



SITE LOCATION:

FT CLARKE, FL ALACHUA COUNTY 29.69 N LAT., 82.27 W LONG. 50 FEET ELEVATION ASHRAE 90.1-2013 CLIMATE ZONE 2A

DESIGN CONDITIONS: 29.6°F WINTER DESIGN DRY BULB (ASHRAE 99.6%)

93.4°F DRY BULB AND 76.4°F MEAN COINCIDENT WET BULB SUMMER DESIGN (ASHRAE 0.4%) CALCULATIONS BASED ON ASHRAE DESIGN CRITERIA AND CALCULATION METHODOLOGY.

NO CAPACITY HAS BEEN INCLUDED IN THIS DESIGN FOR FUTURE ADDITIONS.

MECH/ELEC COORDINATION

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL HVAC EQUIPMENT (VOLTAGE, PHASE, MCA, MOCP, ETC.) WITH THE ELECTRICAL CONTRACTOR AND THE ELECTRICAL PLANS PRIOR TO SUBMITTING OR ORDERING ANY MECHANICAL EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN THE MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND THE ELECTRICAL SERVICE, AS DESIGNED AND PROVIDED, SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR WITH NO ADDITIONS TO THE CONTRACT.

MECHANICAL/ELECTRICAL COORDINATION STATEMENTS REQUIRED BY HVAC GENERAL NOTES [AND SPECIFICATION SECTION 230000 , PARAGRAPH 1.06.E] SHALL BE INCLUDED WITH HVAC EQUIPMENT SUBMITTALS/SHOP DRAWINGS.

Planning · Architecture

Landscape Architecture

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No. Description Date
Revisions

Construction
Documents Progress Set
Lullwater at Ft.
Clarke
Apartments

Ft. Clarke, Florida

A Residential
Development by: Ft.
Clarke Apartments
Residences, LLC

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Sheet Title:

MECHANICAL TITLE SHEET

Date:

September 30, 2022

Sheet Number:

M0.00



HVAC GENERAL NOTES

- 1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2020 FLORIDA MECHANICAL CODE, THE 2020 FLORIDA BUILDING CODE, THE 2020 FLORIDA ENERGY CONSERVATION CODE, STATE AND LOCAL AMENDMENTS, NFPA 90A, , 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- 2. THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH THE 2020 FLORIDA ENERGY CONSERVATION CODE COMPLIANCE PATH. THE OWNER/ARCHITECT/CONTRACTOR SHALL REFER TO THE APPLICABLE PROJECT DOCUMENTATION (SCORECARD/ CHECKLIST/ CODE) PRIOR TO PRESENTING VALUE ENGINEERING ALTERNATIVES OR OWNER/ARCHITECT REQUESTED REVISIONS THAT MAY IMPACT COMPLIANCE WITH THE APPLICABLE GREEN BUILDING PROGRAM OR ENERGY CODE
- 3. THIS PROJECT REQUIRES COMMISSIONING PER THE REQUIREMENTS OF THE CITY, CODE, AND/OR SPECIFIC ENERGY PROGRAM. COMMISSIONING SHALL BE BY APPLICABLE CONTRACTOR AND EITHER THE ENGINEERING FIRM OF RECORD OR A 3RD PARTY COMMISSIONING AGENT. REFER TO THE COMMISSIONING SPECIFICATIONS, PLAN, CHECKLISTS, AND/OR ADDITIONAL DRAWING NOTES FOR ADDITIONAL INFORMATION. FINAL DOCUMENTATION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
- 4. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, SUPPORTS, DEVICES, CONDUIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE MECHANICAL AND ELECTRICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE THE DRAWINGS, BUT REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS, SCALE, ETC., NOTIFY THE ARCHITECT
- 5. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.
- 6. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT
- 7. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS; PARKING GARAGE CO/NO2 MONITORING AND CONTROL SYSTEM LAYOUT PREPARED BY THE SYSTEM MANUFACTURER INCLUDING SENSOR LOCATIONS, SEQUENCE OF OPERATION AND PRODUCT DATA; MECHANICAL VENTILATION CONTROLLERS, WALL CAPS, REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER.
- a. WHERE SPLIT SYSTEMS ARE USED IN A "LONG LINE APPLICATION," SUBMIT MANUFACTURER'S REFRIGERANT LINE SET ROUTING DRAWINGS AND ENGINEERED CALCULATIONS SUPPORTING INSTALLED LINE LENGTHS AND RECOMMENDED SUCTION AND LIQUID LINE SIZES (DEVIATIONS IN THE INSTALLED LENGTHS AND SIZES SHALL BE RECORDED ON THE AS-BUILT DRAWINGS AND COORDINATED WITH THE MANUFACTURER TO RECONFIRM THAT LONG LINE GUIDELINES ARE BEING MET). IDENTIFY AND PROVIDE CUT SHEETS OF ANY AND ALL ACCESSORIES REQUIRED TO MAKE THE SYSTEM COMPLETE, FUNCTIONAL AND RELIABLE.
- b. FAILURE TO SUBMIT CERTIFIED REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL AND DOES NOT RELIEVE THE CONTRACTOR OF COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS.
- c. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE. d. ANY SPLIT SYSTEM WITH 75 FEET OF SEPARATION BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT REQUIRES THAT THE CONTRACTOR
- OBTAIN A WARRANTY APPROVAL LETTER FROM THE EQUIPMENT MANUFACTURER CERTIFYING THE LONG LINE LENGTH DISTANCES SHOWN ON THE SUBMITTED SHOP DRAWINGS ARE ACCEPTABLE. e. HVAC EQUIPMENT SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO, DATA SHEETS FOR ALL SYSTEM COMPONENTS, FAN
- SELECTIONS WITH PERFORMANCE CURVES AT SITE CONDITIONS, ELECTRICAL CHARACTERISTICS (COORDINATED WITH ELECTRICAL SUBCONTRACTOR), WIRING DIAGRAMS, INSTALLATION, OPERATION AND MAINTENANCE MANUALS, AHRI RATING CERTIFICATES FOR ACTUAL EQUIPMENT TO BE INSTALLED. FAILURE TO SUBMIT AHRI CERTIFICATES IS CAUSE FOR REJECTION OF THE SUBMITTAL.
- THE DRAWINGS AND SPECIFICATION SECTION PERTAINING TO THE ITEM.

SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY IN ONE PACKAGE WITH EACH ITEM CLEARLY NOTED BY THE TAG USED ON

- 8. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- 9. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- 10. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 4-YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR TOTAL WARRANTY.
- 11. FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING UNITS, SEE ARCHITECTURAL DRAWINGS.
- 12. INSTALL ROOF MOUNTED OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON SUPPORTS AS INDICATED ON THE DETAIL SHEETS. MOUNT ALL EQUIPMENT ON 3/8" THICK NEOPRENE PADS (MINIMUM OF 4 PADS PER UNIT). ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED PER DETAILS AND AS RECOMMENDED BY THE MANUFACTURER
- 13. SPLIT SYSTEM OUTDOOR UNIT EQUIPMENT HAS BEEN SHOWN ON THE PLANS INDICATING MATCHED SYSTEMS OF THE INDOOR UNIT WITH ITS ASSOCIATED OUTDOOR UNIT. WHILE THE LOCATION OF THE OUTDOOR UNITS ARE APPROXIMATE. THE IMPORTANCE OF UNIT LOCATIONS IN AND OBSERVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR LONG LINE APPLICATIONS. REFRIGERANT LINE SETS SHALL BE INSTALLED TO REDUCE THE SYSTEM TOTAL EQUIVALENT LENGTH AND MINIMIZE SYSTEM CAPACITY LOSSES DUE TO ELBOWS, FITTINGS, VALVES, ETC. THAT COMPRISE THE ENTIRE REFRIGERANT PIPING SYSTEM. AFTER RECEIPT OF THE APPROVED SUBMITTALS, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE REFRIGERANT PIPING SCHEMATICS CERTIFIED BY THE EQUIPMENT MANUFACTURER AND SUBMITTING THE REFRIGERANT PIPING DRAWINGS AS OUTLINED IN THE SHOP DRAWING NOTE ABOVE.
- 14. PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT
- 15. MOUNT TOP OF THERMOSTATS AT 46" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH ALL TRADES. COORDINATE FINAL LOCATIONS WITH THE GENERAL CONTRACTOR, INTERIOR DESIGNER AND THE OWNER PRIOR TO INSTALLATION, LOCATE ADJACENT TO LIGHT SWITCHES WHERE POSSIBLE, DO NOT LOCATE THERMOSTATS AT THE CENTER OR NEAR CENTER OF A WALL. THERMOSTATS SHALL BE MOUNTED NO CLOSER THAN 8" FROM THE CORNER OR END OF A WALL OR DOOR. ALL THERMOSTATS SHALL BE ADA COMPLIANT.
- 16. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS. WORK IN HAZARDOUS AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- 17. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- 18. CAREFULLY COORDINATE ALL PENETRATIONS THROUGH EXTERIOR WALLS WITH ARCHITECTURAL DRAWINGS AND FINISHES. THE PENETRATIONS SHALL NOT BE LOCATED WHERE THEY WILL CONFLICT WITH ARCHITECTURAL FEATURES, TRANSITIONS IN MATERIALS, OR COLOR CHANGES IN MATERIALS. HORIZONTALLY ALIGN PENETRATIONS WHEREVER POSSIBLE UNLESS NOTED OTHERWISE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY WORK BEING DONE.
- 19. CAREFULLY COORDINATE ALL PENETRATIONS THROUGH THE ROOF WITH ARCHITECTURAL DRAWINGS. THE PENETRATIONS SHALL NOT BE LOCATED WHERE THEY WILL CONFLICT WITH ARCHITECTURAL FEATURES, EXPANSION JOINTS OR STRUCTURE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY WORK BEING DONE.
- 20. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- 21. SEAL THE ANNULAR SPACE AROUND ALL DUCT, PIPE, GRILLE, REGISTER, DIFFUSER, ETC. PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DOCUMENTS FOR APPROVED MATERIALS).
- 22. AIR HANDLING UNITS, COOLING COILS, FAN COIL UNITS AND ANY OTHER EQUIPMENT THAT PRODUCES CONDENSATE AND IS LOCATED ABOVE A CEILING OR IN AN ATTIC SHALL BE INSTALLED WITH AN AUXILIARY DRAIN PAN BENEATH ANY COMPONENT THAT MAY PRODUCE CONDENSATE. INSTALL AN OVERELOW SAFETY SWITCH IN THE COOLING COIL OVERELOW DRAIN LINE OR A WATER LEVEL DETECTION DEVICE IN THE PRIMARY DRAIN PAN AND A WATER LEVEL DETECTION DEVICE IN THE AUXILIARY DRAIN PAN. ON DOWNFLOW UNITS OR OTHER EQUIPMENT WHERE AN AUXILIARY DRAIN PAN IS NOT POSSIBLE, INSTALL A WATER LEVEL DETECTION DEVICE IN THE PRIMARY DRAIN PAN OR AN OVERFLOW SAFETY SWITCH IN THE OVERFLOW DRAIN LINE CONNECTION. WATER LEVEL DETECTION DEVICES (CONFORMING TO UL508) SHALL BE WIRED TO SHUT DOWN THE AIR HANDLING UNIT.
- 23. EQUIPMENT INSTALLED IN ATTIC SPACES: INSTALL A MINIMUM 4' X 4' X 3/4" THICK LEVEL PLYWOOD SERVICE PLATFORM AT THE SERVICE SIDE OF ALL AIR HANDLING UNITS, FURNACES, FAN COIL UNITS, FANS, ETC. A MINIMUM 24" WIDE X 3/4" THICK LEVEL PLYWOOD WALKWAY SHALL ALSO BE INSTALLED FROM THE SERVICE PLATFORM TO THE ATTIC ACCESS OPENING.
- 24. THE GENERAL CONTRACTOR SHALL COORDINATE SERVICE ACCESS PATHS FOR ROOF AND ATTIC MOUNTED EQUIPMENT REQUIRING ROUTINE MAINTENANCE, PROVIDE CODE COMPLIANT GALVANIZED STEEL CROSSING STRUCTURE (E.G. STAIRS WITH HANDRAILS, LADDERS, ETC.) FOR ANY OBSTRUCTION (DUCTWORK, PIPING, ETC.) THAT EXCEEDS 1'-6" IN HEIGHT X 1'-6" IN WIDTH. ATTIC CROSSINGS MAY BE CONSTRUCTED OF WOOD IF ALLOWED BY LOCAL CODE. DETAILS OF SUCH CROSSINGS SHALL BE INCLUDED WITH PIPING AND DUCTWORK LAYOUT AND COORDINATION DRAWINGS. ALL DUCTWORK, PIPING AND EQUIPMENT INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
- a. INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE NOT INDICATED. b. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED.
- c. INSTALL HVAC EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS. EXTEND GREASE FITTINGS TO ACCESSIBLE LOCATIONS
- d. INSTALL EQUIPMENT TO ALLOW RIGHT-OF-WAY FOR PIPING TO BE INSTALLED WITH THE REQUIRED SLOPE e. FOR ROOF AND ATTIC MOUNTED EQUIPMENT REQUIRING ROUTINE MAINTENANCE, ALLOW FOR AN UNOBSTRUCTED PATH FROM THE ROOF/ATTIC SERVICE ENTRY POINT TO THE EQUIPMENT. THE PATH AREA SHALL BE A MINIMUM OF 6'-0" HIGH BY 3'-0" WIDE.
- 25. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE THE
- ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY TREMCO, HILTI, 3M, STI, NELSON OR APPROVED EQUAL
- 26. MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCHES FOR ALL HVAC UNITS SHALL BE LOCATED IN A LOCKING COVER, BREAK-GLASS STATION, ETC. ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL OR OTHER LOCATION APPROVED BY LOCAL AUTHORITY HAVING

JURISDICTION AND PER NFPA 90A.

- 27. ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALLS TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS SHALL BE INSTALLED UNDER THE ARCHITECTURAL DIVISION. ACCESS PANELS IN CEILING AND WALLS SHALL BE ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
- 28. ACCESS DOORS SHALL BE INSTALLED AT ALL FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DAMPERS AND WHERE A DIE-CUT LABEL WITH ½" HIGH RED BLOCK LETTERS ON A WHITE BACKGROUND. LABEL SHALL READ "FIRE DAMPER", "COMBINATION FIRE/SMOKE DAMPER". "SMOKE DAMPER" OR "CEILING RADIATION DAMPER".
- 29. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A 2" HIGH SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 1" HIGH WHITE LETTERS REQUIREMENTS OF NEMA MG 1, PART 31, "DEFINITE PURPOSE, INVERTER FED MOTORS" AND SHALL BE COMPATIBLE WITH THE PARTICULAR ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS. ON RESIDENTIAL PROJECTS, THE NAMEPLATE ON THE OUTDOOR EQUIPMENT SHALL INDICATE THE DWELLING UNIT NUMBER IT SERVES AS WELL AS THE EQUIPMENT ID TAG.
- 30. REFER TO ARCHITECTURAL PLANS FOR ALL DROPPED CEILINGS AND SOFFITS. CONTRACTOR SHALL ADVISE ARCHITECT AND ENGINEER OF ANY CONFLICTS BETWEEN ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 31. REFER TO ARCHITECTURAL PLANS FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.
- 32. ALL MATERIALS EXPOSED WITHIN HVAC PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING INDEX OF NOT MORE THAN 50 UNLESS OTHERWISE ALLOWED BY CODE.
- 33. THE FIRE SPRINKLER CONTRACTOR SHALL INSTALL AND LOCATE ALL FIRE SPRINKLER PIPING TO PREVENT PIPING FROM THE POTENTIAL OF FREEZING. THE FIRE SPRINKLER CONTRACTOR IS REQUIRED TO NOTIFY THE ARCHITECT AND COORDINATE WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS IF HEATING IS REQUIRED.
- 34. COORDINATE ALL DUCTWORK WITH WOOD TRUSS SHOP DRAWINGS PRIOR TO INSTALLATION.
- 35. GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WOOD TRUSS SHOP DRAWINGS AND FIELD TRUSSES TO AVOID WOOD MATERIAL (RE: ARCHITECTURAL DRAWINGS FOR APPROVED MATERIALS). TRUSSES CONFLICTING WITH VERTICAL SHAFTS AND INDIVIDUAL AIR HANDLING UNIT DISCHARGE PLENUMS.
- 36. ALL AHUs WITH SUPPLY AIR DUCTED VERTICALLY THROUGH A CEILING RADIATION DAMPER SHALL BE PROVIDED WITH A MEANS TO SHUTDOWN THE AHU UPON DETECTION OF SMOKE IN THE DWELLING UNIT. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- COORDINATE WITH THE ROOF SYSTEM USED SO THAT A MINIMUM OF 8" OF THE CURB IS ABOVE THE FINISHED ROOF FOR FLASHING PURPOSES. THE TOP OF THE CURB SHALL BE LEVEL AND THE SLOPE OF THE ROOF SHALL BE COMPENSATED FOR BY THE CURB. 38. VIBRATION/SOUND ATTENUATING ROOF CURBS (WHERE SCHEDULED OR NOTED) SHALL BE MASON RSC (2½" DEFLECTION) OR EQUAL WITH

. UNLESS NOTED OTHERWISE, THE ROOF CURB SHALL BE FURNISHED WITH THE EQUIPMENT IT SUPPORTS (SUBMIT WITH SHOP DRAWINGS).

- ACOUSTICAL PACKAGE. REFER TO SPECIFICATION SECTION 23 05 48 FOR ADDITIONAL REQUIREMENTS. LOCK DOWN INTERNAL ISOLATORS AS REQUIRED BY ISOLATION MANUFACTURER.
- 39. DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN ELECTRICAL ROOMS, TELECOM ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT FOR DUCTWORK AND PIPING SERVING THAT SPECIFIC ROOM. DUCTWORK AND PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE ARTICLE 110.
- 40. ROOFING: ROOF OPENINGS, PENETRATIONS AND CURBS SHALL BE AT LEAST 12 INCHES APART FROM OTHER ROOF PENETRATIONS, CURBS, WALL, AND DRAIN SUMP TO ALLOW FOR PROPER ROOFING SYSTEM FLASHING AND DETAILING. ROOF OPENINGS SHALL BE A MINIMUM OF 3'-0" FROM A PARAPET WALL AND A MINIMUM OF 5'-0" FROM A FIRE WALL EXTENDING THRU THE ROOF.
- 41. ROOFTOP MOUNTED EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10'-0" FROM THE EDGE OF THE ROOF OR PARAPET.
- 42 ROOFTOP FOLIPMENT WIND RESISTANCE: THE CONTRACTOR SHALL PROVIDE SUPPORT FOR MECHANICAL ROOFTOP FOLIPMENT IN ORDER TO MEET CODE REQUIRED WIND RESISTANCE (RE: 2015 AND 2018 IMC "301.15 WIND RESISTANCE. MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURE DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE."
- 43. HURRICANE AND HIGH WIND REGIONS EQUIPMENT THAT IS LOCATED ON THE ROOF SHALL BE SECURED TO THE ROOF STRUCTURE PER DETAILS ON THE DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND, AS A MINIMUM, FEMA 549, APPENDIX E, ATTACHMENT OF ROOFTOP EQUIPMENT IN HIGH-WIND REGIONS.
- 44. STORAGE AND PROTECTION OF STORED MATERIALS:
- a. DURING CONSTRUCTION, ALL EQUIPMENT SHALL BE PROPERLY PROTECTED AGAINST DAMAGE, DEFACING AND FREEZING WITH
- SHIPPING CARTONS, PLASTIC SHEETING, SHIPPING COVERS, ETC. b. ALL OPEN ENDS OF PIPING AND EQUIPMENT SHALL BE SEALED WITH NIPPLES AND CAPS, PLUGS, AND TEST PLUGS UNTIL FINAL CONNECTION TO SYSTEM IS MADE.
- c. ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE PROTECTED TO PREVENT ENTRANCE OF FOREIGN MATTER AND DEBRIS BY COVERING EXPOSED OPENINGS DURING CONSTRUCTION.
- HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS.
- SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE DEVICE NECK WHEN REQUIRED. ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED. CONSTRUCTION, LATEST EDITION.

TESTING, ADJUSTING AND BALANCING (RESIDENTIAL PROJECTS)

- AFTER CONSTRUCTION. THE ENTIRE HVAC SYSTEM SHALL BE CLEANED, TESTED AND ADJUSTED TO SATISFY THE EQUIPMENT SCHEDULES AND AIR QUANTITIES SHOWN ON THE DRAWINGS. EXCEPT FOR OAFS (RE: NOTE 6 BELOW), INDIVIDUAL AIR DEVICES IN DWELLING LIVING UNITS DO NOT REQUIRE AN AIR TEST AND BALANCE BE PERFORMED.
- ALL AMENITY AREAS SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO SATISFY THE EQUIPMENT SCHEDULES AND AIR QUANTITIES SHOWN ON THE DRAWINGS. REGISTERS AND/OR DIFFUSERS SERVED FROM ROOFTOP UNITS AND DEDICATED OUTSIDE AIR SYSTEMS SHALL BE INDIVIDUALLY TESTED AND BALANCED AND AIR QUANTITIES RECORDED IN THE TAB REPORT.
- 3. ALL DWELLING LIVING UNIT (AND COMMON AREA) SYSTEMS SHALL BE AIR BALANCED (AND TESTED TO MEET ALL ADDITIONAL SPECIFIC AHJ

 16. INSTALL FIRE, SMOKE, COMBINATION FIRE/SMOKE, AND CEILING RADIATION DAMPERS IN ACCORDANCE WITH MANUFACTURER'S UL REQUIREMENTS) PER (CITY, CODE, AND/OR SPECIFIC ENERGY PROGRAM) REQUIREMENTS.
- 4. DWELLING UNIT OUTSIDE AIR VENTILATION FANS (OAF) SHALL HAVE THEIR FAN SPEED ADJUSTED TO PROVIDE THE OA CFM SCHEDULED. THE CONTROLLER SHALL BE PROGRAMMED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE SEQUENCE OF OPERATION.
- 4. COMMON AREAS VENTILATION AIR DISTRIBUTION SYSTEMS (OUTDOOR AIR AND EXHAUST AIR) SHALL BE BALANCED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS. DWELLING UNITS - OUTDOOR AIR AND EXHAUST AIR SHALL BE BALANCED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS. TEST AND BALANCE THE AIR HANDLING UNIT AND RECORD CFM AND STATIC PRESSURE IN THE
- THESE AIRFLOW RATES SHALL BE CONSIDERED MINIMUM RATES. THE MEASURED AIR BALANCE TOLERANCE FOR BOTH OUTDOOR AIR AND EXHAUST AIR RATES SHALL BE 0% TO +10%.
- 5. AFTER CONSTRUCTION, ALL HVAC FANS WITH MOTORS GREATER THAN 1 HP IN SIZE SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS.
- 6. WHEN TESTING AND BALANCING IS REQUIRED IN DWELLING UNITS, IT MUST BE COMPLETED AND THE TAB REPORT SUBMITTED PRIOR TO OCCUPANCY. COORDINATE WITH THE GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND MECHANICAL SUBCONTRACTOR TO SCHEDULE 20. DUCT ACCESS DOORS: PROVIDE ACCESS TAB WELL IN ADVANCE OF OCCUPANCY.
- 7. SUBMIT THE CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL. REPORTS SHALL INCLUDE AIRFLOW, STATIC PRESSURE, AND TEMPERATURE TEST DATA

MECHANICAL/ELECTRICAL COORDINATION:

- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS. DISCONNECT SWITCH SHALL BE FURNISHED BY MECHANICAL FOR INSTALLATION BY ELECTRICAL. DISCONNECT SWITCHES SHALL NOT BE MOUNTED ON THE EQUIPMENT IT SERVES UNLESS INTEGRAL TO THE UNIT.
- VOLT AND HIGHER WIRING SHALL BE MC CABLE OR IN CONDUIT IN ACCORDANCE WITH LOCAL CODES AND THE MATERIALS AND INSTALLATION REQUIREMENTS OF DIVISION 26 - ELECTRICAL. COORDINATE POWER AND FIRE ALARM REQUIREMENTS OF ALL COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS WITH THE

PROVIDE ALL SYSTEM CONTROLS AND ASSOCIATED CONTROL AND INTERLOCK WIRING FOR COMPLETE AND OPERABLE SYSTEMS. 120

- ELECTRICAL CONTRACTOR. 5. ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED
- 6. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE FOUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR MOTOR STARTERS FOR HVAC FOUIPMENT. SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 26
- MAINTAIN REQUIRED NEC CLEARANCES FOR ALL POWERED MECHANICAL EQUIPMENT. THE CLEAR WIDTH SHALL BE THE WIDTH OF THE EQUIPMENT OR 2'-6" (MINIMUM). THE FOLLOWING CLEARANCE IN FRONT OF THE EQUIPMENT SHALL BE:
- a. FOR 208/240V FOUIPMENT: 3'-0" CLEARANCE

ACCORDING TO CODE REQUIREMENTS.

b. FOR 480V EQUIPMENT: 3'-0" CLEARANCE: CONDITION 1 - OPEN AREA, NO OBSTRUCTIONS; 3'-6" CLEARANCE - CONDITION 2 -GROUNDED EQUIPMENT, OR CONCRETE/STEEL WALL ON OPPOSING SIDE; 4' CLEARANCE - CONDITION 3 - LIVE PARTS TO LIVE PARTS.

- 8. CLEARANCES FOR ELECTRIC DUCT HEATERS AND LOW VOLTAGE CONTROL PANELS LOCATED ABOVE CEILINGS: THE CONTRACTOR SHALL COORDINATE AND PLAN THE WORK TO ALLOW FOR A CLEAR SPACE IN FRONT OF ALL ELECTRIC DUCT HEATER CONTROL PANELS (INCLUDING, BUT NOT LIMITED TO AHUS, FCUS, VAVs, PIUs, UHs, ETC.) OF 42" X 30" WIDE (OR THE WIDTH OF THE PANEL WHICHEVER IS GREATER). THE PROVIDED WHERE SHOWN ON THE DRAWINGS OR WHERE NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF CONTROL PANEL DOOR SHALL BE ALLOWED TO OPEN AT LEAST 90 DEGREES. EQUIPMENT WITHOUT DUCT HEATERS THAT HAVE LOW VOLTAGE CONTROL PANELS SHALL HAVE A MINIMUM CLEAR SPACE IN FRONT OF THE PANEL OF 24" X 24" WIDE (OR THE WIDTH OF THE PANEL WHICHEVER
- INDICATED FOR CEILING RADIATION DAMPERS TO FACILITATE INSPECTION AND MAINTENANCE. PERMANENTLY IDENTIFY THE ACCESS DOOR BY 9. ROUTING OF DUCTWORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. DUCTWORK SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER.
 - 10. MOTORS CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD) SHALL BE INVERTER DUTY MOTORS DESIGNED ACCORDING TO THE MANUFACTURER'S DRIVE THAT IS USED.
 - 11. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE REQUIRED SHORT CIRCUIT CURRENT RATING OF THE PANELBOARD SERVING THE 2. PIPE INSULATION: EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING.
 - 1. SUPPLY, RETURN AND O.A. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, LATEST EDITION. AND IMC CHAPTER 6 AS REQUIRED.
 - a. SNAP-LOCK LONGITUDINAL SEAMS ARE NOT ALLOWED UNLESS SECURED WITH SHEET METAL FASTENING SCREWS AS RECOMMENDED
 - b. LEASING, AMENITY AND COMMON AREA DUCTWORK IN MULTIFAMILY PROJECTS SHALL HAVE SHEET METAL DUCTWORK.

TAPES, SEALANTS AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH

- UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC/SEALANT. 3. SEAL THE ANNULAR SPACE AROUND ALL DUCT PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS AIRTIGHT WITH AN APPROVED
- 4. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C"
- SHEETMETAL DUCT SEALING:
- SEAL, INSPECT AND TEST SHEETMETAL DUCTWORK PRIOR TO INSULATING OR CONCEALING. SEAL ALL DUCTWORK AND PLENUMS TO MEET SMACNA SEAL CLASS A. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS.
- PRESSURE-SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT, UNLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LABORATORY AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATION. e. ALL CONNECTIONS SHALL BE SEALED, INCLUDING BUT NOT LIMITED TO SPIN-IN FITTINGS, TAPS, OTHER BRANCH CONNECTIONS,
- ACCESS DOORS, AND DUCT CONNECTIONS TO EQUIPMENT. SEALING THAT WOULD VOID PRODUCT LISTINGS IS NOT REQUIRED.

g. SPIRAL LOCK SEAMS NEED NOT BE SEALED.

