SHEET LIST - WEST BUILDING

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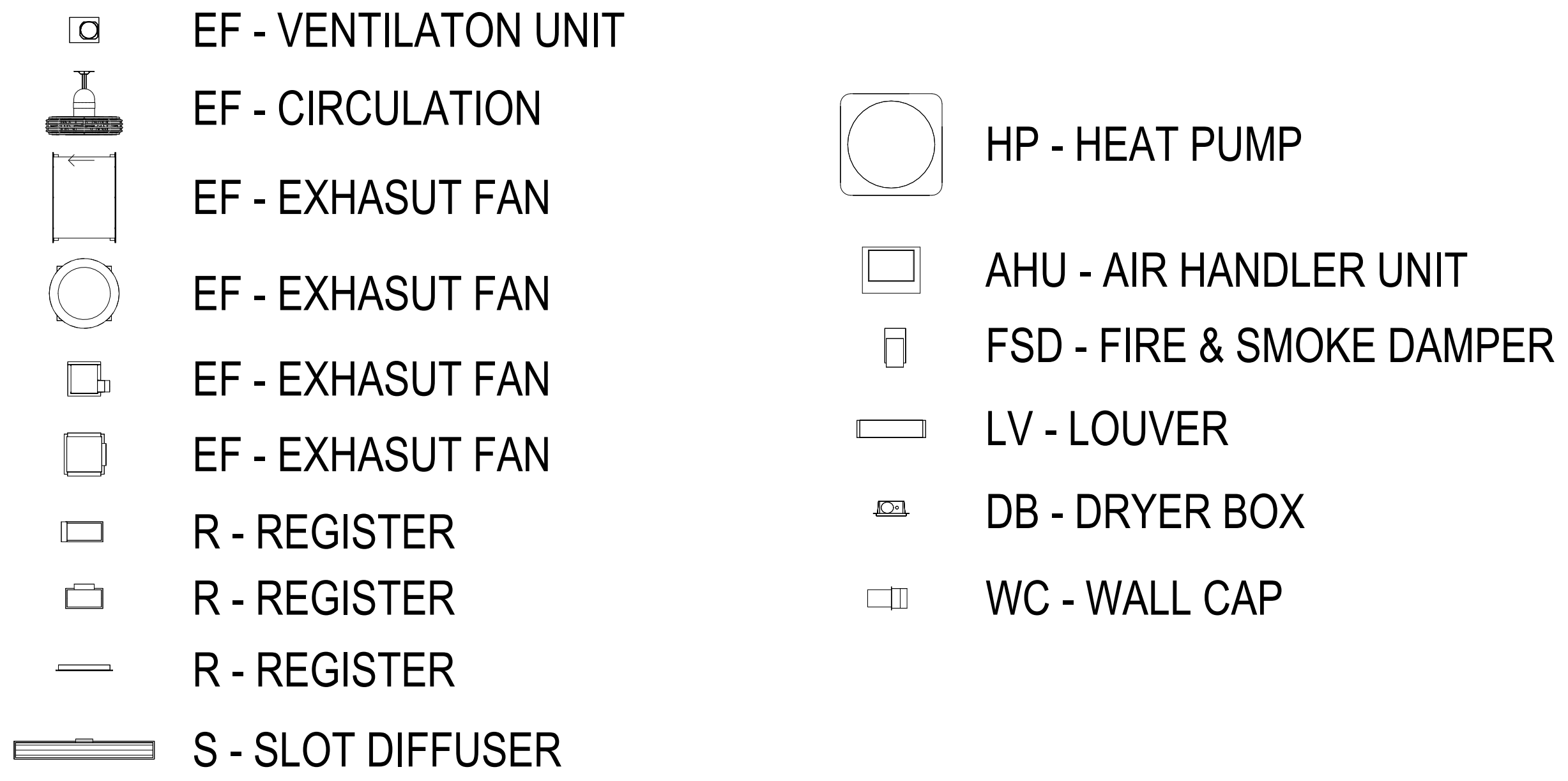

① MECHANICAL LEGEND - WEST BUILDING
1/4" = 1'-0"

D A D | ENGINEERING

PROJECT # : 26032
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No.	Description	Date

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LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL INDEX - WEST BUILDING

SHEET NUMBER:
M1.004

NOT RELEASED FOR CONSTRUCTION

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HVAC GENERAL NOTES:

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2021 LOUISIANA STATE UNIFORM CONSTRUCTION CODE, INCLUDING THE 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL MECHANICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2021 INTERNATIONAL FUEL GAS CODE, AND 2021 INTERNATIONAL PLUMBING CODE, EACH WITH LOUISIANA AMENDMENTS; NFPA 70 (2020 NEC); NFPA 90A; NFPA 96; NFPA 101 WHERE APPLICABLE; CITY OF BATON ROUGE / EAST BATON ROUGE PARISH REQUIREMENTS; AND OTHER REFERENCED STANDARDS. VERIFY THE CODE EDITIONS APPLICABLE TO THE PERMIT WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO CONSTRUCTION.

2. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, SUPPORTS, DEVICES, CONDUIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE MECHANICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE THE DRAWINGS, BUT REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSION OF BUILDING COMPONENTS SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS, SCALE, ETC., NOTIFY THE ARCHITECT IMMEDIATELY.

3. MATERIAL, 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.

4. 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.

5. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT 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 INCLUDING SENSOR LOCATIONS, SEQUENCE OF OPERATION AND PRODUCT DATA; MECHANICAL VENTILATION REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE. SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY IN ONE PACKAGE WITH EACH ITEM CLEARLY NOTED BY THE TAG USED ON THE DRAWINGS.

6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

7. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.

8. ALL HVAC COMPRESSORS SHALL HAVE A MANUFACTURER'S WARRANTY PROVIDING A MINIMUM TOTAL COVERAGE PERIOD OF FIVE YEARS, UNLESS A LONGER PERIOD IS INDICATED IN THE EQUIPMENT SCHEDULES OR SPECIFICATIONS.

9. FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING UNITS, SEE ARCHITECTURAL DRAWINGS.

10. INSTALL ROOF MOUNTED OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON EQUIPMENT RACK. ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED PER DETAILS AND AS RECOMMENDED BY THE MANUFACTURER.

11. DWELLING UNIT SPLIT SYSTEM OUTDOOR UNIT EQUIPMENT HAS BEEN SHOWN ON THE ROOF 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 RELATION TO THE REFRIGERANT LINE SET ROOF JACK/HOOD (PENETRATION THROUGH THE ROOF) IS CRITICAL FOR THE PROJECT. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION 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 SUBMIT THE REFRIGERANT PIPING DRAWINGS AS OUTLINED IN THE SHOP DRAWING NOTE ABOVE.

12. PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

13. MOUNT TOP OF THERMOSTATS 46" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES. ALL THERMOSTATS SHALL BE ADA COMPLIANT.

14. 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.

15. 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.

16. THE GENERAL CONTRACTOR SHALL COORDINATE SERVICE ACCESS PATHS FOR ROOF MOUNTED EQUIPMENT REQUIRING ROUTINE MAINTENANCE. PROVIDE CODE COMPLIANT GALVANIZED STEEL CROSSING STRUCTURE (E.G. STAIRS WITH HAND RAILS, LADDERS, ETC.) FOR ANY OBSTRUCTION (DUCTWORK, PIPING, ETC.) THAT EXCEEDS 1'-6 ”h IN HEIGHT X 1'-6”h IN WIDTH. 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 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 ”h HIGH BY 3'-0”h WIDE.

17. 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.

18. ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE 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 PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.

19. ACCESS DOORS SHALL BE INSTALLED AT ALL FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS TO FACILITATE INSPECTION AND MAINTENANCE. PERMANENTLY IDENTIFY THE ACCESS DOOR BY A DIE-CUT LABEL WITH .”h HIGH RED BLOCK LETTERS ON A WHITE BACKGROUND. LABEL SHALL READ “FIRE DAMPER”, “COMBINATION FIRE/SMOKE DAMPER” OR “SMOKE DAMPER”.

20. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A 2 ”h HIGH SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 1 ” h HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS. THE NAMEPLATE ON THE OUTDOOR EQUIPMENT SHALL INDICATE THE DWELLING UNIT NUMBER IT SERVES AS WELL AS THE EQUIPMENT ID TAG.

21. REFER TO ARCHITECTURAL PLANS FOR ALL FURRDOWN CEILING AREAS. CONTRACTOR SHALL ADVISE ARCHITECT AND ENGINEER OF ANY CONFLICTS BETWEEN ARCHITECTURAL AND MECHANICAL DRAWINGS.

22. REFER TO ARCHITECTURAL PLANS FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.

23. 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.

24. 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.

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

26. DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN ELECTRICAL ROOMS, TELECOMM 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.

27. WIND RESISTANCE - ROOFTOP AND EXTERIOR MECHANICAL EQUIPMENT, CURBS, RACKS, DUCTWORK, PIPING, AND SUPPORTS SHALL BE ANCHORED TO RESIST THE PROJECT DESIGN WIND LOADS IN ACCORDANCE WITH THE STRUCTURAL DESIGN CRITERIA, APPLICABLE BUILDING CODE, MANUFACTURER'S REQUIREMENTS, AND APPROVED DETAILS.

ACCESSORY OCCUPIED SPACES CONNECTED TO THE GARAGE SHALL BE MAINTAINED AT THE REQUIRED PRESSURE RELATIONSHIP AND VENTILATED IN ACCORDANCE WITH THE 2021 IMC. DO NOT USE GARAGE AIR AS RETURN OR TRANSFER AIR TO OCCUPIED BUILDING AREAS EXCEPT WHERE EXPRESSLY PERMITTED BY CODE.

