1516/1723882 off, 1516/1723882 www.orphacchitecture.com

ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER START-UP AND OPERATION OF THE PLUMBING SYSTEMS. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.	END THE EXECUTION OF THIS WORK. SUBMISS CONSTRUED AS EVIDENCE THAT SUCH AN EXA DE, AND LATER CLAIMS WILL NOT BE RECOGNIZ JIPMENT, OR MATERIALS REQUIRED BECAUSE OF COUNTERED WHICH COULD HAVE BEEN FORESEE MINATION BEEN MADE.	3S, ROOF SLABS 3E PERFORMED TIONS. AND CAREFULL ARIZE THEMSELV HAT WILL	 THE WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, HOISTING AND RIGGING, SCAFFOLDING, AND SERVICES TO COMPLETE THE SYSTEM AND PROVIDE THE OWNER WITH A FULLY OPERATIONAL SYSTEM. ALL WORK SHALL BE PROPERLY COORDINATED WITH THE OTHER TRADES TO AVOID CONFLICTS. REFER TO THE ARCHITECTURAL DRAWINGS FOR REQUIRED CEILING ELEVATIONS, SPACE CLEARANCES AND DETAILS. 	THE BUILDING CODE, ALL AUTHORITIES HAVING JURISDICTION, SPECIFICATION. CONTRACTOR TO OBTAIN AND ADHERE TO A BUILDING DESIGN GUIDELINES AND CONSTRUCTION SPECIFICAT	ACTOR SHALL FURNISH AND INSTALL A PLUMBING SYST WITH ALL EQUIPMENT, PIPING, VALVES, INSULATION, ACCESSORIES AND ASSOCIATED WORK IN ACCORDANCE	PLUMBING SPECIFICATIONS 18.		ECTION AND TESTING OF PLUMBING PIPING NYS PLUMBING CODE.	RDANCE WITH THE REQUIREMENTS OF NYS PLUMBING CODI STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED THE REQUIREMENTS OF NYS PLUMBING CODE.	 13. THE SANTTARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYS PLUMBING CODE. 14. VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN 	. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF NYS PLUMBING CODE.	VERTICAL AND HORIZONTAL PIPING SHALL THE REQUIREMENTS OF PLUMBING CODE.	HOUSE TRAPS SHALL BE PROVIDED AS PER PLUMBI	FOR FLOOR DRAINS	. EQUIPMENT CONNECTIONS AND JOINING OF PIPING S	TERIALS LISED IN DITIMBING SYSTEMS SHALL BE IN ACCORDANCE WITH	TION OF PIPING PASSING UNDER OR THROE EQUIREMENTS.	on of under ITS.	ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT AND WATER DISTRIBUTION PIPING SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 NEW YORK STATE PLUMBING CODE.	BUILDING DEPARTMENT NOTES	. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF EXISTING PIPING SHALL BE VERIFIED AT THE PROJECT SITE. 10.	OR TO SUBMITTING BID PROPOSAL, PLUMBING CONTRACTOR RIFY EXISTING CONDITIONS. A BID PROPOSAL WOULD BE CO HAVING DONE SO.	TIES WORK	MATERIALS, APPARATUS, WORKMANSHIP AND	SENERAL NOTES:
 B. THOROL AND WAS C. ALL PIF D. PROVID 		F. ALL PIF SEISMIC INSTALLATION: A. DURING	U PR SPR SPR SPR SPR SPR SPR SPR SPR SPR	C. WHERE HANGE	SMAL SHAL UNDE	HANGERS AN A. UL LIS B. HORIZO STEEL	B. PROVID HANGE	INSULATION: A. ALL H WATER F	A. MINIMU	PROVIDE AC	3. FUEL .	gas piping A. Schedui	SANITAR A. HU TO (F. BACKF		B. B. TRA	PIPE, FI A. HO	TESTING: A. TEST NYC	AT L 2.	AND FIL C. PROVIDE FLOORS CLEANOUTS: A. CAST IR	A. PROVIDE A. PROVIDE AND FL B. CAULK	VALVES WITH CO OPERATII SHOP DF TO THE	< 7 0	THIS CONTRA AND TRANSMI

NETTING, SHAL, SECURE ALL REQUEED FEMITS AND APPROVAL SIGE FOR ALL TELS.
A SEPA, THE SINKE THAT CONTRACTOR SHALL BE PROVIDE ALL TO BE CONTRACTOR SHALL BE CONTRACT THE STARTS IN CONTRACTOR SHALL BE CONTRACT.
A SEDUTINEON, BENCE LUGG, FILL SEE UP TO A' AND DELONG.
CLEMONT DE CHARGE OF PRED ASSIME THAT ON A HAT DO A' HAN DE SERVETTING. FILL AND A DE APPROVAL.
CLEMONT DE CHARGE VIEWAL STRUCT DE CONTRACT, STRUCT DE CONTRACT, STRUCT DE CONTRACT, STRUCT DE CONTRACT, STRUCT DE STRUCT DE CONTRACT, STRUCT DE CONTRACT, STRUCT DE CONTRACT, STRUCT DE STRUCT DE CONTRACT, STRUCT DE CONTRAC

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UMBING S **YMBOLS**

	DESCRIPTION GATE VALVE/BALL VALVE OS&Y GATE VALVE GLOBE VALVE BALANCING VALVE CHECK VALVE
N ▲	GAS SOLENOID VALVE
FS —	WATER FLOW SWITCH
TS	TAMPER SWITCH FLOOR MOUNTED CLEANOUT
COCP ()	CLEANOUT MOUNTED AT GRADE CLEANOUT DECK PLATE
	CLEANOUT
	WATER METER ON PLAN
	WATER METER IN RISER DIAGRAM
) 🛛	GAS METER ON PLAN
G	GAS METER IN RISER DIAGRAM
-) (T	RY STACK RISER DE
	STORM LEADER NUMBER DESIGNATION
()	GAS RISER DESIGNATION
FD (FLOOR DRAIN
AD	AREA DRAIN
ج اب ا	
	HOSE BIB
	COLD WATER PIPING
	HOT WATER PIF
 G	GAS PIPING
	SE TRAP
	NP (ON PLAN)
	SANITARY SEWER PIPING BELOW FLOOR (ON PLAN) SANITARY SEWER PIPING ABOVE FLOOR
D	AN OR RISER DIAGRAMS)
S C	(ON PLAN OR RISER DIAGRAMS) STORM DRAIN BELOW FLOOR (ON PLAN)
SYMBOL	LIST NOTES:
SYMBOL LIS PRESENCE PROJECT. R	SYMBOL LIST SHOWN IS FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.
SPECIFI	SPECIFICATIONS
TANKLESS ELEC STIEBEL ELTRON HEATER INSTANT ENERGY-EFFICIE POWER WITH 244 THE WATER AS I	TANKLESS ELECTRIC WATER HEATER STIEBEL ELTRON 223424 TEMPRA 24 WHOLE HOUSE TANKLESS ELECTRIC WATER HEATER INSTANTLY PROVIDES HOT WATER TO UP TO FOUR MEDIUM FLOW SINKS! ENERGY-EFFICIENT UNIT WORKS AS A 2-IN-1 MODEL THAT CAN USE 24 KW OF POWER WITH 240V SERVICE AND 18 KW OF POWER WITH 208V SERVICE TO HEAT THE WATER AS IT FLOWS THROUGH THE MACHINE FOR COMPLETE ELIMINATION
OF STANDBY HE TEMPRA 24 FEA THE WATER TEM	ium 0.58 GPM Flow Rat Knob That Allows to Rees Fahrenheit.
INSULATION A. PIPING	pe and fittings)
ALL COLD, STORM WA MICRO-LOK APPROVED	D, HOT AND HOT WATER RETURN PIPING AND HORIZO WATER PIPING SHALL BE INSULATED WITH MANVILLE LOK FIBERGLASS PIPE INSULATION TYPE AP-T PLUS, JED EQUAL, 1" THICK FOR HOT WATER, 1/2" THICK FOR HOT WATER, 1/2" THICK FOR
AND ST	MATER WITH ALL SERVICE JACKET (

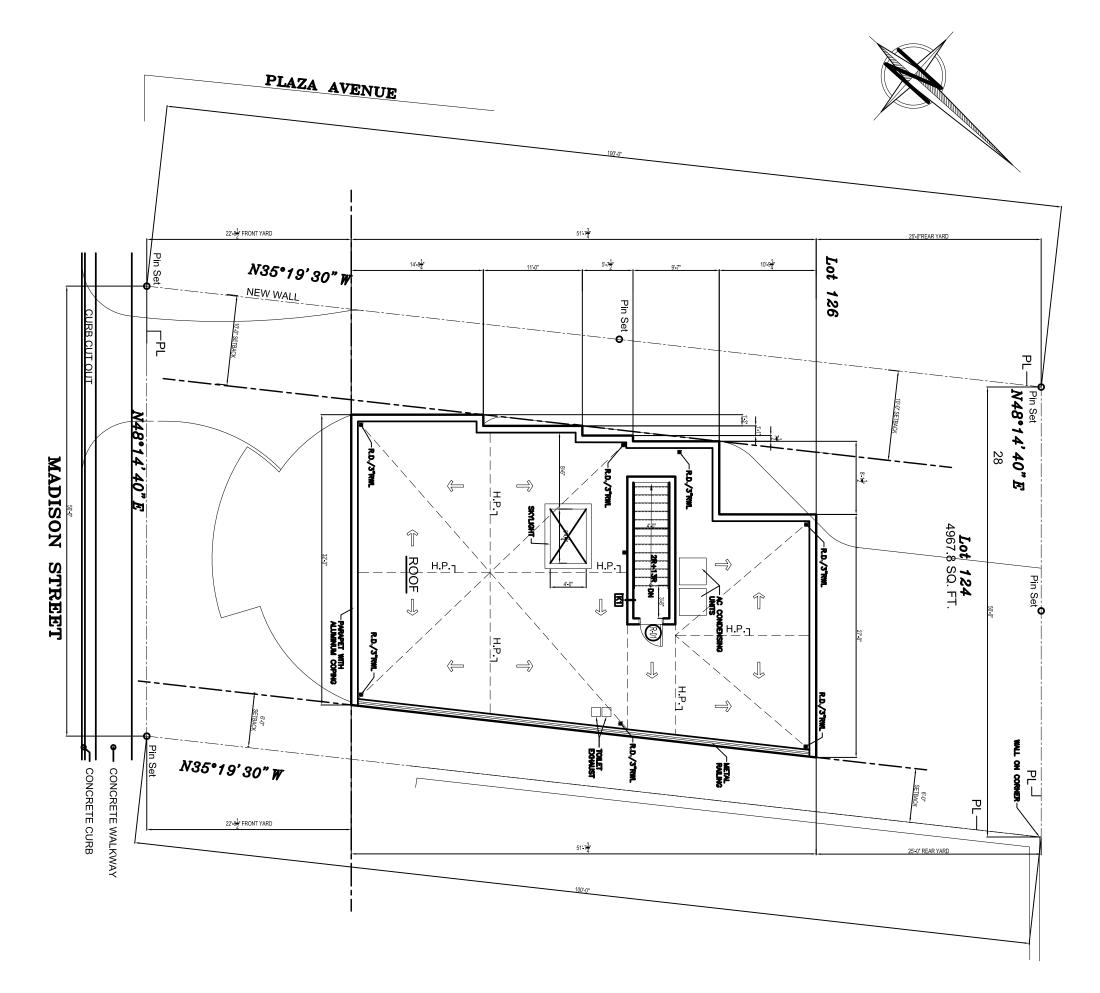
FITTINGS SHALL BE OR SMOKE DEVELOPMENT OF 5 AND VALVES BE INSULATED V ASS INSULATED V COVERS. EPOL COVERS. EPOL P EQUAL, SH. NG PIPE INSUL P SEAM. THE F ED WITH MANVILLE ATION AND ZESTON POLUX 670 WHITE SHALL BE APPLIED EXCEED JR 50 R ב T HI-LO TEMP PVC INSULATED COATING, OR DGES OF THE DGES OF THE ZER THROAT. ZED WITH ស្ព Ř FOR COLD FOR COLD E AND E AND E AD OF 25