JOHNS MANVILLE MICRO-AIRE OR EQUAL.

a. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

- 6. ALTERNATE SUPPLY AND RETURN AIR DUCTWORK FOR DWELLING UNITS FIBERGLASS DUCT BOARD (MINIMUM INSULATION VALUE R-4.2 WHERE LOCATED WITHIN THE THERMAL ENVELOPE AND A MINIMUM INSULATION VALUE OF R-8 WHEN LOCATED IN AN ATTIC OR OUTSIDE THE THERMAL ENVELOPE OF THE BUILDING, OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE) WITH GLASS FABRIC REINFORCED VAPOR BARRIER. DUCT CONSTRUCTION SHALL CONFORM TO SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS, LATEST EDITION FIBERGLASS DUCTBOARD SHALL BE UL 181 LISTED AS A CLASS 1 RIGID AIR DUCT. ALL FIBERGLASS DUCTWORK AND ACCESSORIES SHALL BE FABRICATED BY A MANUFACTURER'S AUTHORIZED FABRICATOR, SHALL BE INSTALLED WITH THE FABRICATOR'S SUPERVISION AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FIBERGLASS DUCTWORK SHALL NOT BE USED OUTDOORS. DUCT BOARD SHALL BE
- a. TAPES AND MASTICS USED TO SEAL FIBROUS GLASS DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND REFRIGERATING SYSTEM, AS REQUIRED BY LOCAL CODE AUTHORITIES. THE PIPE, DUCT OR SHAFT SHALL BE VENTED TO OUTDOORS. SHALL BE MARKED "181 A-P" FOR PRESSURE-SENSITIVE TAPE, "181 A-M" FOR MASTIC OR "181 A-H" FOR HEAT-SENSITIVE TAPE.
- 7. ALL OPEN-ENDED DUCTS AND FAN OUTLETS SHALL HAVE ½" X ½" HARDWARE CLOTH (WMS) AFFIXED TO THE OPENING.
- EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL (G 90 MINIMUM) CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.
- 9. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.
- 10. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE MINIMUM INSULATION VALUE OF R-6: R-8 WHEN LOCATED OUTSIDE THE THERMAL ENVELOPE OF THE BUILDING. OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE. AIR CONNECTORS ARE NOT ACCEPTABLE. FLEX DUCT DIAMETER SHALL MATCH DEVICE NECK DIAMETER. PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 8'-0" (EXCEPT IN DWELLING UNITS, LENGTH SHALL BE AS INDICATED). LEASING, AMENITY AND COMMON AREAS IN MULTIFAMILY PROJECTS SHALL BE LIMITED TO 8'-0" MAXIMUM FLEXIBLE DUCT LENGTH. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED e. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR
- PROTECT EQUIPMENT AND AIR DISTRIBUTION SYSTEMS AS OUTLINED IN SMACNA'S IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER 11. COMMON/AMENITY SPACES: ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A CONICAL TYPE SPIN-IN FITTING WITH MANUAL VOLUME DAMPER (EXCEPT WHERE INSTALLED ABOVE INACCESSIBLE CEILINGS, THE DAMPER SHALL BE OMITTED AND PROVIDED IN THE AIR DEVICE NECK).
 - 12. RESIDENTIAL: ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A TAB TYPE FITTING.
 - 13. TAPE, BED AND SEAL AIR-TIGHT ALL PENETRATIONS FROM RETURN AIR PLENUMS TO NON-RETURN AIR PLENUMS THAT ARE REQUIRED DUE TO DUCTWORK, PIPING OR OTHER ITEMS.
 - 14. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
 - 15. EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.

OF THE AIRSTREAM WHERE POSSIBLE. ALL FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555. REFER TO THE

- INSTALLATION INSTRUCTIONS AND SMACNA'S FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS. 17. INSTALL FIRE DAMPERS IN ALL RATED WALLS AND FLOOR PENETRATIONS. FIRE DAMPERS SHALL BE THE DYNAMIC TYPE WITH BLADES OUT
- ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES. 18. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS OR ARCHITECTURAL SHAFTS, THE DAMPERS INSTALLED SHALL BE COMBINATION FIRE AND SMOKE DAMPERS. ALL SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555S. ALL COMBINATION FIRE AND SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555 AND U.L. 555S. POWER WIRING TO TEST SWITCH AND ACTUATOR SHALL BE PER MANUFACTURER'S
- INSTALLATION INSTRUCTIONS. 19. INSTALL CEILING RADIATION DAMPERS IN ALL MEMBRANE PENETRATIONS OF FIRE RATED FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES WHERE NOT OTHERWISE PROTECTED WITH A RATED SHAFT, ALL CEILING RADIATION DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555C. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES. WHERE NECESSARY, PROVIDE DUCT ACCESS
- DOOR AND CEILING ACCESS PANEL (RE: ARCH. DWGS. FOR RATED ACCESS PANEL SPECIFICATION),
- 21. PROVIDE ALL OUTDOOR AIR INTAKES AND EXHAUST OPENINGS WITH MOTORIZED OR GRAVITY DAMPERS IN ACCORDANCE WITH THE LOCAL ENERGY CODE. DAMPERS SHALL CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.
- 22. LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN. 23. WHERE BALANCING DAMPERS CANNOT BE ACCESSED FROM BELOW THE CEILING, PROVIDE A REMOTE OPERATED ELECTRONIC DAMPER;
- YOUNG REGULATOR OR EQUAL 24. SUPPLY AND EXHAUST DUCTWORK SERVING SWIMMING POOLS AND POOL EQUIPMENT/CHEMICAL STORAGE ROOMS SHALL BE 16-GAUGE ALUMINUM (ALLOY 3003 - H14 TEMPER PER ASTM B209). SLOPE DUCTWORK AT 1/8" PER FOOT TOWARDS DRAIN
- 25. DUCTWORK INSTALLED WITHIN OPEN ATTIC SPACES SHALL BE GALVANIZED STEEL. DUCTBOARD AND FLEX DUCT IS ALLOWABLE WHERE SERVING DWELLING UNIT SUPPLY AIR SYSTEMS.
- 26. FLEXIBLE DUCT CONNECTORS SHALL BE USED TO CONNECT DUCTWORK AND PLENUMS TO FAN-ROTATING EQUIPMENT; PROFLEX BY DUCTMATE OR APPROVED EQUAL. INDOOR FLEXIBLE CONNECTORS SHALL BE 26 OZ/SQ. YD. GLASS FABRIC DOUBLE COATED WITH NEOPRENE. OUTDOOR FLEXIBLE CONNECTORS SHALL BE 24 OZ/SQ. YD. GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE. FABRICS, COATINGS AND ADHESIVES SHALL BE TESTED IN ACCORDANCE WITH UL 701 AND HAVE A FLAME SPREAD/ SMOKE DEVELOPED RATING OF 25/50. FLEXIBLE DUCT CONNECTORS SHALL ALSO BE PROVIDED WHERE DUCTWORK CROSSES BUILDING EXPANSION JOINTS.
- 27. INSTALL DUCTWORK SUCH THAT LINE-OF-SIGHT IS ELIMINATED BETWEEN RETURN AIR REGISTERS/GRILLES AND AIR HANDLING UNITS, FAN COIL UNITS AND ROOFTOP UNITS.

- DUCT INSULATION:
- a. DUCT WRAP SHALL BE UL LISTED FIBERGLASS BLANKET INSULATION WITH FOIL VAPOR BARRIER, JOHNS MANVILLE MICROLITE EQ FSK OR APPROVED EQUAL. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATE SHEET METAL DUCTWORK IN THE THICKNESSES AND DENSITIES LISTED BELOW:
- SHEET METAL SUPPLY AND OUTSIDE AIR DUCTWORK: 2" THICK, 1 LB/FT3 DENSITY, R-6 MINIMUM INSTALLED. SHEET METAL RETURN DUCTWORK IN NON-AIR-CONDITIONED AREAS (SUCH AS INTERSTITIAL SPACES AND FLOOR/CEILING ASSEMBLIES): 2" THICK, 1 LB/FT3 DENSITY, R-6 MINIMUM INSTALLED.
- ALL SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE THERMAL ENVELOPE OF THE BUILDING (INCLUDING CRAWL SPACES AND ATTIC SPACES): 3" THICK. 34" LB/FT3 DENSITY, R-8 MINIMUM INSTALLED.

- b. DUCT LINER FOR ACOUSTICS: LINE ALL SUPPLY AND RETURN SHEETMETAL DUCTWORK A MINIMUM OF 15'-0" (OR AS INDICATED OR SPECIFIED HEREIN) UPSTREAM AND DOWNSTREAM OF ALL AIR HANDLING UNITS. DUCT LINER FOR RECTANGULAR DUCTS SHALL BE 11/2"
 - THICK, (MINIMUM R-6 OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE); JOHNS MANVILLE LINACOUSTIC RC OR EQUAL. THE LEADING EDGE OF THE DUCT LINER SHALL HAVE A SHEETMETAL NOSING.
 - EXPOSED EDGES AND BUTT JOINTS SHALL BE "BUTTERED" WITH DUCT SEALER LINED DUCTWORK DOES NOT REQUIRE ADDITIONAL EXTERIOR INSULATION WHERE LINER MEETS REQUIRED R-VALUES RETURN AIR TRANSFER DUCTS, ELBOWS AND SOUND BOOTS SHALL BE LINED WITH 1" THICK LINER UNLESS OTHERWISE
 - 5. DUCT LINER SHALL BE INTERRUPTED AT ALL FIRE, SMOKE, COMBINATION FIRE/SMOKE AND RADIATION DAMPERS. 6. DUCT LINER SHALL BE INTERRUPTED NOT LESS THAN 6" UPSTREAM AND 6" DOWNSTREAM OF ELECTRIC-RESISTANCE AND FUEL-BURNING HEATERS IN A DUCT SYSTEM.
- c. DUCTWORK PENETRATING SMOKEPROOF ENCLOSURES SHALL BE WRAPPED USING A U.L. LISTED AND APPROVED 2-HOUR RATED FIRE WRAP INSULATING SYSTEM OR ENCLOSED IN AN APPROVED FIRE RATED ASSEMBLY,

- a. CONVENTIONAL SPLIT SYSTEMS REFRIGERANT PIPING INSTALLED OUTDOORS SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC TUBING, (K FACTOR NOT TO EXCEED 0.245 BTU·IN/HR·FT2·°F) WITH FACTORY APPLIED UV RESISTANT DURABLE PROTECTIVE JACKET, ARMAFLEX SHIELD™ CONTINUOUS COIL PIPE INSULATION AS MANUFACTURED BY ARMACELL, LLC OR ALTERNATES LISTED BELOW, WHEN THE PRODUCT IS AVAILABLE IN THE REQUIRED PIPE SIZE AND INSULATION WALL THICKNESS. NO FIELD APPLIED PROTECTIVE COATING OR FINISH SHALL BE USED WITH THIS INSULATION. LONGITUDINAL AND BUTT JOINTS SHALL BE SEALED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POLYETHYLENE FOAM INSULATION IS NOT ACCEPTABLE. ACCEPTABLE ALTERNATE ELASTOMERIC PRODUCT:
- K-FLEX USA: K-FLEX TITAN™ D. REFRIGERANT PIPING INSTALLED INDOORS: SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC TUBING INSULATION. AP/ARMAFLEX BLACK LAPSEAL™ PIPE INSULATION AS MANUFACTURED BY ARMACELL, LLC OR ALTERNATES LISTED BELOW. ALL JOINTS AND SEAMS SHALL BE SEALED WEATHERTIGHT WITH ARMAFLEX BLACK LAPSEAL™ TAPE. BLACK LAPSEAL™ TAPE SHALL ALSO BE USED TO SECURE THE THERMOSTAT CABLE TO THE PIPE INSULATION. AS AN ALTERNATE TO INSULATION PRODUCTS WITH THE UV RESISTANT DURABLE PROTECTIVE JACKET NOTED ABOVE, ARMAFLEX BLACK LAPSEAL INSULATION MAY BE USED OUTDOORS WITH A FIELD APPLIED UV RESISTANT FINISH COAT. THE FINISH COAT SHALL BE TWO COATS OF A WATER-BASED LATEX PAINT DESIGNED FOR USE OVER ALL FORMS OF FLEXIBLE ELASTOMERIC INSULATION. FINISH COAT SHALL PROVIDE A PROTECTIVE FINISH SUITABLE FOR OUTDOOR APPLICATIONS, FORMULATED FOR COLD WEATHER FLEXIBILITY TO RESIST CRACKING AND WEATHER-RESISTANT TO ULTRAVIOLET (UV) AND OZONE. COATING SHALL BE ARMAFLEX WB FINISH OR EQUIVALENT PRODUCT COMPATIBLE WITH THE INSULATION. POLYETHYLENE FOAM INSULATION IS NOT ACCEPTABLE.
- ACCEPTABLE ALTERNATE PRODUCTS: 1) AEROFLEX, USA, INC.; AEROCELL-SSPTTM WITH PROTAPE AND TWO COATS OF FIELD APPLIED AEROCEL AEROCOAT. (AEROCEL AEROCOAT REQUIRED FOR OUTDOOR INSTALLATION ONLY).
- 2) K-FLEX USA. LLC.. K-FLEX INSUL-LOCK DS (INDOOR USE ONLY). INSULATION THICKNESS SHALL BE PER SPECIFICATION SECTION 23 23 00. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITHIN THE BUILDING'S THERMAL ENVELOPE WITH SECTIONAL PREFORMED FIBERGLASS PIPE INSULATION (K FACTOR NOT TO EXCEED 0.23 BTU·IN/HR·FT²-°F) WITH VAPOR BARRIER JACKET; JOHNS MANVILLE MICRO-LOK OR APPROVED FOUAL ACCEPTABLE ALTERNATE: CLOSED CELL FLASTOMERIC: AP ARMAFLEX WITH LAP SEAL THICKNESS SHALL BE MANUFACTURER'S RECOMMENDED THICKNESS TO PREVENT CONDENSATION ON THE EXTERIOR OF THE JACKET; MINIMUM THICKNESS SHALL BE ½" FOR PIPE SIZES UP TO AND INCLUDING 1¼" AND 1" THICKNESS FOR PIPE SIZES 1½" AND LARGER. INSTALLATION SHALL BE IN

ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- REFRIGERANT PIPING SHALL BE TYPE L OR ACR (AIR CONDITIONING AND REFRIGERATION FIELD SERVICE) COPPER TUBING WITH BRAZED
- 2. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS. 3. REFRIGERANT PIPING CARRYING OTHER THAN SAFETY GROUP A1 OR B1 REFRIGERANTS AND INTERCONNECTING SEPARATE PIECES OF EQUIPMENT (SPLIT HVAC SYSTEMS) AND PASSING VERTICALLY THROUGH FLOORS FROM ONE STORY TO ANOTHER SHALL BE ENCLOSED IN A
- 4. SEAL THE ANNULAR SPACE AROUND ALL PIPING PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DRAWINGS FOR APPROVED MATERIALS).
- 5. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST PLUMBING DRAIN. CONDENSATE PIPING SHALL BE INSULATED TYPE M COPPER OR INSULATED SCHEDULE 40 PVC (IN HVAC PLENUMS USE INSULATED TYPE M COPPER). CPVC PIPING IS NOT ALLOWED. CONDENSATE SHALL BE PUMPED AS REQUIRED. CONDENSATE PUMP SHALL BE TESTED TO COMPLY WITH UL 2043 FOR PLENUM APPLICATIONS; LITTLE GIANT VCCA SERIES. PVC EXPOSED TO THE WEATHER SHALL BE PAINTED WITH A LIGHT-COLORED ACRYLIC OR LATEX ULTRAVIOLET (UV) AND OZONE INHIBITOR PAINT THAT IS CHEMICALLY COMPATIBLE WITH PVC.
- 6. PROVIDE MANUAL OR AUTOMATIC AIR VENT (WITH DRAIN) AT HIGH POINTS OF ALL RECIRCULATING WATER PIPING SYSTEMS.

7. PIPING AT PUMPS AND EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR ACCESSORY LOAD IS CARRIED BY THE PUMP OR

EQUIPMENT. PIPE SUPPORTS AND HANGERS:

EXCEPTIONS:

- a. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING
- STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS. RESISTANT RUBBER SUPPORT SYSTEM; MIFAB C SERIES OR EQUAL BY DURA-BLOK.
- 9. IN WOOD FRAMED BUILDINGS, FERNCO MODEL XJ EXPANSION JOINTS SHALL BE INSTALLED IN VERTICAL PVC AND COPPER CONDENSATE RISERS AT ALTERNATING FLOORS IN THE CEILING CAVITIES. PIPE CLAMPS SHALL BE INSTALLED AT THE SILL PLATE OF THE FLOOR ABOVE THE

DWELLING UNITS:

- 1. CLOTHES DRYER FLEXIBLE DUCTWORK SHALL BE CONNECTED (BY INSTALLING CONTRACTOR) TO A MANUFACTURED DRYER WALL BOX (DRYERBOX MODEL 425 IFOR UPWARD EXHAUST FLOW OR INSTALL UPSIDE DOWN WHERE STACKABLE OR PEDESTAL DRYERS HAVE DOWARD EXHAUST FLOW) OR MODEL 4D (DOWNWARD EXHAUST FLOW) BY IN-O-VATE TECHNOLOGIES, INC. OR EQUAL). THE F AND T RATINGS FOR THE INSTALLATION SHALL BE 1 HOUR. THE FLEXIBLE DUCTWORK (BY DRYER INSTALLER) SHALL CONNECT THE CLOTHES DRYER TO THE DRYER WALL BOX CONNECTION USING A WORM DRIVE TYPE HOSE CLAMP AND BE INSTALLED AS SHOWN ON THE PLANS. THE LOCATION OF THE CLOTHES DRYER CONNECTION IN THE DWELLING UNIT SHALL BE BASED ON THE CLOTHES DRYER TYPE (STACKED OR SIDE BY SIDE) AND COORDINATED IN
- BATHROOM AND CLOTHES DRYER EXHAUST DUCTS PENETRATING A HORIZONTAL RATED ASSEMBLY THROUGH THE TOP PLATE OR BOTTOM PLATE OF A FRAMED WALL ASSEMBLY SHALL BE PER UL INSTALLATION INSTRUCTIONS. DUCTWORK SHALL BE CONSTRUCTED OF 26 GAUGE GALVANIZED STEEL FOR THE ENTIRE LENGTH OF THE DUCT SYSTEM. DUCTWORK SHALL BE INSTALLED WITH LONGITUDINAL SEAMS FACING UP. FROM THE EXTERIOR WALL INWARD, SLOPE THE LAST 10' OF DUCTWORK AT 1/8"/FT. DOWN TOWARDS THE EXTERIOR WALL. DO NOT SECURE
- DRYER DUCT WITH SHEET METAL SCREWS. 3. BATHROOM (TOILET), KITCHEN AND CLOTHES DRYER EXHAUST DUCTWORK SHALL BE PROVIDED WITH A BACK-DRAFT DAMPER. BATHROOM
- EXHAUST FANS MAY HAVE AN INTEGRAL BACK DRAFT DAMPER TO ACCOMPLISH THIS. BATHROOM EXHAUST SHALL INCLUDE AN INSECT SCREEN
- 4. DWELLING UNIT KITCHEN RANGE HOODS SHALL BE THE VENTLESS RECIRCULATING TYPE AND WILL BE PROVIDED BY OTHERS. 5. BATHROOM (TOILET), KITCHEN AND CLOTHES DRYER EXHAUST DUCTWORK SHALL HAVE SEAMS SEALED AIRTIGHT WITH DUCT SEALER.
- WHEN TESTED IN ACCORDANCE WITH ASHRAE 193. . ALL JOINTS AND SEAMS OF REGISTER AND DIFFUSER BOOTS, PANS, PLENUM BOXES, ETC. SHALL BE SEALED AIRTIGHT WITH DUCT SEALER OR MASTIC. VINYL OR FOIL TAPES ALONE ARE NOT ACCEPTABLE.

8. TOTAL LEAKAGE OF THE AIR DISTRIBUTION SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE, SHALL BE VERIFIED BY

- POSTCONSTRUCTION TEST: LEAKAGE TO OUTDOORS FOR EACH SYSTEM SHALL BE LESS THAN OR EQUAL TO 8 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA ASSIGNED TO THAT SYSTEM OR A TOTAL LEAKAGE FOR EACH SYSTEM WITH THE AIR HANDLER INSTALLED OF LESS THAN OR EQUAL TO 12 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA ASSIGNED TO THAT SYSTEM WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. CONDITIONED FLOOR AREA SHOULD BE CALCULATED USING ANSI Z765, AND SHOULD INCLUDE ALL DIRECTLY CONDITIONED SQUARE FOOTAGE, WHETHER FINISHED OR NOT, THAT MEETS BUILDING CODE REQUIREMENTS FOR LIVING SPACE b. ROUGH-IN TEST: TOTAL LEAKAGE FOR EACH SYSTEM WITH THE AIR HANDLER INSTALLED SHALL BE LESS THAN OR EQUAL TO 6 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA ASSIGNED TO THAT SYSTEM WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ROUGHED-IN SYSTEM. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.
 - 1. DUCT TIGHTNESS TESTING IS NOT REQUIRED IF THE AIR HANDLER AND ALL DUCTS ARE LOCATED WITHIN
 - 2. DUCT TIGHTNESS TESTING IS NOT REQUIRED FOR EXISTING DUCT SYSTEMS UNLESS MORE THAN 50% OF THE DUCT SYSTEM IS MODIFIED. 3. IF THE AIR HANDLER, FURNACE OR EVAPORATOR COIL IS REPLACED ON AN EXISTING SYSTEM, ALL JOINTS, SEAMS AND CONNECTIONS FROM EQUIPMENT TO DUCT SYSTEM AND DUCT SYSTEM CONNECTIONS TO PLENUMS SHALL MEET THE SEALING REQUIREMENTS OF THIS CODE AND BE VERIFIED BY A VISUAL INSPECTION BY THE
- STATE LICENSED CONDITIONED AIR CONTRACTOR OR BY A DUCT AND ENVELOPE TIGHTNESS (DET) VERIFIER c. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL.

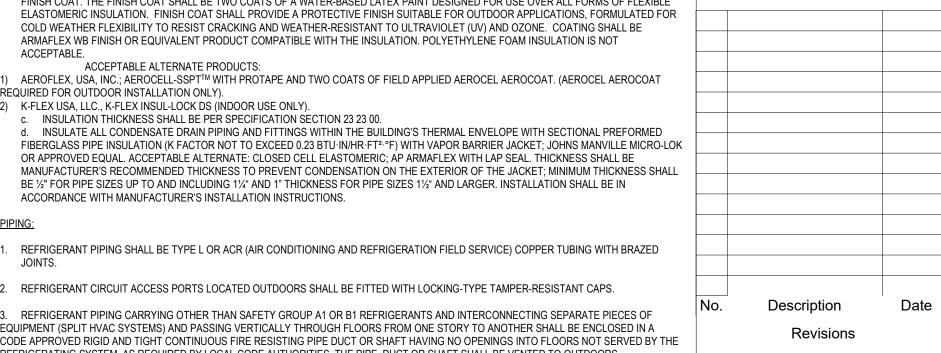


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Construction Documents -Progress Set

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments

Residences, LLC

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Sheet Title: **GENERAL NOTES**

Sheet Number:

September 30, 2022

	FANS													
TAG	MANUF.	MODEL	TYPE	DUTY	CFM	SP (IN. W.C.)	MAX. MOTOR SIZE	RPM	DRIVE	MAX. SONES	APPROX. WEIGHT (LBS)	CONTROLLED BY	EMERGENCY POWER	ACCESSORIES/ REMARKS
EF-A	PANASONIC	FV-0510VS1	CC	TOILET EXH	50	0.25	7.5W	1025	D	0.5	8.82	CA	NO	1,2,4
EF-B	PANASONIC	FV-0511VQ1	СС	KITCHEN EXH	100	0.25	16.4W	1239	D	0.9	11	CA	NO	1,2,3,4,5
EF-C	PANASONIC	FV-0510VS1	СС	TOILET EXH	80	0.25	11.5W	1070	D	0.8	8.82	СМ	NO	1,2,4,5
EF-D	BROAN	L200	СС	TOILET EXH	200	0.25	127 W	740	D	2.3	23	СМ	NO	1,2,5
EF-E	GREENHECK	BCF-106-4	CAB	POOL EQUIPMENT	600	0.25	1/4 HP	1752	В	8.6	79	CN	NO	1,2,3
EF-F	BROAN	L200	CC	MAINTENANCE/DOG WASH	200	0.25	127 W	740	D	2.3	23	CA	NO	1,2,3
SF-A	SOLER & PALAU	TD-100	INLINE	OA INTAKE FAN	30/45	0.25	26	2516	D	-	4	HUMIDITY SENSOR	NO	

A. SELECTIONS ARE BASED ON A PROJECT ELEVATION OF 701'.

B. GREASE REMOVAL FANS SHALL BE LISTED FOR GREASE REMOVAL (UL 762) AND ELECTRICAL (UL 705) C. REFER TO DETAILS FOR ADDITIONAL OPTIONS, ACCESSORIES, MOUNTING ARRANGEMENT, ETC.

D. FOR FANS THAT ARE PART OF A SMOKE MANAGEMENT SYSTEM, REFER TO THE SMOKE CONTROL FAN SCHEDULE

E. WEIGHTS INCLUDE ACCESSORIES, CURBS, MOTORS, ETC.

F. FANS THAT ARE SCHEDULED TO RUN CONTINUOUSLY SHALL HAVE IEC 60034-1 CONTINUOUS DUTY RATED MOTORS. G. FANS THAT ARE INTERCONNECTED WITH LIGHTING CONTROLS (E.G. LIGHT SWITCH) MAY NOT BE THE SAME VOLTAGE AS THE LIGHTING CIRCUIT. COORDINATE WITH THE ELECTRICAL

CONTRACTOR AND PROVIDE RELAYS/CONTROLS AS REQUIRED.

H. REFER TO AIR HANDLING UNIT SCHEDULE FOR OA CFM AND BALANCE ACCORDINGLY.

J. FANS SHALL BE CERTIFIED TO BEAR THE AMCA LABEL FOR AIR AND SOUND PERFORMANCE.

CC - CEILING CENTRIFUGAL CAB - INLINE CABINET

FAN TYPES:

ACCESSORIES: 1. GRAVITY BACKDRAFT DAMPER

2. FACTORY MOUNTED DISCONNECT SWITCH 3. SPEED CONTROLLER

4. ENERGY STAR 5. CEILING RADIATION DAMPER

UNLESS NOTED OTHERWISE, SELECTIONS ARE BASED ON PRODUCTS BY GREENHECK.

EQUAL PRODUCTS: PENNBARRY, CARNES, COOK, ACME PROVIDED THE PRODUCTS MEET OR EXCEED THE SCHEDULED PERFORMANCE AND SPECIFICATIONS.

GRILLE, REGISTERS & DIFFUSERS - RESIDENTIAL

FAN CONTROL NOTES:

CN - CONTINUOUS OPERATION

CH - INTERLOCK WITH CO SENSOR

CA - WALL SWITCH - REFER TO ELECTRICAL DWGS.

CM - INTERLOCK WITH LIGHTS - REFER TO ELECTRICAL DWGS.

DRIVE TYPE:

D - DIRECT

B - BELT

TAG	MFG	SERIES	BLOW DIRECTION	DUTY	NECK SIZE (INCHES)	FACE SIZE	DAMPER	MATERIAL	TYPE NO	TES	ACCESSORIES
А	TRUAIRE	103M	3-WAY	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	STAMPED FACE SIDEWALL/CEILING REGISTER		1,2,3,
В	TRUAIRE	102M	2-WAY	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	STAMPED FACE SIDEWALL/CEILING REGISTER		1,2,3
С	TRUAIRE	170	1-WAY	RETURN	SEE DWGS	SEE DWGS	NO	STEEL	STAMPED FACE RETURN AIR GRILLE		1,2,3
D	TRUAIRE	220	1-WAY	SUPPLY	SEE DWGS	SEE DWGS	YES	STEEL	DOUBLE DEFLECTION		1,2
E	PRICE	535D	1-WAY	RETURN	SEE DWGS	SEE DWGS	YES	STEEL	LOUVERED RETURN		2,3,4

NOTES (APPLY TO ALL AIR DEVICES):

A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND/OR SUSPENSION SYSTEM.

B. FINISH SHALL BE MANUFACTURER'S STANDARD WHITE, UNLESS NOTED OTHERWISE.

B. FINISH SHALL BE MANUFACTURER'S STANDARD. REFER TO ACCESSORIES/NOTES FOR CUSTOM FINISHES, IF ANY. SUBMIT COLOR CHART WITH SHOP DRAWINGS. C. DRYER MAKE-UP AIR GRILLE SHALL HAVE A MINIMUM OF 120 SQUARE INCHES OF FREE AREA.

D. STEEL CONSTRUCTION AS REQUIRED BY UL INSTALLATION DETAIL FOR GRILLE ACCESS TYPE FIRE/SMOKE DAMPER.

1. MULTI-SHUTTER DAMPER

2. COORDINATE MOUNTING FRAME WITH CEILING TYPE. SEE ARCH. RCP

3. PROVIDE CEILING RADIATION DAMPERS FOR ALL CEILING MOUNTED AIR DEVICES WERE SHOWN ON PLAN. 4. PROVIDE OPPOSED BLADE DAMPER WITH LOCKING SCREW ADJUSTMENT, BALANCE TO AIRFLOW SHOWN ON PLAN.

EQUAL PRODUCTS: HART & COOLEY, LIMA, TRUAIRE, USAIRE, SPEEDI-GRILLE.

PACKAGED TERMINAL HEAT PUMPS

TAG	MODEL No.	AREA SERVED	TOTAL CFM	TOTAL COOLING (MBH)	AHRI EER	AHRI COP	HEATING (MBH)	AUX HEAT (KW)	ACCESSORIES
PTHP-A	FRIEDRICH	MAINTENANCE	315	14,200	10.4	3.1	13000	5	1,2,3,4

A. COOLING CAPACITY BASED ON AN INDOOR EAT OF 80°F db/67°F wb AND AN OUTDOOR EAT OF 95°F db.

B. HEATING CAPACITY BASED ON AN INDOOR EAT OF 70°F db AND AN OUTDOOR EAT OF47°F db. C. COOLING AND HEATING CAPACITIES BASED ON PROJECT VOLTAGE.