MECHANICAL EQUIPMENT AND APPLIANCES LOCATED IN THE PARKING GARAGE SHALL BE INSTALLED AND PROTECTED IN ACCORDANCE WITH 2021 IMC REQUIREMENTS FOR GARAGES, INCLUDING REQUIRED IGNITION-SOURCE ELEVATION, VEHICLE CLEARANCE, AND IMPACT PROTECTION WHERE APPLICABLE.

DUCTWORK SERVING PARKING GARAGE EXHAUST/SUPPLY SHAFTS AND PENETRATIONS SHALL COMPLY WITH THE APPLICABLE FIRE-RESISTANCE, SHAFT, FIRE-DAMPER, AND SMOKE-DAMPER REQUIREMENTS. PROVIDE ACCESS TO ALL REQUIRED DAMPERS AND DEVICES.

GARAGE EXHAUST AIR SHALL DISCHARGE DIRECTLY TO THE OUTDOORS AT A LOCATION COMPLYING WITH THE 2021 IMC EXHAUST-OUTLET SEPARATION REQUIREMENTS. COORDINATE GARAGE EXHAUST TERMINATIONS WITH BUILDING OUTDOOR-AIR INTAKES, OPERABLE OPENINGS, PROPERTY LINES, AND OTHER BUILDING OPENINGS.

LOCATE GARAGE EXHAUST INLETS AND MAKEUP-AIR OPENINGS TO PROMOTE AIR MOVEMENT THROUGHOUT THE GARAGE AND MINIMIZE DEAD ZONES. COORDINATE FINAL SENSOR AND INLET LOCATIONS WITH THE GARAGE VENTILATION CONTROL MANUFACTURER.

GARAGE FAN CONTROLS SHALL COMPLY WITH 2021 IECC C403 REQUIREMENTS. WHERE REQUIRED, CONTROLS SHALL STAGE FANS OR MODULATE AVERAGE AIRFLOW TO 50 PERCENT OR LESS OF DESIGN CAPACITY, OR INTERMITTENTLY OPERATE FANS AS PERMITTED WHILE MAINTAINING ACCEPTABLE CONTAMINANT LEVELS. FAILURE OF A CONTAMINANT-SENSING DEVICE SHALL COMMAND THE ASSOCIATED EXHAUST SYSTEM TO DESIGN AIRFLOW.

GARAGE VENTILATION CONTROLS SHALL PROVIDE FULL-ON VENTILATION OF NOT LESS THAN 0.75 CFM/SF OF FLOOR AREA SERVED AND STANDBY VENTILATION OF NOT LESS THAN 0.05 CFM/SF WHERE AUTOMATIC OPERATION IS USED, EXCEPT WHERE AN APPROVED ALTERNATIVE IS SPECIFICALLY PERMITTED BY THE APPLICABLE CODE.

WHERE DEMAND-CONTROLLED GARAGE VENTILATION IS USED, PROVIDE LISTED CARBON MONOXIDE (CO) DETECTORS IN CONJUNCTION WITH NITROGEN DIOXIDE (NO2) DETECTORS, INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND MANUFACTURER'S INSTRUCTIONS. INTERLOCK DETECTORS, FANS, VARIABLE-FREQUENCY DRIVES, DAMPERS, AND CONTROLS FOR AUTOMATIC OPERATION.

ENCLOSED PARKING GARAGE VENTILATION SHALL COMPLY WITH 2021 IMC SECTION 404 AND THE 2021 IECC WITH LOUISIANA AMENDMENTS. PROVIDE MECHANICAL VENTILATION AT THE AIRFLOW RATES INDICATED ON THE DRAWINGS.

PARKING GARAGE VENTILATION:

TESTING, ADJUSTING AND BALANCING (COMMON AREAS AND PARKING):

1. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR AND WATER QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT THE CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL.

2. ALL PARKING GARAGE MECHANICAL VENTILATION SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO PROVIDE AIR QUANTITIES INDICATED. IN ADDITION, THE COMPLETE SYSTEM OPERATION (FANS, SENSORS, CONTROLS, SEQUENCE OF OPERATION, ETC.) SHALL BE CERTIFIED BY THE MANUFACTURER. THE MANUFACTURER SHALL SUBMIT A LETTER STATING THAT THE SYSTEM IS OPERATING AS DESIGNED AND IS IN SAFE AND PROPER WORKING ORDER.

3. VENTILATION AIR DISTRIBUTION SYSTEMS (OUTDOOR AIR AND EXHAUST AIR) SHALL BE BALANCED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS.

4. 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%.

TESTING, ADJUSTING AND BALANCING (RESIDENTIAL):

1. AFTER CONSTRUCTION, ALL HVAC SYSTEMS SHALL BE CLEANED, STARTED, TESTED, AND ADJUSTED TO SATISFY THE EQUIPMENT SCHEDULES, DESIGN AIR QUANTITIES, MANUFACTURER REQUIREMENTS, AND SEQUENCE OF OPERATION. INDIVIDUAL DWELLING-UNIT SYSTEMS EXEMPT FROM FORMAL TESTING AND BALANCING UNDER THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOUISIANA AMENDMENTS, SHALL STILL BE VERIFIED FOR PROPER AIRFLOW AND OPERATION BY THE INSTALLING CONTRACTOR.

2. AMENITY, COMMON-AREA, CENTRAL OUTDOOR-AIR, AND OTHER APPLICABLE SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED WHERE REQUIRED BY THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOUISIANA AMENDMENTS, OR BY THE CONTRACT DOCUMENTS.

3. WHERE TESTING, ADJUSTING, AND BALANCING OR SYSTEM COMMISSIONING IS REQUIRED BY THE 2021 IECC WITH LOUISIANA AMENDMENTS, PROVIDE THE REQUIRED REPORTS AND DOCUMENTATION. COMPLY WITH THE APPLICABLE C408 REQUIREMENTS FOR SYSTEM BALANCING AND COMMISSIONING.

4. COMMON-AREA AND DWELLING-UNIT VENTILATION AIR DISTRIBUTION SYSTEMS, INCLUDING OUTDOOR AIR AND EXHAUST AIR, SHALL BE ADJUSTED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, THESE AIRFLOW RATES ARE MINIMUM DESIGN RATES AND THE PROJECT BALANCE TOLERANCE FOR OUTDOOR AIR AND EXHAUST AIR SHALL BE 0% TO +10%.

5. FOR AIR SYSTEMS SUBJECT TO 2021 IECC WITH LOUISIANA AMENDMENTS SECTION C408.2.2, BALANCING SHALL FIRST MINIMIZE THROTTLING LOSSES. FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS EXCEPT AS OTHERWISE PERMITTED BY CODE.

6. WHERE FORMAL TESTING AND BALANCING IS REQUIRED, SUBMIT A WRITTEN FINAL BALANCE REPORT TO THE ARCHITECT/ENGINEER AND OWNER. REPORTS SHALL INCLUDE DESIGN AND FINAL MEASURED AIRFLOWS, FAN DATA, OUTDOOR-AIR AND EXHAUST-AIR QUANTITIES, AND OTHER TEST DATA REQUIRED TO DOCUMENT COMPLIANCE.

MECHANICAL/ELECTRICAL COORDINATION:

1. 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.

2. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.

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

4. COORDINATE POWER AND FIRE ALARM REQUIREMENTS OF ALL COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS WITH THE 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 ACCORDING TO CODE REQUIREMENTS.

6. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 26 CONTRACTOR.

7. 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 ”h X 30”h WIDE (OR THE WIDTH OF THE PANEL WHICHEVER IS GREATER). THE CONTROL PANEL DOOR SHALL BE ALLOWED TO OPENREA 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 ”h X 24”h WIDE (OR THE WIDTH OF THE PANEL WHICHEVER IS GREATER).

8. ROUTING OF PIPING AND DUCTWORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. PIPING AND DUCTWORK SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER.

DUCT SMOKE DETECTORS:

1. DUCT SMOKE DETECTORS SHALL BE PROVIDED WHERE REQUIRED BY THE 2021 IMC WITH LOUISIANA AMENDMENTS, THE APPLICABLE BUILDING/FIRE CODE, AND NFPA 72. PROVIDE DETECTORS, SYSTEM SHUTDOWN, AND FIRE-ALARM INTERFACE AS REQUIRED FOR THE SYSTEM CONFIGURATION AND AIRFLOW.

2. DUCT SMOKE DETECTOR ACTUATION SHALL SHUT DOWN THE ASSOCIATED AIR-DISTRIBUTION SYSTEM AND INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM AS REQUIRED BY THE FLORIDA FIRE PREVENTION CODE AND NFPA 72. COORDINATE FURNISHING, MOUNTING, WIRING, TESTING, AND FIRE ALARM INTERFACE RESPONSIBILITIES WITH DIVISION 26/28 CONTRACT DOCUMENTS.