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₽ A ZZF ZZF VER THE SELF OF 2".



SCALE: 3/32 PL AZ 1'-0"

NOTE: PLUMBING SYSTEM . CONSTRUCTED, INSTALLED WITH THE 2015 PLUMBING AND EQUIPMENT SHALL BE AND MAINTAINED IN ACCORDANCE CODE OF NEW YORK STATE.

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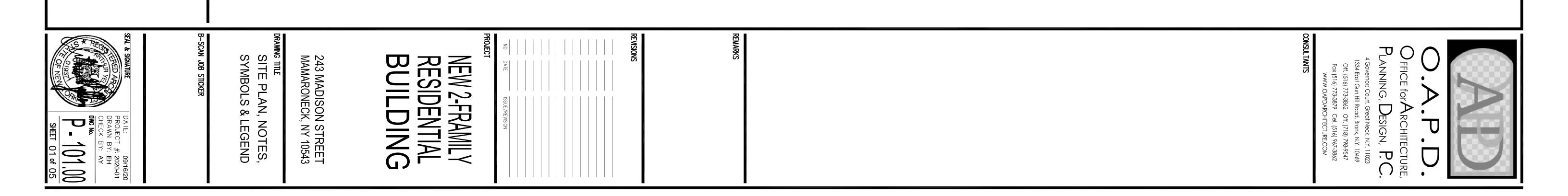
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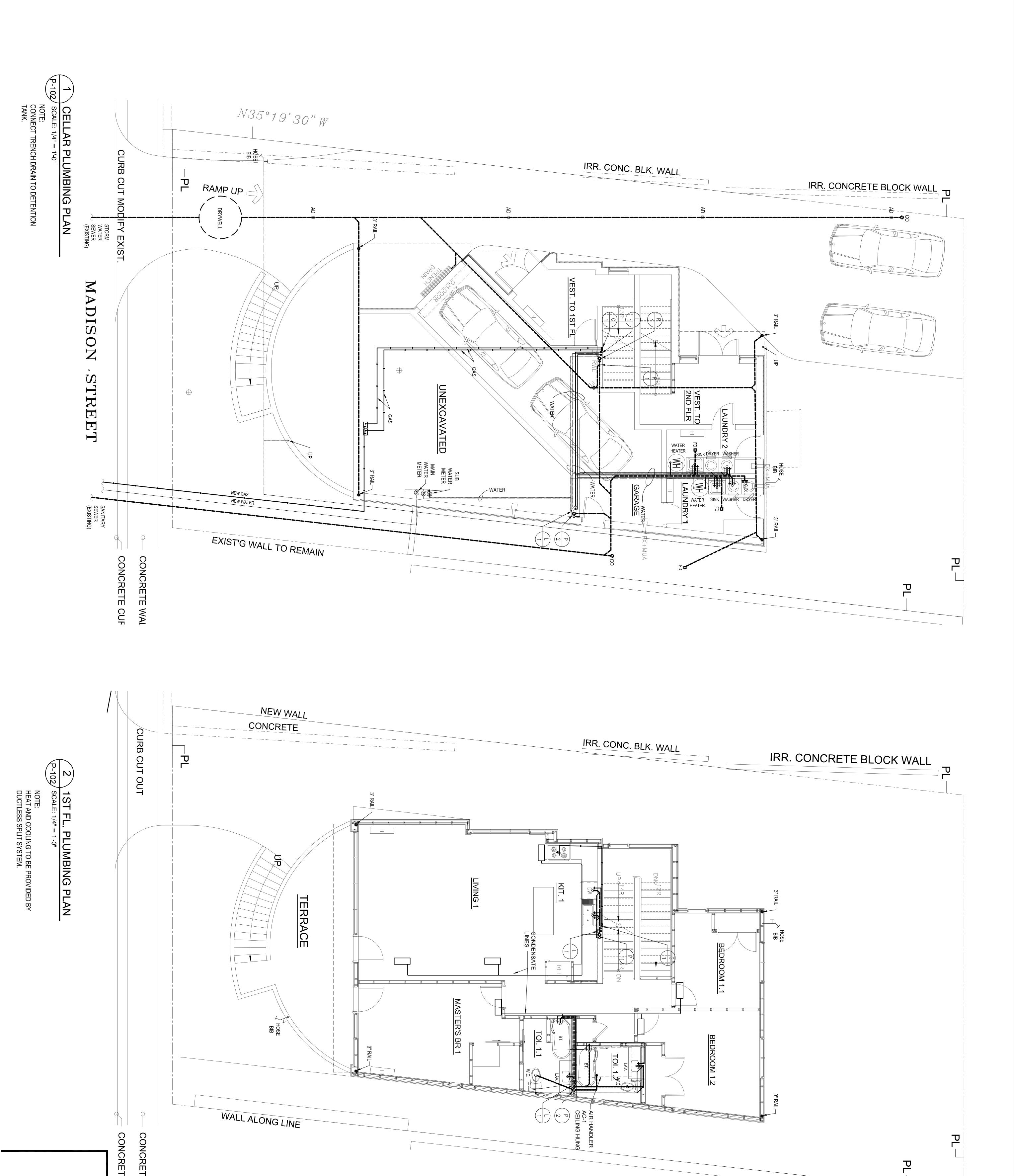
INV	I K ₩	HB	GPH	G	FU	FD	FCO	DW	DR	CW	CFH	8	BTU	ВТ
	HOT WATER HOT WATER RETHIRN		GALLONS PER HOUR	GAS	FIXTURE UNIT	FLOOR DRAIN	FLOOR CLEANOUT	DISHWASHER	DRYER	COLD WATER	CUBIC FEET PER HOUR	CLEANOUT	BRITISH THERMAL UNIT	BATHTUB

LAVATORY ROOF DRAIN TRENCH DRAIN SANITARY SINK / KITCHEN SPRINKLER SERVICE SINK /ATER CLOSET /ALL HYDRANT /ASHER MACHINE /ASHER & DRYER WERAGE EJECTION ᅻ HROUGH ROOF S N PUMP