ACCESSORIES:

1. WALL SLEEVE WITH LEVELING LEGS

2. ARCHITECTURAL EXTRUDED ALUMINUM GRILLE (COLOR/FINISH SELECTED BY ARCHITECT)

3. SUB-BASE ASSEMBLY WITH RECEPTACLE, CORD, AND PLUG 4. CONDENSATE DRAIN KIT

SELECTIONS BASED ON PRODUCTS BY FRIEDRICH EQUAL PRODUCTS BY GE, AMANA OR DR. PTAC

ELECTRIC HEATERS

TAG	SERIES	TYPE	MOUNTING	CAPACITY (KW)	MOUNTING HEIGHT AFF	APPROX. WEIGHT (LBs)	ACCESSORIES
EWH-A	WCI	WALL HEATER	WALL	3.0	2'-0"	28	1, 2, 3
EUH-A	UHIR	UNIT HEATER	SUSPENDED	5.0	7'-0"	25	1, 2, 3
EUH-B	UHIR	UNIT HEATER	SUSPENDED	3.3	7'-0"	25	1, 2, 3

A. ALL HEATERS SHALL BE UL LISTED

B. CAPACITY SCHEDULED IS AT INSTALLED VOLTAGE. COORDINATE WITH ELECTRICAL DWGS.

C. ALL HEATERS SHALL HAVE THERMAL OVERLOAD PROTECTION D. STAIRWELL AND SPRINKLER RISER ROOM HEATERS - THERMOSTAT SETPOINT SHALL BE 45°F.

ACCESSORIES:

1. INTEGRAL TAMPERPROOF THERMOSTAT

2. INTEGRAL DISCONNECT SWITCH 3. SURFACE MOUNTING KIT

4. SEMI-RECESS MOUNTING KIT

5. UNIVERSAL WALL/CEILING MOUNTING BRACKET

6. WALL MOUNTED THERMOSTAT 7. TEE BAR CEILING MOUNTING KIT

8. CERTIFIED FOR ZERO CLEARANCE TO WALL OR CEILING

9. FAN GUARD AND LOUVER DIFFUSER 10. COMPLETE INSTALLATION TO INCLUDE ALL SPLICES, END CAPS, MOUNTING HARDWARE, ETC.

SELECTIONS BASED ON PRODUCTS BY INDEECO EQUAL PRODUCTS BY MARKEL, BERKO, QMARK, RAYWALL

SPLIT SYSTEM HEAT PUMP UNITS - DWELLING UNITS

				AIR HAN	IDLER				CAPA	ACITY					
TAG	MODEL NUMBER AIR HANDLER/HEAT PUMP UNIT	TYPE	TOTAL CFM	OA SOURCE	OA CFM	MAX FAN HP	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEAT PUMP HEAT (MBH)	AUXILIARY HEAT (kW)	MIN. SEER	MIN. HSPF	APPROX. WEIGHT (AH/HP) (LBS)	ACCESSORIES
AH-A / HP-A	AWUF31 + TXV / GSZ14018	W	600	N	-	1/2	0.40	17.2	13.6	17.2	5.0	14.0	8.2	110/143	1, 2, 3, 4, 5, 6, 7, 8
AH-B / HP-B	AWUF31 + TXV / GSZ14024	W	800	N	-	1/2	0.40	22.8	18.2	23.2	8.0	14.0	8.2	110/143	1, 2, 3, 4, 5, 6, 7, 8
AH-C / HP-C	AWUF31 + TXV / GSZ14030	W	1,000	N	-	1/2	0.40	27.8	20.6	28.0	8.0	14.0	8.2	110/171	1, 2, 3, 4, 5, 6, 7, 8
AH-D / HP-D	AWUF37 + TXV / GSZ14037	W	1,200	N	-	1/2	0.40	32.4	23.6	33.4	8.0	14.0	8.2	100/220	1, 2, 3, 4, 5, 6, 7, 8

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND 95°F DB ENTERING OUTDOOR UNIT AND A PROJECT ELEVATION OF 801'. B. 14 SEER MINIMUM UNITS WITH R-410A. MINIMUM 8.2 HSPF. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED.

C. HEAT PUMP HEATING CAPACITY BASED ON 47°F ENTERING OUTDOOR UNIT.

D. ELECTRIC HEAT CAPACITY IS THE MINIMUM OUTPUT REQUIRED AT THE PROJECT VOLTAGE (240V).

E. ESP DOES NOT INCLUDE COIL, FILTER, CASING AND ACCESSORY LOSSES. F. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

G. ADJUST MOTOR SPEED TAP IN FIELD TO PROVIDE TOTAL CFM LISTED FOR EACH AIR HANDLER. 1. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED AND ROUTED PER PLANS AND DETAILS.

K. FOR LONG LINE APPLICATIONS, PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER.K

L. SEE DRAWINGS FOR AIR HANDLER ORIENTATION.

M. ELECTRIC HEAT SHALL OPERATE ONLY IN DEFROST MODE OR WHEN THE HEATING LOAD CANNOT BE MET BY THE COMPRESSOR ALONE.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):

1. IECC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT; MANUAL CHANGEOVER WITH COMPRESSOR ANTI-RECYCLE PROTECTION, 2-STAGE HEATING, ADAPTIVE SETBACK RECOVERY AND TIME DELAY RELAY 2. INDOOR UNIT - SINGLE POINT POWER WIRING KIT WITH DISCONNECTING MEANS AND OVERLOAD PROTECTION (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)

3. OUTDOOR UNIT - DISCONNECT FURNISHED BY MECHANICAL; INSTALLED BY ELECTRICAL (COORDINATE WITH ELECTRICAL SUBCONTRACTOR) 4. FACTORY MOUNTED THERMAL EXPANSION VALVE TO ACHIEVE 14 SEER RATING (IF REQUIRED)

5. BI-FLOW REFRIGERANT FILTER DRIER IF REQUIRED BY MANUFACTURER (LOCATE PER MANUFACTURER'S RECOMMENDATION)

6. SAF-T-SWITCH INSTALLED IN SECONDARY CONDENSATE DRAIN FOR OVERFLOW PROTECTION OR ROUTE FULL SIZE OUTLET CONNECTION THRU CEILING WITH ESCUTCHEON 7. HARD START KIT

8. CRANKCASE HEATER

SELECTIONS BASED ON PRODUCTS BY GOODMAN

EQUAL PRODUCTS BY GOODMAN, FIRST COMPANY, SUNTHERM, ASPEN, CARRIER, BRYANT, TRANE, YORK, LENNOX, RHEEM

SPLIT SYSTEM HEAT PUMP UNITS - COMMON AREAS

					AIR HANDI	LE			CAPA	ACITY				APPROX.	
TAG	MODEL NUMBER AIR HANDLER/HEAT PUMP UNIT	AREA SERVED	TYPE	TOTAL CFM	OA CFM	MAX HP	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HP HEATING (MBH)	AUXILIARY HEAT (kW)	SEER	HSPF	WEIGHT (AH/HP) (LBS)	ACCESSORIES
AH-1 / HP-1	ASPT47 / GSZ14042	OFFICE	С	1,400	130	3/4	0.40	39.5	30.0	39.0	10.0	14.0	8.2	145/230	1, 2, 3, 4, 5, 6, 7, 8
AH-2 / HP-2	ASPT61 / GSZ14060	CLUB	С	1,850	180	1	0.40	56.5	43.0	59.0	15.0	14.0	8.5	170/310	1, 2, 3, 4, 5, 6, 7, 8
AH-3 / HP-3	ASPT61 / GSZ14060	FITNESS/GATHERING	С	1,820	195	1	0.40	56.5	43.0	59.0	15.0	14.0	8.5	170/310	1, 2, 3, 4, 5, 6, 7, 8

A. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB/67°F WB AND 95°F DB ENTERING OUTDOOR UNIT AND A PROJECT ELEVATION OF 801°. B. 14 SEER MINIMUM UNITS WITH R-410A. MINIMUM 8.2 HSPF. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED.

C. HEAT PUMP HEATING CAPACITY BASED ON AN INDOOR EAT OF 90°F DB AND 47°F ENTERING OUTDOOR UNIT. D. ELECTRIC HEAT CAPACITY IS THE MINIMUM OUTPUT REQUIRED AT THE PROJECT VOLTAGE (240V).

E. ESP DOES NOT INCLUDE COIL, FILTER, CASING AND ACCESSORY LOSSES.

F. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

G. ADJUST MOTOR SPEED TAP IN FIELD TO PROVIDE TOTAL CFM LISTED FOR EACH AIR HANDLER.

H. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. J. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED AND ROUTED PER PLANS AND DETAILS.

K. FOR LONG LINE APPLICATIONS, PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER.

L. SEE DRAWINGS FOR AIR HANDLER ORIENTATION.

M. ELECTRIC HEAT SHALL OPERATE ONLY IN DEFROST MODE OR WHEN THE HEATING LOAD CANNOT BE MET BY THE COMPRESSOR ALONE.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):

7-DAY PROGRAMMABLE THERMOSTAT; MANUAL CHANGEOVER WITH COMPRESSOR ANTI-RECYCLE PROTECTION AND TIME DELAY RELAY (Honeywell RTH7500 OR APPROVED EQUAL) 1. INDOOR UNIT - SINGLE POINT POWER WIRING KIT WITH DISCONNECTING MEANS AND OVERLOAD PROTECTION (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)

3. OUTDOOR UNIT - DISCONNECT FURNISHED BY MECHANICAL; INSTALLED BY ELECTRICAL (COORDINATE WITH ELECTRICAL SUBCONTRACTOR) 4. FACTORY MOUNTED THERMAL EXPANSION VALVE TO ACHIEVE 14 SEER RATING (IF REQUIRED)

5. BI-FLOW REFRIGERANT FILTER DRIER IF REQUIRED BY MANUFACTURER (LOCATE PER MANUFACTURER'S RECOMMENDATION)

6. SAF-T-SWITCH INSTALLED IN SECONDARY CONDENSATE DRAIN FOR OVERFLOW PROTECTION OR ROUTE FULL SIZE OUTLET CONNECTION THRU CEILING WITH ESCUTCHEON 7. HARD START KIT

8. CRANKCASE HEATER

SELECTIONS BASED ON PRODUCTS BY GOODMAN

EQUAL PRODUCTS BY GOODMAN, FIRST COMPANY, SUNTHERM, ASPEN, CARRIER, BRYANT, TRANE, YORK, LENNOX, RHEEM

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Planning · Architecture

Landscape Architecture

315 West Ponce de Leon Avenue

Date

Decatur, Georgia 30030

Description

Construction

Documents -

Progress Set

Ft. Clarke, Florida

Clarke

Lullwater at Ft.

Revisions

Tel: 404.373.7370 Fax: 404.373.7372 www.sgnplusa.co

SGN+A, Inc.

Suite 755

OA SOURCE:

N - NATURAL

M - MECHANICAL

C - CLOSET

W - WALL...

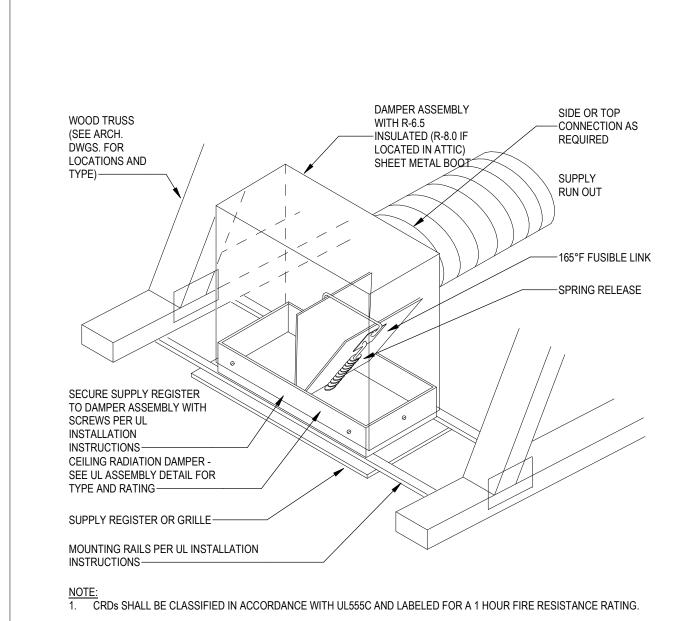
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September 30, 2022

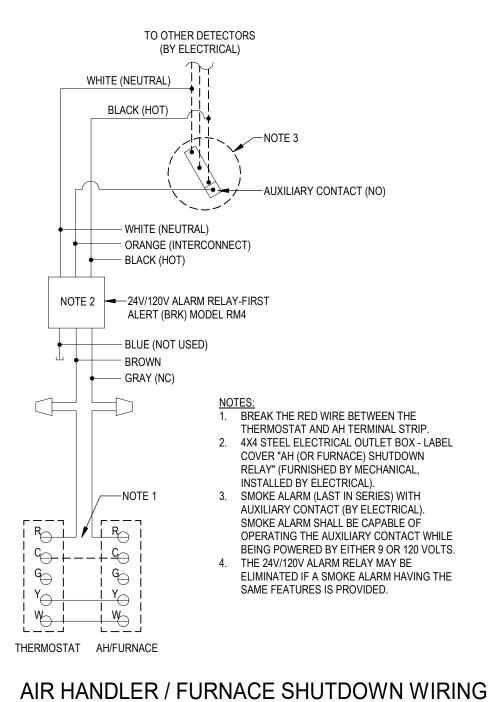
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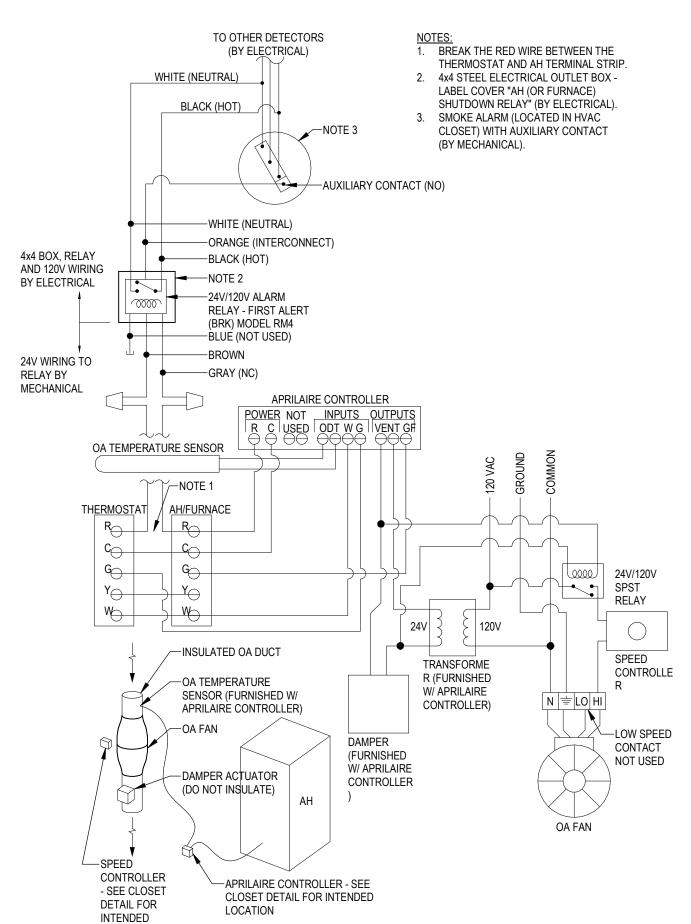
4275 Shackleford Road, Suite 200 ● Norcross, GA 30093 Drawn By: Author Checked By: Checker

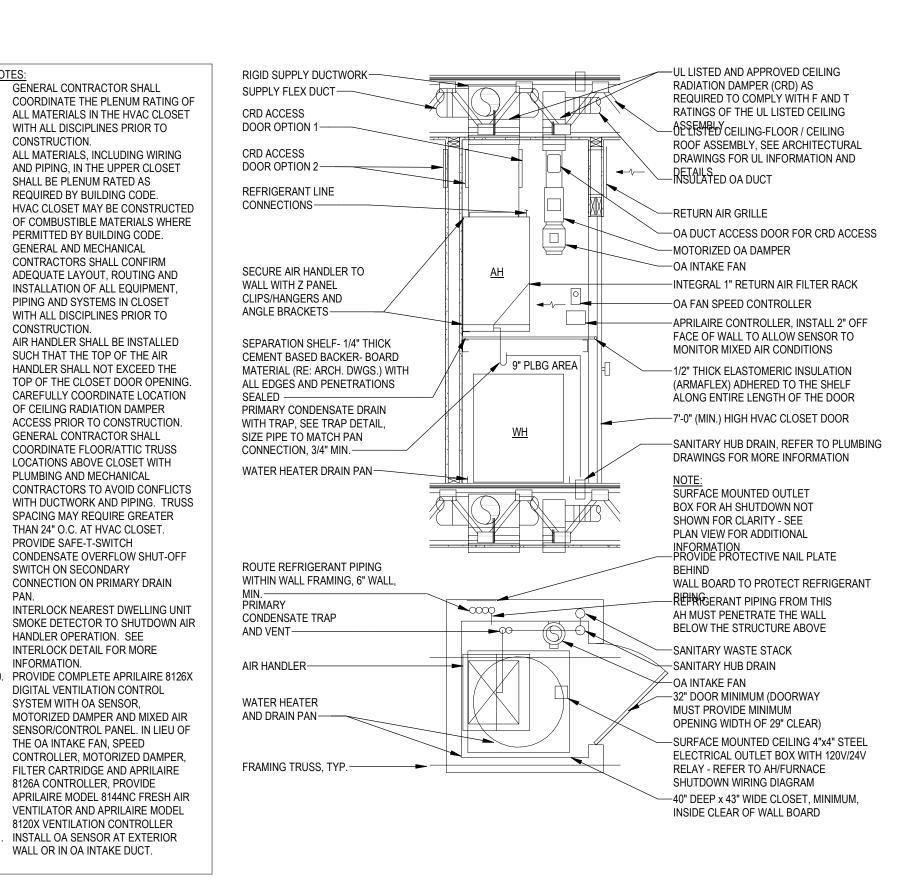
C - CLOSET



CEILING RADIATION DAMPER DETAIL







DWELLING UNIT VERTIAL AIR HANDLING UNIT DETAIL

CONSTRUCTION.

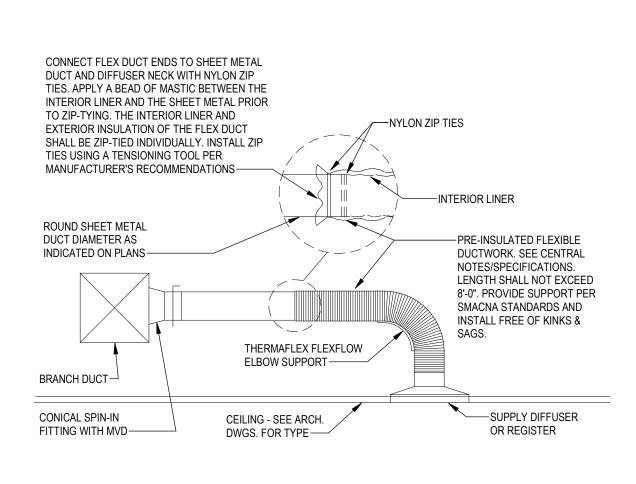
CONSTRUCTION.

PROVIDE SAFE-T-SWITCH

SWITCH ON SECONDARY

INFORMATION.

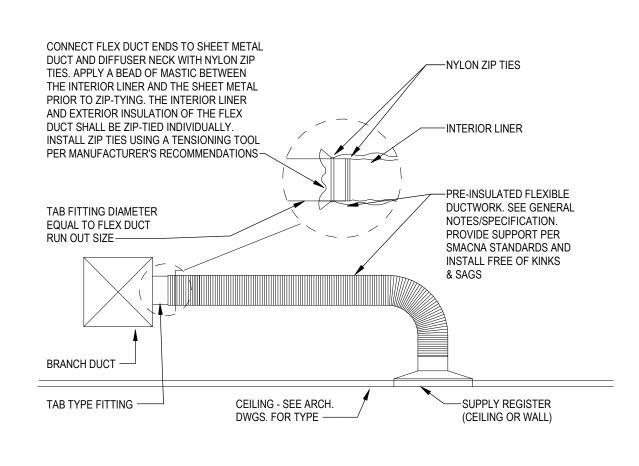
APRILAIRE CONTROLLER WIRING DIAGRAM



1. TAPES AND MASTICS USED TO SEAL FIBROUS GLASS DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181 A-P" FOR PRESSURE-SENSITIVE TAPE, "181 A-M" FOR MASTIC OR "181 A-H" FOR HEAT-SENSITIVE TAPE.

- 2. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M"
- 3. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C".

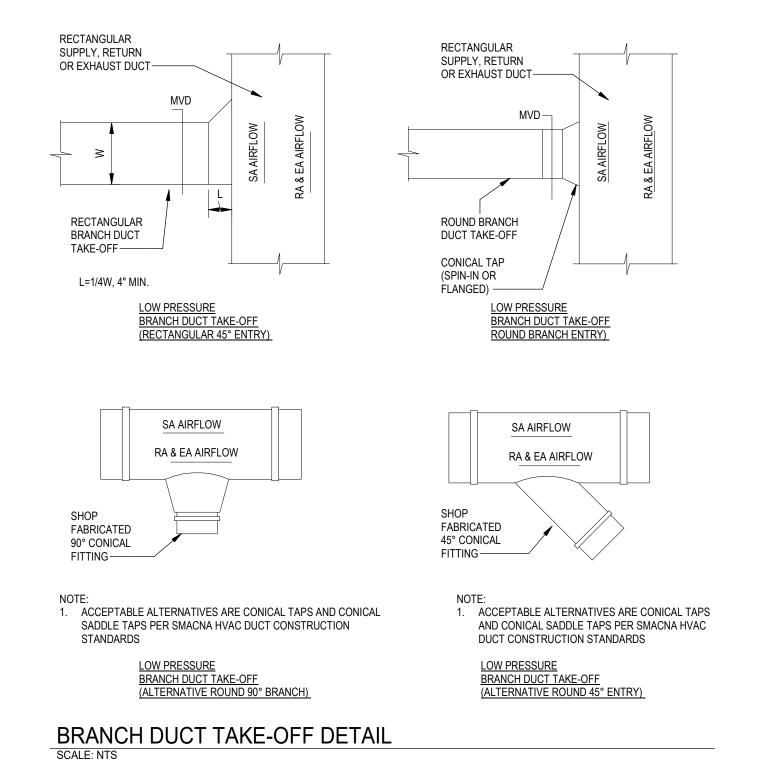
COMMERCIAL FLEXIBLE DUCT TAKE-OFF DETAIL

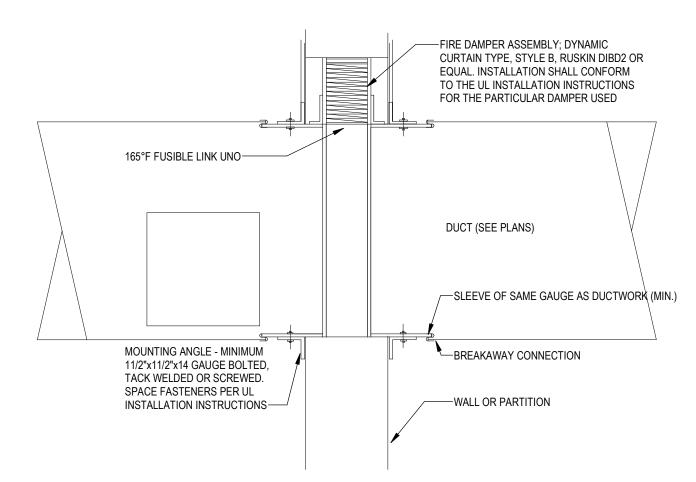


NOTES:

- 1. TAPES AND MASTICS USED TO SEAL FIBROUS GLASS DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181 A-P" FOR PRESSURE-SENSITIVE TAPE, "181 A-M" FOR MASTIC OR "181 A-H" FOR HEAT-SENSITIVE TAPE.
- 2. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR
- 3. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND

DWELLING UNIT FLEXIBLE DUCT TAKE-OFF DETAIL





1. STYLE A (BLADE STACK IN THE AIR STREAM) WILL BE CONSIDERED AS AN ALTERNATE ONLY IF THERE IS INSUFFICIENT SPACE TO MOUNT THE STYLE B DAMPER. SUBMIT SUPPORTING DATA FOR ENGINEER'S REVIEW.

2. FDs SHALL HAVE A RATING COMPATIBLE WITH THE WALL OR PARTITION, SHALL BE TESTED IN ACCORDANCE WITH UL555 AND BE LABELED FOR THE INTENDED LOCATION. FDs SHALL BE RATED FOR 11/2 HOURS UNO. COORDINATE WITH ARCHITECTURAL DRAWINGS TO

3. IN WOOD CONSTRUCTION, GYPSUM WALLBOARD MUST COVER ALL WOOD STUD SURFACES. REFER TO UL INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.

4. ACCESS DOOR SHALL BE IN AN ACCESSIBLE LOCATION AND ARRANGED SUCH THAT THE FD CAN BE INSPECTED AND THE FUSIBLE LINK EASILY REPLACED. ACCESS DOORS MAY BE FACTORY MOUNTED. ACCESS DOORS IN MEDIUM PRESSURE (+4 IN. WG AND HIGHER) DUCT SYSTEMS SHALL BE THE IMPLOSION TYPE.

VERTICAL FIRE DAMPER DETAIL

Drawn By: Author Checked By: Checker



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Fax: 404.373.7372 www.sgnplusa.co Date Description Revisions

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Ft. Clarke, Florida

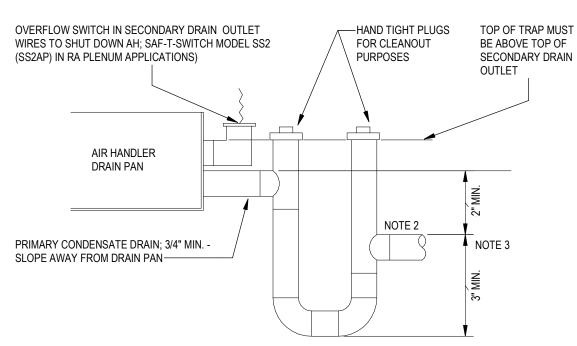
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Sheet Title: **DETAILS**

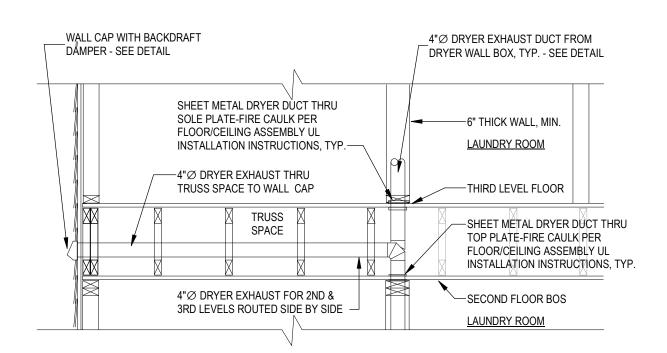
September 30, 2022

Sheet Number:

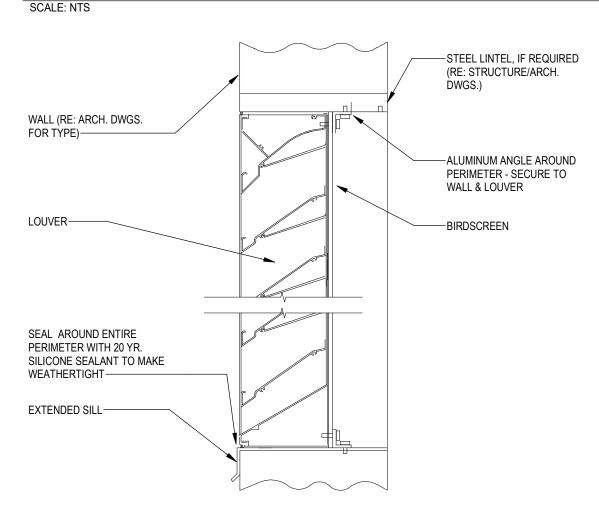


- 1. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM MUST MEET FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50.
- 2. SLOPE PIPING DOWN TOWARDS PLUMBING DRAIN AT A MINIMUM OF 1/4" PER FT. 3. TRAP HEIGHT DIMENSIONS ARE BASED ON GOODMAN MODEL ARUF. ADJUST AS REQUIRED PER INSTALLED EQUIPMENT
- MANUFACTURER'S RECOMMENDATIONS. 4. AS AN ALTERNATE TO THE OVERFLOW SWITCH IN THE SECONDARY DRAIN OUTLET, THE AIR HANDLER MAY HAVE A FLOAT SWITCH IN THE PRIMARY DRAIN PAN.