AIR DISTRIBUTION:

1. SUPPLY, RETURN, AND OUTDOOR-AIR DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE WITH LOUISIANA AMENDMENTS, CHAPTER 6; SMACNA HVAC DUCT CONSTRUCTION STANDARDS; AND THE REQUIREMENTS OF THESE DOCUMENTS. ALL JOINTS AND SEAMS SHALL BE SEALED AS REQUIRED BY THE APPLICABLE ENERGY CODE AND THESE SPECIFICATIONS. LEASING, AMENITY, AND COMMON-AREA DUCTWORK SHALL BE SHEET METAL UNLESS NOTED OTHERWISE.

a. SEAL, INSPECT AND TEST SHEETMETAL DUCTWORK PRIOR TO INSULATING OR CONCEALING. SEAL ALL DUCTWORK AND PLENUMS TO MEET SMACNA SEAL CLASS A.

b. SEAL ALL TRANSVERSE JOINT, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS.

c. 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.

d. ALL CONNECTIONS SHALL BE SEALED, INCLUDING BUT NOT LIMITED TO SPIN-IN FITTINGS, TAPS, OTHER BRANCH CONNECTIONS, ACCESS DOORS, AND DUCT CONNECTIONS TO EQUIPMENT.

e. SEALING THAT WOULD VOID PRODUCT LISTINGS IS NOT REQUIRED.

f. SPIRAL LOCK SEAMS NEED NOT BE SEALED.

2. SUPPLY AND RETURN AIR DUCTWORK FOR DWELLING UNITS - FIBERGLASS DUCT BOARD (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) WITH GLASS FABRIC REINFORCED VAPOR BARRIER. FIBERGLASS DUCTWORK AND TAPING SYSTEM SHALL BE U.L._181 LISTED AND SHALL BEAR THE U.L. LABEL. ALL FIBERGLASS DUCTWORK AND ACCESSORIES SHALL BE FABRICATED BY A MANUFACTURER'S AUTHORIZED FABRICATOR, SHALL BE INSTALLED WITH THE FABRICATOR'S SUPERVISION AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. FIBERGLASS DUCTWORK SHALL NOT BE USED OUTDOORS. DUCT BOARD SHALL BE JOHNS MANVILLE SUPERDUCT RC OR EQUAL.

3. EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL (G 90 MINIMUM) WITH ALL SEAMS CAULKED AND SEALED WEATHERTIGHT. SLOPE DUCTWORK AT 1/4 ”h PER FOOT TRANSVERSELY TO PREVENT STANDING WATER ON TOP OF DUCTWORK. ALSO REFER TO INSULATION NOTE 1e BELOW.

4. ALL OPEN ENDED DUCTS AND FAN OUTLETS SHALL HAVE . ”h X .”h HARDWARE CLOTH AFFIXED TO THE OPENING.

5. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL (G 90 MINIMUM) CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.

6. 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.

7. 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). FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

8. 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).

9. DWELLING UNITS- ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A TAB TYPE FITTING.

10. 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.

11. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

12. EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.

13. PROVIDE FIRE DAMPERS, CEILING RADIATION DAMPERS, OR OTHER LISTED PROTECTION AT DUCT AND AIR-TRANSFER PENETRATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES WHERE REQUIRED BY THE 2021 INTERNATIONAL BUILDING CODE WITH LOUISIANA AMENDMENTS. DO NOT INSTALL FIRE DAMPERS WHERE A SPECIFIC CODE EXCEPTION APPLIES. FIRE DAMPERS SHALL COMPLY WITH UL 555 AND SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND THE MANUFACTURER'S INSTRUCTIONS.

14. PROVIDE SMOKE DAMPERS OR COMBINATION FIRE/SMOKE DAMPERS AT DUCT AND AIR-TRANSFER PENETRATIONS WHERE REQUIRED BY THE 2021 INTERNATIONAL BUILDING CODE WITH LOUISIANA AMENDMENTS. DO NOT INSTALL SMOKE DAMPERS WHERE A SPECIFIC CODE EXCEPTION APPLIES OR WHERE THEY WOULD INTERFERE WITH AN APPROVED SMOKE CONTROL SYSTEM. SMOKE DAMPERS SHALL COMPLY WITH UL 555S; COMBINATION FIRE/SMOKE DAMPERS SHALL COMPLY WITH UL 555 AND UL 555S.

15. DUCT ACCESS DOORS: PROVIDE ACCESS DOORS IN DUCTWORK AT EACH FIRE, COMBINATION FIRE/SMOKE AND SMOKE DAMPER LOCATION.

16. PROVIDE OUTDOOR-AIR INTAKES AND EXHAUST OPENINGS WITH MOTORIZED, GRAVITY, OR OTHER CODE-COMPLIANT SHUTOFF DAMPERS WHERE REQUIRED BY THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOUISIANA AMENDMENTS. DAMPERS SHALL CLOSE WHEN THE ASSOCIATED VENTILATION SYSTEM IS NOT OPERATING, EXCEPT WHERE CONTINUOUS OPERATION OR ANOTHER CODE-PERMITTED CONDITION APPLIES.

17. 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.

18. WHERE BALANCING DAMPERS CANNOT BE ACCESSED FROM BELOW THE CEILING, PROVIDE A REMOTE OPERATED DAMPER; YOUNG REGULATOR OR EQUAL.

19. DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO EXHAUST FANS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL WITH WELDED SEAMS. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA 96 REQUIREMENTS. INSTALL GASKETED ACCESS DOORS AT 20' ON CENTER AND AT EACH CHANGE OF DIRECTION.

20. EXHAUST DUCTWORK SERVING POOL EQUIPMENT ROOMS SHALL BE 16-GAUGE ALUMINUM (ALLOY 3003 - H14 TEMPER PER ASTM B209) SLOPE DUCTWORK AT 1/8 " PER FOOT TOWARDS DRAIN.

21. FLEXIBLE DUCT CONNECTORS SHALL BE USED TO CONNECT DUCTWORK AND PLENUMS TO FAN-ROTATING EQUIPMENT; DURODYNE EXCELON OR APPROVED EQUAL. FLEXIBLE CONNECTORS EXPOSED TO THE WEATHER SHALL BE UV AND OZONE RESISTANT. FABRICS, COATING 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.

22. EXPOSED INTERIOR DUCTWORK TO BE PAINTED SHALL HAVE ALL EXPOSED SURFACES (INCLUDING HANGER STRAPS) COATED WITH A "PAINT GRIP" FINISH FOR FIELD PAINTING. AS AN OPTION, MILL PHOSPHATIZED STEEL DUCTWORK MAY BE USED. LINE OR INSULATE PER HVAC GENERAL NOTES OR SPEC SECTION 23 07 00.

23. EXPOSED DOUBLE-WALL, INSULATED ROUND OR FLAT OVAL DUCT AND FITTINGS SHALL BE BY McGILL AIRFLOW LLC (OR EQUAL BY LINDAB, INC OR SEMCO, INC.). DUCT SYSTEM SHALL HAVE SPIRAL LOCKSEAM (OR WELDED) GALVANIZED SHEET METAL OUTER SHELL, 1 ”h THICK COATED ACOUSTICAL LINER, AND A PERFORATED SHEET METAL INNER LINER.

24. PROTECT DUCTS EXPOSED IN FINISHED SPACES FROM BEING DENTED, SCRATCHED, OR DAMAGED. TRIM DUCT SEALANTS FLUSH WITH METAL TO CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. TWO-PART TAPE SEALING SYSTEMS ARE NOT ALLOWED. REPAIR OR REPLACE DAMAGED DUCTWORK AND FINISH WORK THAT DOES NOT COMPLY WITH THESE REQUIREMENTS.

25. SUPPORT ROOF MOUNTED DUCTWORK AT 6 FT. OC (MAX.) WITH MIFAB SERIES DSA DUCT SUPPORT SYSTEM. UV RESISTANT RUBBER BASES SHALL BE PLACED ON ROOFING WALKPAD MATERIAL. COORDINATE WITH ROOFING INSTALLER.

INSULATION:

1. 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 AS LISTED BELOW:

i. SHEET METAL SUPPLY AND OUTSIDE AIR DUCTWORK: 2 ” THICK, 1 LB/FT3 DENSITY, R-6 MINIMUM INSTALLED.

ii. 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.

iii. ALL SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE THERMAL ENVELOPE OF THE BUILDING (INCLUDING CRAWL SPACES AND ATTIC SPACES): 3 ” THICK, .” LB/FT3 DENSITY, R-8 MINIMUM INSTALLED.

b. WHERE INDICATED ON THE DRAWINGS, INDOOR EXPOSED ROUND, SPIRAL AND OVAL SUPPLY AND RETURN AIR DUCT IN CONDITIONED SPACE SHALL BE LINED WITH 1 ” THICK ROUND DUCT LINER (MINIMUM R-4), JOHNS MANVILLE SPIRACOUSTIC PLUS OR EQUAL.

c. INDOOR EXPOSED ROUND AND SPIRAL OUTSIDE AIR DUCT SHALL BE INSULATED WITH 1 ” THICK PREFORMED FIBROUS GLASS PIPE INSULATION WITH VAPOR BARRIER JACKET [K-Value: 0.23 BTU ・in/hr・ft2・°F (0.033 W/m K), when tested in accordance with ASTM C 335 at 75 °F (24 °C)]; JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL.

d. EXTERIOR DUCTWORK SHALL BE LINED WITH 2 ” THICK DUCT LINER BOARD (MINIMUM R-8). JOHNS MANVILLE PERMACOTE LINACOUSTIC R-300 OR EQUAL. COAT THE EXTERIOR OF THE ENTIRE DUCT SURFACE WITH A RUST INHIBITIVE PAINT. PAINTING BY MECHANICAL. SUBMIT COLOR CHART TO THE ARCHITECT DURING THE SUBMITTAL PHASE. AS AN ALTERNATIVE, THERMADUCT OUTDOOR DUCT SYSTEM HAVING AN R-VALUE OF 12 MAY BE USED. SUBMIT PRODUCT DATA AND LAYOUT DRAWINGS DURING THE SUBMITTAL PHASE. SLOPE DUCTWORK AT 1/4 ” PER FOOT TRANSVERSELY TO PREVENT STANDING WATER ON TOP OF DUCTWORK.

e. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE INSULATED, WHERE REQUIRED, PER NFPA 96 AND LOCAL CODE REQUIREMENTS. KITCHEN HOOD SUPPLY DUCTWORK SHALL BE INSULATED AS SPECIFIED FOR HVAC SUPPLY DUCTWORK.

f. DUCT LINER FOR ACOUSTICS: LINE ALL SHEETMETAL DUCTWORK A MINIMUM OF 15'_0" (OR AS INDICATED) UPSTREAM AND DOWNSTREAM OF ALL AIR HANDLING UNITS, ROOFTOP UNITS AND TERMINAL UNITS. DUCT LINER FOR RECTANGULAR DUCTS SHALL BE 1.” 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. LINED DUCTWORK DOES NOT REQUIRE ADDITIONAL EXTERIOR INSULATION WHERE LINER MEETS REQUIRED R-VALUES.\N

g. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR PAINTING OF DUCTWORK, INSULATION, ETC. IN EXPOSED INTERIOR AREAS.