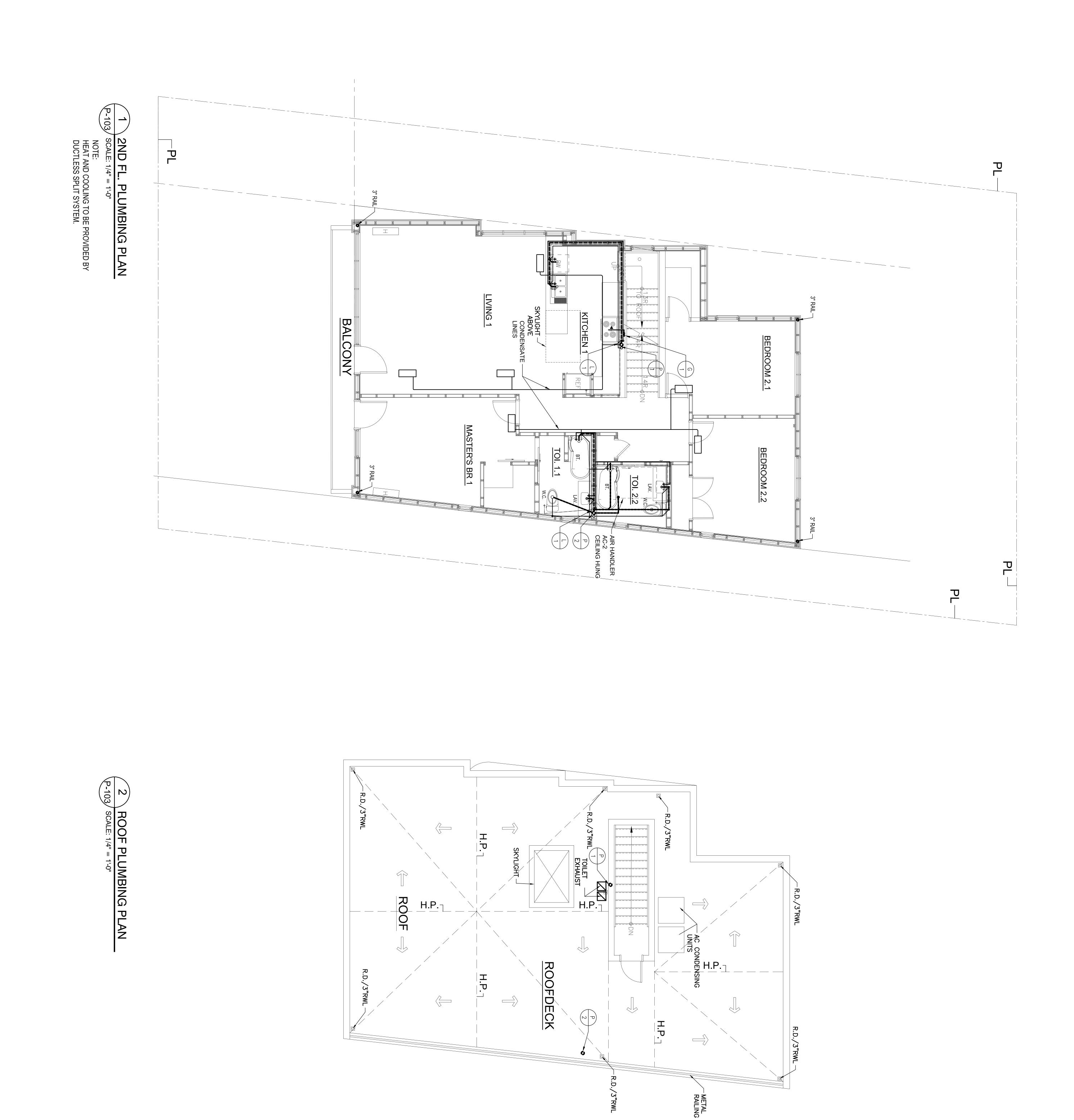
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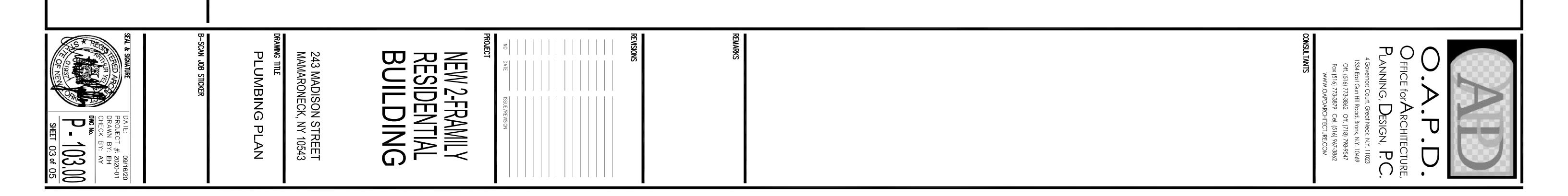
DWG. # TITLE P-101 SITE PLAN, GENERAI P-102 PLUMBING PLANS P-103 PLUMBING PLANS P-104 RISER DIAGRAM P-105 RISER DIAGRAM NOTE LEGEND



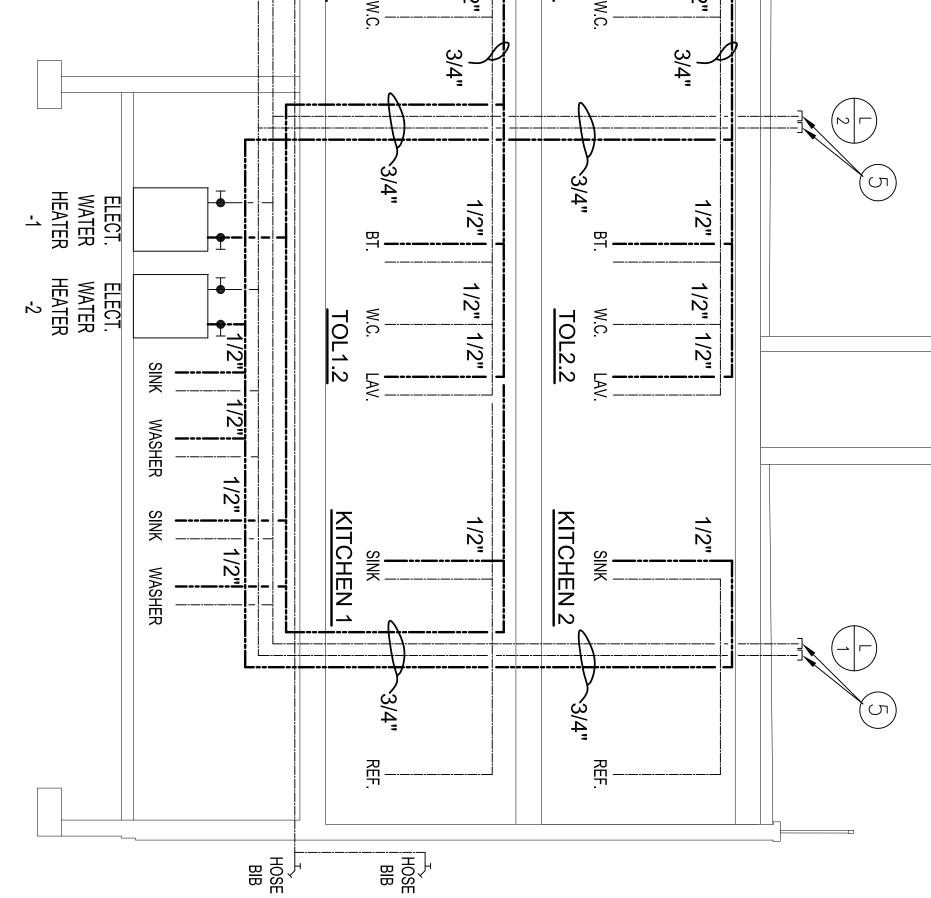


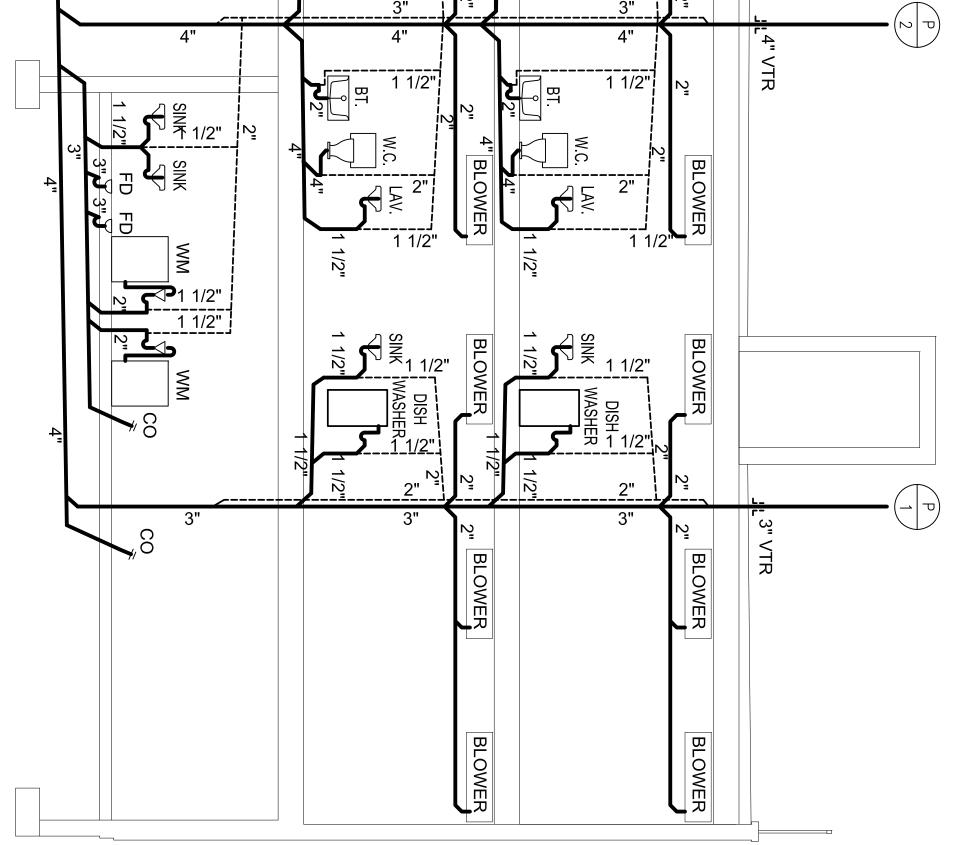
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SEAL & SIGNATURE THE SIGNATURE SEAL & SIGNATURE SITUATION OF ALL OF A	243 MADISON STREET MAMARONECK, NY 10543 Drawng Tite PLUMBING PLAN B-SCAN JOB STICKER	Im Im Im Im Im Im	REMARKS	OFFICE for Architecture, N.Y. 1023 134 East Gun Hill Road, Bronx. N.Y. 1042 1537 (516) 773-3862 Off. (718) 798-9547 1543 (516) 773-3867 Oct. (516) 967-3862 WWW.OAPDARCHITECTURE.COM





GRADE (STREET LEVEL) EL.+23'-0" CELLAR FLOOR EL.+28'-0" (VARIES) GRADE (STREET LEVEL) EL.+23'-0" CELLAR FLOOR El.+28'-0" (VARIES) PARAPET EL.+58'-0" ROOF H.P. EL.+54'-8" EL.+54'-0" PARAPET EL.+58'-0" ROOF H.P. EL.+54'-8" ROOF STRUCT., EL.+54'-0" 2ND FLOOR T.O.DECK EL.+45'-0" 2ND FLOOR T.O.DECK EL.+45'-0" BULKHEAD EL.+62'-4" 1ST FLOOR T.O.DECK EL.+36'-0" IST FLOOR T.O.DECK EL.+36'-0" SANITARY RISER DIAGRAM SCALE: N.T.S. WATER RISER DIAGRAM $\mathbf{\Phi}$ $\mathbf{\Phi}$ $\mathbf{\Phi}$ \bullet $\mathbf{\Phi}$ \bigcirc $\mathbf{\Phi}$ $\mathbf{\Phi}$ $\mathbf{\Phi}$ $\mathbf{\Phi}$ $\mathbf{\Phi}$ S NEW 2" DOMESTIC WATER SERVICE C SUB WATER MAIN WATER METER С П 뜻 HOSE BIB METERS BB HOSE \bigcirc ~3/4" BLOWER BLOWE UNEXCAVATED UNEXCAVATED 1 1/2" 1 1/2" **V** ᄜ 1/2" 1/2" | R $\frac{1}{N}$ $\int \frac{1}{11/2"}$ 1 1/2" BLOWER 2" 1/2" /2" TOL2.1 <u>TOL1.1</u> -----_____ \leq 4 1/2" 1/2