RESIDENTIAL CONDENSATE DRAIN TRAP DETAIL (GENERIC)

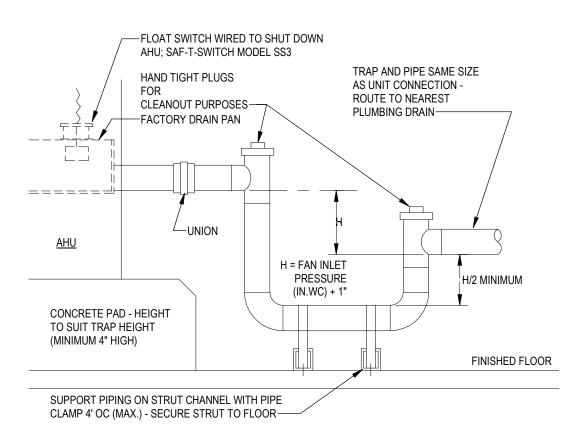


DRYER EXHAUST ROUTING DATAIL



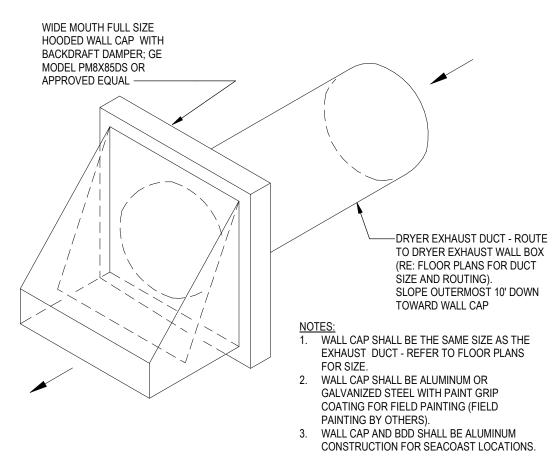
NOTES:
1. ARCH. DWGS. AND MANUFACTURER INSTALLATION INSTRUCTIONS SUPERCEDE THIS DETAIL.

WALL LOUVER DETAIL

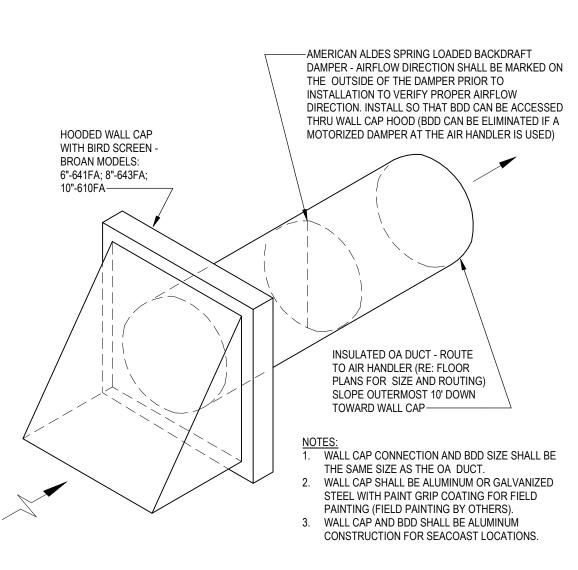


- 1. SLOPE PIPING DOWN TOWARDS PLUMBING DRAIN AT 1/8" PER FOOT.
- . RUNNING TRAPS ARE NOT ALLOWED B. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM MUST MEET FLAME SPREAD/SMOKE DEVELOPED RATINGS
- 4. TEST THE FLOAT SWITCH IN THE DRAIN PAN FOR PROPER OPERATION AT LEAST ONCE A YEAR.

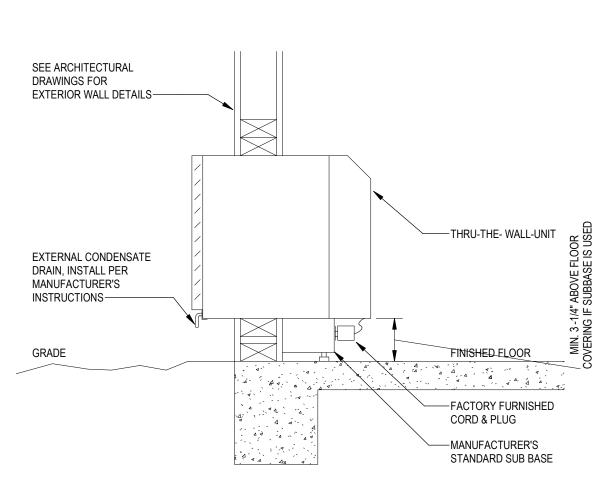
CONDENSATE DRAIN TRAP DETAIL



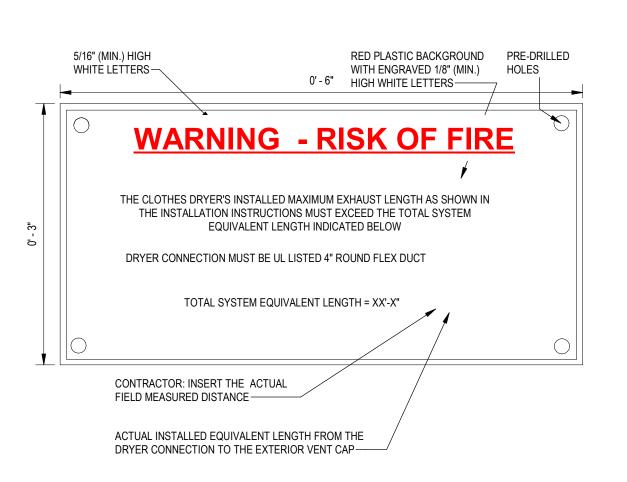
DRYER EXHAUST WALL CAP DETAIL



OUTSIDE AIR INTAKE WALL CAP

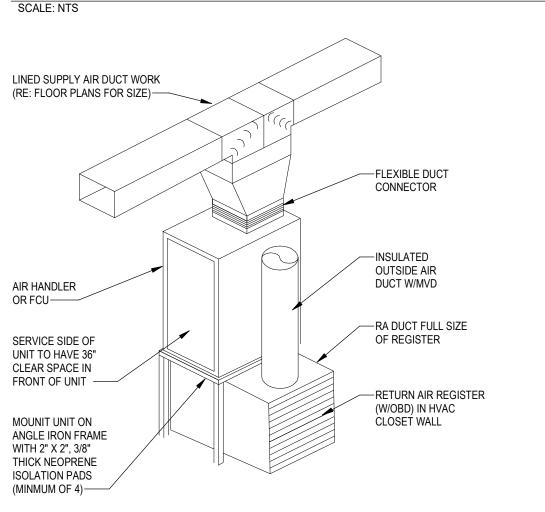


PACKAGED TERMINAL AIR CONDITIONER DETAIL

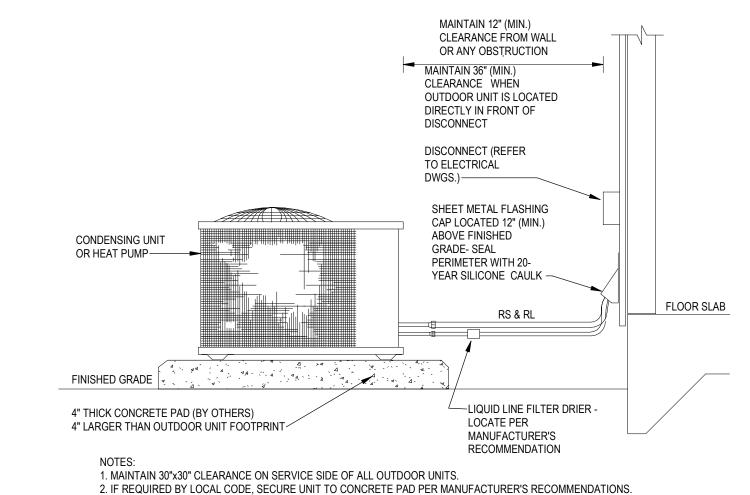


1. PERMANENTLY AFFIX THE LABEL IN A CONSPICUOUS LOCATION WITHIN SIX (6) LINEAL FEET OF THE EXHAUST 2. LABEL ABOVE IS SHOWN AS A GUIDELINE ONLY. ALTERNATE DESIGNS MAY BE SUBMITTED FOR REVIEW (SUCH AS THOSE MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC. - www.dryerplacard.com).

DRYER EXHAUST VENT WARNING LABEL



VERTICAL GAS - FIRED FURNACE DETAIL



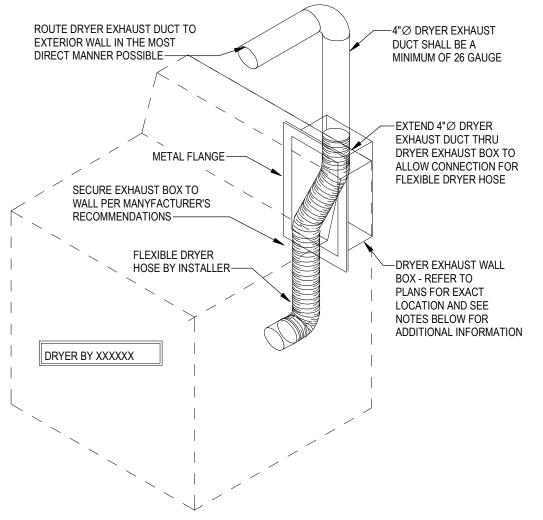
GRADE MOUNTED OUTDOOR UNIT DETAIL ON CONCRETE PAD

4. ALL REFRIGERANT LINE SET PENETRATIONS SHALL BE LOCATED AT THE SAME ELEVATION AROUND THE BUILDING.

3. SEAL SPACE BETWEEN PIPING AND FLASHING CAP WEATHER TIGHT WITH EXPANDING FOAM INSULATION.

5. ALL ELECTRICAL DISCONNECTS SHALL BE LOCATED AT THE SAME ELEVATION AROUND THE BUILDING

(COORDINATE WITH ELECTRICAL CONTRACTOR).



1. DRYER EXHAUST BOX MODEL 425 AS MANUFACTURED BY IN-O-VATE TECHNOLOGIES; LISTED FOR 1-HR (F AND T RATINGS) WALL INSTALLATION; UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. W-L-7129. USE FOR UPWARD EXHAUST DIRECTION AND DOWNWARD EXHAUST DIRECTION ONLY FOR PEDESTAL AND STACKING DRYERS. FOR DOWNWARD EXHAUST DIRECTION USE THE MODEL 4D (EXCEPT FOR PEDESTAL AND STACKABLE DRYERS). INSTALLATION REQUIRES THE SPACES BETWEEN THE SIDES OF THE BOX AND THE STUDS AND THE SPACE IMMEDIATELY ABOVE THE BOX TO BE TIGHTLY PACKED WITH GLASS FIBER BATT OR MINERAL WOOL BATT INSULATION. REFER TO UL INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.

4. INSTALL 16 GA STEEL SHIELD PLATES AT THE FINISHED FACE OF FRAMING MEMBERS WHERE THERE IS LESS THAN

11/4" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING. SHIELD PLATES SHALL EXTEND 2" ABOVE

DRYER EXHAUST WALL BOX DETAIL

SOLE PLATES AND 2" BELOW TOP PLATES.

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Date Description Revisions

Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments Residences, LLC

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Date:

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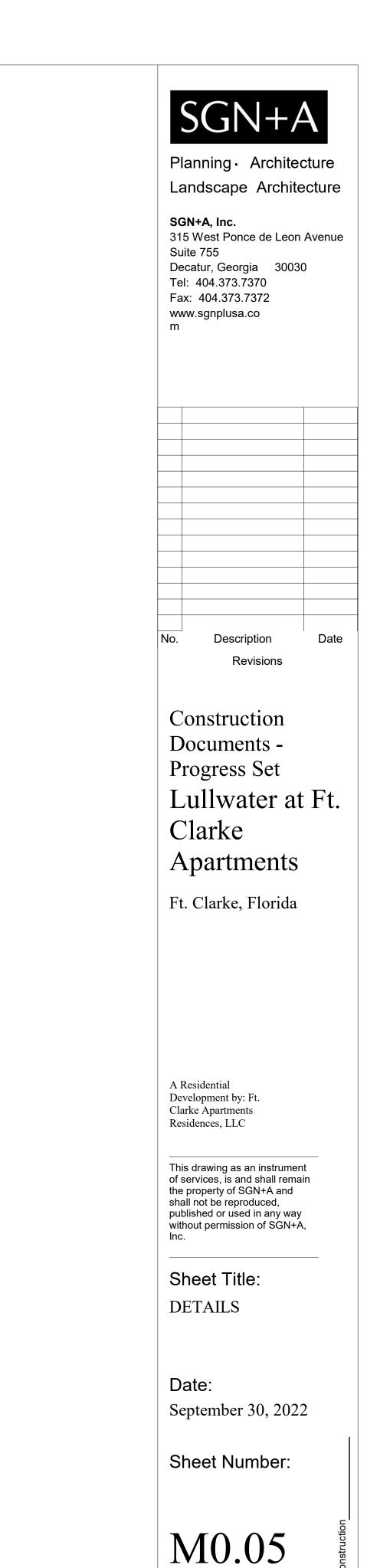
September 30, 2022

M0.04

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Drawn By: Author Checked By: Checker

Project Number: 22010515

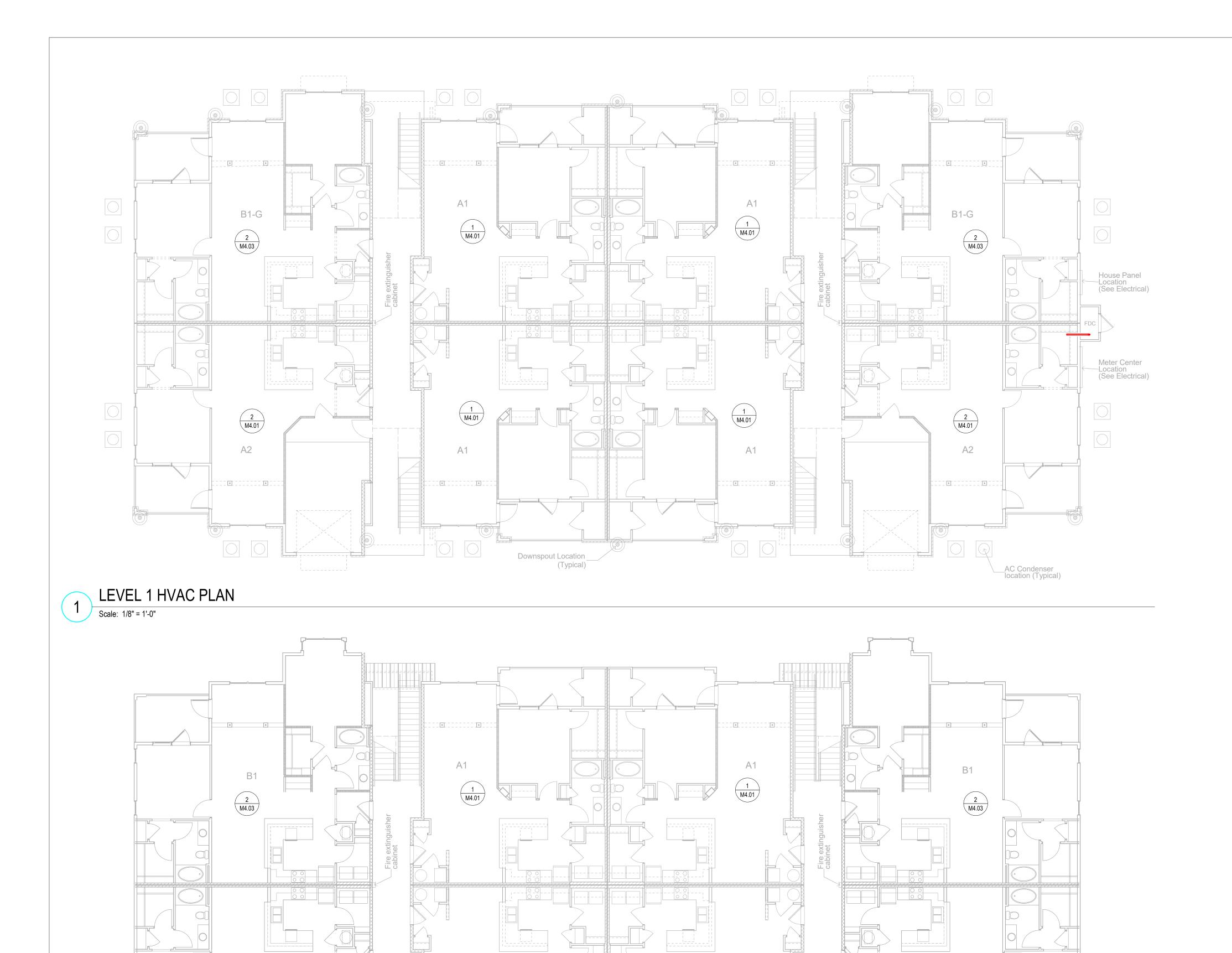


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Not Delegad for Construction



A1

Metal roof & _ beam below



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Description [

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Construction
Documents Progress Set
Lullwater at Ft.
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Apartments

Ft. Clarke, Florida

A Residential
Development by: Ft.
Clarke Apartments
Residences, LLC

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BUILDING PLANS, TYPE I, FIRST & SECOND LEVEL PLANS Date:

September 30, 2022

Sheet Number:

M2.01

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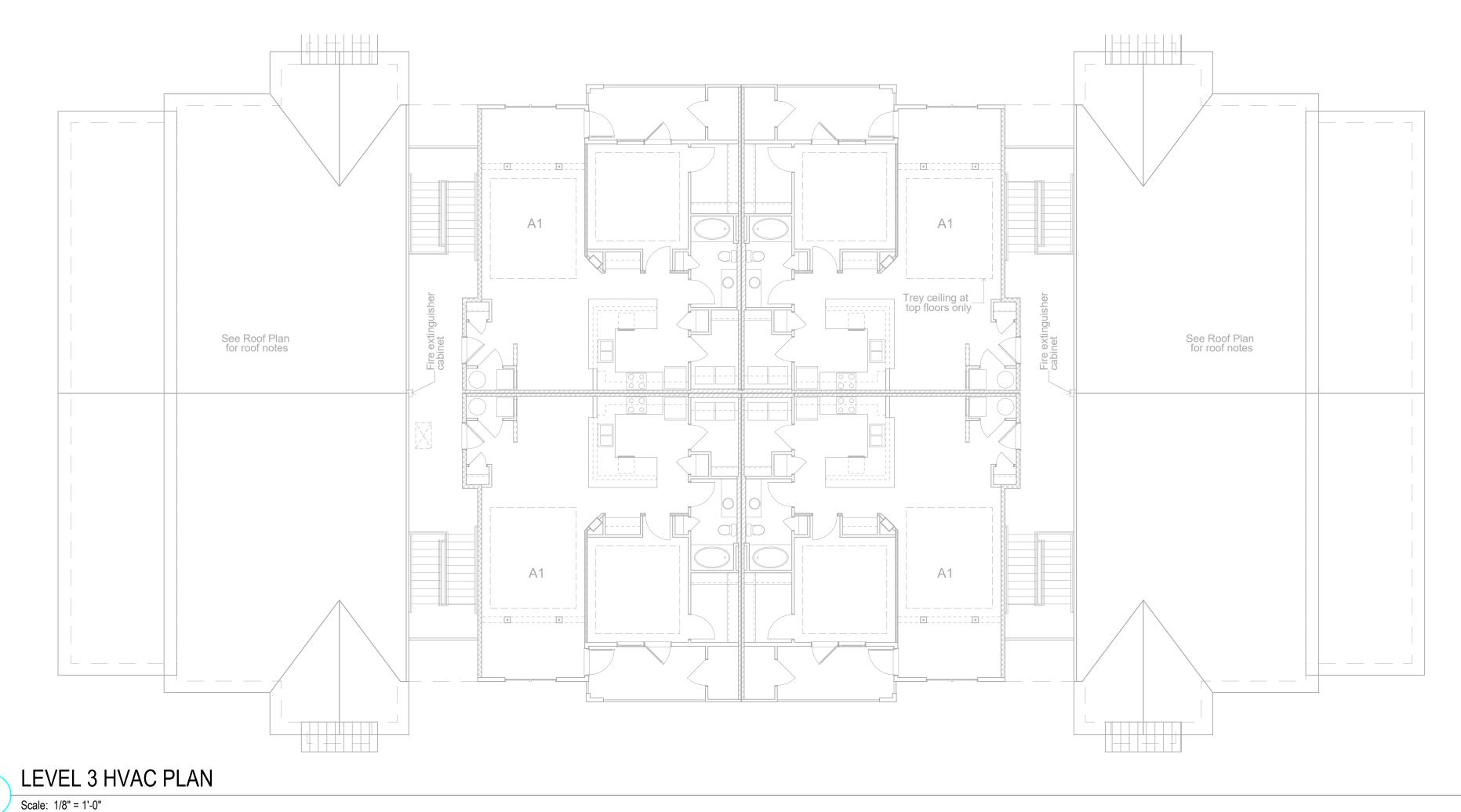
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Project Number: 22010515 Drawn By: Author Checked By: Checker

2 M4.01

A1



Zone 2 Zone 1 Zone 1 6:12 6:12 Draftstopping to _underside of roof deck & extended thru soffit to fascia Continuous Ridge Vent 23' 23' 9' 22"x60" Self closing _compartment access. Roof at FDC below 6:12 6:12 6:12 Zone 2



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BUILDING PLANS, TYPE I, THIRD LEVEL PLAN & ROOF PLAN Date:

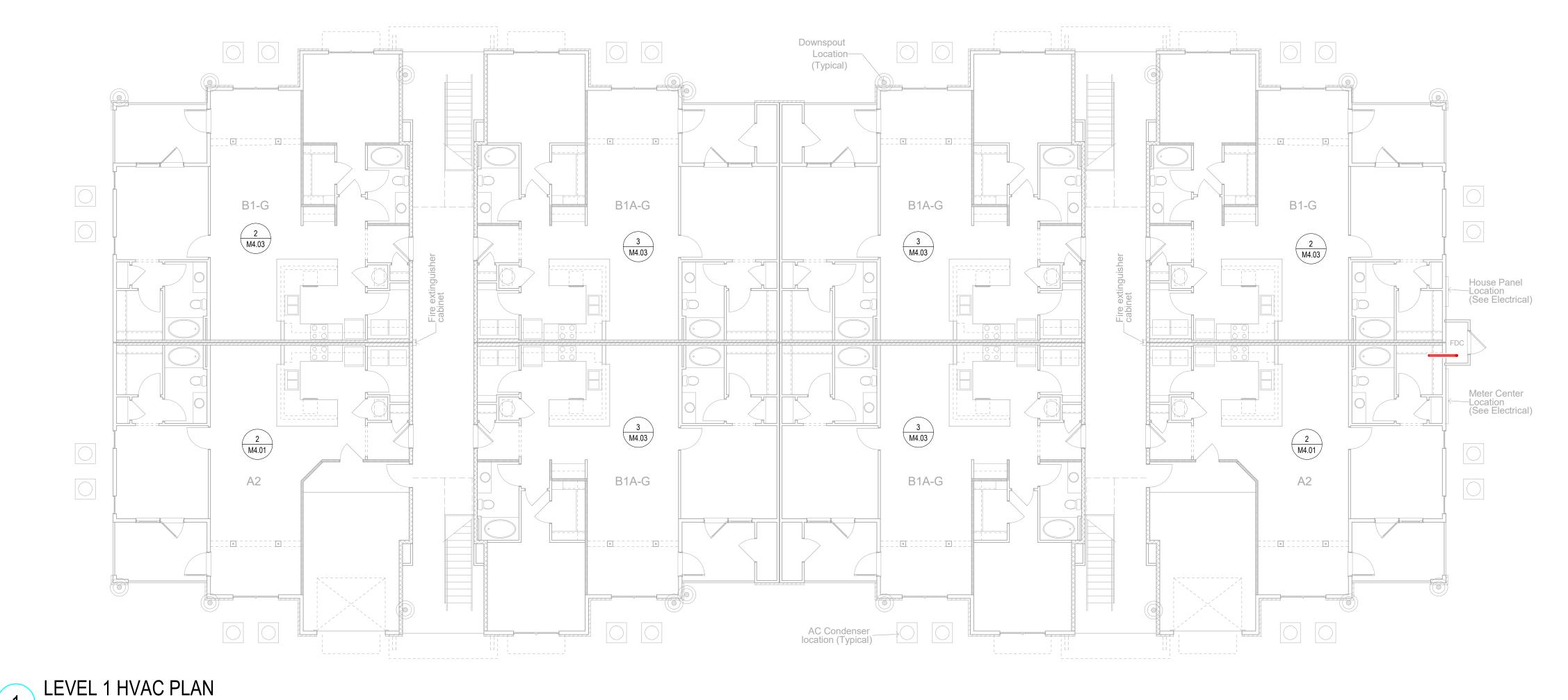
September 30, 2022

Sheet Number:

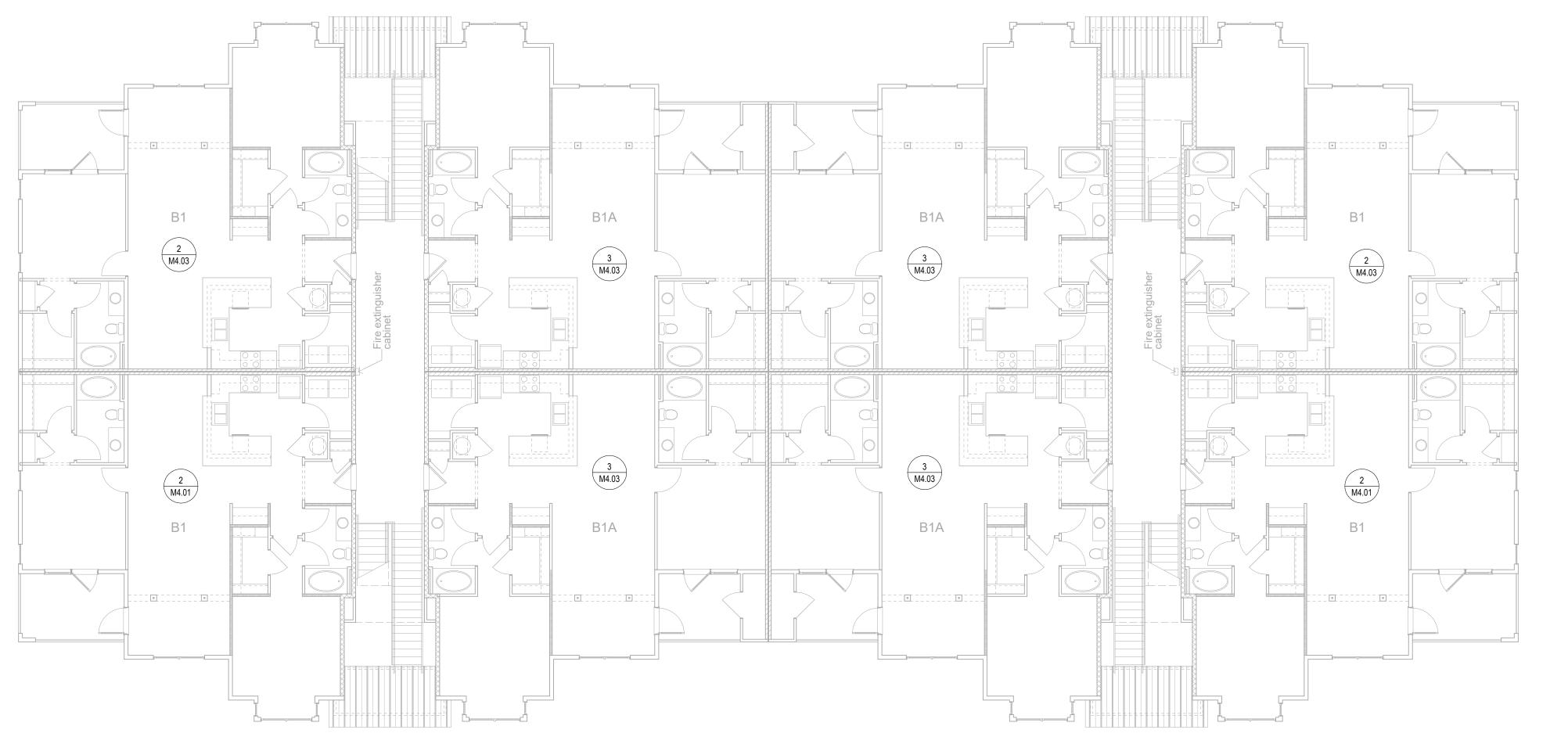
M2.02

ROOF MECHANICAL PLAN Scale: 1/8" = 1'-0"





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



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Sheet Title:

BUILDING PLANS, TYPE II, FIRST & SECOND LEVEL **PLANS** Date:

September 30, 2022

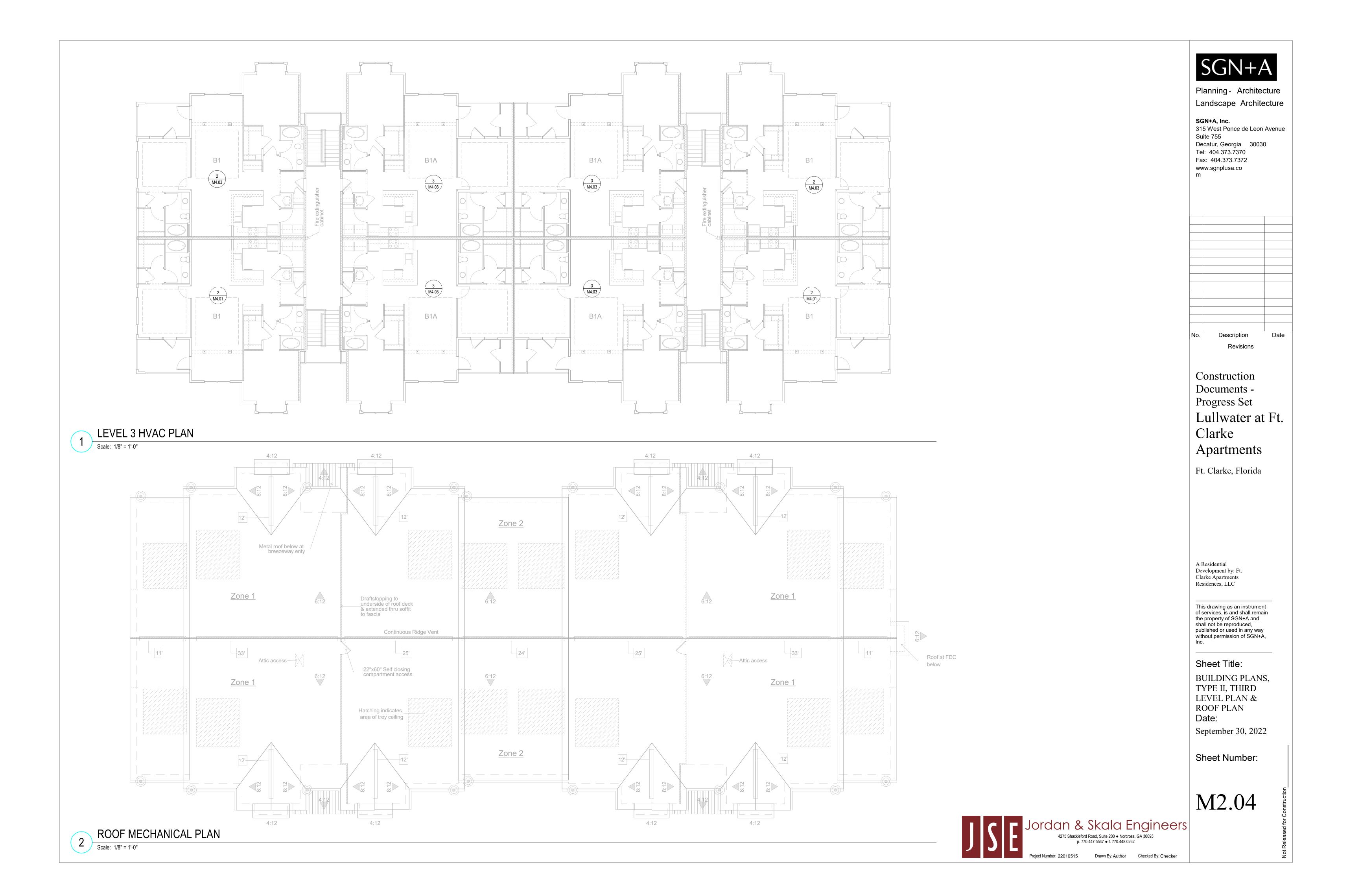
Sheet Number:

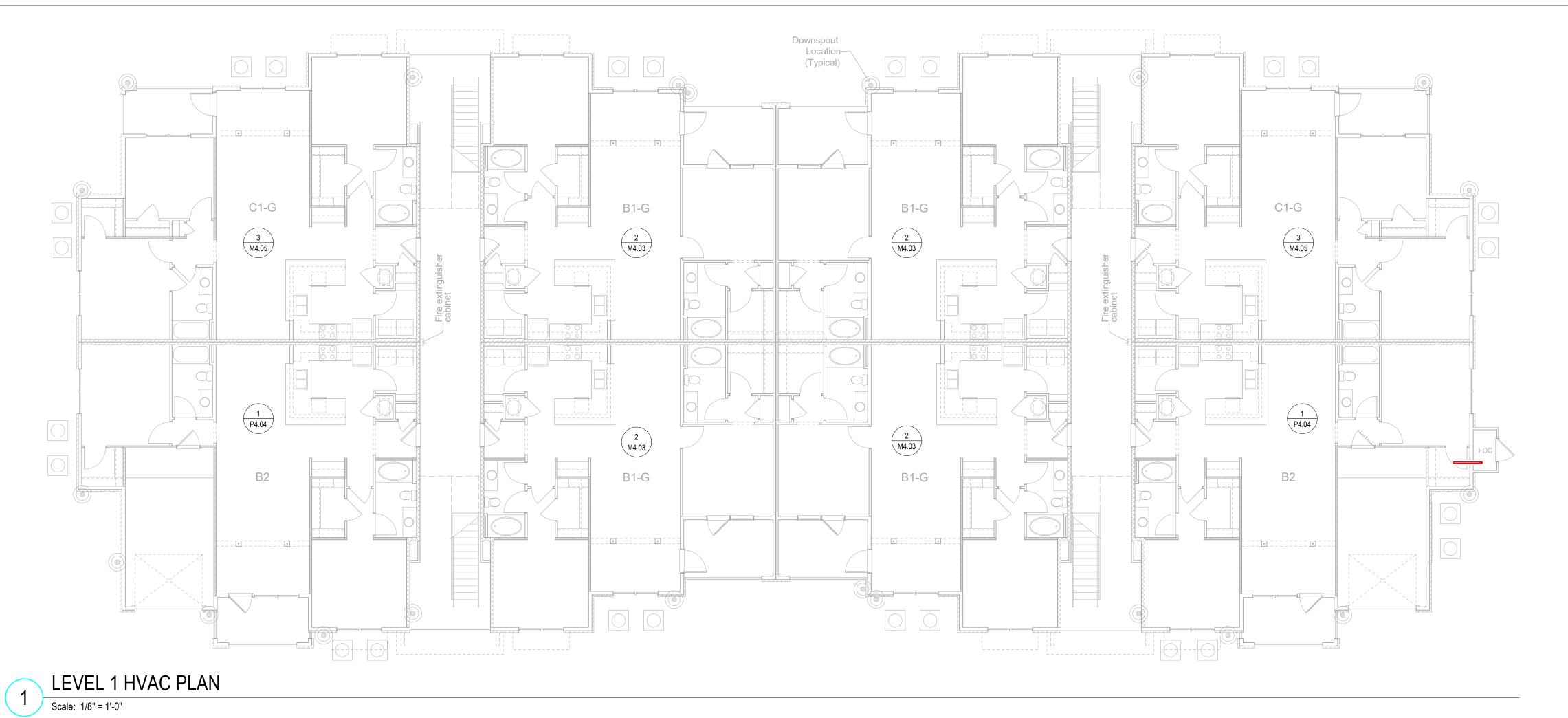
M2.03

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LEVEL 2 HVAC PLAN Scale: 1/8" = 1'-0"





LEVEL 2 HVAC PLAN

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

CIA BI BI BI CIA CIA

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Lullwater at Ft.
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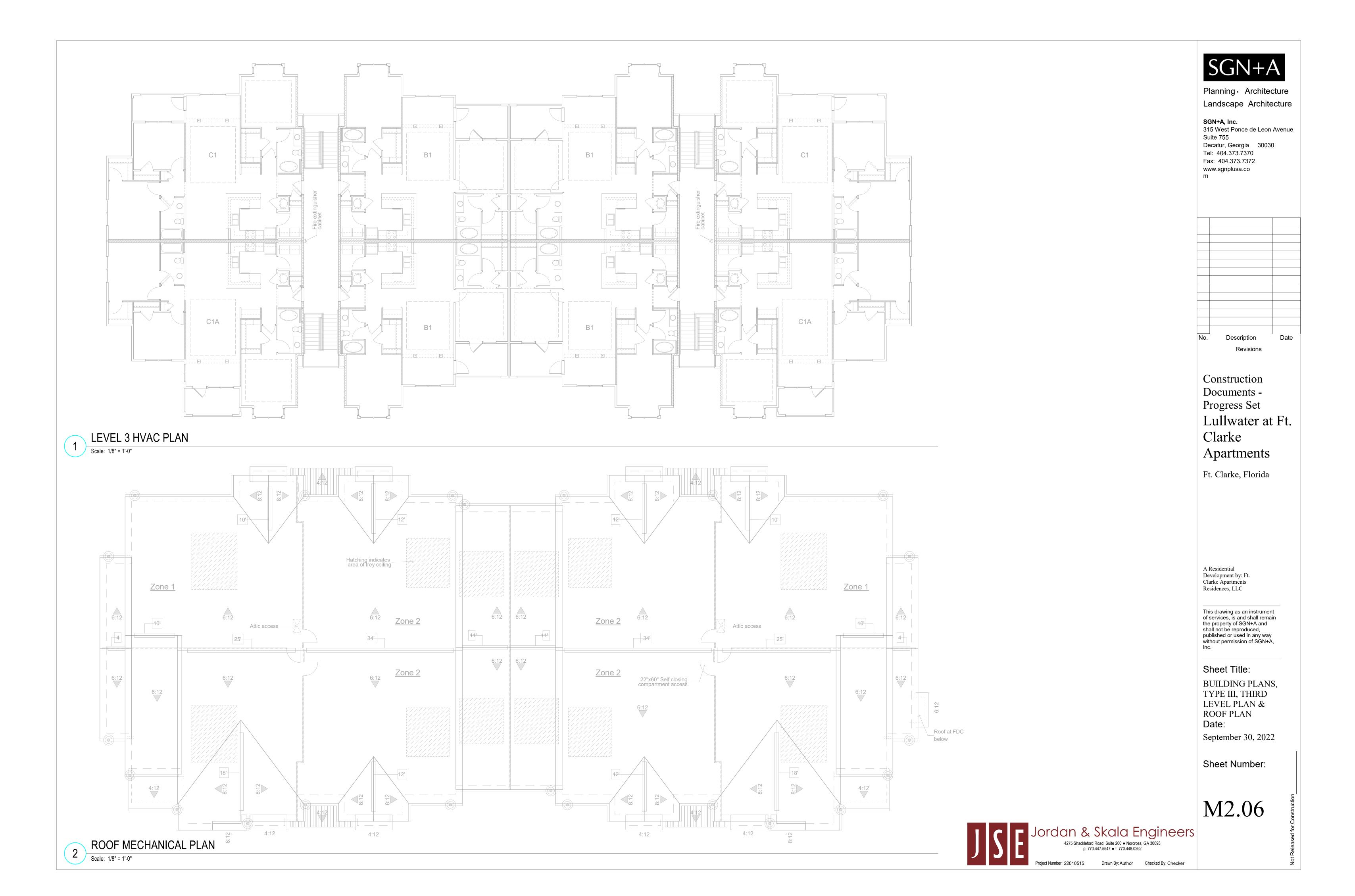
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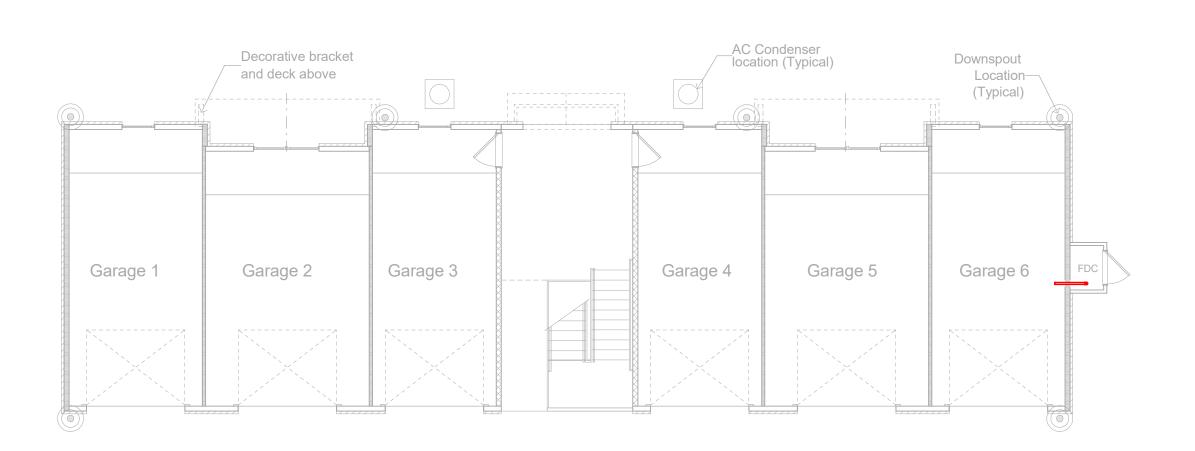
BUILDING PLANS, TYPE III, FIRST & SECOND LEVEL PLANS Date:

September 30, 2022

Sheet Number:

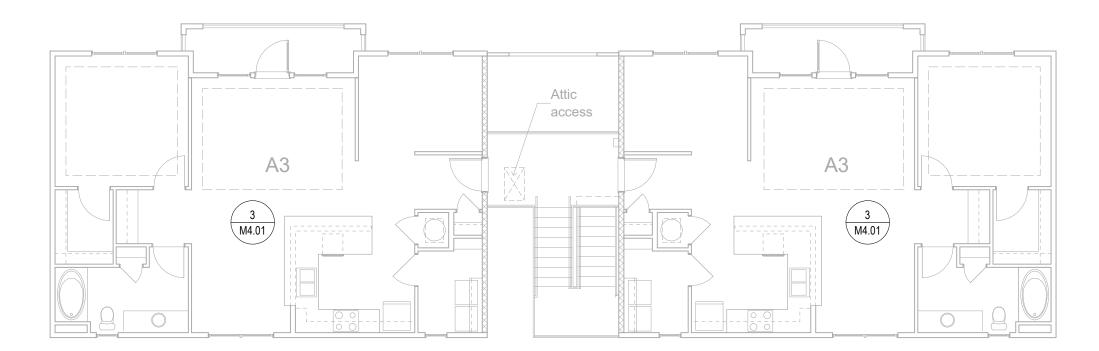
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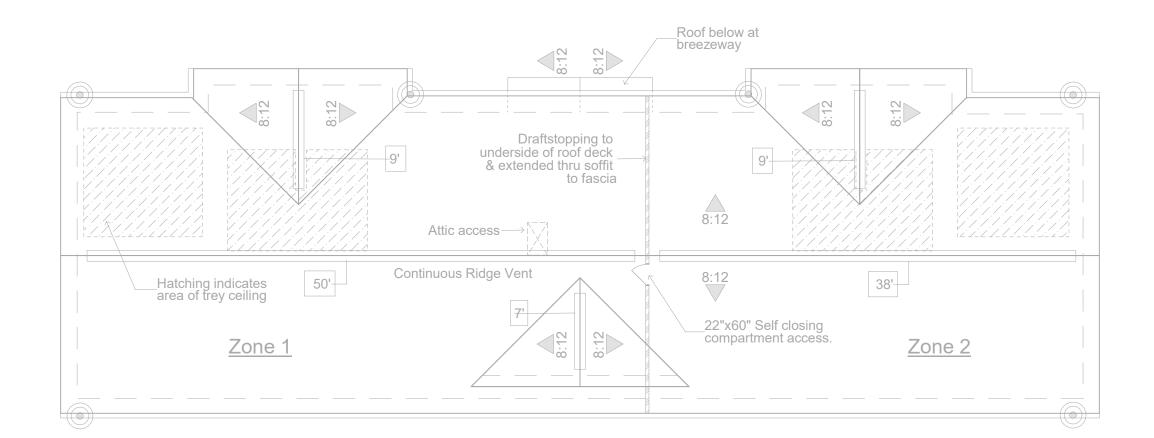
LEVEL 1 HVAC PLAN

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



3 LEVEL 2 HVAC PLAN

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

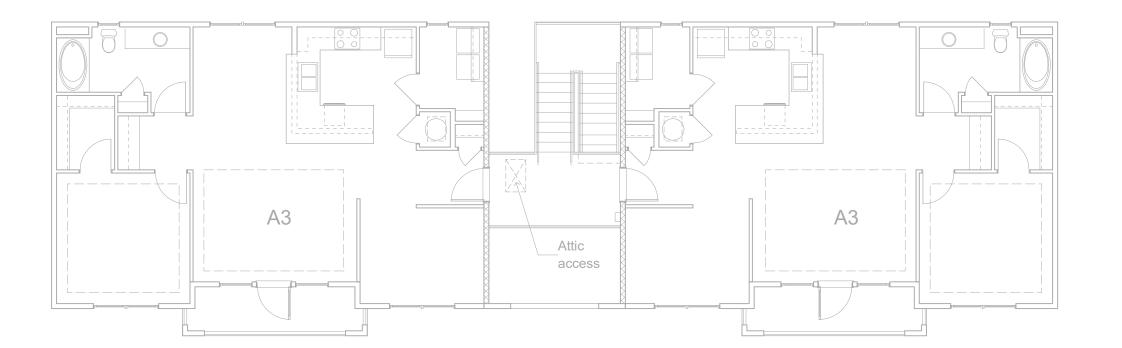


ROOF MECHANICAL PLAN

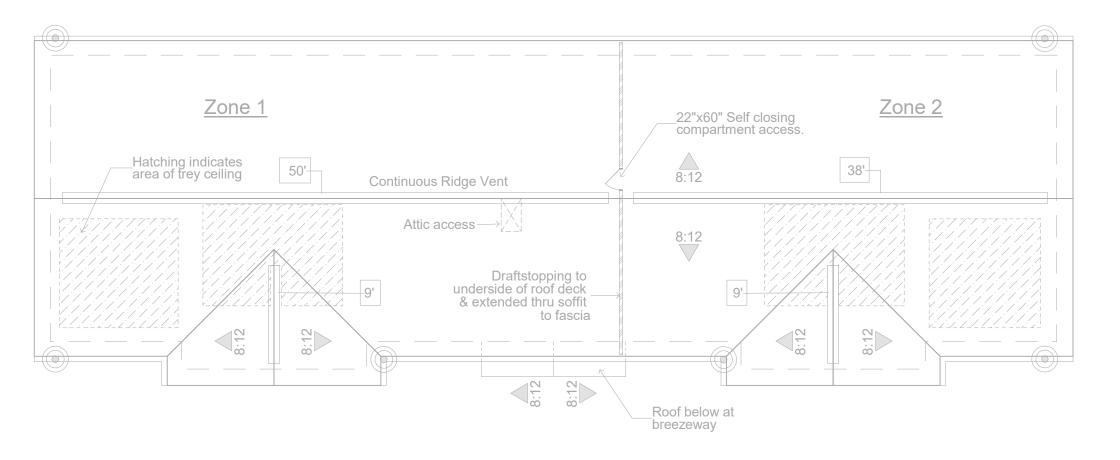
Scale: 1/8" = 1'-0"

Garage 1 Garage 2 Garage 3 Garage 4 Garage 5 Garage 6

2 LEVEL 1 HVAC PLAN



LEVEL 2 HVAC PLAN



ROOF MECHANICAL PLAN

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Sheet Title:

BUILDING PLANS, TYPE IV, FIRST & SECOND LEVEL PLANS & ROOF PLAN

September 30, 2022

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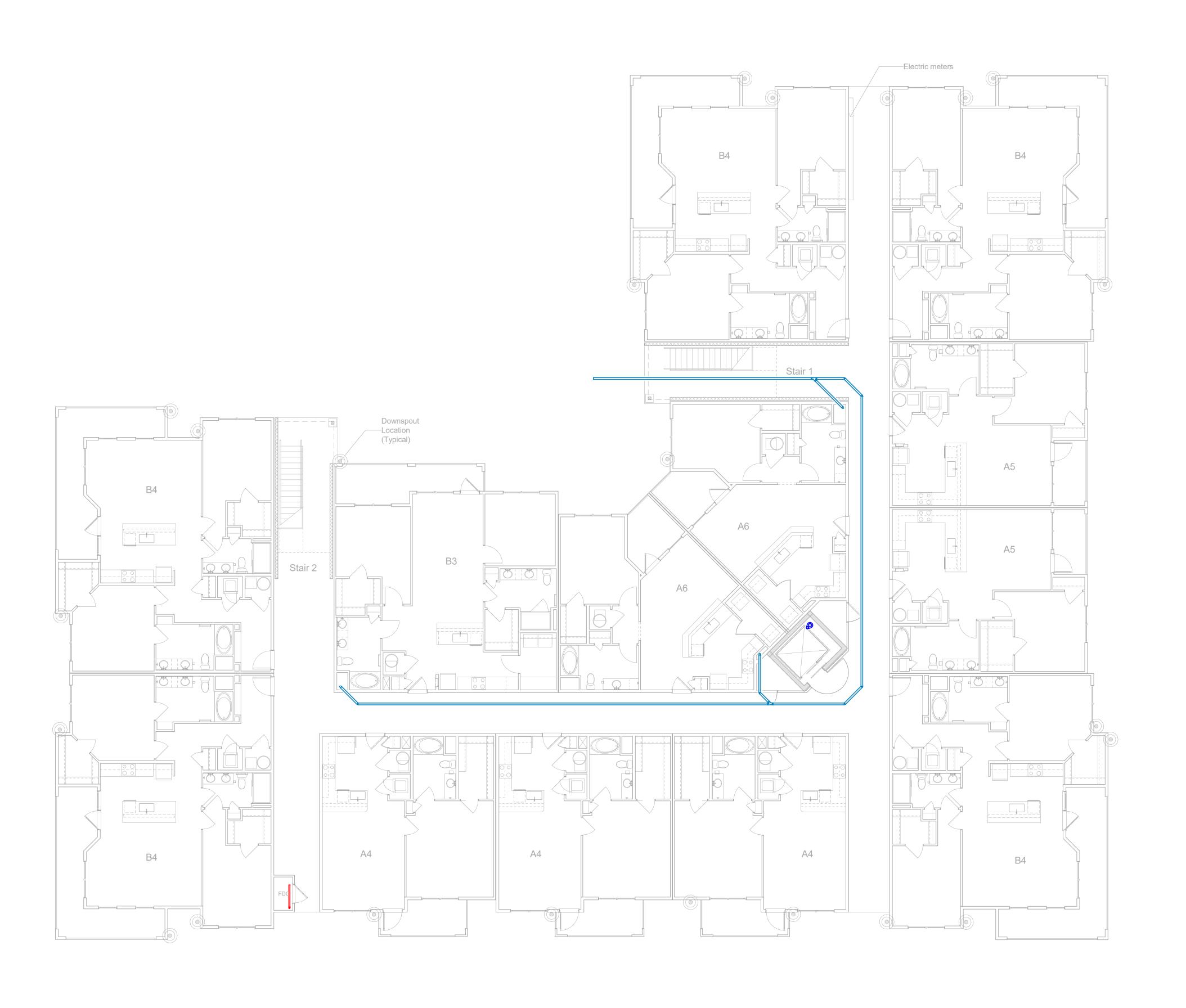
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BUILDING PLAN, TYPE V, FIRST LEVEL PLAN

Date:

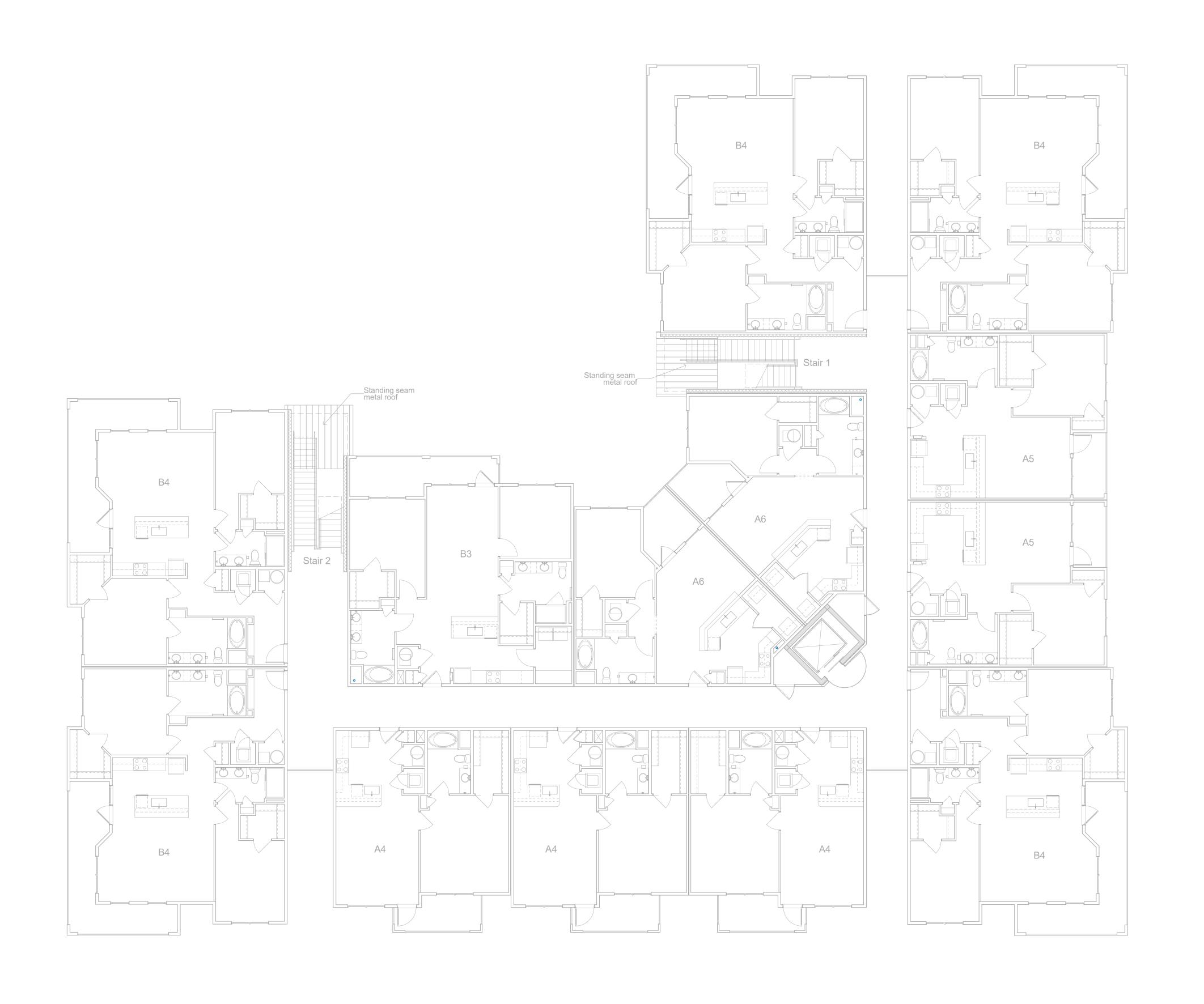
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BUILDING PLAN, TYPE V, SECOND LEVEL PLAN

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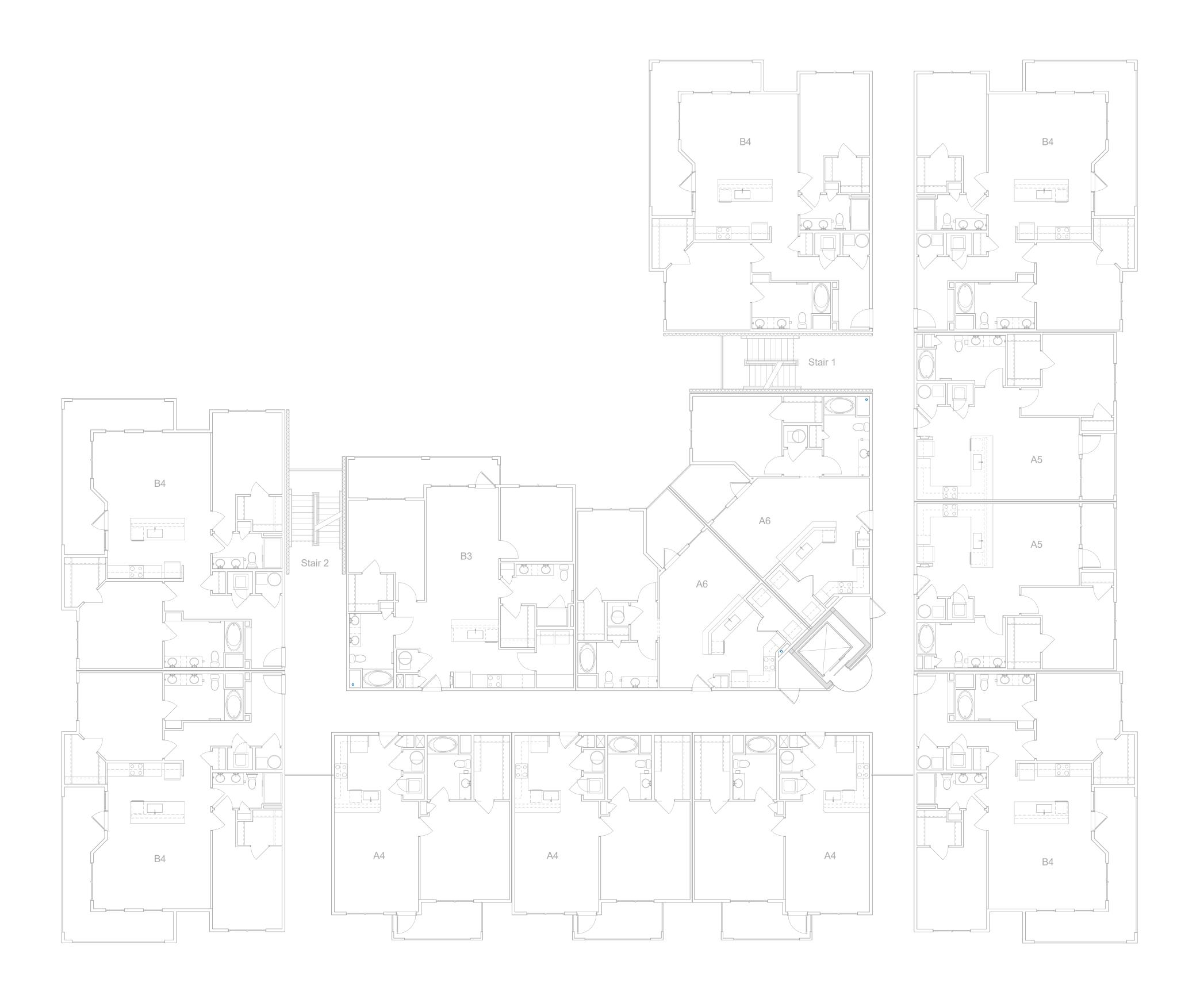
M2.09