2. PIPE INSULATION:

a. REFRIGERANT SUCTION PIPING INSULATION SHALL BE FLEXIBLE ELASTOMERIC TUBING, AP/ARMAFLEX PIPE INSULATION WITH REINFORCED LAP SEAL AS MANUFACTURED BY ARMACELL OR EQUAL. INSULATION THICKNESS SHALL BE 1.5” THICK . INSULATION SHALL BE SLID OVER PIPING FROM ONE END BEFORE PIPE ENDS ARE JOINED AND SHALL NOT BE SLIT OR CUT. ALL JOINTS AND SEAMS SHALL BE SEALED WEATHER-TIGHT. FINISH COAT FOR FLEXIBLE ELASTOMERIC INSULATION INSTALLED OUTDOORS SHALL BE WATER-BASED LATEX ENAMEL DESIGNED FOR USE OVER ALL FORMS OF FLEXIBLE ELASTOMERIC INSULATION. FINISH COAT SHALL PROVIDE A PROTECTIVE FINISH SUITABLE TO BOTH INDOOR AND 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.

b. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITHIN THE BUILDING'S THERMAL ENVELOPE WITH SECTIONAL PREFORMED FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET; JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL. THICKNESS SHALL BE MANUFACTURER'S RECOMMENDED THICKNESS TO PREVENT CONDENSATION ON THE EXTERIOR OF THE JACKET; MINIMUM THICKNESS SHALL BE ." FOR PIPE SIZES UP TO 1. “ AND 1” THICKNESS FOR PIPE SIZES 1.“ AND LARGER.

c. INSULATE ALL CONDENSER WATER SUPPLY (CWS), CONDENSER WATER RETURN (CWR) WITH SECTIONAL PREFORMED FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET; JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL. FITTINGS, VALVES AND PIPING SPECIALITIES SHALL BE PROVIDED WITH FORMED FITTING COVERS BY PROTO PVC CORPORATION. SEE SPECIFICATIONS FOR INSULATION THICKNESSES AND ADDITIONAL INFORMATION. ALL EXPOSED INSULATED PIPING BELOW 10'_0" AFF SHALL BE PROTECTED BY A CORRUGATED ALUMINUM JACKET WITH ALUMINUM BANDS 3'_0" O.C. INSULATE ALL EXTERIOR COOLING WATER PIPING WITH 1. ” CELLULAR GLASS INSULATION (PITTSBURGH CORNING FOAMGLAS OR APPROVED EQUAL) OVER ELECTRIC HEAT TRACING. COVER WITH VAPOR BARRIER AND A CORRUGATED ALUMINUM JACKET WITH BANDS 3'_0" O.C. AND FORMED FITTING COVERS BY PROTO PVC CORPORATION.

SMOKE CONTROL SYSTEMS:

1. ALL FANS, DAMPERS, AND OTHER HVAC EQUIPMENT THAT ARE PART OF A SMOKE CONTROL SYSTEM SHALL BE MONITORED AND CONTROLLED BY A U.L. LISTED FIRE FIGHTERS' SMOKE CONTROL STATION (FSCS) IN ACCORDANCE WITH NFPA 92. THE FSCS SHALL BE MANUFACTURED BY SIEMENS, HONEYWELL, NOTIFIER, JOHNSON CONTROLS OR APPROVED EQUAL. THE FSCS SIZE AND CAPACITY SHALL BE AS REQUIRED BY THE NUMBER OF SMOKE CONTROL POINTS. THE STATION SHALL BE LOCATED IN THE FIRE COMMAND CENTER. THE FSCS SHALL COMPLY WITH BUILDING CODE REQUIREMENTS AND NFPA 92 GUIDELINES.

2. SMOKE CONTROL FANS SHALL BE UL LISTED - POWER VENTILATORS FOR SMOKE CONTROL SYSTEMS AND INCLUDE, BUT NOT LIMITED TO, A HIGH TEMPERATURE OPTION (500oF FOR A MINIMUM OF FOUR HOURS, AND 1000oF FOR A MINIMUM OF FIFTEEN MINUTES), DRIVE COMPONENTS SIZED FOR A MININIMUM OF 150% OF THE DRIVEN LOAD AND A MINIMUM OF TWO HEAT RESISTANT BELTS WITHIN A PROTECTIVE BELT TUBE.

3. SMOKE CONTROL SYSTEMS ARE TO BE TESTED AND CERTIFIED BY A 3RD PARTY SPECIAL INSPECTOR UNDER CONTRACT WITH THE OWNER. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PIPING:

1. REFRIGERANT PIPING SHALL BE TYPE L OR ACR (AIR CONDITIONING AND REFRIGERATION FIELD SERVICE) COPPER TUBING WITH BRAZED JOINTS.

2. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS.

3. CONDENSATE FROM AIR-CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO AN APPROVED POINT OF DISPOSAL IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE WITH LOUISIANA AMENDMENTS, AND PLUMBING REQUIREMENTS. CONDENSATE PIPING SHALL BE TYPE M COPPER OR SCHEDULE 40 PVC WHERE PERMITTED. MATERIALS EXPOSED WITHIN HVAC PLENUMS SHALL COMPLY WITH 2021 IMC WITH LOUISIANA AMENDMENTS SECTION 602.2.1. PROVIDE AUXILIARY DRAIN PANS, SECONDARY DRAINS, WATER-LEVEL DETECTION DEVICES, AND EQUIPMENT SHUTDOWN PROTECTION WHERE REQUIRED BY 2021 IMC WITH LOUISIANA AMENDMENTS SECTION 307.2.3. PVC EXPOSED TO WEATHER SHALL BE PROTECTED FROM UV EXPOSURE WITH A COMPATIBLE COATING OR JACKET.

4. PROVIDE MANUAL AIR VENT (WITH DRAIN) AT HIGH POINTS OF ALL RECIRCULATING WATER PIPING SYSTEMS.

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

6. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.

7. CONDENSER PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A_53B MINIMUM WITH SCREWED OR WELDED JOINTS.

8. WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE. IN GENERAL, ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 350 FEET OF THE HIGHEST PIPING POINT MUST HAVE PRESSURE RATINGS OF 300 PSI W.O.G. OR GREATER. ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 575 FEET OF THE HIGHEST PIPING POINT MUST HAVE PRESSURE RATINGS OF 500 PSI W.O.G. OR GREATER.

9. EXPANSION IN PIPING SYSTEMS SHALL BE COMPENSATED FOR BY THE USE OF U-BENDS, Z-BENDS OR EXPANSION JOINTS AS INDICATED. U-BENDS (LOOPS) AND Z-BENDS SHALL BE COMPLETE WITH PIPE GUIDES AND ANCHORS. EXPANSION COMPENSATION IN PIPING RISERS OVER 100 FEET IN LENGTH SHALL BE MADE WITH ENGINEERED SYSTEMS; EITHER SPRING TYPE ISOLATORS AND CENTRAL ANCHOR SYSTEM (BY MASON INDUSTRIES) OR FLEXIBLE HOSE EXPANSION LOOPS (METRALOOP AS MANUFACTURED BY THE METRAFLEX COMPANY) REFER TO SPECIFICATION SECTION 23 21 13 FOR ADDITIONAL REQUIREMENTS.

10. WHERE PIPING CROSSES BUILDING EXPANSION JOINTS, PROVIDE SPHERICAL RUBBER FLEXIBLE CONNECTORS. AS SPECIFIED ABOVE. REFER TO SPECIFICATION SECTION 23 21 13 FOR ADDITIONAL REQUIREMENTS.

DWELLING UNITS:

RETURN-AIR OPENINGS SERVING DWELLING UNITS SHALL COMPLY WITH 2021 IMC SECTION 601.5. WHERE A RETURN-AIR GRILLE IS LOCATED IN AN OPEN KITCHEN/LIVING AREA, MAINTAIN THE REQUIRED SEPARATION FROM COOKING APPLIANCES AND COMPLY WITH ALL APPLICABLE EXCEPTIONS.

MECHANICAL CLOSETS USED AS RETURN-AIR PLENUMS SHALL BE CONSTRUCTED AND MAINTAINED AS PLENUMS. MATERIALS, WIRING, PIPING, AND COMPONENTS EXPOSED WITHIN THE PLENUM SHALL COMPLY WITH THE 2021 IMC AND NFPA 70 REQUIREMENTS APPLICABLE TO PLENUM SPACES.