BULKHEAD EL.+62'-4"

 $\mathbf{\Phi}$

10. DESIGN RAINFALL RATE = 3 INCHES PER HOUR.	
9. HOUSE TRAP	
8. NEW STORM DRAIN	
7. —	
ס. ا	
5. PIPING CONNECTION a, b, c	
4. ALL HORIZONTAL BRANCHES AND PIPING SLOPE @ 2% MIN. UNLESS OTHERWISE NOTED	
3. CLEANOUT REQUIRED AT EACH CHANGE OF DIRECTION OVER 45"	
2. NEW 4" COMB. BUILDING SEWER @ 5% SLOPE	
1. SLEEVE	-
KEY NOTES (SYMBOLS (1), (2), ETC.)	
2. FOR PIPING CONNECTION TO PLUMBING FIXTURES & EQUIPMENT SEE SCHEDULE ON P-	
1. SEE SYMBOL LIST ON DWG P-1.	
GENERAL NOTES	

HOT AN		HOT AND COLD WATER, FLOW LOADS	V LOADS	
FIXTURE TYPE	'PE	LOAD VALU	LOAD VALUE IN WATER SUPPLY	JPPL
FIXTURE	USAGE	COLD WATER HOT WATER	HOT WATER	Ъ
	PRIVATE	3.0	-	
WATER CLOSET (WC)	PUBLIC	5.0	-	
	PRIVATE	1.5	1 <u>.</u> 5	
	PUBLIC	3.0	3 <u>.</u> 0	
BATHTUB (BT)		1.5	1 <u>.</u> 5	
	PRIVATE	1.5	1 <u>.</u> 5	
	PUBLIC	3.0	3 <u>.</u> 0	
KITCHEN SINK (SK)	PRIVATE	1.5	1 <u>.</u> 5	
SERVICE SINK (SS)	PRIVATE	1.5	1 <u>.</u> 5	
	PUBLIC	3 <u>.</u> 0	3 <u>.</u> 0	
REFRIGERATOR (REF)	-	1.0	-	
HOUSE BIBB (HB)	PUBLIC	3.0	-	
WASH/DRYER (W/D)	PRIVATE	3.0	3.0	
DISHWASHER (DW)	PRIVATE	1	<u>2.</u> 0	

-	
0 5 5	
CYMBO	

. N. N. SEE SYMBOL LIST C FOR PIPING CONNEC ON DWG P-1. ጵ EQ ENT

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KEY

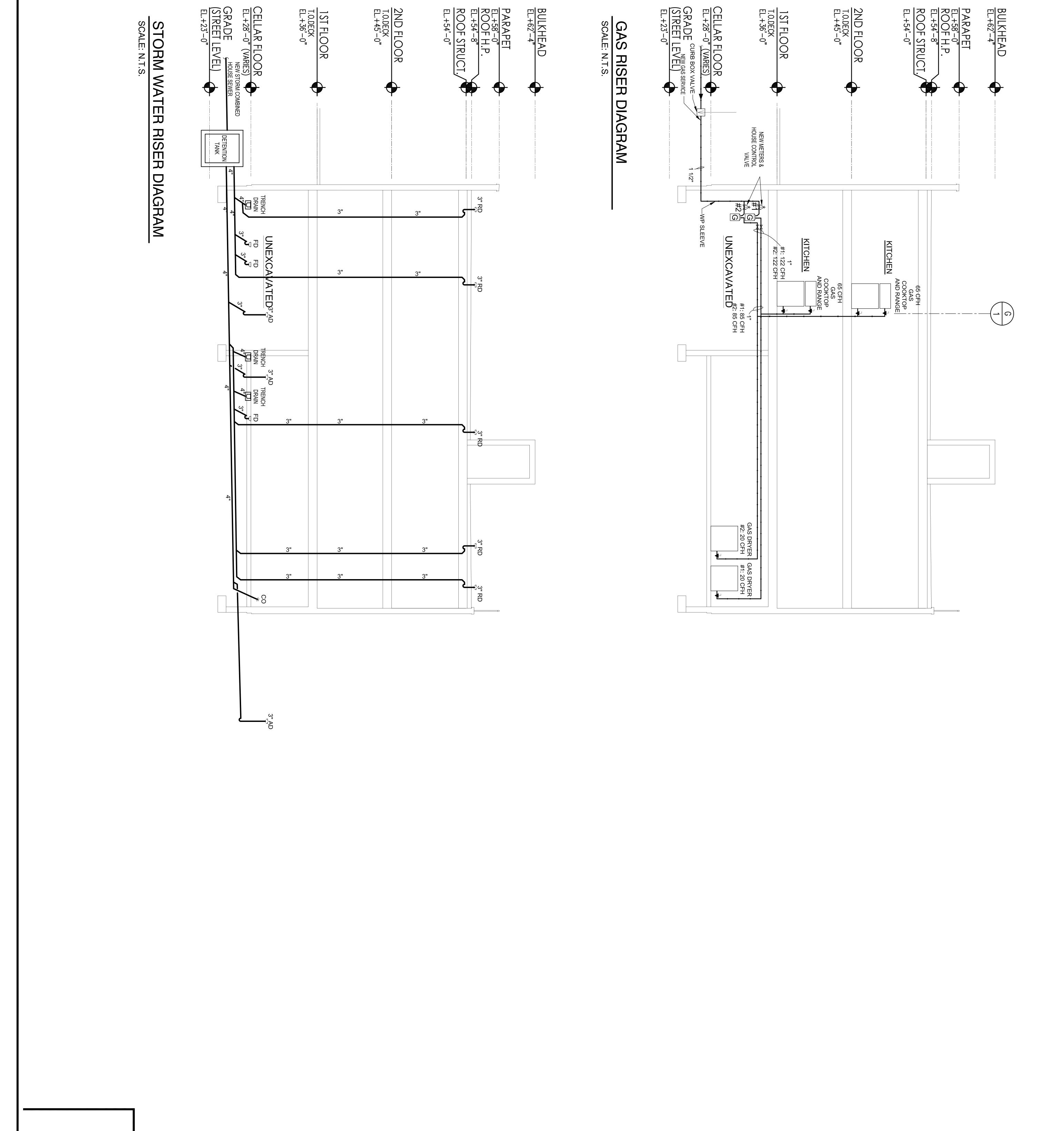
 EY NOTES
 (SYMBOLS
 1
 2
 ETC.)

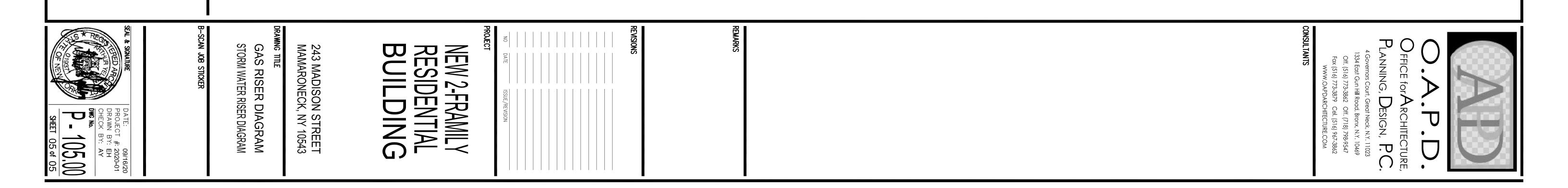
 ONE CONTROL VALVE FOR EACH APARTMENT ELEC. CONTROL SWITCH HOT WATER RECIRCULATING PUMP CHECK VALVE AIR CHAMBER 12" LONG AT TOP OF EACH RISER WATER HAMMER ARRECTER PROVIDE ADJUSTABLE JACK STANDS AS REQ'D 4.4 GAL EXPANSION TANK P&T RELIEF VALVE DRAIN

 ETC.)