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

LEVEL 2 HVAC PLAN







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BUILDING PLAN, TYPE V, THIRD LEVEL PLAN

Date:

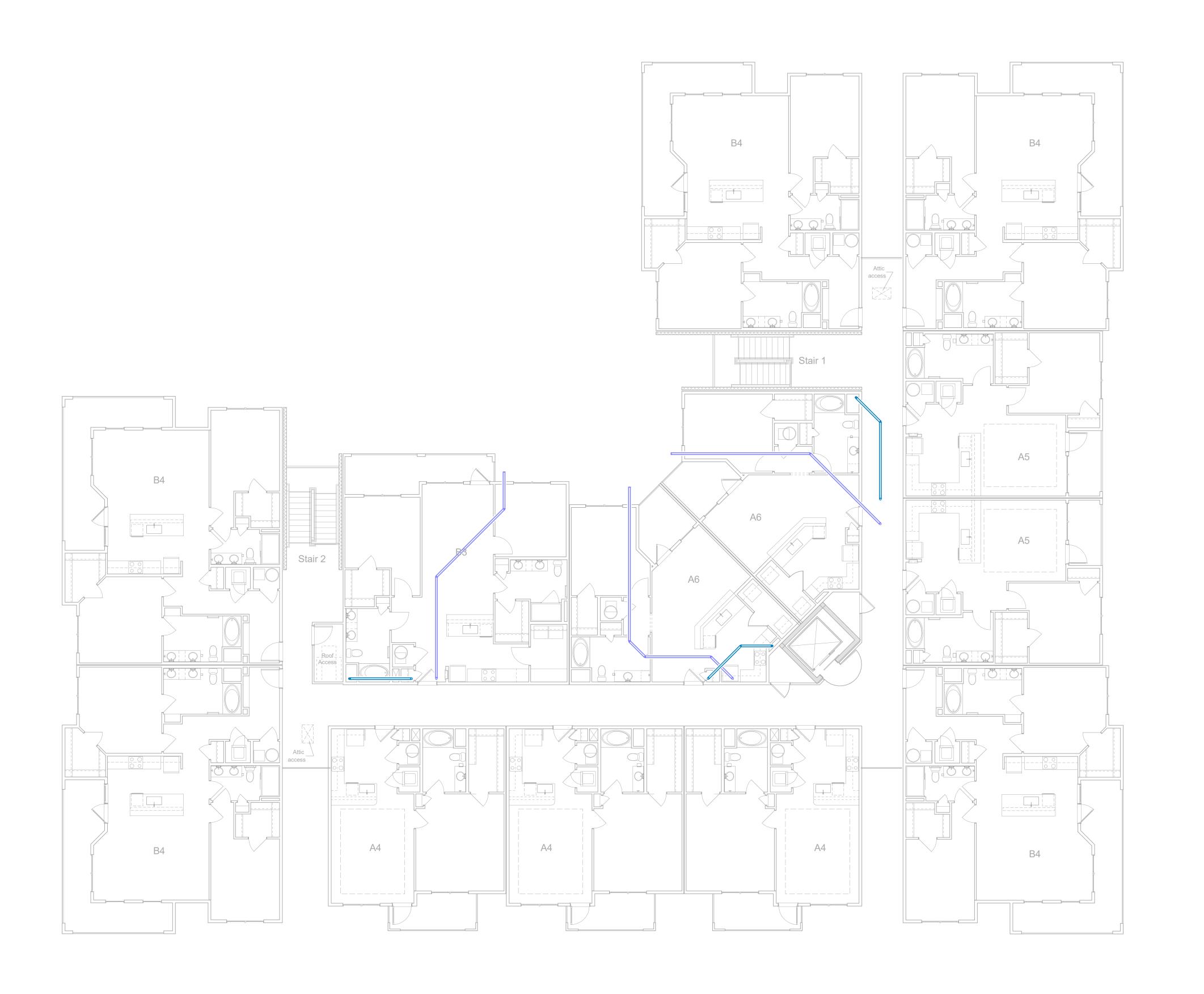
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LEVEL 3 HVAC PLAN







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Sheet Title:

BUILDING PLAN, TYPE V, FOURTH LEVEL PLAN

Date:

September 30, 2022

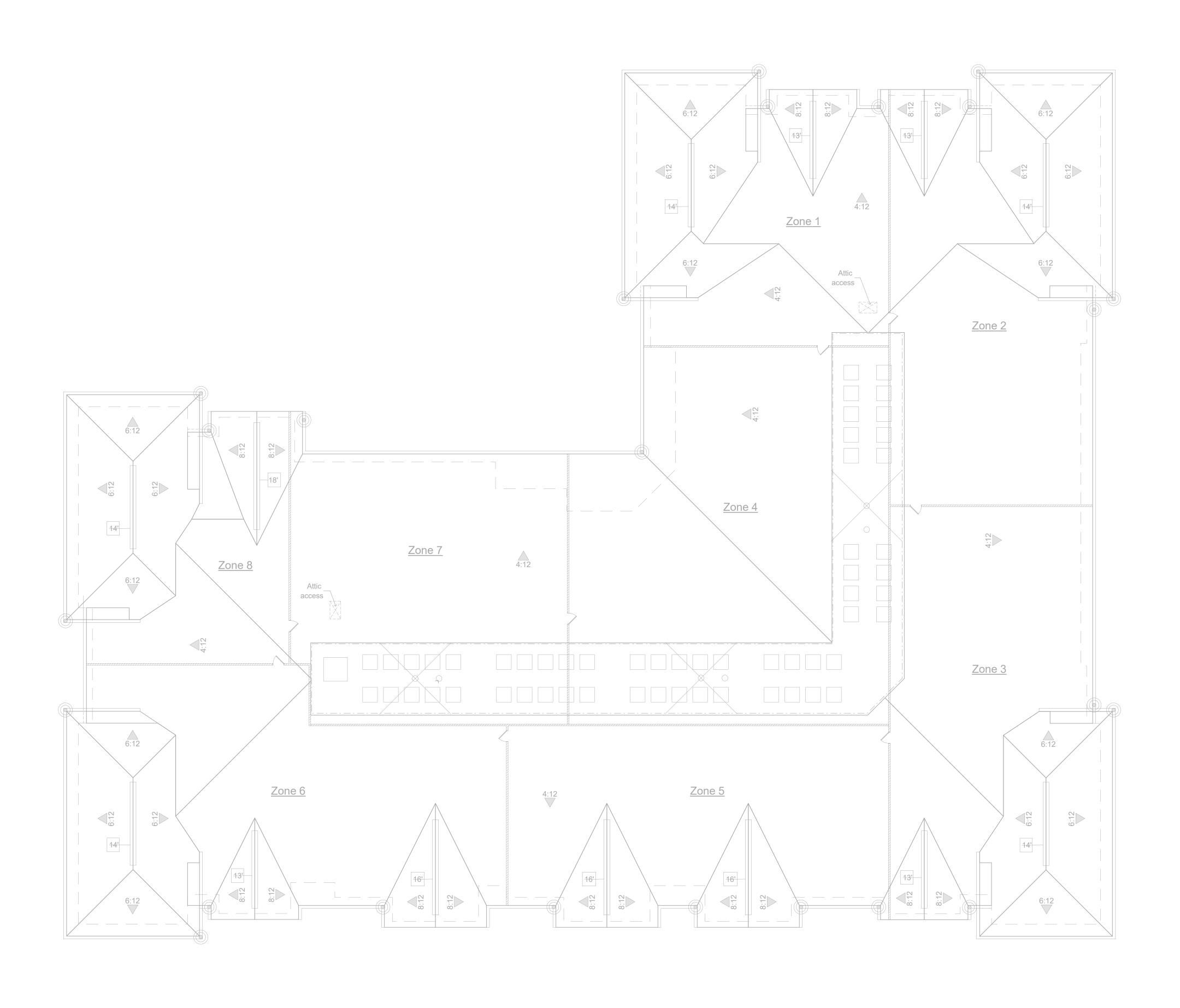
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Documents Progress Set
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BUILDING PLAN, TYPE V, ROOF PLAN

Date:

September 30, 2022

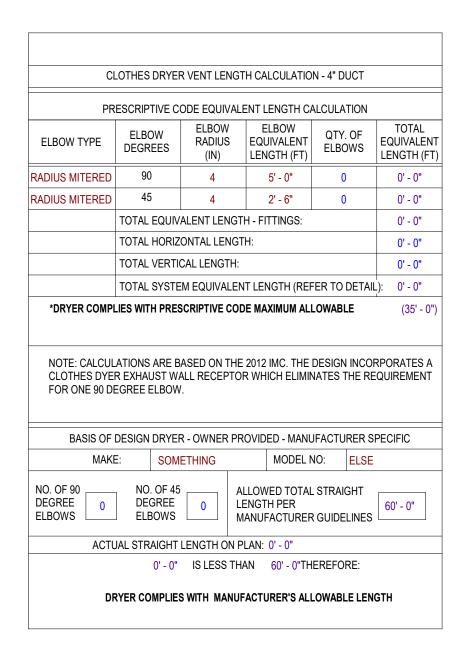
Sheet Number:

M2.12

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1 ROOF MECHANICAL PLAN
Scale: 1/8" = 1'-0"





CRD 📥

Living

Sunroom

CI	OTHES DRYE	R VENT LENG	TH CALCULATIO	N - 4" DI	ICT				
PR	ESCRIPTIVE C	ODE EQUIVA	LENT LENGTH CA	ALCULA	TION				
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. ELBC		TOTAL EQUIVALENT LENGTH (FT)			
RADIUS MITERED	90	4	5' - 0"	0		0' - 0"			
RADIUS MITERED	45 4 2' - 6" 0 0' - 0"								
	TOTAL EQUIVALENT LENGTH - FITTINGS: 0' - 0"								
	TOTAL HORIZ	ONTAL LENG	TH:			0' - 0"			
	TOTAL VERTI	CAL LENGTH				0' - 0"			
	TOTAL SYSTE	M EQUIVALE	NT LENGTH (REF	ER TO	DETAIL	.): 0' - 0"			
	R EXHAUST WA	ALL RECEPTO	E 2012 IMC. THE DR WHICH ELIMII						
BASIS OF	DESIGN DRYE	R - OWNER P	ROVIDED - MANU	JFACTU	RER SI	PECIFIC			
MAKE	E: SOM	ETHING	MODEL	NO:	ELSE				
NO. OF 90 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS ALLOWED TOTAL STRAIGHT LENGTH PER MANUFACTURER GUIDELINES 60' - 0"									
ACTU	ACTUAL STRAIGHT LENGTH ON PLAN: 0' - 0"								
	0' - 0" IS LESS THAN 60' - 0"THEREFORE:								
DRYER COMPLIES WITH MANUFACTURER'S ALLOWABLE LENGTH									

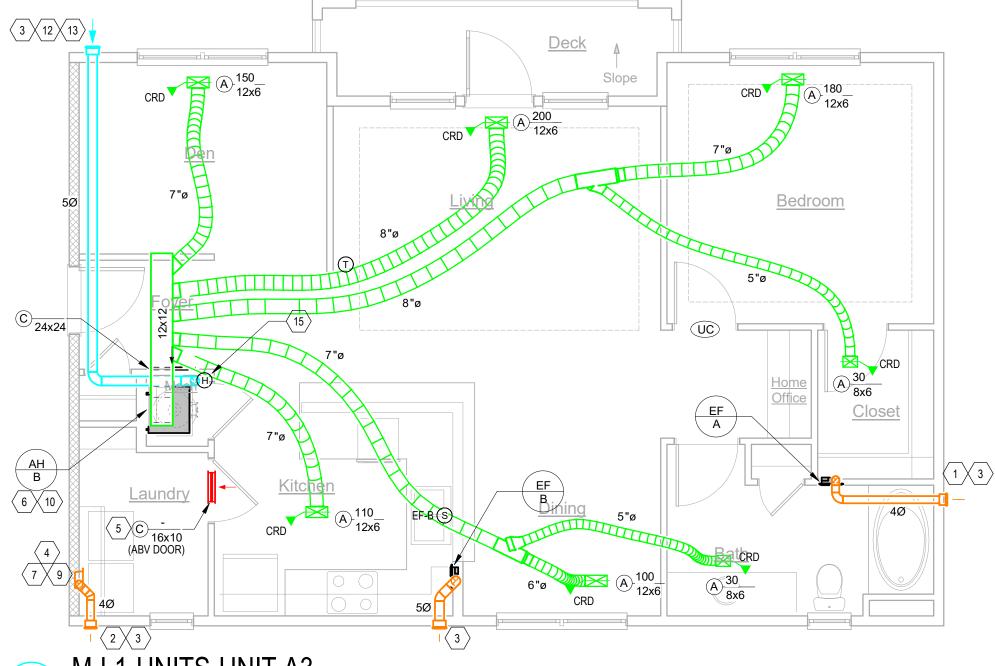
 $\begin{array}{c|c} \hline C & - \\ \hline 16x10 & 5 \end{array}$

3 ^{1/2}"Step

Slope

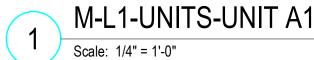
<u>Garage</u>

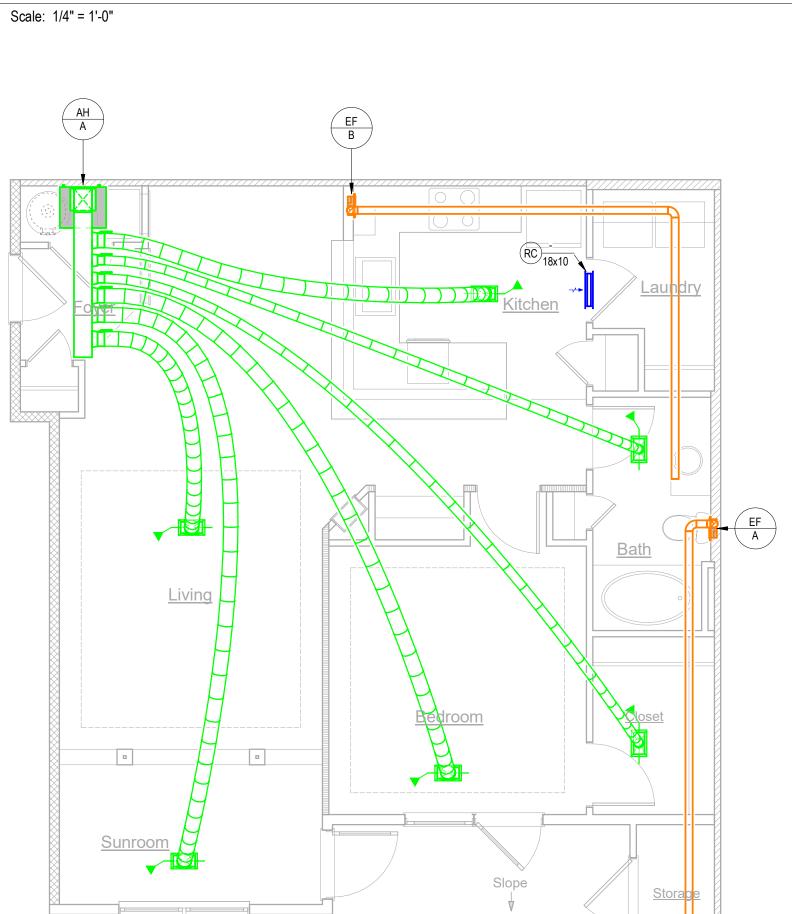
(ABV DOOR)



M-L1-UNITS-UNIT A3

Living





1	M-L1-UNITS-UNIT A1
	Scale: 1/4" = 1'-0"

NOTES: (THIS SHEET ONLY)

*ALL CELING MOUNTED DEVICES SHALL BE LOCATED PER THE ARCHITECTURAL REFLECTED CEILING PLANS. *COORDINATE ALL DUCT ROUTING QBOVE CEILING WITH THE STRUCTURE, LIGHTS, PLUMBING, AND SPRINKLER *ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRE STOPPED AS REQUIRED.

- 1 FOR TOILET EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4"Ø DUCT. FOR KITCHEN EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"Ø
- $\langle 2 \rangle$ FOR DRYER EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, AND 4"Ø DUCT. EXHAUST SHALL NOT BE OBSTRUCTED WITH SCREENS OR ANY FASTENERS EXTRUDING INTO THE PATH OF AIRFLOW.
- 3 ALL WALL CAPS AND VENTS SHALL BE MOUNTED AT THE SAME HEIGHT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN. PAINTABLE WALL CAPS, COLOR SELECTED BY THE ARCHITECT. (TYPICAL)
- 4 PROVIDE AND INSTALL WALL MOUNTED DRYER SIGN. INDICATE LENGTH OF DRYER DUCT AND NUMBER OF ELBOWS. SEE DRYER VENT WARNING SIGN DETAIL.
- (5) DRYER MAKEUP, GRILLES LOCATED ABOVE DOOR
- 6 3/4" CONDENSATE DRAIN WITH P-TRAP TO HUB DRAIN, SEE PLUMBING DRAWINGS
- IN A 6" WALL FOR DRYER CONNECTION. COORDINATE EXACT MOUNTING HEIGHT WITH DRYER DISCHARGE

POINT PRIOR TO ROUGH-IN. SEE DETAIL.

- 8 UNDER CUT DOOR
- 9 FIRE STOP, SEE DRYER VENT FLOOR CEILING ASSEMBLY
- CEILING RADIATION DAMPER AND ACCESS PANEL, SEE APARTMENT MECHANICAL CLOSET DETAIL.
- $\langle 11 \rangle$ RETURN GRILLE, MOUNT 12" ABOVE FINISHED FLOOR.
- (12) PROVIDE 5" INTAKE WALL CAP WITH INSECT SCREEN AND 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.
- UPPER LEVEL INTAKE VENT WILL UTILIZE GRILLE LOCATED IN SOFFIT.
- OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
- (15) APRILAIRE 8126A CONTROLLER, SEE DETAIL.

Cl	OTHES DRYE	R VENT LENG	TH CALCULATIO	N - 4" DU	СТ			
PR	ESCRIPTIVE C	ODE EQUIVAL	ENT LENGTH CA	ALCULAT	ION			
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. (ELBOV				
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"			
RADIUS MITERED 45 4 2' - 6" 0 0' - 0"								
	TOTAL EQUIVALENT LENGTH - FITTINGS: 0' - 0"							
	TOTAL HORIZ	ONTAL LENGT	TH:		0' - 0"			
TOTAL VERTICAL LENGTH: 0' - 0"								
*DRYER COMPL			IT LENGTH (REF		l'			
NOTE: CALCUL	ATIONS ARE E	SCRIPTIVE COL BASED ON THE ALL RECEPTO	DE MAXIMUM ALI	OWABLE	/			
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	ATIONS ARE E R EXHAUST W. EGREE ELBOW	BASED ON THE BALL RECEPTO	DE MAXIMUM ALI	DESIGN I	(35' - 0 NCORPORATES A HE REQUIREMENT			
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	ATIONS ARE E R EXHAUST W. EGREE ELBOW	BASED ON THE BALL RECEPTO	DE MAXIMUM ALI	DESIGN I	(35' - 0 NCORPORATES A HE REQUIREMENT			
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF	ATIONS ARE E R EXHAUST W. EGREE ELBOW	BASED ON THE ALL RECEPTO I. R - OWNER PRIETHING	DE MAXIMUM ALI 2012 IMC. THE R WHICH ELIMIN	DESIGN INATES THE	NCORPORATES A HE REQUIREMENT HER SPECIFIC ELSE HT 60' - 0"			
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DE BASIS OF MAKE NO. OF 90 DEGREE ELBOWS 0	ATIONS ARE E R EXHAUST W. EGREE ELBOW DESIGN DRYE E: SOM NO. OF 45 DEGREE	BASED ON THE ALL RECEPTO V. R - OWNER PRIETHING	2012 IMC. THE R WHICH ELIMIN MODEL N LLOWED TOTAL ENGTH PER IANUFACTURER	DESIGN INATES THE	NCORPORATES A HE REQUIREMENT HER SPECIFIC ELSE HT 60' - 0"			

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Description Date Revisions

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Ft. Clarke, Florida

A Residential Development by: Ft.
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Sheet Title: UNIT PLANS

Date:

September 30, 2022

Sheet Number:

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Jordan & Skala Engineers 4275 Shackleford Road, Suite 200 ◆ Norcross, GA 30093 p. 770.447.5547 ◆ f. 770.448.0262 Drawn By: Author Checked By: Checker

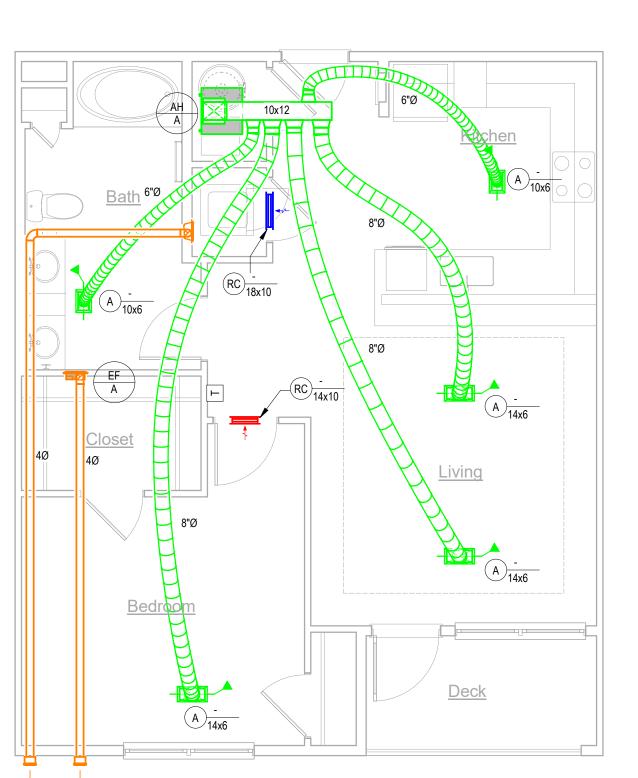
M-L1-UNITS-UNIT A2 Scale: 1/4" = 1'-0"

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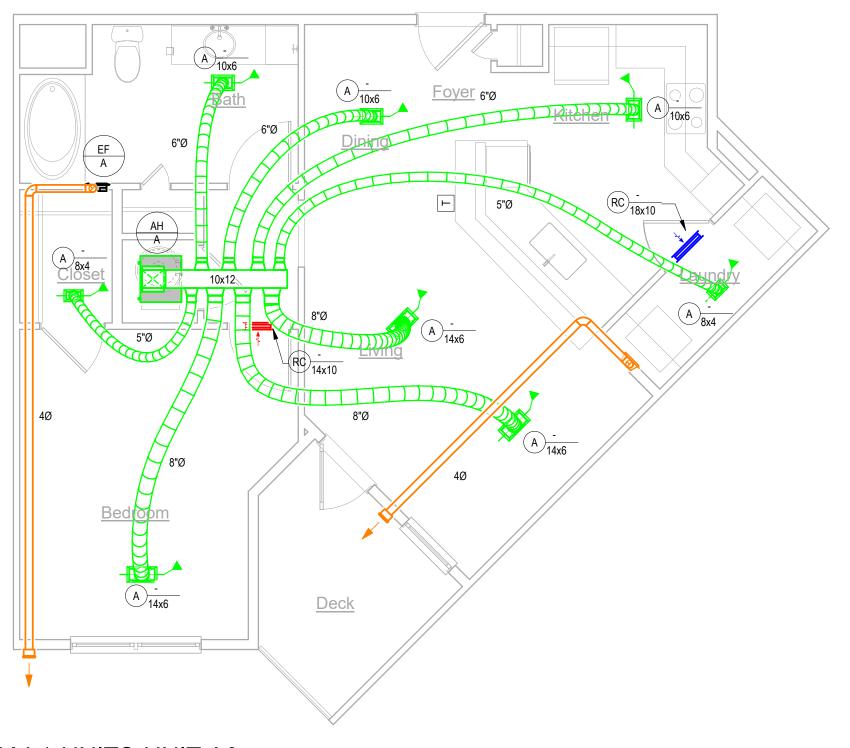
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CI	OTHES DRYE	R VENT LENG	TH CALCULATIO	N - 4" DUCT				
PR	ESCRIPTIVE C	ODE EQUIVAL	ENT LENGTH CA	ALCULATION				
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT			
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"			
RADIUS MITERED 45 4 2' - 6" 0 0' - 0"								
TOTAL EQUIVALENT LENGTH - FITTINGS: 0' - 0"								
	TOTAL HORIZ	ONTAL LENG	ГН:		0' - 0"			
	TOTAL VERTION	CAL LENGTH:			0' - 0"			
	TOTAL SYSTE	M EQUIVALE	NT LENGTH (REF	ER TO DETA	L): 0' - 0"			
*DRYER COMPLIES WITH PRESCRIPTIVE CODE MAXIMUM ALLOWABLE (35' - 0") NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.								
				NATES THE R	•			
			ROVIDED - MANU		EQUIREMENT			
	DESIGN DRYEF			JFACTURER S	EQUIREMENT			
BASIS OF	DESIGN DRYEF	R - OWNER PEETHING	ROVIDED - MANU	JFACTURER S NO: ELSE	EPECIFIC 60' - 0"			
BASIS OF MAKI NO. OF 90 DEGREE ELBOWS 0	DESIGN DRYEFE: SOM NO. OF 45 DEGREE	R - OWNER PRETHING	MODEL N MODEL	JFACTURER S NO: ELSE	EPECIFIC 60' - 0"			
BASIS OF MAKI NO. OF 90 DEGREE ELBOWS 0	DESIGN DRYEFE: SOM NO. OF 45 DEGREE ELBOWS	R - OWNER PRETHING	ROVIDED - MANU MODEL N ALLOWED TOTAL ENGTH PER MANUFACTURER PLAN: 0' - 0"	JFACTURER S NO: ELSE	EPECIFIC 60' - 0"			

CL	OTHES DRYE	R VENT LENG	TH CALCULATIO	N - 4" DUCT				
PR	ESCRIPTIVE C	ODE EQUIVA	LENT LENGTH CA	ALCULATION				
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT			
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"			
RADIUS MITERED 45 4 2' - 6" 0 0' - 0"								
	TOTAL EQUIV	ALENT LENG	TH - FITTINGS:		0' - 0"			
	TOTAL HORIZ	ONTAL LENG	STH:		0' - 0"			
TOTAL VERTICAL LENGTH: 0' - 0"								
*DRYER COMPL	TOTAL SYSTE	EM EQUIVALE	NT LENGTH (REF		ľ			
NOTE: CALCUL	TOTAL SYSTE LIES WITH PRES ATIONS ARE E R EXHAUST W	EM EQUIVALE SCRIPTIVE CO BASED ON THALL RECEPTO		LOWABLE DESIGN INCO	(35' - 0") PRPORATES A			
NOTE: CALCUL CLOTHES DYEI FOR ONE 90 DE	TOTAL SYSTE LIES WITH PRES ATIONS ARE E R EXHAUST W EGREE ELBOW	EM EQUIVALE SCRIPTIVE CO BASED ON TH ALL RECEPTO	DDE MAXIMUM ALI	LOWABLE DESIGN INCO	(35' - 0") DRPORATES A EQUIREMENT			
NOTE: CALCUL CLOTHES DYEI FOR ONE 90 DE	TOTAL SYSTE LIES WITH PRE- ATIONS ARE E R EXHAUST W EGREE ELBOW DESIGN DRYE	EM EQUIVALE SCRIPTIVE CO BASED ON TH ALL RECEPTO	E 2012 IMC. THE	DESIGN INCONATES THE R	(35' - 0") DRPORATES A EQUIREMENT SPECIFIC			
NOTE: CALCUL CLOTHES DYEI FOR ONE 90 DE BASIS OF	TOTAL SYSTE LIES WITH PRE- ATIONS ARE E R EXHAUST W EGREE ELBOW DESIGN DRYE	BASED ON THALL RECEPTOR. R - OWNER PRETHING	E 2012 IMC. THE DR WHICH ELIMIN	DESIGN INCONATES THE RESERVED IN THE RESERVED	(35' - 0") DRPORATES A EQUIREMENT SPECIFIC 60' - 0"			
NOTE: CALCUL CLOTHES DYE! FOR ONE 90 DE BASIS OF I MAKE NO. OF 90 DEGREE ELBOWS	TOTAL SYSTE LIES WITH PRES ATIONS ARE E R EXHAUST W EGREE ELBOW DESIGN DRYE E: SOM NO. OF 48 DEGREE	BASED ON THALL RECEPTOR. R - OWNER PRETHING	E 2012 IMC. THE DR WHICH ELIMIN MODEL N ALLOWED TOTAL LENGTH PER MANUFACTURES	DESIGN INCONATES THE RESERVED IN THE RESERVED	(35' - 0") DRPORATES A EQUIREMENT SPECIFIC 60' - 0"			