CONDENSATE FROM COOLING EQUIPMENT SHALL BE ROUTED TO AN APPROVED PLACE OF DISPOSAL IN ACCORDANCE WITH 2021 IMC SECTION 307 AND APPLICABLE PLUMBING REQUIREMENTS. PROVIDE INDIRECT WASTE CONNECTIONS WHERE DISCHARGING TO THE SANITARY SYSTEM AND PROVIDE REQUIRED AUXILIARY DRAIN OR WATER-LEVEL DETECTION/SHUTDOWN PROTECTION.

DWELLING-UNIT FRESH-AIR SYSTEMS SHALL BE INSTALLED, CONTROLLED, AND BALANCED TO DELIVER THE OUTDOOR-AIR QUANTITIES SHOWN ON THE DRAWINGS. ENERGY-CODE COMPLIANCE FOR DWELLING-UNIT VENTILATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE PROJECT'S APPROVED ENERGY COMPLIANCE ANALYSIS AND ENERGY MODEL. WHERE THE TOTAL BUILDING PERFORMANCE METHOD OF 2021 IECC SECTION C407 IS UTILIZED, SYSTEMS SHALL COMPLY WITH THE APPROVED ENERGY MODEL AND ASSOCIATED COMPLIANCE DOCUMENTATION. PROVIDE ENERGY RECOVERY ONLY WHERE REQUIRED BY THE APPROVED ENERGY CODE COMPLIANCE PATH AND AUTHORITY HAVING JURISDICTION.

CORRIDOR DOAS SYSTEMS ARE DESIGNED AS 100 PERCENT OUTDOOR-AIR SYSTEMS SERVING COMMON CORRIDORS ONLY, WITH NO RETURN AIR DUCTED BACK TO THE DOAS UNITS. SYSTEMS SHALL BE BALANCED TO THE DESIGN OUTDOOR-AIR QUANTITIES SHOWN ON THE DRAWINGS. ENERGY-RECOVERY REQUIREMENTS FOR THE CORRIDOR DOAS SHALL BE DETERMINED BY THE PROJECT'S APPROVED ENERGY COMPLIANCE ANALYSIS, SYSTEM CONFIGURATION, APPLICABLE 2021 IECC PROVISIONS WITH LOUISIANA AMENDMENTS, AND THE AUTHORITY HAVING JURISDICTION. PROVIDE ENERGY RECOVERY ONLY WHERE REQUIRED BY THE APPROVED ENERGY CODE COMPLIANCE PATH.

1. AIR HANDLERS SHALL HAVE A MANUFACTURER'S DESIGNATION FOR AN AIR LEAKAGE OF NO MORE THAN 2% OF THE DESIGN AIR FLOW RATE WHEN TESTED IN ACCORDANCE WITH ASHRAE 193.

2. 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.

3. EACH DWELLING UNIT SHALL BE PROVIDED WITH THE REQUIRED OUTDOOR-AIR VENTILATION SYSTEM IN ACCORDANCE WITH THE 2021 IMC WITH LOUISIANA AMENDMENTS. PROVIDE THE DESIGN OUTDOOR-AIR RATE SHOWN ON THE DRAWINGS AND CONTROLS REQUIRED FOR CONTINUOUS OR CODE-PERMITTED INTERMITTENT OPERATION.

4. OUTDOOR-AIR INTAKES AND EXHAUST OUTLETS SHALL COMPLY WITH THE SEPARATION REQUIREMENTS OF THE 2021 IMC WITH LOUISIANA AMENDMENTS. COORDINATE INTAKES WITH DRYER, BATHROOM, KITCHEN, GARAGE, PLUMBING VENT, AND OTHER CONTAMINANT SOURCES, OPERABLE OPENINGS, AND PROPERTY LINES.

5. BATHROOM, TOILET-ROOM, AND OTHER ENVIRONMENTAL EXHAUST AIR SHALL DISCHARGE DIRECTLY TO THE OUTDOORS AND SHALL NOT TERMINATE IN ATTICS, CRAWL SPACES, INTERSTITIAL SPACES, OR OTHER CONCEALED BUILDING SPACES.

6. DOMESTIC CLOTHES DRYER EXHAUST SYSTEMS SHALL BE INDEPENDENT, SHALL DISCHARGE TO THE OUTDOORS, AND SHALL BE CONSTRUCTED, SIZED, SUPPORTED, AND TERMINATED IN ACCORDANCE WITH 2021 IMC WITH LOUISIANA AMENDMENTS SECTION 504 AND THE DRYER MANUFACTURER'S INSTRUCTIONS. PROVIDE PERMANENT IDENTIFICATION OF CONCEALED DUCT LENGTH WHERE REQUIRED. SCREENS SHALL NOT BE INSTALLED AT DRYER EXHAUST TERMINATIONS.

7. REFRIGERANT PIPING, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE 2021 IMC WITH LOUISIANA AMENDMENTS, ASHRAE 15 AND ASHRAE 34 AS REFERENCED BY CODE, EQUIPMENT LISTINGS, AND MANUFACTURER REQUIREMENTS. FOR A2L REFRIGERANTS, PROVIDE ALL REQUIRED LEAK DETECTION, AIRFLOW, MITIGATION, SHAFT/CHASE, IDENTIFICATION, TESTING, AND INSTALLATION FEATURES REQUIRED BY THE LISTING AND APPLICABLE CODE.

8. ALL DWELLING-UNIT AIR-HANDLING EQUIPMENT SHALL BE INSTALLED WITH SERVICE ACCESS, FILTER ACCESS, AND REQUIRED WORKING CLEARANCES. ACCESS SHALL NOT REQUIRE REMOVAL OF PERMANENT BUILDING CONSTRUCTION.

9. SEAL ALL DUCT JOINTS, SEAMS, BOOTS, PLENUMS, AND AIR-HANDLER CONNECTIONS IN ACCORDANCE WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOUISIANA AMENDMENTS. WHERE DUCT LEAKAGE TESTING IS REQUIRED BY THE APPLICABLE ENERGY COMPLIANCE PATH, TEST AND DOCUMENT THE SYSTEM AS REQUIRED. WHERE AN EXPRESS CODE EXCEPTION APPLIES, TESTING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED.