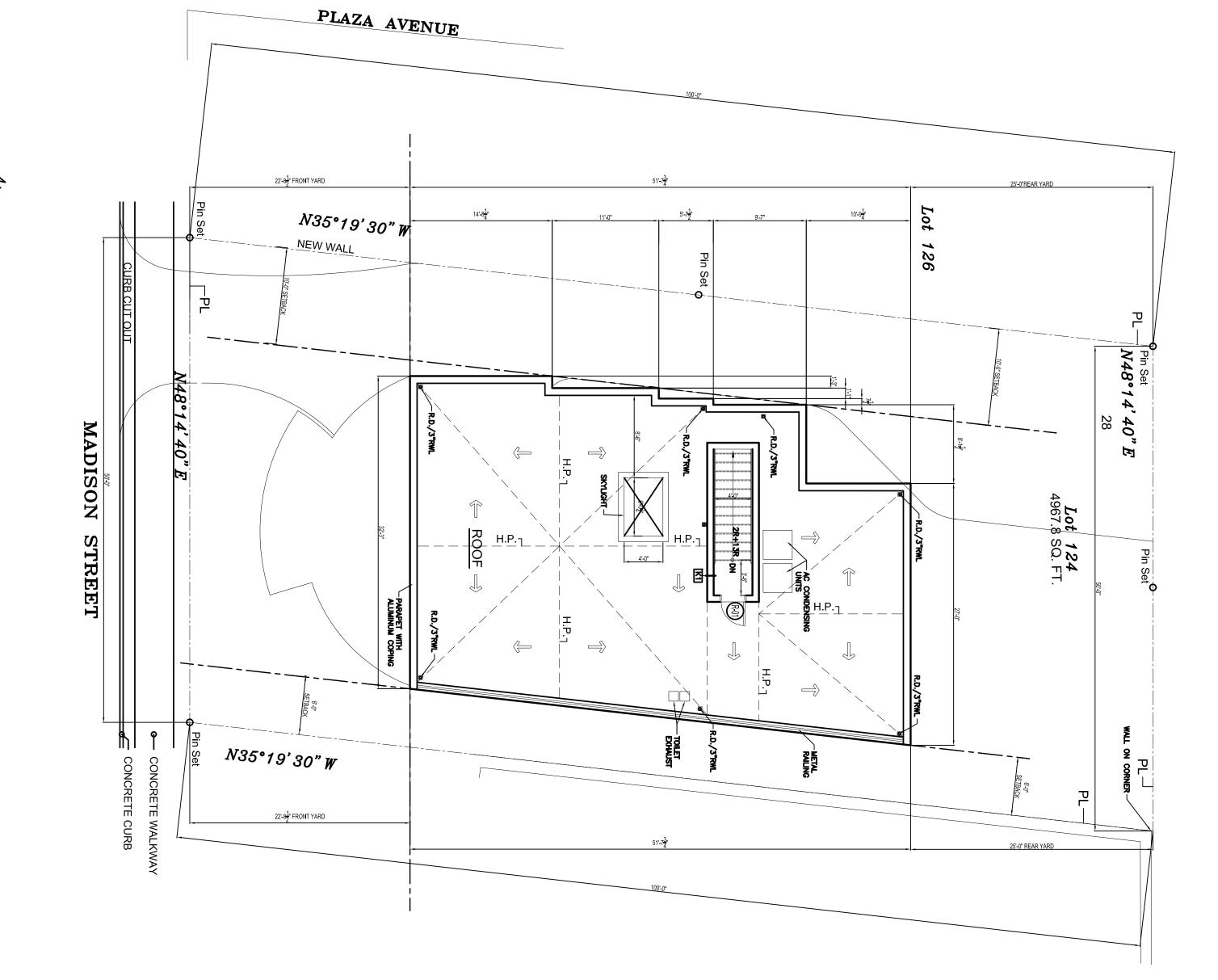
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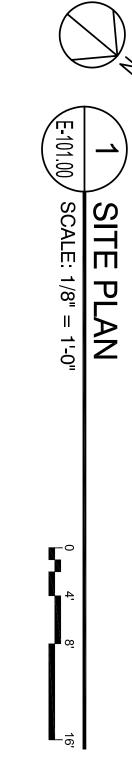
		Ž OTAL 3.0 3.0 2.0 2.0 2.0 2.0 2.0 3.0 2.0 2.0 2.0 3.0 2.0 3.0 2.0 3.0	ED. P-J. 5.
243 MADISON STREET MAMARONECK, NY 10543 PRANUT MATER RISER DIAGRAM VATER RISER RISER RISER DIAGRAM VATER RISER RISER RISER DIAGRAM VATER RISER RISER RISER RISER RISER DIAGRAM VATER RISER R	no de la constanta de la const		A Governors Court. Great Neck. N.Y. 1046 Of FICE for A RCHITECTURE, A Governors Court. Great Neck. N.Y. 1046 0ff. (516) 773-3862 0ff. (718) 789-547 Fax (516) 773-3862 0ff. (718) 789-547 Fax (516) 773-3872 0ff. (718) 789-547 MWW.OAPDARCHITECTURE.COM