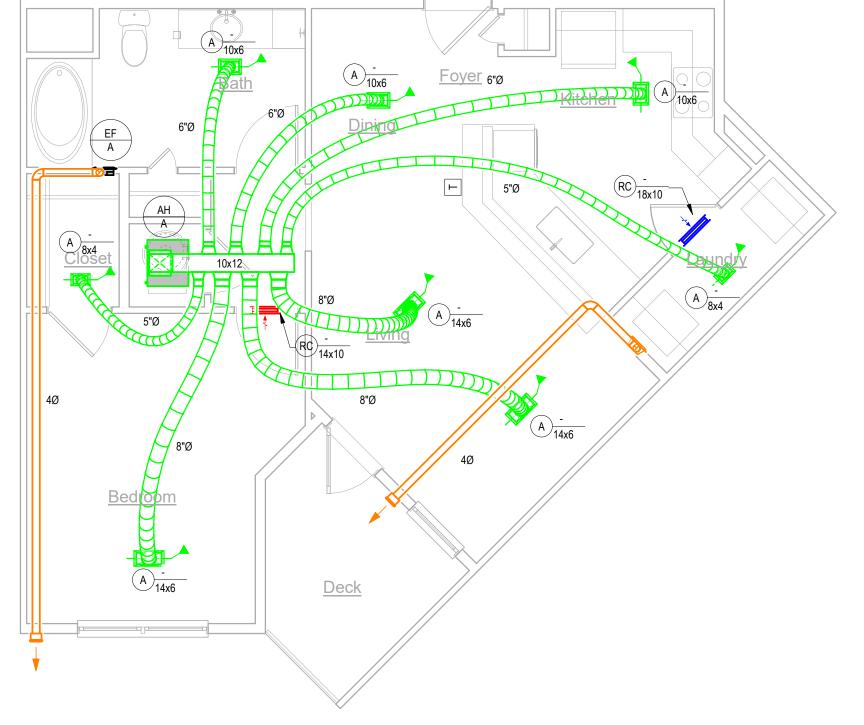






M-L1-UNITS-UNIT A6 Scale: 1/4" = 1'-0"

M-L1-UNITS-UNIT A4



GENERAL: *ALL CELING MOUNTED DEVICES SHALL BE LOCATED PER

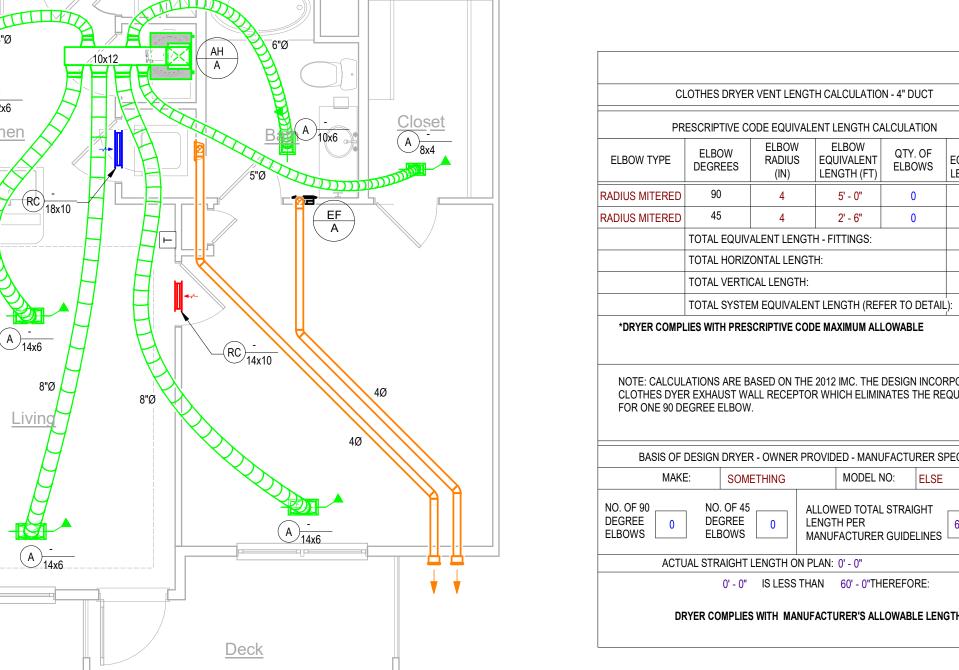
NOTES: (THIS SHEET ONLY)

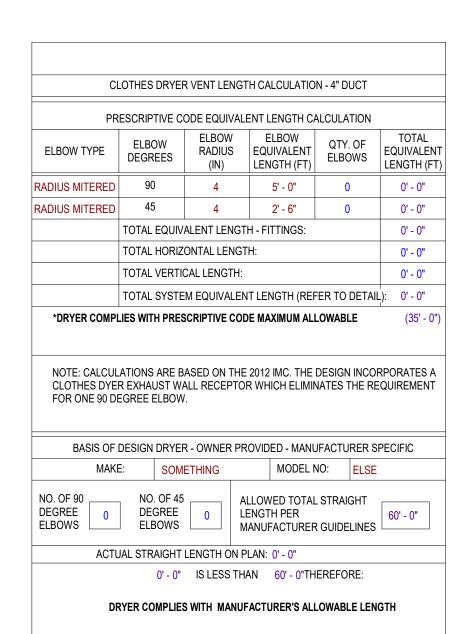
THE ARCHITECTURAL REFLECTED CEILING PLANS. *COORDINATE ALL DUCT ROUTING QBOVE CEILING WITH THE STRUCTURE, LIGHTS, PLUMBING, AND SPRINKLER *ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRE STOPPED AS REQUIRED.

- 1 FOR TOILET EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4" Ø DUCT. FOR KITCHEN EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"∅
- FOR DRYER EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, AND 4"Ø DUCT. EXHAUST SHALL NOT BE OBSTRUCTED WITH SCREENS OR ANY FASTENERS EXTRUDING INTO THE PATH OF AIRFLOW.
- $\boxed{3}$ ALL WALL CAPS AND VENTS SHALL BE MOUNTED AT THE SAME HEIGHT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN. PAINTABLE WALL CAPS, COLOR SELECTED BY THE ARCHITECT. (TYPICAL)
- PROVIDE AND INSTALL WALL MOUNTED DRYER SIGN. INDICATE LENGTH OF DRYER DUCT AND NUMBER OF ELBOWS. SEE DRYER VENT WARNING SIGN DETAIL.
- 5 DRYER MAKEUP, GRILLES LOCATED ABOVE DOOR
- 6 3/4" CONDENSATE DRAIN WITH P-TRAP TO HUB DRAIN, SEE PLUMBING DRAWINGS
- $\langle 7 \rangle$ UL LISTED DRYER BOX TO BE PROVIDED AND INSTALLED IN A 6" WALL FOR DRYER CONNECTION. COORDINATE EXACT MOUNTING HEIGHT WITH DRYER DISCHARGE

POINT PRIOR TO ROUGH-IN. SEE DETAIL.

- 8 UNDER CUT DOOR
- $\boxed{9}$ FIRE STOP, SEE DRYER VENT FLOOR CEILING ASSEMBLY
- (10) CEILING RADIATION DAMPER AND ACCESS PANEL, SEE APARTMENT MECHANICAL CLOSET DETAIL.
- $\langle 11 \rangle$ RETURN GRILLE, MOUNT 12" ABOVE FINISHED FLOOR.
- PROVIDE 5" INTAKE WALL CAP WITH INSECT SCREEN AND 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.
- UPPER LEVEL INTAKE VENT WILL UTILIZE GRILLE LOCATED IN SOFFIT.
- OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
- 15 APRILAIRE 8126A CONTROLLER, SEE DETAIL.





Drawn By: Author Checked By: Checker

Planning · Architecture Landscape Architecture

SGN+A, Inc. 315 West Ponce de Leon Avenue Suite 755

Decatur, Georgia 30030 Tel: 404.373.7370 Fax: 404.373.7372 www.sgnplusa.co

Description Date Revisions

Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments Residences, LLC

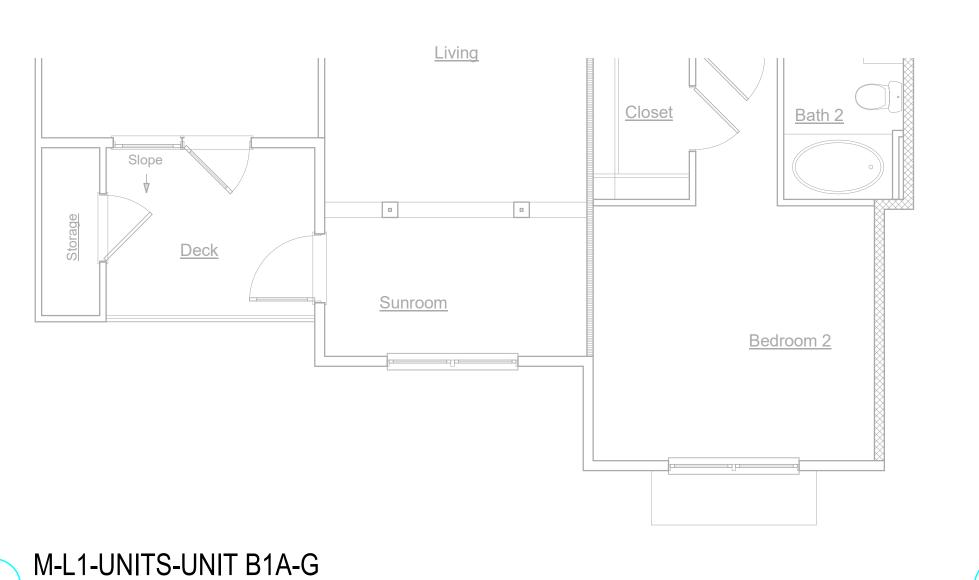
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Sheet Title: **UNIT PLANS**

September 30, 2022

Sheet Number:

M4.02



Deck Sunroom Bedroom 2

M-L1-UNITS-UNIT B1-G Scale: 1/4" = 1'-0"

NOTES: (THIS SHEET ONLY)

*ALL CELING MOUNTED DEVICES SHALL BE LOCATED PER THE ARCHITECTURAL REFLECTED CEILING PLANS. *COORDINATE ALL DUCT ROUTING QBOVE CEILING WITH THE STRUCTURE, LIGHTS, PLUMBING, AND SPRINKLER *ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRE STOPPED AS REQUIRED.

- 1 FOR TOILET EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4" Ø DUCT. FOR KITCHEN EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"Ø
- FOR DRYER EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, AND 4"Ø DUCT. EXHAUST SHALL NOT BE OBSTRUCTED WITH SCREENS OR ANY FASTENERS EXTRUDING INTO THE PATH OF AIRFLOW.
- 3 ALL WALL CAPS AND VENTS SHALL BE MOUNTED AT THE SAME HEIGHT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN. PAINTABLE WALL CAPS, COLOR SELECTED BY THE ARCHITECT. (TYPICAL)
- PROVIDE AND INSTALL WALL MOUNTED DRYER SIGN.
 INDICATE LENGTH OF DRYER DUCT AND NUMBER OF
 ELBOWS. SEE DRYER VENT WARNING SIGN DETAIL.
- 5 DRYER MAKEUP, GRILLES LOCATED ABOVE DOOR
- 6 3/4" CONDENSATE DRAIN WITH P-TRAP TO HUB DRAIN, SEE PLUMBING DRAWINGS
- UL LISTED DRYER BOX TO BE PROVIDED AND INSTALLED IN A 6" WALL FOR DRYER CONNECTION. COORDINATE EXACT MOUNTING HEIGHT WITH DRYER DISCHARGE POINT PRIOR TO ROUGH-IN. SEE DETAIL.
- 8 UNDER CUT DOOR
- 9 FIRE STOP, SEE DRYER VENT FLOOR CEILING ASSEMBLY DETAIL.
- (10) CEILING RADIATION DAMPER AND ACCESS PANEL, SEE APARTMENT MECHANICAL CLOSET DETAIL.
- (11) RETURN GRILLE, MOUNT 12" ABOVE FINISHED FLOOR.
- PROVIDE 5" INTAKE WALL CAP WITH INSECT SCREEN AND 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.

	1 M839			4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.
		2 4 9 7		UPPER LEVEL INTAKE VENT WILL UTILIZE GRILLE LOCATED IN SOFFIT.
	A 100 12x6	M840 55		OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
	Closet	(ABV DOOR)	1	4 / 7 / 9 / 15 APRILAIRE 8126A CONTROLLER, SEE DETAIL.
	Master CRD CRD CRD	CRD Laundry	1 Master CRD SEF-B 7"ø	aundry
	A) 30 Dining	A 100 K 5 %	CRD CRD 100 5"ø	(15)
	A 30 8x6 5"@	10x12	A 30 8x6 5"ø M835 S"ø Kitche(A) 100 5"ø M835 S M83	
		(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	A 30	6 10
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT	CRD T	M838	CRD T	
PRESCRIPTIVE CODE EQUIVALENT LENGTH CALCULATION	TITLE OF THE PARTY			
ELBOW TYPE ELBOW ELBOW QTY. OF TOTAL	500	C 24x24 11	7"ø	24x24 ELBOW ELBOW ELBOW OTY. OF FOUNDALENT
RADIUS MITERED 90 4 5'-0" 0 0'-0"	7"ø		7"ø	DEGREES (IN) ELBOWS EQUIVALENT LENGTH (FT) RADIUS MITERED 90 4 5'-0" 0 0'-0"
RADIUS MITERED 45 4 2' - 6" 0 0' - 0"	Master Bedroom Living A 140	5"ø A 8x6	Master Bedroom Home	A) 30 RADIUS MITERED 45 4 2' - 6" 0 0' - 0"
TOTAL EQUIVALENT LENGTH - FITTINGS: 0' - 0" TOTAL HORIZONTAL LENGTH: 0' - 0"	12x6	9"ø"	$ \begin{array}{c c} A & 140 \\ \hline 12x6 & 9"g" \end{array} $	
TOTAL VERTICAL LENGTH: 0' - 0"	CRD	CRD 3 12 13 5Ø	Living	CRD TOTAL VERTICAL LENGTH: 0' - 0"
TOTAL SYSTEM EQUIVALENT LENGTH (REFER TO DETAIL): 0' - 0"	CRD	CRD	Bath	TOTAL SYSTEM EQUIVALENT LENGTH (REFER TO DETAIL): 0' - 0"
*DRYER COMPLIES WITH PRESCRIPTIVE CODE MAXIMUM ALLOWABLE (35' - 0")	A 180 12x6	30 M841 1	CRD CRD	*DRYER COMPLIES WITH PRESCRIPTIVE CODE MAXIMUM ALLOWABLE (35' - 0")
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT	Slope	A 8x6	A 180 12x6 Slope	NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT
FOR ONE 90 DEGREE ELBOW.		8"ø		FOR ONE 90 DEGREE ELBOW.
BASIS OF DESIGN DRYER - OWNER PROVIDED - MANUFACTURER SPECIFIC	<u>Deck</u>		8"ø	4Ø BASIS OF DESIGN DRYER - OWNER PROVIDED - MANUFACTURER SPECIFIC
MAKE: SOMETHING MODEL NO: ELSE	Sunroom Sunroom	A 180 CRD 12x6	<u>Deck</u> (A) 180 12x6	MAKE: SOMETHING MODEL NO: ELSE
NO. OF 90 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS O ALLOWED TOTAL STRAIGHT LENGTH PER MANUFACTURER GUIDELINES 60' - 0"	CRD	4Ø 4Ø 4Ø 4Ø 4Ø 4Ø 4Ø 4Ø	Sunroom	NO. OF 90 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS ALLOWED TOTAL STRAIGHT LENGTH PER MANUFACTURER GUIDELINES 60' - 0"
ACTUAL STRAIGHT LENGTH ON PLAN: 0' - 0"	3 \(\frac{12}{13} \) A \(\frac{180}{12x6} \)	4Ø 5Ø <u>Bedroom 2</u>	CRD A Bedroom 2	ACTUAL STRAIGHT LENGTH ON PLAN: 0' - 0"
0' - 0" IS LESS THAN 60' - 0"THEREFORE:			12x6	0' - 0" IS LESS THAN 60' - 0"THEREFORE:
DRYER COMPLIES WITH MANUFACTURER'S ALLOWABLE LENGTH				DRYER COMPLIES WITH MANUFACTURER'S ALLOWABLE LENGTH
		3 \downarrow \downarrow \downarrow 3		
				√ (3)

M-L1-UNITS-UNIT B1

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

A Residential Development by: Ft. Clarke Apartments Residences, LLC

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Planning · Architecture

Landscape Architecture

315 West Ponce de Leon Avenue

Decatur, Georgia 30030

Description

Construction

Documents -

Progress Set

Apartments

Ft. Clarke, Florida

Clarke

Revisions

Lullwater at Ft.

Date

Tel: 404.373.7370 Fax: 404.373.7372 www.sgnplusa.co

SGN+A, Inc.

Suite 755

Sheet Title: **UNIT PLANS**

Date:

September 30, 2022

Sheet Number:

M4.03

4275 Shackleford Road, Suite 200 ◆ Norcross, GA 30093 p. 770.447.5547 ◆ f. 770.448.0262 Project Number: 22010515

M-L1-UNITS-UNIT B1A

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

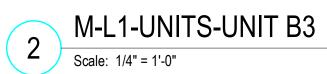


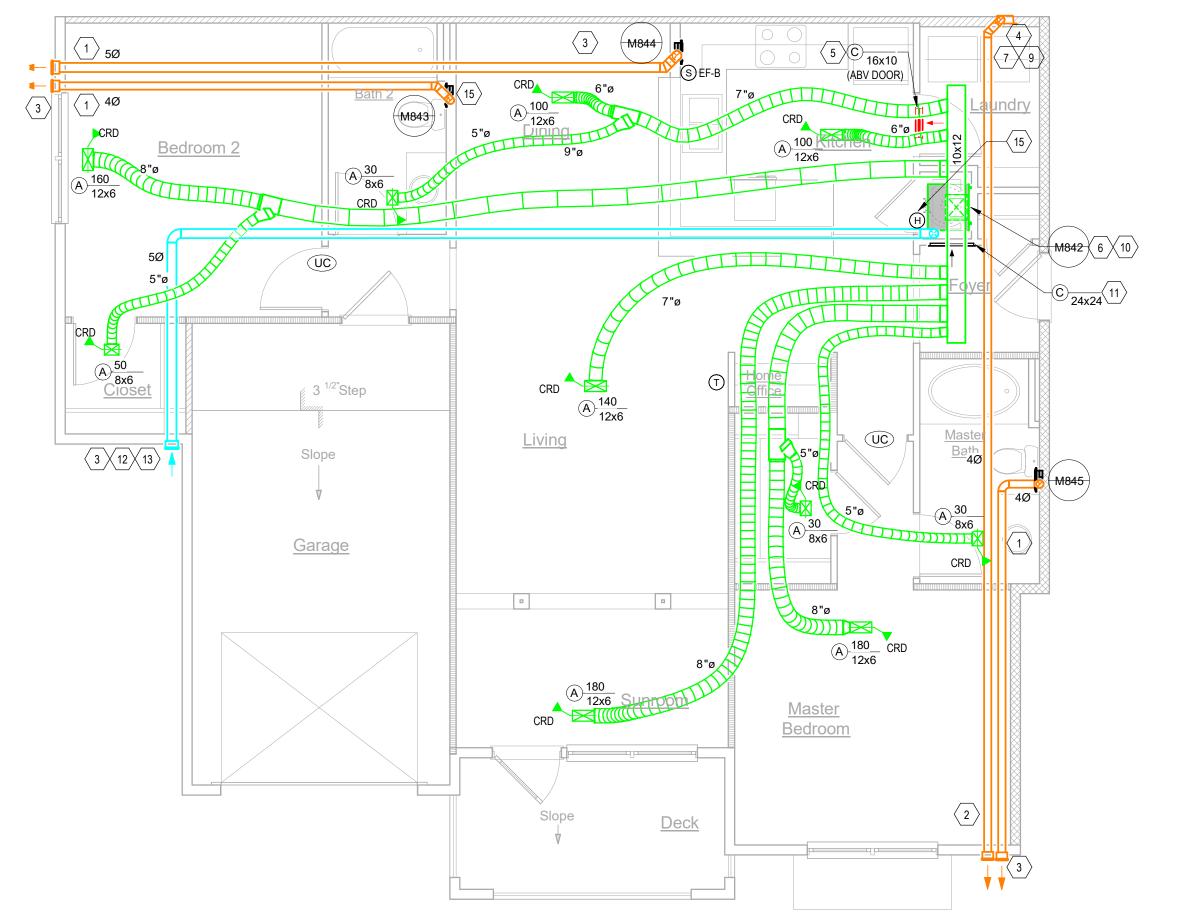
Drawn By: Author Checked By: Checker

CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT									
PRESCRIPTIVE CODE EQUIVALENT LENGTH CALCULATION									
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	EQL	LBOW JIVALENT GTH (FT)	QTY ELBO		TOTAL EQUIVALENT LENGTH (FT)		
RADIUS MITERED	90	4		5' - 0"	C		0' - 0"		
RADIUS MITERED	45	4		2' - 6"	C		0' - 0"		
	TOTAL EQUIV	ALENT LEN	GTH - FI	TTINGS:			0' - 0"		
	TOTAL HORIZ	ONTAL LEN	GTH:				0' - 0"		
	TOTAL VERTION	CAL LENGTI	H:				0' - 0"		
	TOTAL SYSTE	M EQUIVAL	ENT LEN	NGTH (REF	ER TO	DETAIL	.): 0' - 0"		
*DRYER COMPLIES WITH PRESCRIPTIVE CODE MAXIMUM ALLOWABLE (35' - 0") NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A									
CLOTHES DYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.									
	DESIGN DRYEF		PROVID				PECIFIC		
MAKE: SOMETHING MODEL NO: ELSE									
NO. OF 90 DEGREE ELBOWS NO. OF 45 DEGREE ELBOWS O ALLOWED TOTAL STRAIGHT LENGTH PER MANUFACTURER GUIDELINES 60' - 0"									
ACTUAL STRAIGHT LENGTH ON PLAN: 0' - 0"									
	0' - 0"	IS LESS 7	THAN	60' - 0"TH	EREFO	RE:			
DF	DRYER COMPLIES WITH MANUFACTURER'S ALLOWABLE LENGTH								

UI	-OTHES DRYER	R VENT LENG	TH CALCULATIO	N - 4" DUCT	
PR	ESCRIPTIVE CO	ODE EQUIVA	LENT LENGTH CA	ALCULATION	1
ELBOW TYPE	ELBOW DEGREES	TOTAL EQUIVALEN LENGTH (F			
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"
RADIUS MITERED	45	4	2' - 6"	0	0' - 0"
	TOTAL EQUIV	ALENT LENG	TH - FITTINGS:		0' - 0"
	TOTAL HORIZ	ONTAL LENG	TH:		0' - 0"
	0' - 0"				
	TOTAL VERTION	o, 12 22 10 11 11	•		
NOTE: CALCUL	TOTAL SYSTE	M EQUIVALE CORIPTIVE CO	NT LENGTH (REF DE MAXIMUM ALI E 2012 IMC. THE IDR WHICH ELIMIN	LOWABLE DESIGN INC	AlL): 0' - 0" (35' - 0
NOTE: CALCUL	TOTAL SYSTE LIES WITH PRES ATIONS ARE B R EXHAUST WA	M EQUIVALE CRIPTIVE CO ASED ON THALL RECEPTO	NT LENGTH (REF	LOWABLE DESIGN INC	AlL): 0' - 0" (35' - 0
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	TOTAL SYSTE LIES WITH PRES ATIONS ARE B R EXHAUST WA EGREE ELBOW	M EQUIVALE SCRIPTIVE CO ASED ON THALL RECEPTO	NT LENGTH (REF	DESIGN INC	(35' - 0" ORPORATES A
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	TOTAL SYSTE LIES WITH PRES ATIONS ARE B R EXHAUST WA EGREE ELBOW DESIGN DRYEF	M EQUIVALE SCRIPTIVE CO ASED ON THALL RECEPTO	NT LENGTH (REF IDE MAXIMUM ALI E 2012 IMC. THE DR WHICH ELIMIN	DESIGN INC NATES THE	ORPORATES AREQUIREMENT
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF	TOTAL SYSTE LIES WITH PRES ATIONS ARE B R EXHAUST WA EGREE ELBOW DESIGN DRYEF	M EQUIVALE SCRIPTIVE CO ASED ON THALL RECEPTO R - OWNER P ETHING	NT LENGTH (REF IDE MAXIMUM ALI E 2012 IMC. THE I DR WHICH ELIMIN	DESIGN INC NATES THE IFACTURER NO: ELS	ORPORATES A REQUIREMENT SPECIFIC 60' - 0"
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF MAKI NO. OF 90 DEGREE ELBOWS	TOTAL SYSTE LIES WITH PRES ATIONS ARE B R EXHAUST WA EGREE ELBOW DESIGN DRYEF E: SOM NO. OF 45 DEGREE	M EQUIVALE SCRIPTIVE CO ASED ON THALL RECEPTO R - OWNER P ETHING	NT LENGTH (REF DE MAXIMUM ALI E 2012 IMC. THE IDR WHICH ELIMIN ROVIDED - MANU MODEL N ALLOWED TOTAL LENGTH PER MANUFACTURER	DESIGN INC NATES THE IFACTURER NO: ELS	ORPORATES A REQUIREMENT SPECIFIC 60' - 0"







M-L1-UNITS-UNIT B2 Scale: 1/4" = 1'-0"

NOTES: (THIS SHEET ONLY)

GENERAL:

*ALL CELING MOUNTED DEVICES SHALL BE LOCATED PER
THE ARCHITECTURAL REFLECTED CEILING PLANS.

*COORDINATE ALL DUCT ROUTING QBOVE CEILING WITH
THE STRUCTURE, LIGHTS, PLUMBING, AND SPRINKLER
PIPING.

*ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE
FIRE STOPPED AS REQUIRED.

- FOR TOILET EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4"Ø DUCT. FOR KITCHEN EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"Ø DUCT.
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- ALL WALL CAPS AND VENTS SHALL BE MOUNTED AT THE SAME HEIGHT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGHIN. PAINTABLE WALL CAPS, COLOR SELECTED BY THE ARCHITECT. (TYPICAL)
- PROVIDE AND INSTALL WALL MOUNTED DRYER SIGN.
 INDICATE LENGTH OF DRYER DUCT AND NUMBER OF
 ELBOWS. SEE DRYER VENT WARNING SIGN DETAIL.
- $\left\langle 5 \right
 angle$ DRYER MAKEUP, GRILLES LOCATED ABOVE DOOR
- (6) 3/4" CONDENSATE DRAIN WITH P-TRAP TO HUB DRAIN, SEE PLUMBING DRAWINGS
- UL LISTED DRYER BOX TO BE PROVIDED AND INSTALLED IN A 6" WALL FOR DRYER CONNECTION. COORDINATE EXACT MOUNTING HEIGHT WITH DRYER DISCHARGE

POINT PRIOR TO ROUGH-IN. SEE DETAIL.

- 8 UNDER CUT DOOR
- $\overline{\left\langle 9\right\rangle}$ FIRE STOP, SEE DRYER VENT FLOOR CEILING ASSEMBLY
- (10) CEILING RADIATION DAMPER AND ACCESS PANEL, SEE APARTMENT MECHANICAL CLOSET DETAIL.
- $\langle 11 \rangle$ RETURN GRILLE, MOUNT 12" ABOVE FINISHED FLOOR.
- PROVIDE 5" INTAKE WALL CAP WITH INSECT SCREEN AND 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.
- UPPER LEVEL INTAKE VENT WILL UTILIZE GRILLE LOCATED IN SOFFIT.
- OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
- (15) APRILAIRE 8126A CONTROLLER, SEE DETAIL.