D A D | ENGINEERING

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No.	Description	Date

Rambler Baton Rouge

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Baton Rouge, LA 70808

LV COLLECTIVE

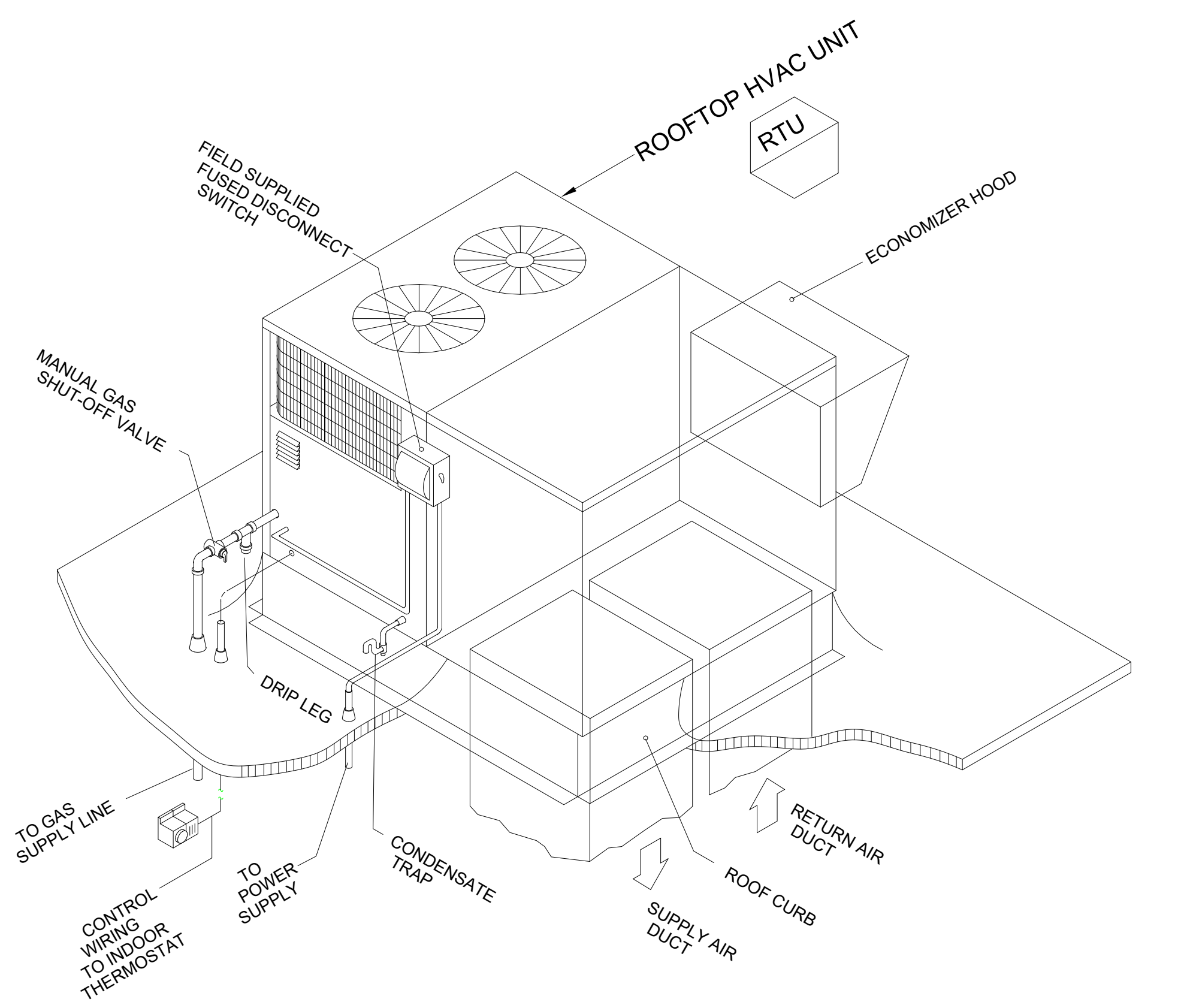
DD SET
9/30/2026

SHEET TITLE:
MECHANICAL
GENERAL NOTES

SHEET NUMBER:
M1.100

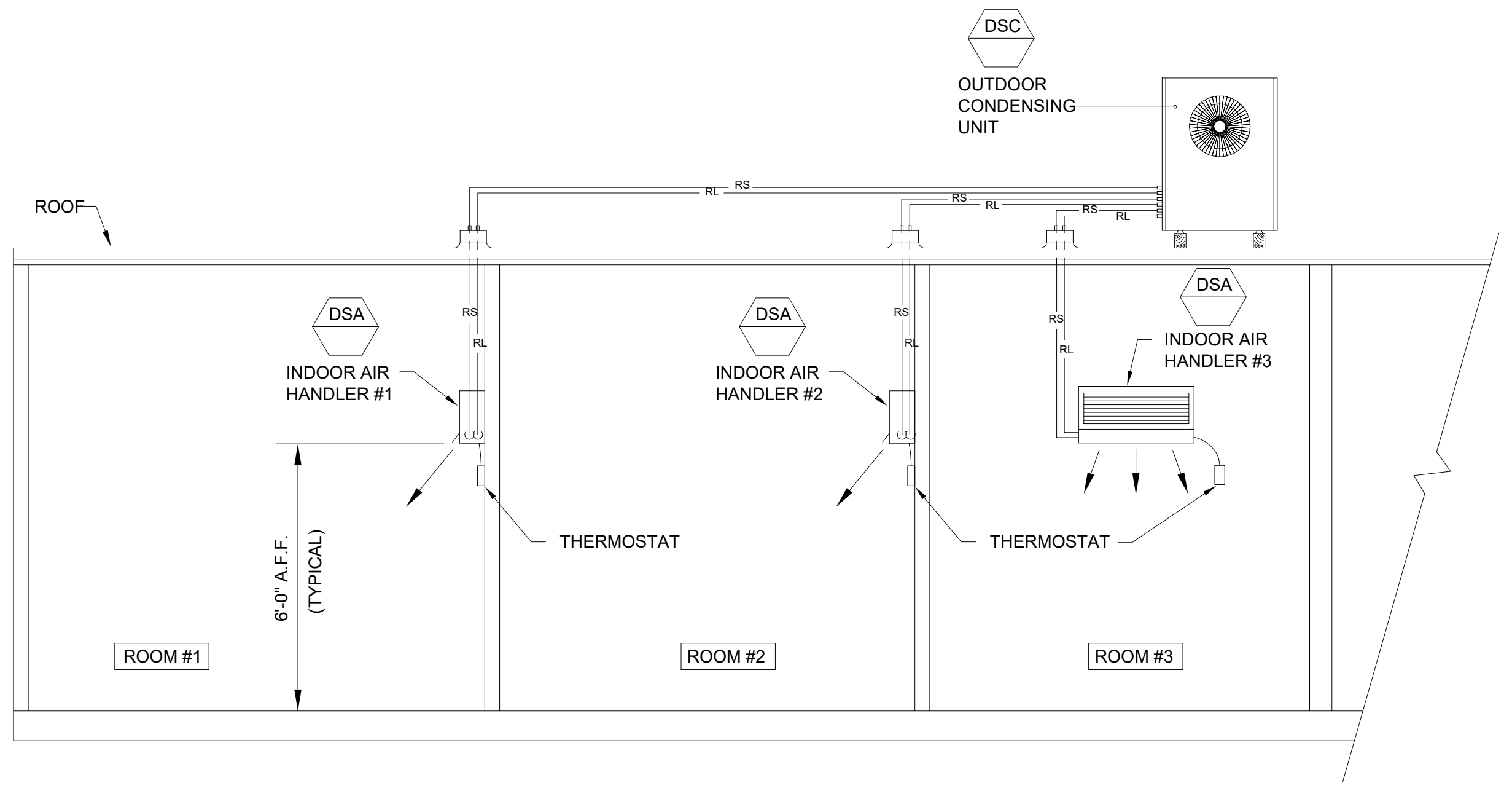
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:02:53 PM


ROOFTOP HVAC UNIT
RTU
FIELD SUPPLIED FUSED DISCONNECT SWITCH
ECONOMIZER HOOD
MANUAL GAS SHUT-OFF VALVE
DRIP LEG
TO GAS SUPPLY LINE
CONTROL WIRING TO INDOOR THERMOSTAT
TO POWER SUPPLY
CONDENSATE TRAP
SUPPLY AIR DUCT
ROOF CURB
RETURN AIR DUCT

GAS FIRED ROOFTOP HVAC UNIT DETAIL

N.T.S.


DSC
OUTDOOR CONDENSING UNIT
ROOF
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INDOOR AIR HANDLER #1
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THERMOSTAT
THERMOSTAT
6'-0" A.F.F. (TYPICAL)
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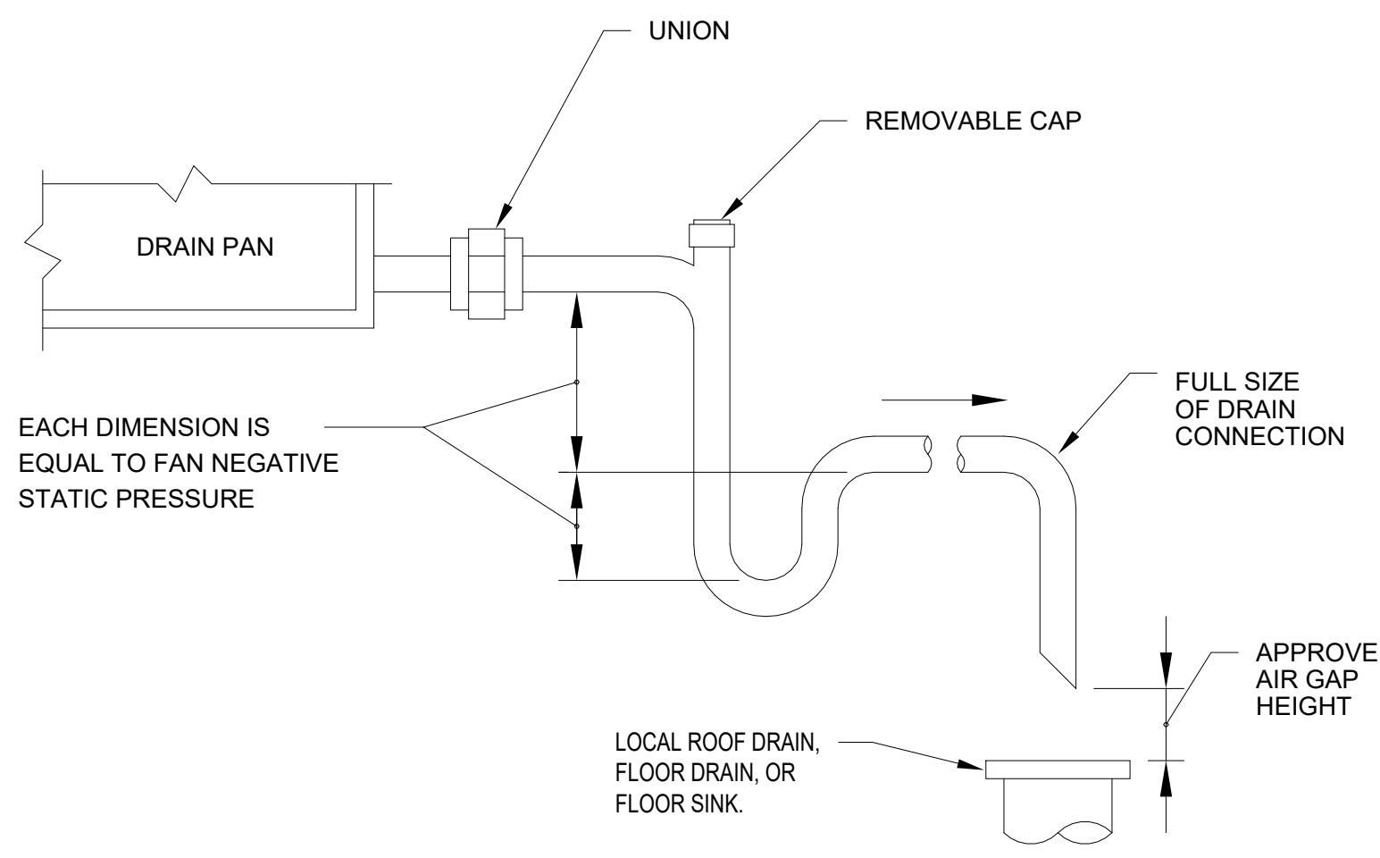
ROOM #3