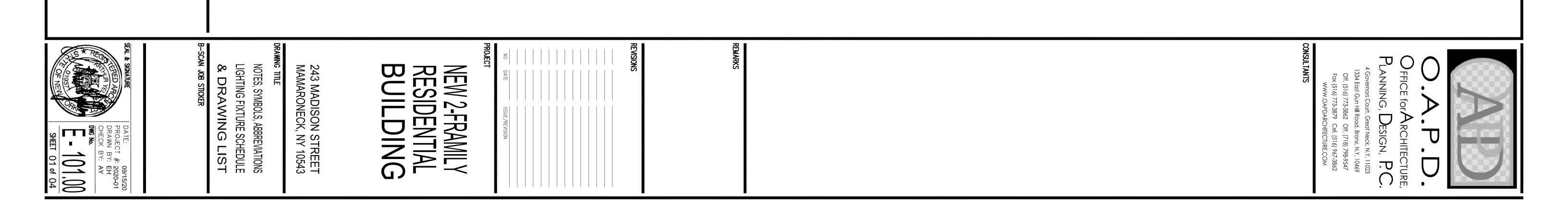


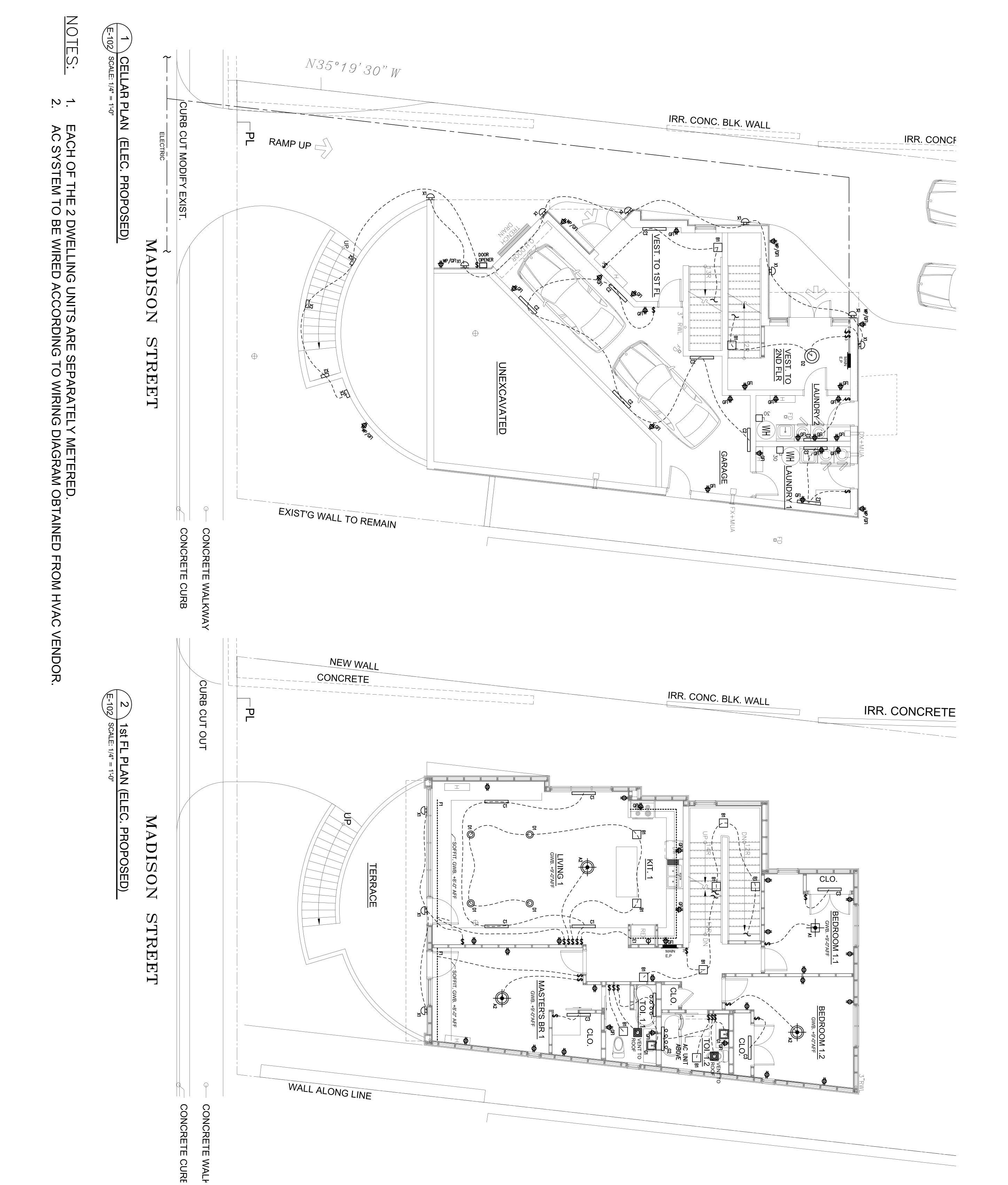


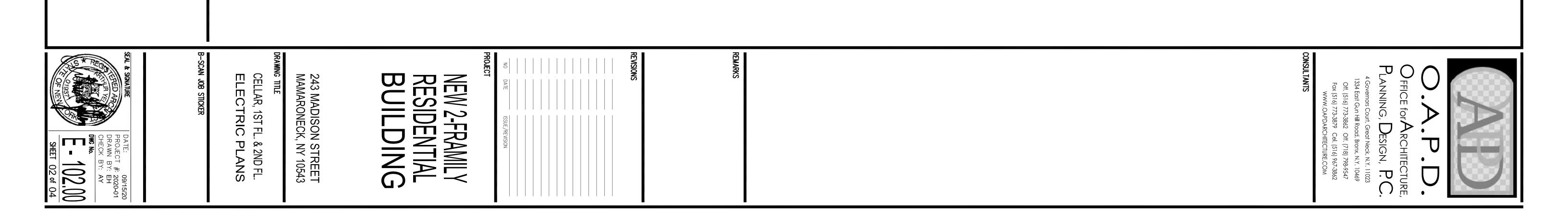
	E SURGE SUPPRESSORS Dressors (TVSS) Schedule In Locations Indicated And As Described Herein. Iker To TVSS Unit Shall Be Kept To A Minimum Length. Contact Data Support Associates, int. Coordinate Application With Lightning ontractor Installing Cables Or Conductors Which igs On The Site. echnology # SEL 250–120/208–3GY–L2. Unit)–Year Warranty, LED Indicators, Form C Shall Be Fed From 3 Pole, Test Switch, Phase n And Dual Disturbance Alarm With 100 Amp I Be Fed Via 4 # 2 AWG Copper Conductors And	 Freessed, Pendent, Surface And Wall Mounted Lighting Fixtures Are Provided For Normal Power General Illumination. Keep Indirect Fixtures As Long As Possible To Minimize The Number Of Joints. Refer To Plan For Lengths Of Indirect Fixtures. All Fluorescent Fixtures Shall Be Equipped With Energy Saving Lamps And Electronic Ballasts, And Ballasts Shall Have A Total Harmonic Distortion Of Less Than 10%. All Ballasts Based On Osram/Sylvania Catalog Numbers, With Philips And General Electric As Approved Equals. Emergency Fixtures Shall Be Wired To A Emergency Lighting Panel located convenient to Authorized Persons. Only Authorized Persons Shall Have Control of Emergency Lighting System Consists Of Egress Lighting Fixtures, And Exit Signs At Exits, Wired To Emergency Panels Are Provided. All Finishes Must Be Approved By The Architect. Provide All Necessary Mounting Hardware. All Lamps Shall Have Quad Pins Suitable For Dimmers. All Finishes Shall Have Quad Pins Suitable For Dimmers. 	In Outlets, Allow For Overhead P In Fireproofing And Plastering, W And The Like, And Correct Any I Without Expense To Owner. . Exact Location Of Lighting Fixtur Reflected Ceiling Plan, Or As Dir Prior To Installation Of Lighting I Exit Lights, Etc., And He Shall A Components In Relation To Diffus . All Disconnect Switches And Circ Recessed In Wall Or Mounted In Architect And/Or Engineer. . Provide Sleeves In Floor Slab Or Listed Fire Retardant Approved (. All Receptacles Within 6 Ft. Of , Metal Conduits.	 Payment, Furnish To The Engineer/Owner, One (1) Set Of Sepia Mylars, Showing All Work Under This Contract As Actually Installed, Whether Sho On The Original Plans, Or Not, And Noting The Exact Location Of All Controls And Specialties. Submit One (1) Set Of Black And White Prints For Approval, Prior To Furnishing Final Record Sepia Mylars. Secure All Supports To Building Structure As Noted In The Specifications Support Horizontal Runs Of Metallic Conduits, Not More Than 10 Feet Apart. Support Panels, Junction And Pull Boxes Independently To Building Struc With No Weight Bearing On Conduits. Provide Separate Raceways For Conductors Of Normal And Emergency Ci Connect Conduit To Motor Conduit Terminal Boxes With Sealtite Flexible Minimum 18 Inches In Length And 50% Slack. Do Not Terminate In Or I Raceways To Motor Foundation. Leave Wire Sufficiently Long To Permit Making Final Connections. All Err Conduits Shall Be Provided With #12 AWG Steel Drag Wires. Junction And Pull Boxes: Generally, Do Not Locate Exposed In Finished Struc Concellment. Provide Pull Boxes As Necessary To Facilitate Pulling Of W Coordinate Locations With Other Trades. Covers of Junction And Pull Box Pull Boxes Severy 100 F J. All Outlet Boxes Receiving 1–1/4" Conduit Shall Be A Minimum Of 2–1/4. Verify Locations Of Interior Details And Finish. In Centering Outlets And Locatin. 	Power Distribution System led With New Incoming Service From Con Edison At 4 Wire. Panel Serves Normal. Emergency Lighting Panel Lights. ngs Are Diagrammatic And Show General Layout Of And Conduit Runs. The Contractor Shall Make Detailed Of The Electrical Conduit And Equipment And With Other Trades. Additional Offsets And Transitions Required To Install The Ductwork. All Dimensions Shown re For The Convenience Of The Contractor And Shall Be ted In The Field Before Duct And Equipment Installation. ontractor As To The Exact Size And Location Of Any ture. Failure To Coordinate Work With Other Trades Shall for Additional Compensation. tallation And Supporting Of All Conduit, Lighting, And Shall Be In Accordance With The Construction Standards The New York State Building And Electrical Codes. At The Completion Of The Entire Job, And Before Final
CENABBREVATIONSIdentifierDescriptionAFFAbove Finished FloorHPHorsepowerAFGAbove Finished GradeMCMechanical ContractorBFGBelow Finished GradeMFRManufacturerBFGBelow Finished GradeMHMounting HeightCLGCeilingMHMounting HeightCLGCompanyMHMounting HeightCOCompanyNYCNew York CityCONTRContractorNTSNot To ScaleDNDownPCPlumbing ContractorECElectric ContractorPSIPounds Per Square InchEMEmergencyRTRain TightEQUIPEquipmentSDDDuct Smoke DetectorFDFire DepartmentSQ. FT.Square FeetHCHung CeilingTYPTypical	GENERAL SYMBOL LISTIdentifierDescriptionImage: Image: I		Fire Alarm Control Panel Fire Alarm Pull Station Fire Alarm Pull Station Fire Alarm Combination Horn/Strobe Smoke / CO Detector ol List Notes: nbol List Shown Is For General Reference t Imply Its Use On This Project. Refer Sheet E-4 For Branch Circuit Designation Sheet E-4 For Panelboard Nameplate R Sheet E-3 For Smoke Detector Notes a	 ar - Mounting Type) (3) Main Distribution Panel (MDP) Electrical Meter \$₃ AC General Use Snap Switch, 15A, 120–277 VAC – 42" AFF Dimmer Switch, 15A, 120–277 VAC – 42" AFF Closet Snap Switch – 42" AFF Light Switch ("a" Designates Lighting Fixtures Controlled) – 42" AFF \$₄ Four-Way Switch, 15A, 120–277 VAC – 42" AFF \$₅ Three-Way Switch, 15A, 120–277 VAC – 42" AFF Exit Light Fixture & Emergency Battery Light Fixture Combination, Wth (2) Heads Linfused Safety Switch (Amp. Rating) Fused Safety Switch (Switch Rating/Fuse Rating) WP: WATER PROOF Combination Motor Starter And Disconnect Switch Exhaust Fan (Kitchen/Bathroom), 80 CFM MIN. 	Ldentifier Description Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Concealed Via Floors, Walls, Ceiling, Underground (2) Image: Flexible Conduit Turned Up Image: Conduit Turned Down Image: Conduit Interrupting Receptacle, 15A, 120V – 18" AFF Image: Ground Fault Interrupting Receptacle, 15A, 120V Image: Solated Ground Receptacle, 15A, 120V – 18" AFF Image: Duplex Receptacle Mounted High Or Above Counter, 15A, 120V – 42" AFF Image: Duplex Receptacle Mounted High Or Above Counter, 15A, 120V – 42" AFF
	E-101 NOTES, SYMBOLS, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE & DRAWING LIST E-102 CELLAR AND FIRST FLOOR ELECTRIC PLANS E-103 SECOND FLOOR AND ROOF ELECTRIC PLANS E-104 ELECTRICAL LIGHTING FIXTURE SCHEDULE AND ELECTRICAL RISER DIAGRAM AND ELECTRICAL NOTES	Current TransformerNNeutral (GrEmergency LightingNECNational Elactrical Metallic TubingNECElectrical Metallic TubingNLNLElectric Water CoolerPNLPNLFire Alarm Control PanelRECEPTReceptacleGroundGround Fault Circuit InterrupterRGSRigid GalvaGeneratorSTPShielded TwIsolated GroundSEBService EncIntermediate Metal ConduitTELTelephoneJunction BoxTBBTelephoneLocked Rotor AmpsUTPUnshieldedMain Circuit BreakerXFMRTransformeMotor Control CenterXFMRTransforme	NOTE NOT LESS THAN 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICACY LAMPS OR NOT LESS THAN 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICACY LAMPS. THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICACY LAMPS. Identifier Description AIC Interrupting Capacity MDP Main Distribution Panel ATS Automatic Transfer Switch MDS Main Distribution Switchb C Conduit MLO Main Lugs Only CB Circuit Breaker NC Nurse Call System	 "D2' - PENDANT - UPPER LOBBY (LARGE) 12.5 WATT, 120V "E1" - UNDERCOUNTER LIGHTING - LED - KITCHEN 11.51 WATT, 120V "G1" - MIRROR LIGHT BATHROOM - LED 120 WATT, 120V "G2" - BATH LIGHT - SURFACE MOUNTED WATERPROF 22 WATT, 120V EXTERIOR LIGHT SURFACE / WALL MOUNTED ON BUILDING 12.5 WATT, 120V "X1" - SURFACE / WALL MOUNTED ON BUILDING 12.5 WATT, 120V "X2" - STEPS LIGHTS 12 WATT, 120V 	Interior light schedule A1" - Celling Surface Mounted Decorative Led (Bedrooms) - 24" X 24" *A2" - Celling Surface Mounted Decorative Led (Living Rooms) *B1" - Celling Surface Mounted Decorative Led (Living Rooms) *B1" - Celling Surface Mounted Decorative Led (Living Rooms) *C1" - Lineal Walt, 120V *C2" - Lineal Walt, 120V *C3" - Lineal Walt, Surface Mounted - Decorative Led (Living Rooms) *C3" - Lineal Walt, Surface Mounted - UTILITY *C3" - Lineal Walt, Surface Mounted - CLOSETS *D1" - PENDANT - LIVING ROOM (SMALL)