Planning · Architecture
Landscape Architecture

SGN+A, Inc.
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Fax: 404.373.7372
www.sgnplusa.co

No. Description Date
Revisions

Construction
Documents Progress Set
Lullwater at Ft.
Clarke
Apartments

Ft. Clarke, Florida

A Residential
Development by: Ft.
Clarke Apartments
Residences, LLC

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Sheet Title: UNIT PLANS

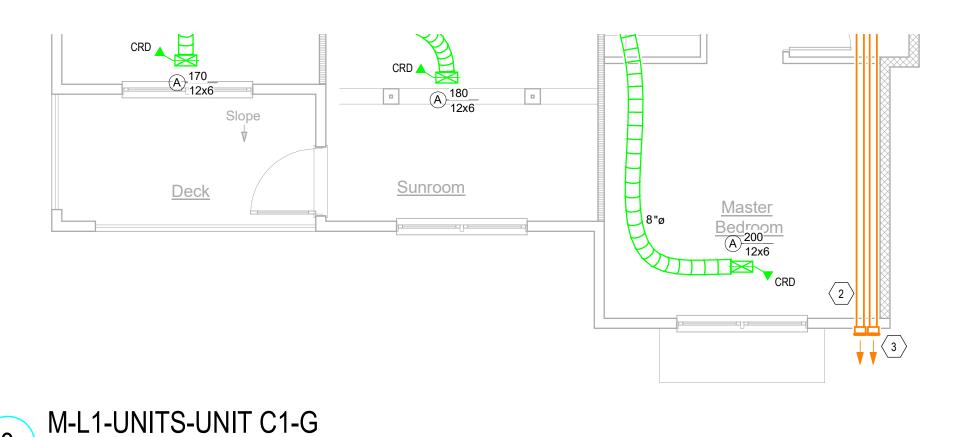
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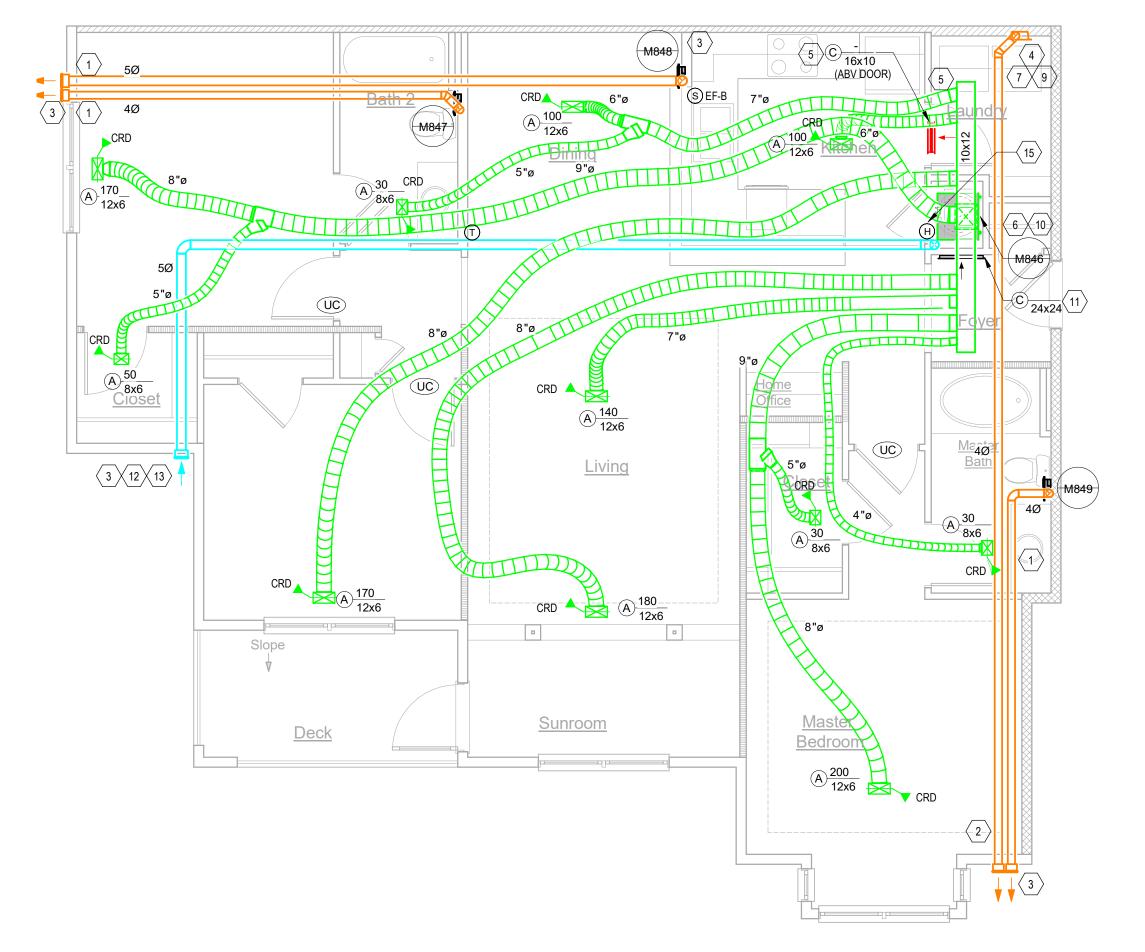
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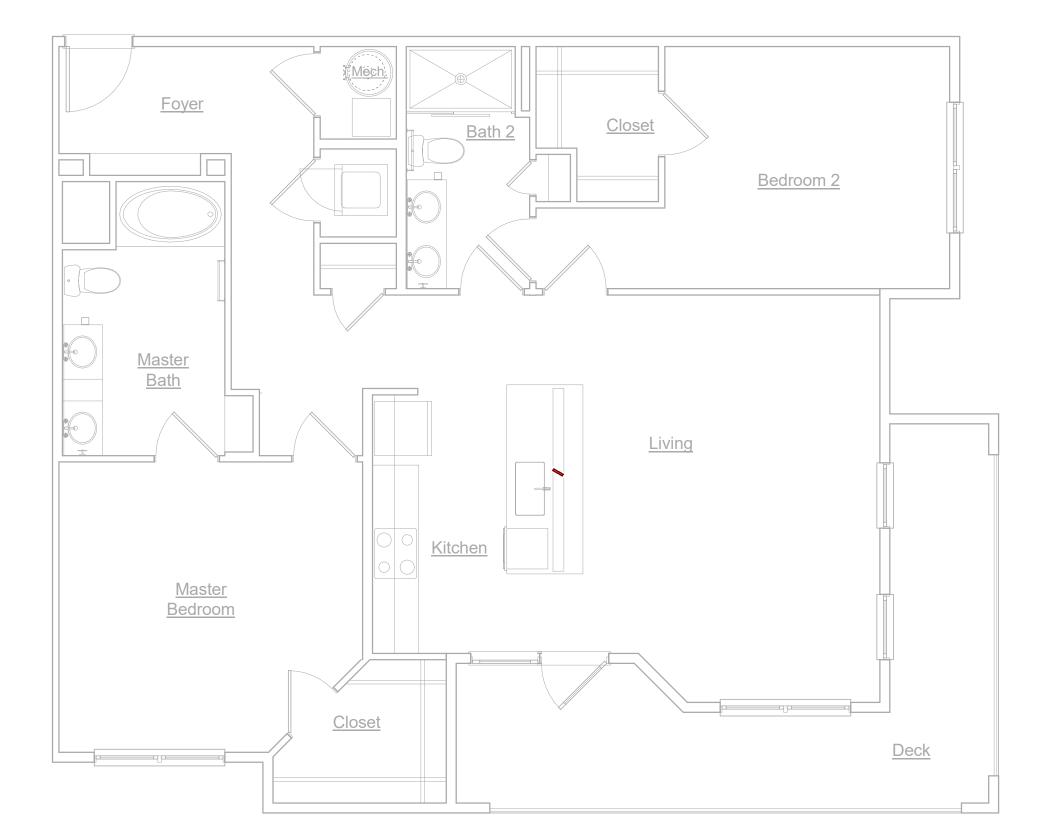
*)*4





CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT						CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT					
PR	RESCRIPTIVE C	ODE EQUIVAL	ENT LENGTH CA	ALCULATION		PRESCRIPTIVE CODE EQUIVALENT LENGTH CALCULATION					
ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)	ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY. OF ELBOWS	TOTAL EQUIVALEN' LENGTH (FT
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"	RADIUS MITERED	90	4	5' - 0"	0	0' - 0"
RADIUS MITERED	45	4	2' - 6"	0	0' - 0"	RADIUS MITERED	45	4	2' - 6"	0	0' - 0"
	TOTAL EQUIV	ALENT LENGT	H - FITTINGS:		0' - 0"		TOTAL EQUIVALENT LENGTH - FITTINGS:		0' - 0"		
	TOTAL HORIZ	ONTAL LENGT	TH:		0' - 0"		TOTAL HORIZONTAL LENGTH:			0' - 0"	
	TOTAL VERTI	CAL LENGTH:			0' - 0"		TOTAL VERTI	CAL LENGTH:			0' - 0"
TOTAL SYSTEM EQUIVALENT LENGTH (REFER TO DETAIL):							TOTAL SYSTEM EQUIVALENT LENGTH (REFER TO DETAIL): 0'				
NOTE: CALCUL	LIES WITH PRES	ASED ON THE	IT LENGTH (REF DE MAXIMUM ALL 2012 IMC. THE I R WHICH ELIMIN	LOWABLE DESIGN INCO	(35' - 0") DRPORATES A	NOTE: CALCUL	LIES WITH PRES	SCRIPTIVE COI	NT LENGTH (REF DE MAXIMUM ALI : 2012 IMC. THE R WHICH ELIMIN	LOWABLE DESIGN INCO	(35' - 0
NOTE: CALCUL	LIES WITH PRES .ATIONS ARE B R EXHAUST W	ASED ON THE	DE MAXIMUM ALL	LOWABLE DESIGN INCO	(35' - 0") DRPORATES A	NOTE: CALCUL	ATIONS ARE B	SCRIPTIVE COI HASED ON THE BALL RECEPTO	DE MAXIMUM ALI	LOWABLE DESIGN INCO	(35' - 0'
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	LIES WITH PRES LATIONS ARE B R EXHAUST WA EGREE ELBOW	ASED ON THE ALL RECEPTO	DE MAXIMUM ALL	DESIGN INCO	(35' - 0") PRPORATES A EQUIREMENT	NOTE: CALCUL CLOTHES DYEF FOR ONE 90 DE	ATIONS ARE E R EXHAUST W. EGREE ELBOW	SASED ON THE ALL RECEPTO	DE MAXIMUM ALI	LOWABLE DESIGN INCO	(35' - 0" DRPORATES A EQUIREMENT
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	LIES WITH PRES	ASED ON THE ALL RECEPTO	DE MAXIMUM ALL 2012 IMC. THE I R WHICH ELIMIN	DESIGN INCO NATES THE RI	(35' - 0") DRPORATES A EQUIREMENT SPECIFIC	NOTE: CALCUL CLOTHES DYEF FOR ONE 90 DE	ATIONS ARE E R EXHAUST W. EGREE ELBOW	SASED ON THE ALL RECEPTO	DE MAXIMUM ALI 2012 IMC. THE R WHICH ELIMIN	DESIGN INCONATES THE RI	(35' - 0" DRPORATES A EQUIREMENT
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF MAKI NO. OF 90 DEGREE ELBOWS	LIES WITH PRES	ASED ON THE ALL RECEPTO	2012 IMC. THE IR WHICH ELIMIN ROVIDED - MANU MODEL N LLOWED TOTAL ENGTH PER IANUFACTURER PLAN: 0' - 0"	DESIGN INCONATES THE RIPORT STACTURER SOLUTION OF LISE	(35' - 0") DRPORATES A EQUIREMENT SPECIFIC 60' - 0"	NOTE: CALCUL CLOTHES DYEF FOR ONE 90 DE BASIS OF I MAKE NO. OF 90 DEGREE ELBOWS 0	ATIONS ARE E R EXHAUST W. EGREE ELBOW	R - OWNER PETHING	E 2012 IMC. THE R WHICH ELIMIN MODEL N LLOWED TOTAL ENGTH PER IANUFACTURES	DESIGN INCONATES THE RIPERS THE R	(35' - 0 DRPORATES A EQUIREMENT SPECIFIC 60' - 0"





M-L1-UNITS-UNIT C1

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

M-L1-UNITS-UNIT B4

NOTES: (THIS SHEET ONLY)

GENERAL:
*ALL CELING MOUNTED DEVICES SHALL BE LOCATED PER THE ARCHITECTURAL REFLECTED CEILING PLANS. *COORDINATE ALL DUCT ROUTING QBOVE CEILING WITH THE STRUCTURE, LIGHTS, PLUMBING, AND SPRINKLER *ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRE STOPPED AS REQUIRED.

- 1 FOR TOILET EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4" Ø DUCT. FOR KITCHEN EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"Ø
- FOR DRYER EXHAUST FURNISH AND INSTALL SINGLE LOUVERED WALL CAP, COLLAR, AND 4"Ø DUCT. EXHAUST SHALL NOT BE OBSTRUCTED WITH SCREENS OR ANY FASTENERS EXTRUDING INTO THE PATH OF AIRFLOW.
- 3 ALL WALL CAPS AND VENTS SHALL BE MOUNTED AT THE SAME HEIGHT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN. PAINTABLE WALL CAPS, COLOR SELECTED BY THE ARCHITECT. (TYPICAL)
- 4 PROVIDE AND INSTALL WALL MOUNTED DRYER SIGN. INDICATE LENGTH OF DRYER DUCT AND NUMBER OF ELBOWS. SEE DRYER VENT WARNING SIGN DETAIL.
- 5 DRYER MAKEUP, GRILLES LOCATED ABOVE DOOR
- 6 3/4" CONDENSATE DRAIN WITH P-TRAP TO HUB DRAIN, SEE PLUMBING DRAWINGS
- $\langle 7 \rangle$ UL LISTED DRYER BOX TO BE PROVIDED AND INSTALLED IN A 6" WALL FOR DRYER CONNECTION. COORDINATE EXACT MOUNTING HEIGHT WITH DRYER DISCHARGE

POINT PRIOR TO ROUGH-IN. SEE DETAIL.

- 8 UNDER CUT DOOR
- 9 FIRE STOP, SEE DRYER VENT FLOOR CEILING ASSEMBLY
- (10) CEILING RADIATION DAMPER AND ACCESS PANEL, SEE APARTMENT MECHANICAL CLOSET DETAIL.
- $\langle 11 \rangle$ RETURN GRILLE, MOUNT 12" ABOVE FINISHED FLOOR.
- PROVIDE 5" INTAKE WALL CAP WITH INSECT SCREEN AND 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.
- (13) UPPER LEVEL INTAKE VENT WILL UTILIZE GRILLE LOCATED IN SOFFIT.
- OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
- (15) APRILAIRE 8126A CONTROLLER, SEE DETAIL.

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SGN+A, Inc. 315 West Ponce de Leon Avenue Suite 755

Decatur, Georgia 30030 Tel: 404.373.7370 Fax: 404.373.7372 www.sgnplusa.co

Description Date Revisions

Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

A Residential Development by: Ft.
Clarke Apartments
Residences, LLC

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Sheet Title: UNIT PLANS

Date: September 30, 2022

Sheet Number:

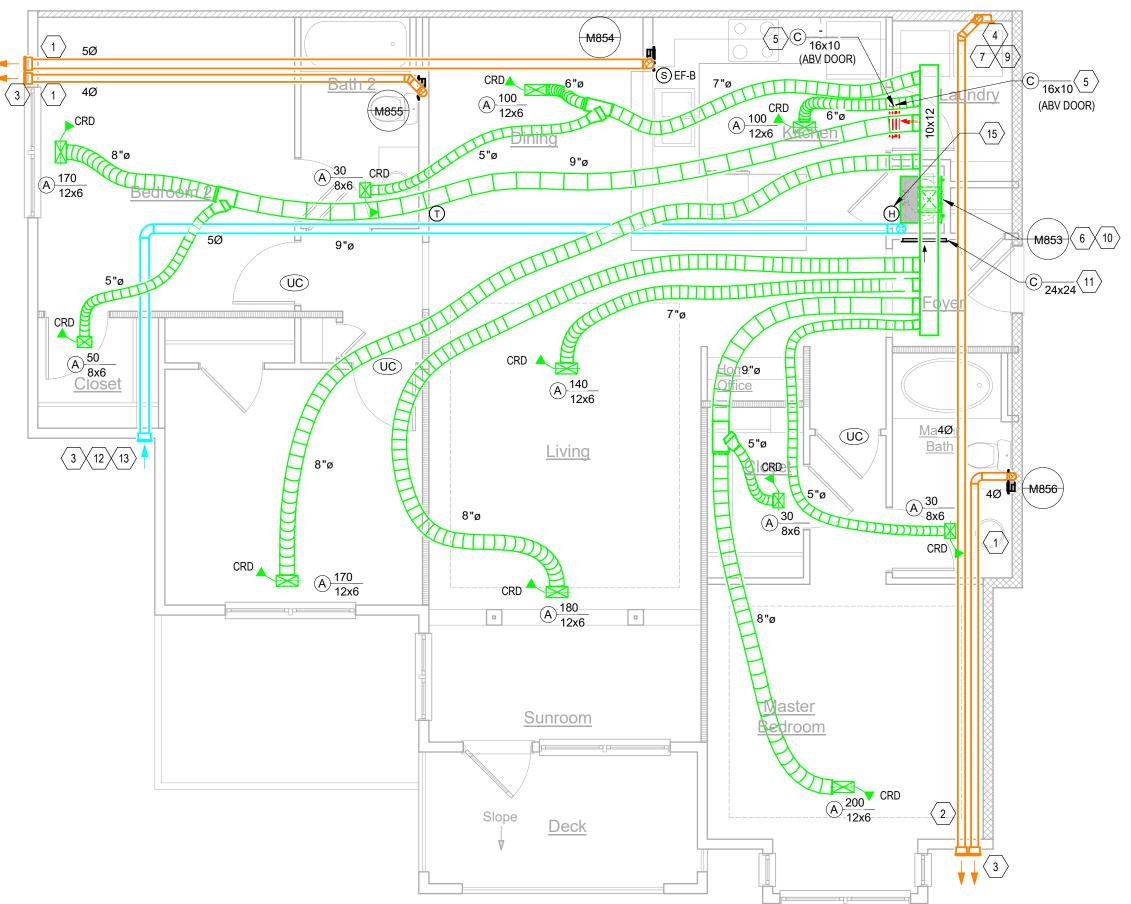
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	-OTTILO DIVILI	VENT LENGT	TH CALCULATIO	11-4 0001		
PR	ESCRIPTIVE C	ODE EQUIVALI	ENT LENGTH CA	ALCULATION		
ELBOW TYPE	ELBOW DEGREES	TOTAL EQUIVALENT LENGTH (FT)				
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"	
RADIUS MITERED	45	4	2' - 6"	0	0' - 0"	
	TOTAL EQUIVALENT LENGTH - FITTINGS: 0'					
	TOTAL HORIZ	ONTAL LENGT	H:		0' - 0"	
	TOTAL VERTI	CAL LENGTH:			0' - 0"	
	TOTAL SYSTE	M FOUIVALEN	IT LENGTH (REF	FR TO DETAI	L): 0' - 0"	
NOTE: CALCUL CLOTHES DYE	LIES WITH PRES	SCRIPTIVE COD SASED ON THE ALL RECEPTOI	DE MAXIMUM ALI 2012 IMC. THE R WHICH ELIMIN	LOWABLE DESIGN INCO	(35' - 0") RPORATES A	
NOTE: CALCUL	LIES WITH PRES	SCRIPTIVE COD SASED ON THE ALL RECEPTOI	DE MAXIMUM ALI	LOWABLE DESIGN INCO	(35' - 0") RPORATES A	
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI	ATIONS ARE B R EXHAUST W.	SCRIPTIVE COD HASED ON THE ALL RECEPTOR	DE MAXIMUM ALI	LOWABLE DESIGN INCO NATES THE RE	(35' - 0") RPORATES A EQUIREMENT	
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NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF	ATIONS ARE B R EXHAUST W. EGREE ELBOW	ASED ON THE ALL RECEPTOR A. R - OWNER PRETHING	2012 IMC. THE R WHICH ELIMIN	DESIGN INCO NATES THE RE UFACTURER S NO: ELSE	(35' - 0") RPORATES A EQUIREMENT PECIFIC	
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF MAKE	ATIONS ARE B R EXHAUST W. EGREE ELBOW DESIGN DRYEI E: SOM NO. OF 45 DEGREE	ASED ON THE ALL RECEPTOR A	2012 IMC. THE R WHICH ELIMIN MODEL N LLOWED TOTAL ENGTH PER IANUFACTURES	DESIGN INCO NATES THE RE UFACTURER S NO: ELSE	(35' - 0") RPORATES A EQUIREMENT PECIFIC	
NOTE: CALCUL CLOTHES DYE FOR ONE 90 DI BASIS OF MAKE	ATIONS ARE BREXHAUST WARE ELBOWN DESIGN DRYEI SOM NO. OF 45 DEGREE ELBOWS	ASED ON THE ALL RECEPTOR IT. R - OWNER PRETHING O ALL MARKET MA	2012 IMC. THE R WHICH ELIMIN MODEL N LLOWED TOTAL ENGTH PER IANUFACTURER	DESIGN INCO NATES THE RE UFACTURER S NO: ELSE	(35' - 0") RPORATES A EQUIREMENT PECIFIC	

M-L1-UNITS-UNIT C1A

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



NOTES: (THIS SHEET ONLY)

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- OUTSIDE AIR VENTILATION FAN, SEE VERTICAL AIR HANDLER DETAIL.
- (15) APRILAIRE 8126A CONTROLLER, SEE DETAIL.

- LOUVERED WALL CAP EQUAL SIZE AS DRYER EXHAUST WALL CAP, COLLAR, TRANSITION, AND 4"Ø DUCT. FOR LOUVERED WALL CAP, COLLAR, TRANSITION, AND 5"Ø
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- POINT PRIOR TO ROUGH-IN. SEE DETAIL.

- 4" OUTSIDE AIR DUCT WITH BACK DRAFT DAMPER.



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Suite 755 Decatur, Georgia 30030 Tel: 404.373.7370 Fax: 404.373.7372 www.sgnplusa.co

Description Date Revisions

Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

A Residential Development by: Ft.
Clarke Apartments
Residences, LLC

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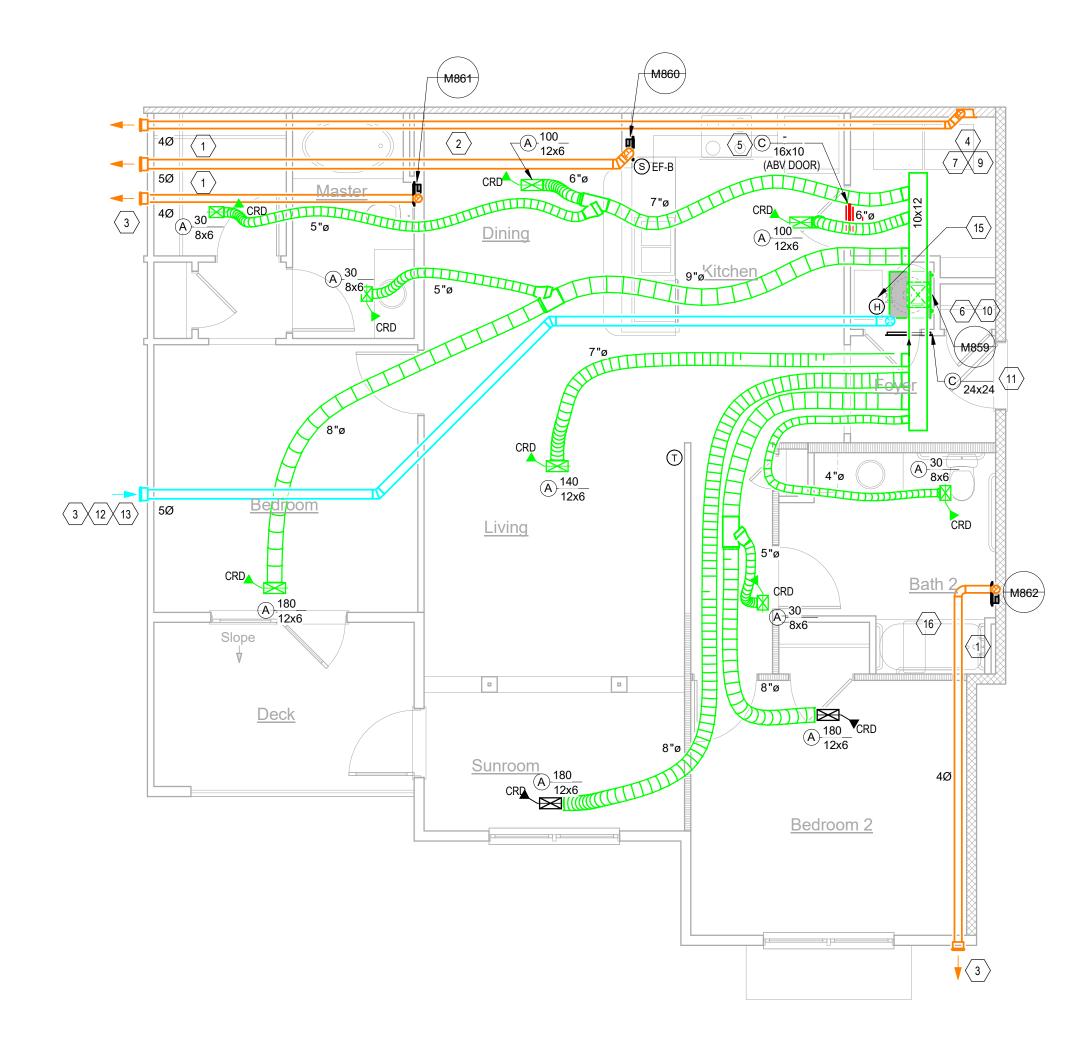
September 30, 2022

Sheet Number:

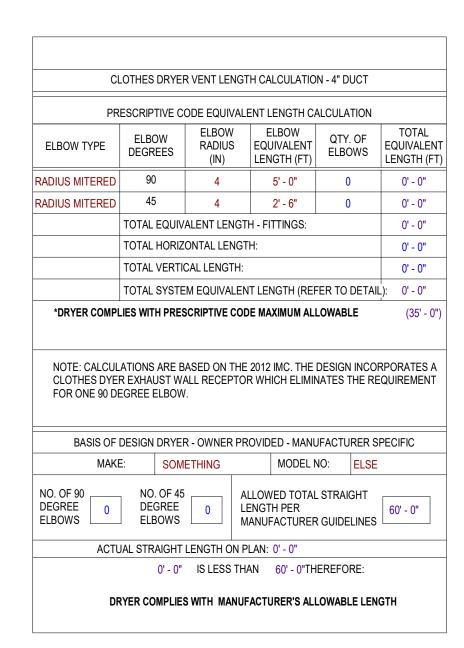
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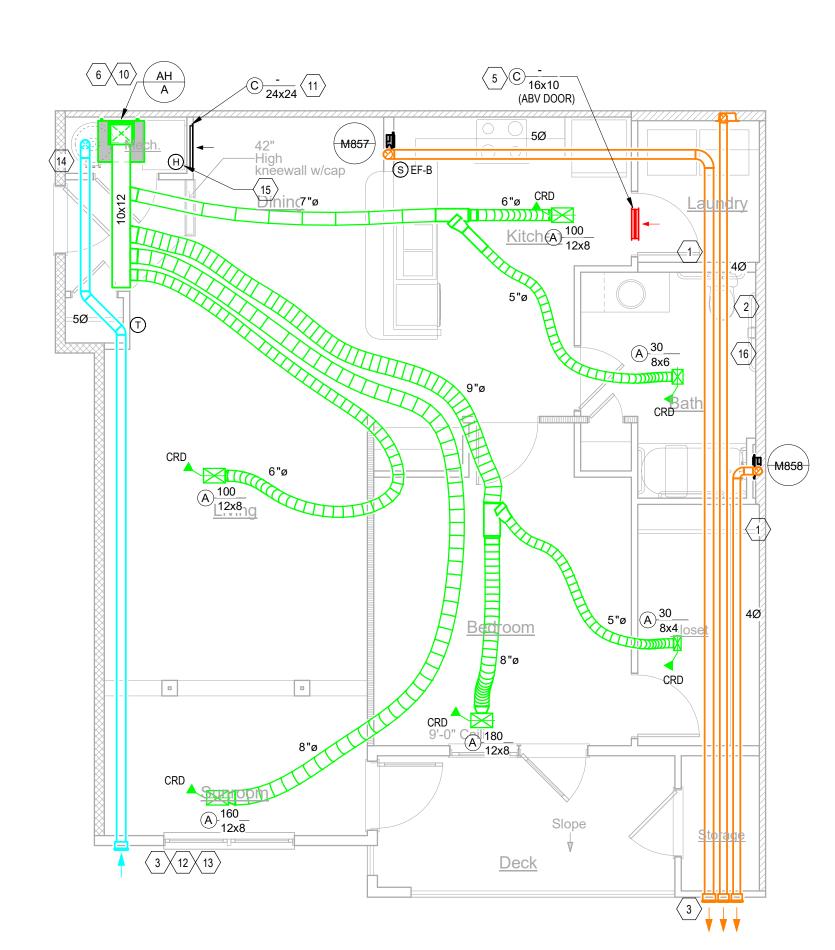
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CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT								
DDESCRIPTIVE CODE EQUIVALENT LENGTH CALCUL ATION								
PRESCRIPTIVE CODE EQUIVALENT LENGTH CALCULATION FLEGUE ELBOW FLBOW TOTAL								
ELBOW TYPE	ELBOW DEGREES	RADIUS (IN)	EQUIVALENT LENGTH (FT)	QTY. OF ELBOWS	EQUIVALENT LENGTH (FT)			
RADIUS MITERED	90	4	5' - 0"	0	0' - 0"			
RADIUS MITERED	45	4	2' - 6"	0	0' - 0"			
	TOTAL EQUIV	ALENT LENG	TH - FITTINGS:		0' - 0"			
	TOTAL HORIZ	ONTAL LENG	TH:		0' - 0"			
	TOTAL VERTI	CAL LENGTH:			0' - 0"			
	TOTAL SYSTE	M EQUIVALE	NT LENGTH (REF	ER TO DETAIL	_): 0' - 0"			
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.								
BASIS OF	BASIS OF DESIGN DRYER - OWNER PROVIDED - MANUFACTURER SPECIFIC							
MAKE	E: SOM	ETHING	MODEL N	NO: ELSE				
NO. OF 90 DEGREE ELBOWS NO. OF 45 DEGREE ELBO								
ACTUAL STRAIGHT LENGTH ON PLAN: 0' - 0"								
0' - 0" IS LESS THAN 60' - 0"THEREFORE:								
DRYER COMPLIES WITH MANUFACTURER'S ALLOWABLE LENGTH								











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