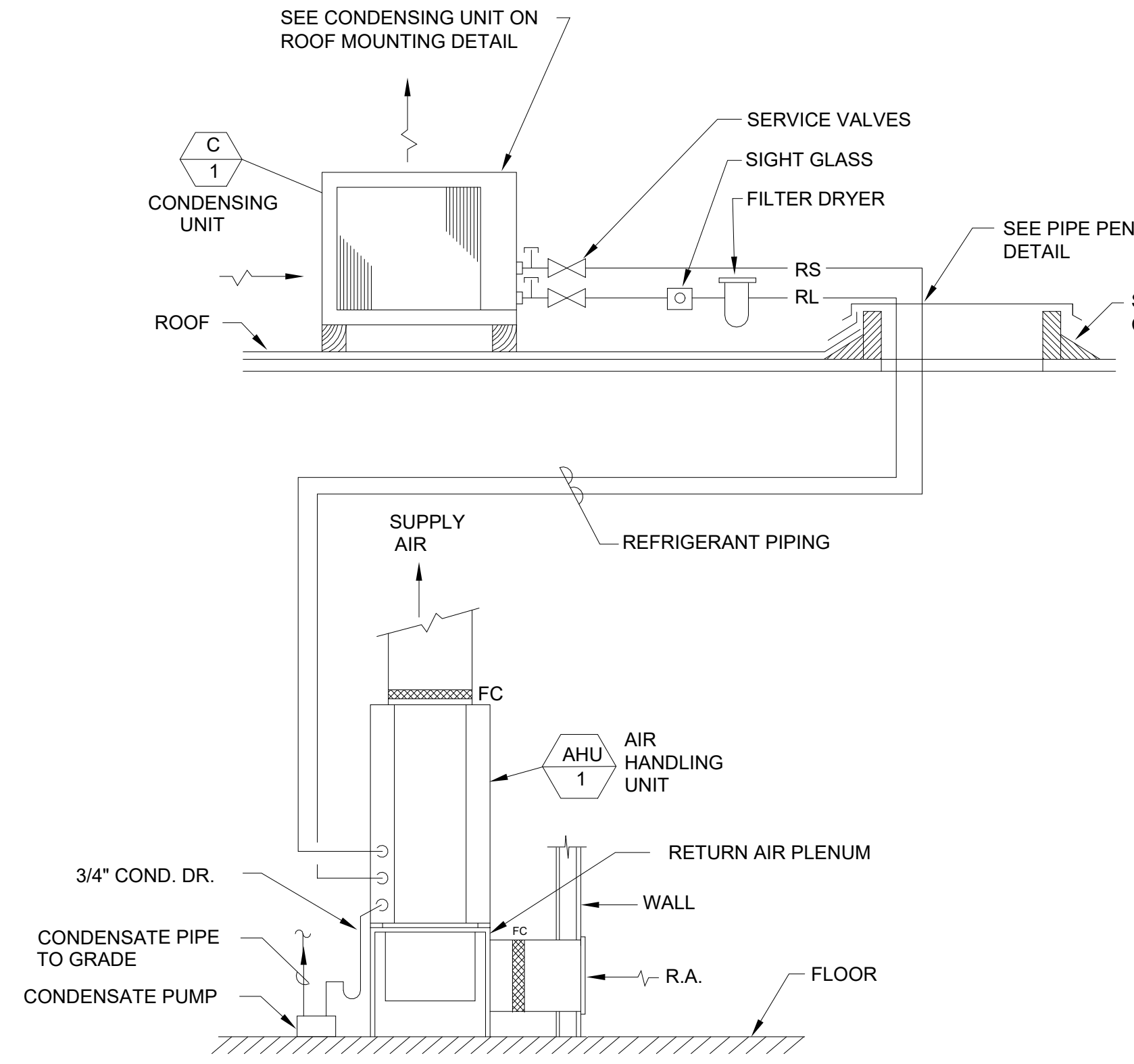
DUCTLESS SPLIT-SYSTEM WITH MULTIPLE AIR HANDLING UNITS DETAIL

N.T.S.


UNION
REMOVABLE CAP
DRAIN PAN
EACH DIMENSION IS EQUAL TO FAN NEGATIVE STATIC PRESSURE
FULL SIZE OF DRAIN CONNECTION
APPROVED AIR GAP HEIGHT
LOCAL ROOF DRAIN, FLOOR DRAIN, OR FLOOR SINK.

CONDENSATE DRAIN DETAIL

N.T.S.


SEE CONDENSING UNIT ON ROOF MOUNTING DETAIL
C
1
CONDENSING UNIT
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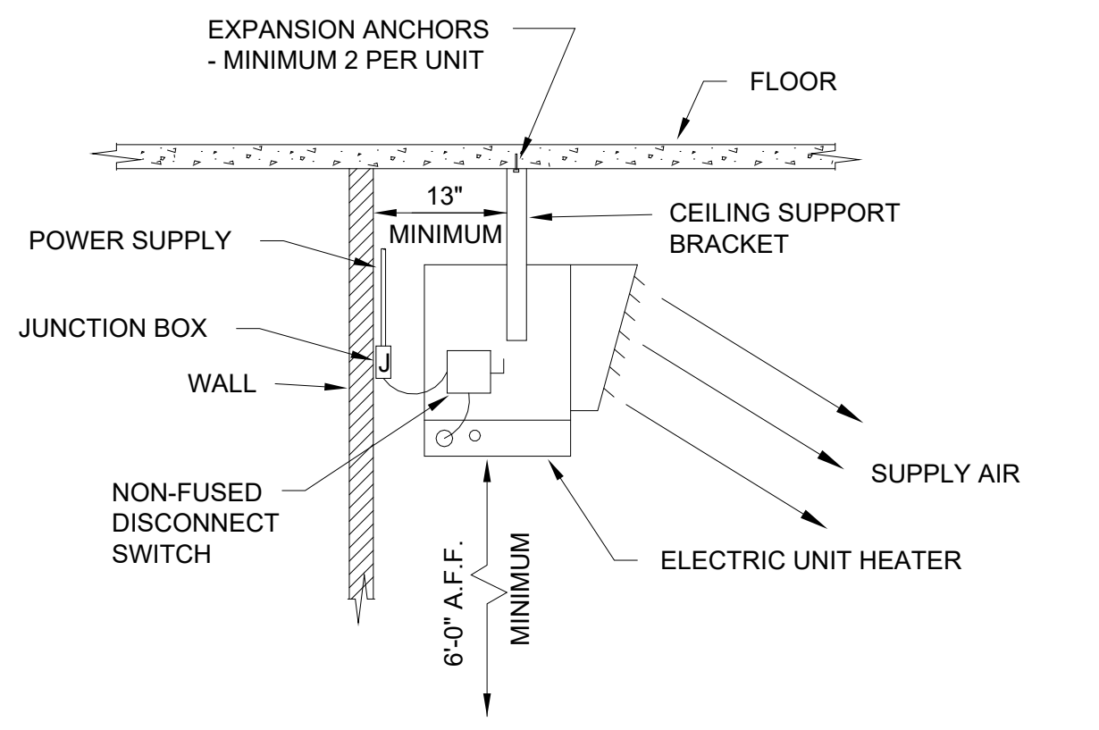
SEE PIPE PENETRATION DETAIL
SEE ROOF CURB DETAIL
ROOF
REFRIGERANT PIPING
SUPPLY AIR
FC
AHU
1
AIR HANDLING UNIT
3/4" COND. DR.
RETURN AIR PLENUM
WALL
CONDENSATE PIPE TO GRADE
CONDENSATE PUMP
FC
R.A.
FLOOR