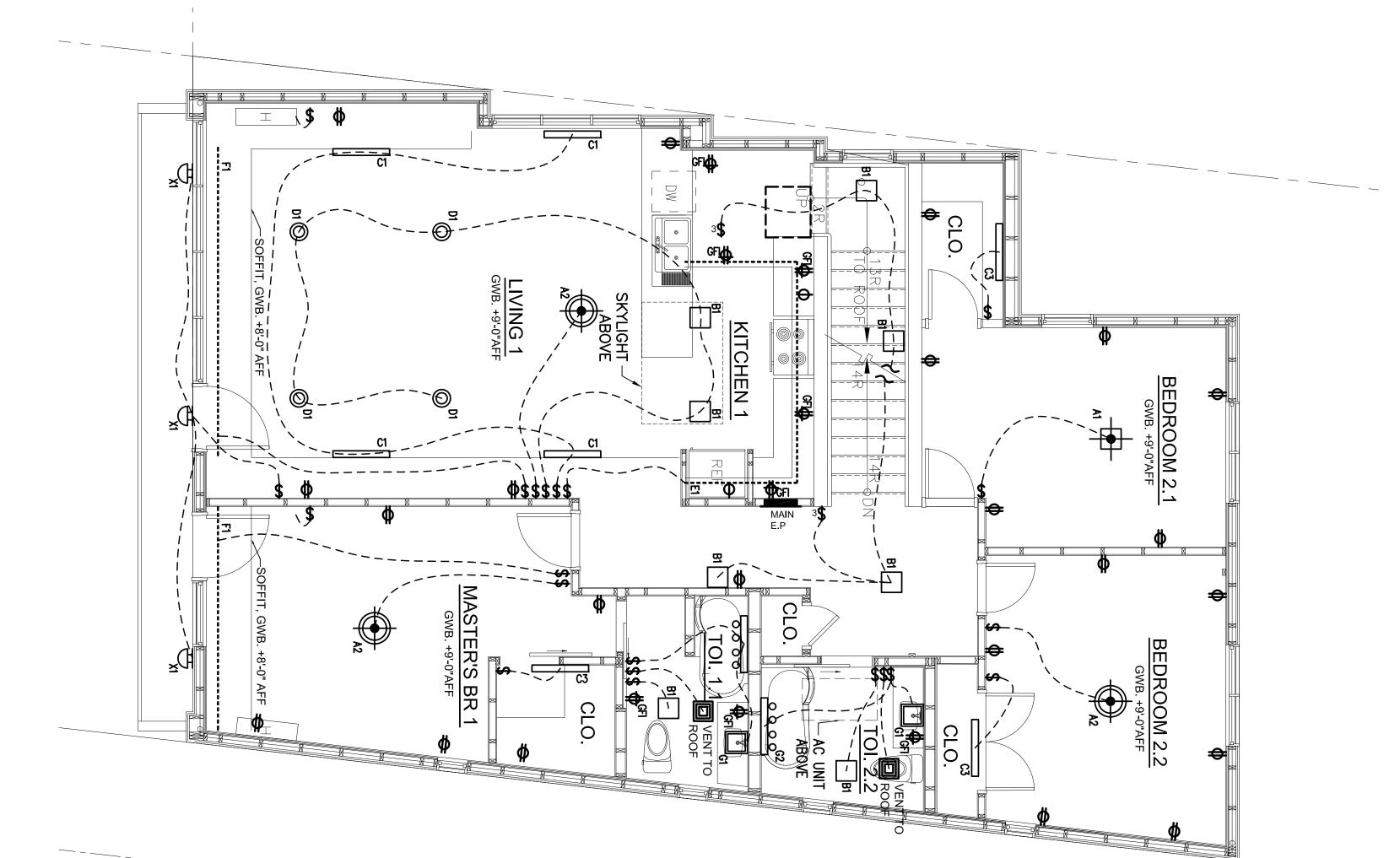
			COOK GEMINI	100C17DEC, 400 CFM @ 0.5" SP, 1/4 HP	100C17DEC, 400 (BACKDRAFT	120/1 PHASE	ROOF	KX
		ACEB80C2B	COOK GEMINI	500 CFM @ 0.375" SP, 1/6 HP	500 CFM @ 0	BACKDRAFT	120/1 PHASE	ROOF	DX
		ACED -EC	COOK GEMINI	90C17DEC, 200 CFM @ 0.5" SP, 1/4 HP	90C17DEC, 200 C	BACKDRAFT	120/1 PHASE	ROOF	ΥX
REMARKS		MODEL	MANUFACTURER	FAN SIZE	FA	DAMPER	VOLTS/PHASE	LOCATION	UNIT
		_	MS AND DRYERS	EXHAUST FANS FOR KITCHENS, BATHROOMS AND DRYERS	EXHAUST FANS FO	ROOFE			
		100 SERIES, GC	COOK GEMINI	164, 100 CFM @ 0.25" SP	RC-75	100 SERIES	120/1 PHASE	CEILING	KX
		100 SERIES, GC	COOK GEMINI	144, 50 CFM @ 0.25" SP	RC-75	100 SERIES	120/1 PHASE	CEILING	DX
		100 SERIES, GC	COOK GEMINI	144, 50 CFM @ 0.25" SP	RC-75	100 SERIES	120/1 PHASE	CEILING	TX
REMARKS		MODEL	MANUFACTURER	FAN SIZE	VIBRATION	DAMPER	VOLTS/PHASE	LOCATION	UNIT
			BATHROOMS AND DRYERS		INDOOR EXHAUST FANS FOR KITCHENS,	INDOOR			
86 LBS / 55-1/8" X 28-7/8" X 9-7/8"	dBA 42 / 40 / 37	PEAD-A36AA7	MITSUBISHI	2.41 KW	3.0 KW	36,000 / 40,000	208-230/60/1PH	CLG MOUNTED	AH-1
WEIGHT / DIMENSIONS	SOUND PRESSURE	MODEL	MANUFACTURER	HEATING	COOLING	COOLING / HEATING BTU	VOLTS / HZ / PHASE	LOCATION	UNIT
				1ST FLOOR					
86 LBS / 55-1/8" X 28-7/8" X 9-7/8"	dBA 42 / 40 / 37	PEAD-A36AA7	MITSUBISHI	2.41 KW	3.0 KW	36,000 / 40,000	208-230/60/1PH	CLG MOUNTED	AH-2
WEIGHT / DIMENSIONS	SOUND PRESSURE	MODEL	MANUFACTURER	HEATING	COOLING	COOLING / HEATING BTU	VOLTS / HZ / PHASE	LOCATION	UNIT
		_		2ND FLOOR					
214 LBS / 41-5/16" X 14-33/16" X 52-11/16"	dBA 52 / 53	PUZ-A36NKA7(-BS)	MITSUBISHI	2.41 KW	3.0 KW	36,000 / 40,000	208-230/60/1PH	ROOF	HP-1
214 LBS / 41-5/16" X 14-33/16" X 52-11/16"	dBA 52 / 53	PUZ-A36NKA7(-BS)	MITSUBISHI	2.41 KW	3.0 KW	36,000 / 40,000	208-230/60/1PH	ROOF	HP-2
WEIGHT / DIMENSIONS	SOUND PRESSURE	MODEL	MANUFACTURER	HEATING	COOLING	COOLING / HEATING BTU	VOLTS / HZ / PHASE	LOCATION	UNIT
				ROOF					

	, , , , , , , , , , , , , , , , , , ,		1		, , , , , , , , , , , , , , , , , , ,		1	
	AH-2	UNIT		HP-1	HP-2	UNIT		
	CLG MOUNTED	LOCATION		ROOF	ROOF	LOCATION		
	208-230/60/1PH	VOLTS / HZ / PHASE		208-230/60/1PH	208-230/60/1PH	VOLTS / HZ / PHASE		
	36,000 / 40,000	COOLING / HEATING BTU		36,000 / 40,000	36,000 / 40,000	COOLING / HEATING BTU		
	3.0 KW	COOLING		3.0 KW	3.0 KW	COOLING		MEC
1ST FLOOR	2.41 KW	HEATING	2ND FLOOR	2.41 KW	2.41 KW	HEATING	ROOF	MECHANICAL SCHEDULE
	MITSUBISHI	MANUFACTURER		MITSUBISHI	MITSUBISHI	MANUFACTURER		
	PEAD-A36AA7	MODEL		PUZ-A36NKA7(-BS)	PUZ-A36NKA7(-BS)	MODEL		
	dBA	SOUN		d	٩	SOUN	-	

\sim \rightarrow EACH OF THE 2 DWELLING UNITS ARE SEPARATELY METERED. AC SYSTEM TO BE WIRED ACCORDING TO WIRING DIAGRAM OBTAINED

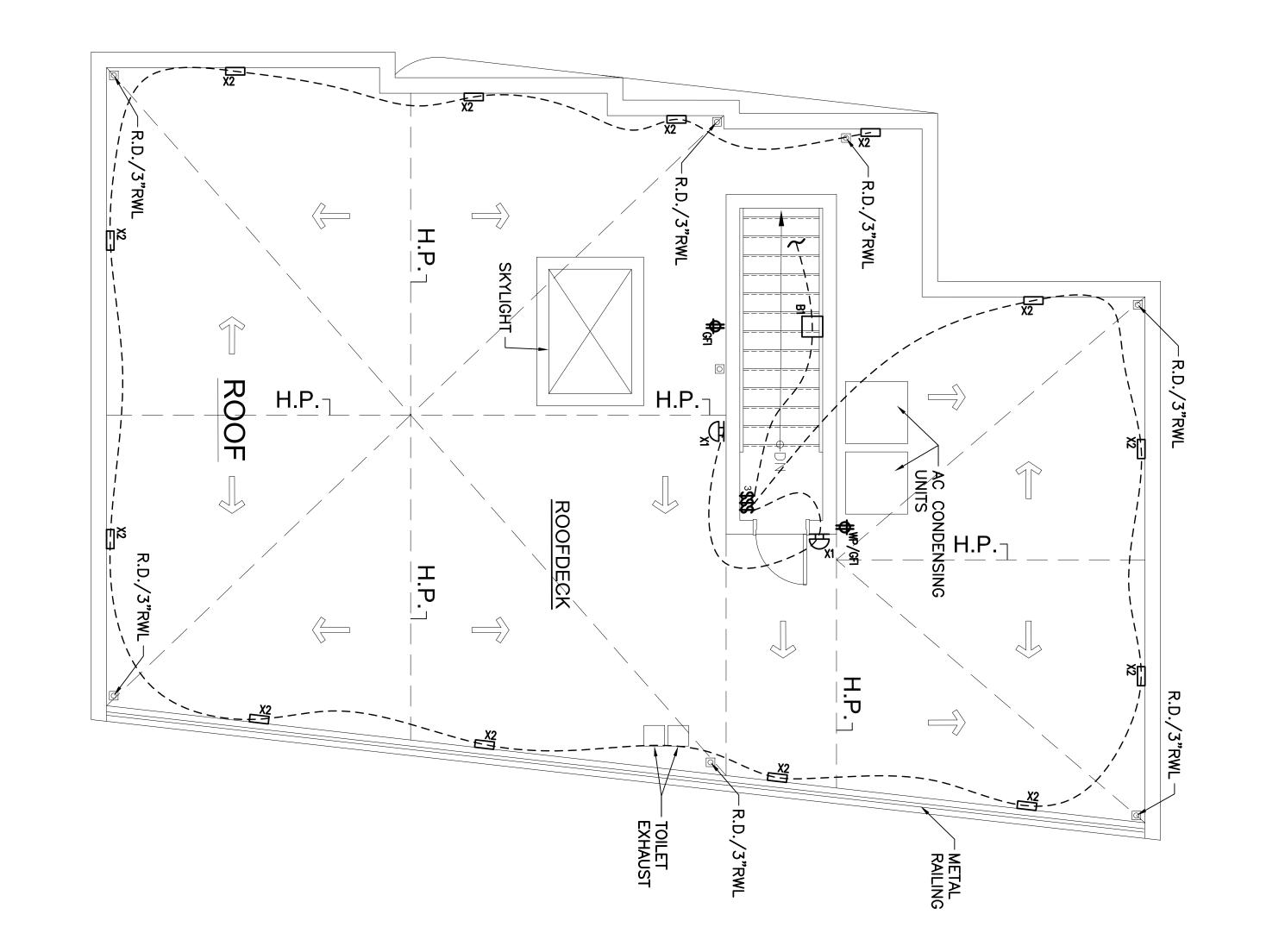
NOTES:



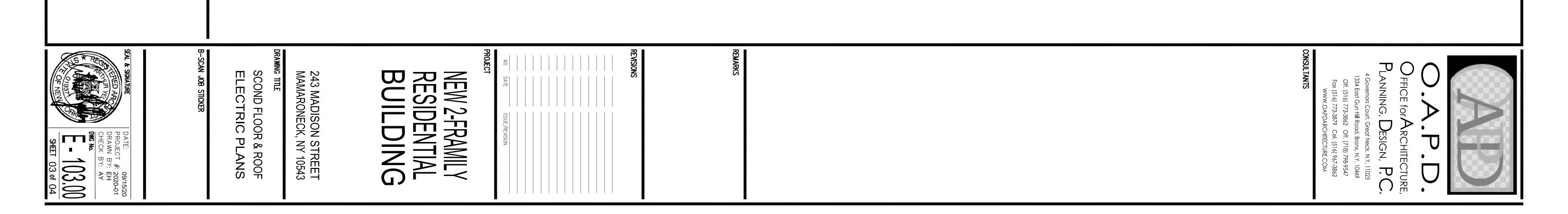


FROM HVAC VENDOR.





PROPOSED)



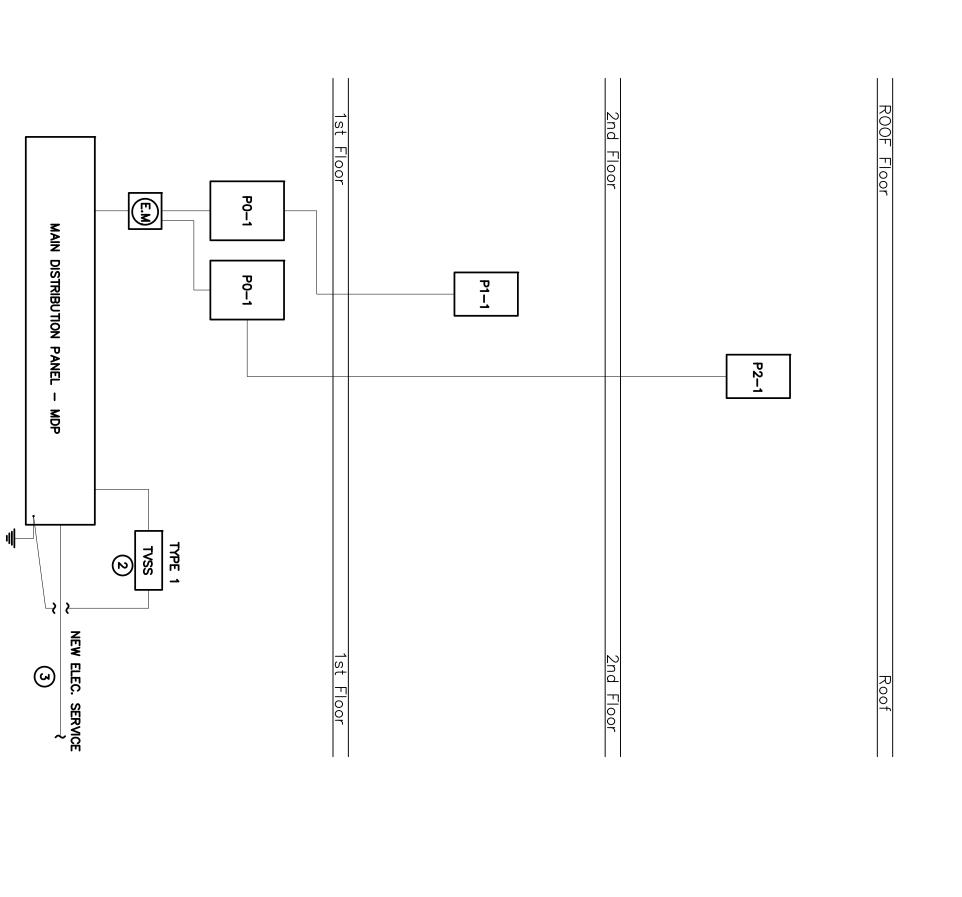
LICHTI	LIGHTING SCHEDULE								
LABEL	DESCRIPTION	LOCATION	BALLAST/TYPE	BULBS/FIXTURE	WATTS/BULB	BULB WATTS TOTAL	FIXTURE QUANTITY	TOTAL WATTS	MANUFACTURER
A1	CEILING, CFL 3506Lmn 120V INTEGRATED LED WHITE ACRYLIC 24"X24"	BEDROOM	LED BUILT-IN	4	45	45	N	06	YLIGHTING
A2	CEILING, CFL 1692Lmn 120V INTEGRATED LED WHITE ACRYLIC 18"Ø	BEDROOM/LIVING ROOMS	LED BUILT-IN	_	33	33	6	198	YLIGHTING
B1	CEILING, CFL 965Lmn 120V INTEGRATED LED WHITE ACRYLIC 8"X8"	HALLWAY/BATHROOM/ATTIC	LED BUILT-IN	-	16.5	16.5	21	346.5	MODERN FORMS
C1	WALL , FLOUR CFL 3472Lmn 120V WHITE ACRYLIC 35-3/8" LONG	LIVING ROOM	INTEGRATED LED	-	40	40	8	320	CRAFTMADE
C2	WALL , FLOUR CFL 3120Lmn 120V BRONZE ACRYLIC 3-5/8"W 5-1/2"H 8-3/4"D	CELLAR	C-LITE LED	-	24	24	18	432	E-CONOLIGHT
C3	WALL , FLOUR CFL 3472Lmn 120V WHITE ACRYLIC 35-3/8" LONG	CLOSET	INTEGRATED LED	1	40	40	6	240	CRAFTMADE
D1	CEILING PENDANT, CFL 375Lmn 120V GLASS SHADE 16-1/8"Ø	LIVING ROOM	INTEGRATED LED	۲	12.5	12.5	8	100	MODERN FORMS
D2	CEILING PENDANT, CFL 375Lmn 120V GLASS SHADE 16-1/8"Ø	STAIR / VESTIBULE	INTEGRATED LED	1	12.5	12.5	8	100	MODERN FORMS
E1	UNDERCOUNTER, CFL 86.1Lmn 120V WHITE ACRYLIC 24"	KITCHEN	LED LIGHT BAR	۲	11.51	11.51	24	276.24	GE
F1	LED STRIP, CFL 442Lmn 120V PER FOOT	CEILING	LED STRIP	۲	4.4	4.4	52	228.8	ASPECT LED
G1	LIGHTED MIRROR, FLOUR CFL 10800Lmn 120V 36"X36"	BATHROOM	SILHOUETTE LED	۲	120	120	4	480	YLIGHTING
G2	WALL LIGHT, FLOUR CFL 1600Lmn 120V GLASS SHADE 24"	BATHROOM	LED BUILT-IN	۲	22	22	4	88	POSSINI EURO EXETER
X1	WALL , FLUOR CFL 1500Lmn 120V OUTDOOR WALL LIGHT14-1/4"X5"X6-1/2"	EXTERIOR WALL / ROOF	LED BULB, A19	۲	12.5	12.5	17	212.5	LAMPS PLUS
X2	WALL , FLUOR CFL 270Lmn 120V BLACK ALUMINUM 7"X7"	EXTERIOR WALL / ROOF	INTEGRATED LED	L	12	12	17	204	MODERN FORMS

GE	GENERAL NOTES	KEY NOTES (Symbols (1), 2), Etc.)
. `	Provide Additional Gutter Space For Tapping The Panels To The Riser.	1. Provide Dedicated Telephone Line For Con E
2	Refer To Panel Schedules For Feeder Sizes.	metering at Electrical Room as Required by
ч	All Fauinment Short Circuit Rating Shall Be Fully Rated	2. See IVSS NOTES ON SNEET E-1.
ç		3. 12#500 MCM, 3#3/0, 3 G-4" Conduits.
.4	All Equipment Shall Have Copper Bus Bars. No Aluminum.	

GENERAL NOTES FOR INSTALLATION FO SMOKE DETECTORS

- . ` P0/
- CEIL

- ۲. ۶. ۶. ۶. ۶. ۲. EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE SMOKE DETECTOR DEVISE RECEIVING PRIMARY PO SWITCHES IN THE CIRCUIT OTHER CURRENT DEVISE PROTECTING THE BRANCH CIRCUIT.
 SMOKE DETECTORS MUST BE EITHER THE IONIZATION CHAMBER TYPE OR THE PHOTO-ELECTRIC DETECTORS TYPE.
 ALL SMOKE DETECTORS MUST BE INSTALLED WITHIN 15'-O" OF THE ENTRANCE OF ANY SLEEPING ROOM, WALL OR CEIL N.F.P.A. #74/1980.
 A CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE DETECTORS MUST BE FILED WITH THE DOB.
 ADA APPROVED-AUDIO & VISUAL UNIT - "BRK ELECT." MODEL 100S (REQUIRED IN ALL MULTIPLE FAMILY DWELLINGS).
 IN ALL OCCUPANCY GROUPS-APPROVED AND OPERATIONAL DEVICES REQUIRED IN MECHANICAL ROOMS, ELECTRICAL SW CLOSETS OVER 75 SQUARE FEET. TIMS
- ALL DEVICES SHALL BE ACCEPTED BY NATIONALLY ACCEPTED INDEPENDENT LABORATORY PERIODIC FOLLOW UP SERVICE TO ENSURE CONTINUED COMPLIANCE. AS MEETING NATIONALLY RECOGNIZED STANDARDS



Edison (Time Or Day 3y Con Edison.



IG MOUNTED AS INDICATED ON PLAN, AS PER

ICH GEAR ROOMS, ELECTRIC AND AS MAINTAINED BY AND TELEP