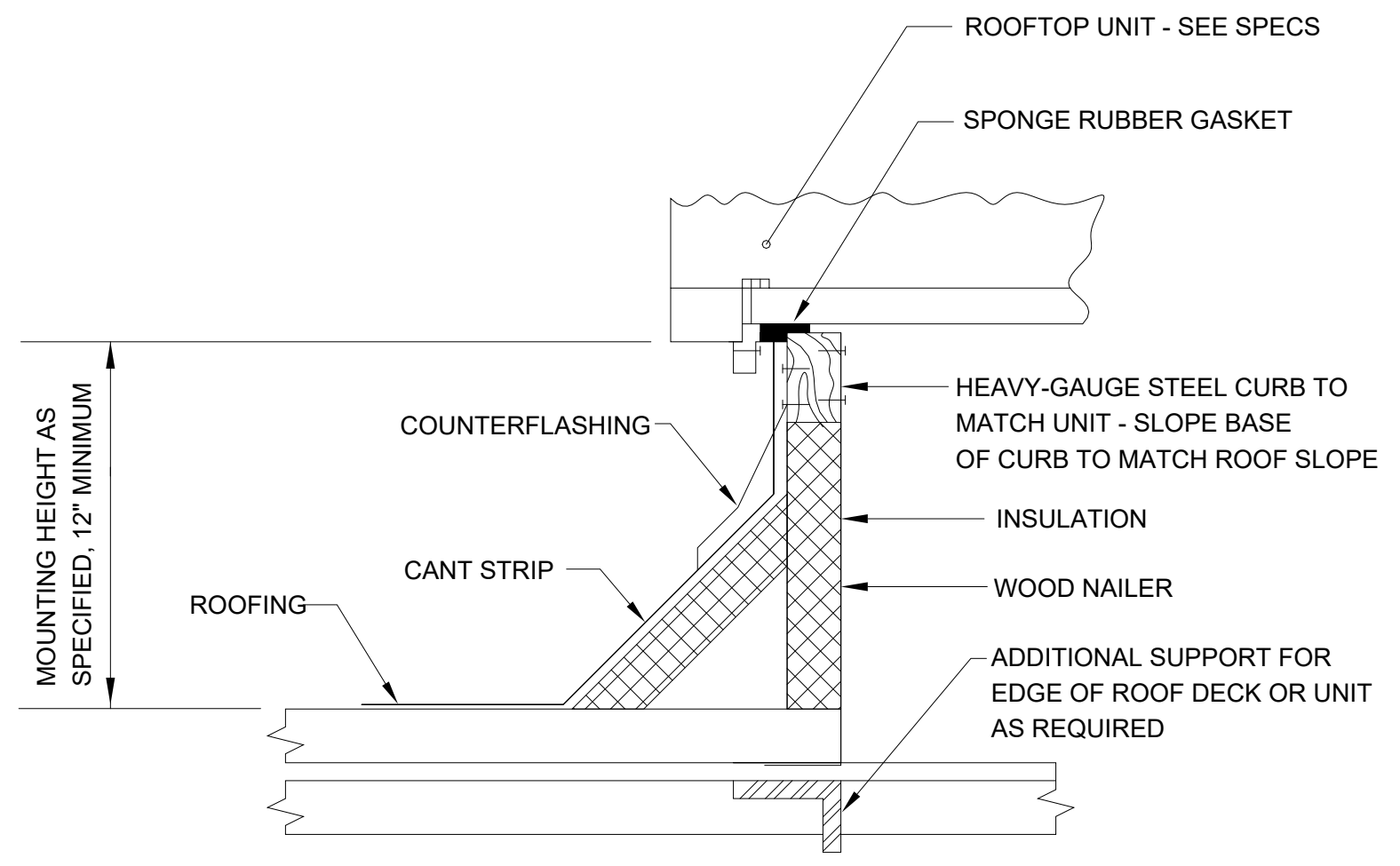
AIR CONDITIONING SYSTEM DETAIL WITH VERTICAL AIR HANDLING UNIT & ROOF MOUNTED CONDENSING UNIT

N.T.S.


EXPANSION ANCHORS - MINIMUM 2 PER UNIT
FLOOR
13" MINIMUM
CEILING SUPPORT BRACKET
POWER SUPPLY
JUNCTION BOX
J
WALL
NON-FUSED DISCONNECT SWITCH
SUPPLY AIR
ELECTRIC UNIT HEATER
6'-0" A.F.F. MINIMUM

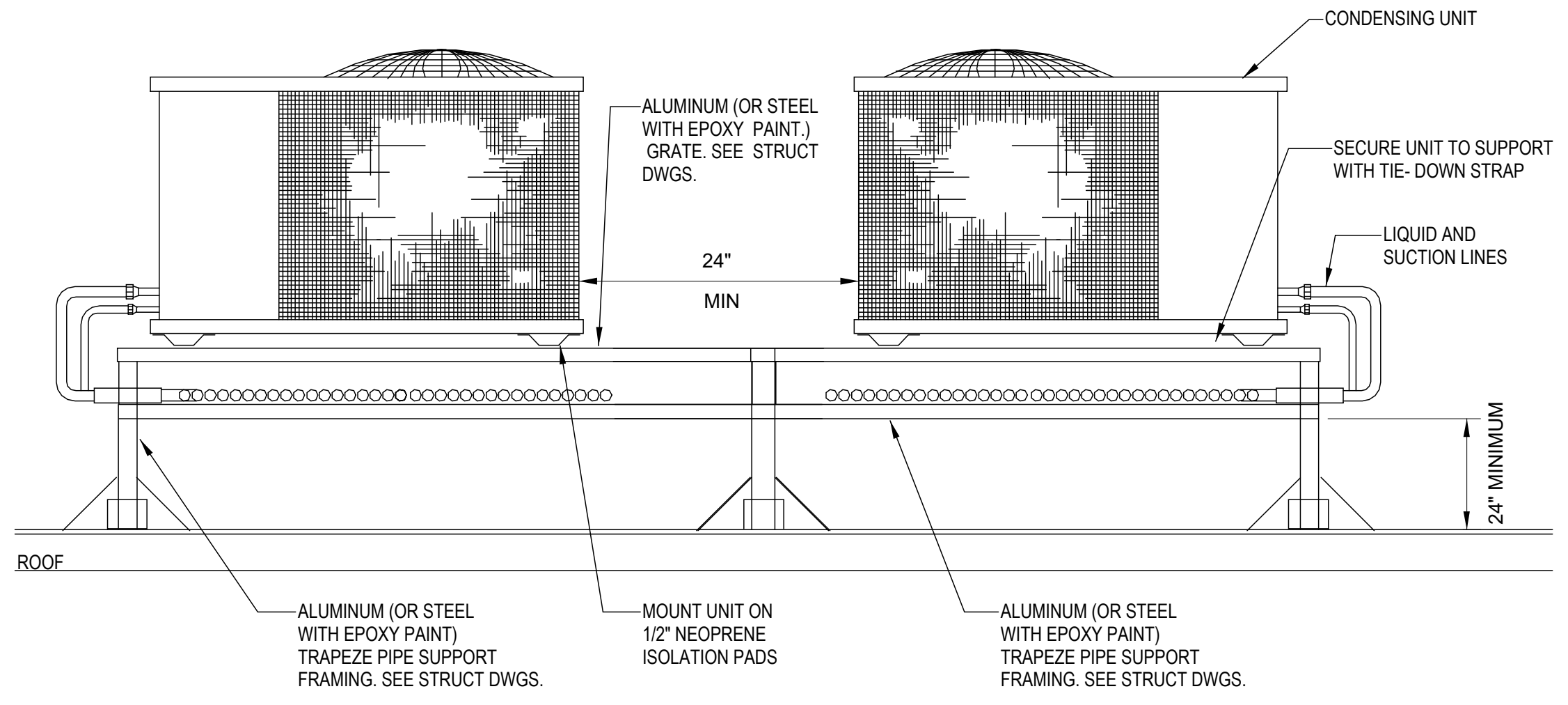
ELECTRIC UNIT HEATER MOUNTING DETAIL

N.T.S.


ROOFTOP UNIT - SEE SPECS
SPONGE RUBBER GASKET
MOUNTING HEIGHT AS SPECIFIED, 12" MINIMUM
COUNTERFLASHING
HEAVY-GAUGE STEEL CURB TO MATCH UNIT - SLOPE BASE OF CURB TO MATCH ROOF SLOPE
INSULATION
CANT STRIP
WOOD NAILER
ROOFING
ADDITIONAL SUPPORT FOR EDGE OF ROOF DECK OR UNIT AS REQUIRED

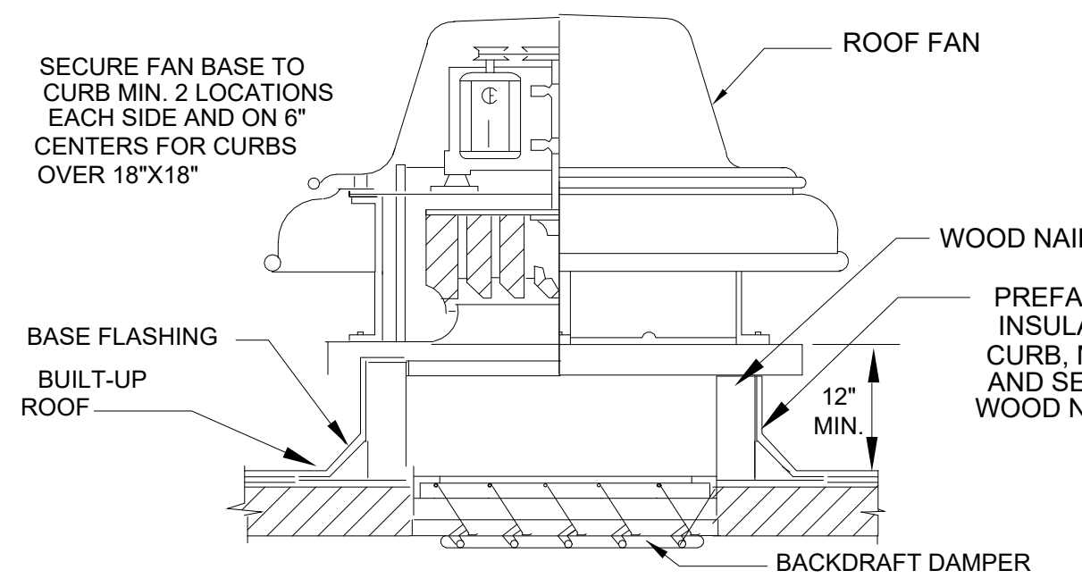
ROOFTOP EQUIPMENT CURB DETAIL

N.T.S.


CONDENSING UNIT
ALUMINUM (OR STEEL WITH EPOXY PAINT.) GRATE. SEE STRUCT DWGS.
SECURE UNIT TO SUPPORT WITH TIE- DOWN STRAP
LIQUID AND SUCTION LINES
24" MIN
24" MINIMUM
ROOF
ALUMINUM (OR STEEL WITH EPOXY PAINT) TRAPEZE PIPE SUPPORT FRAMING. SEE STRUCT DWGS.
MOUNT UNIT ON 1/2" NEOPRENE ISOLATION PADS
ALUMINUM (OR STEEL WITH EPOXY PAINT) TRAPEZE PIPE SUPPORT FRAMING. SEE STRUCT DWGS.

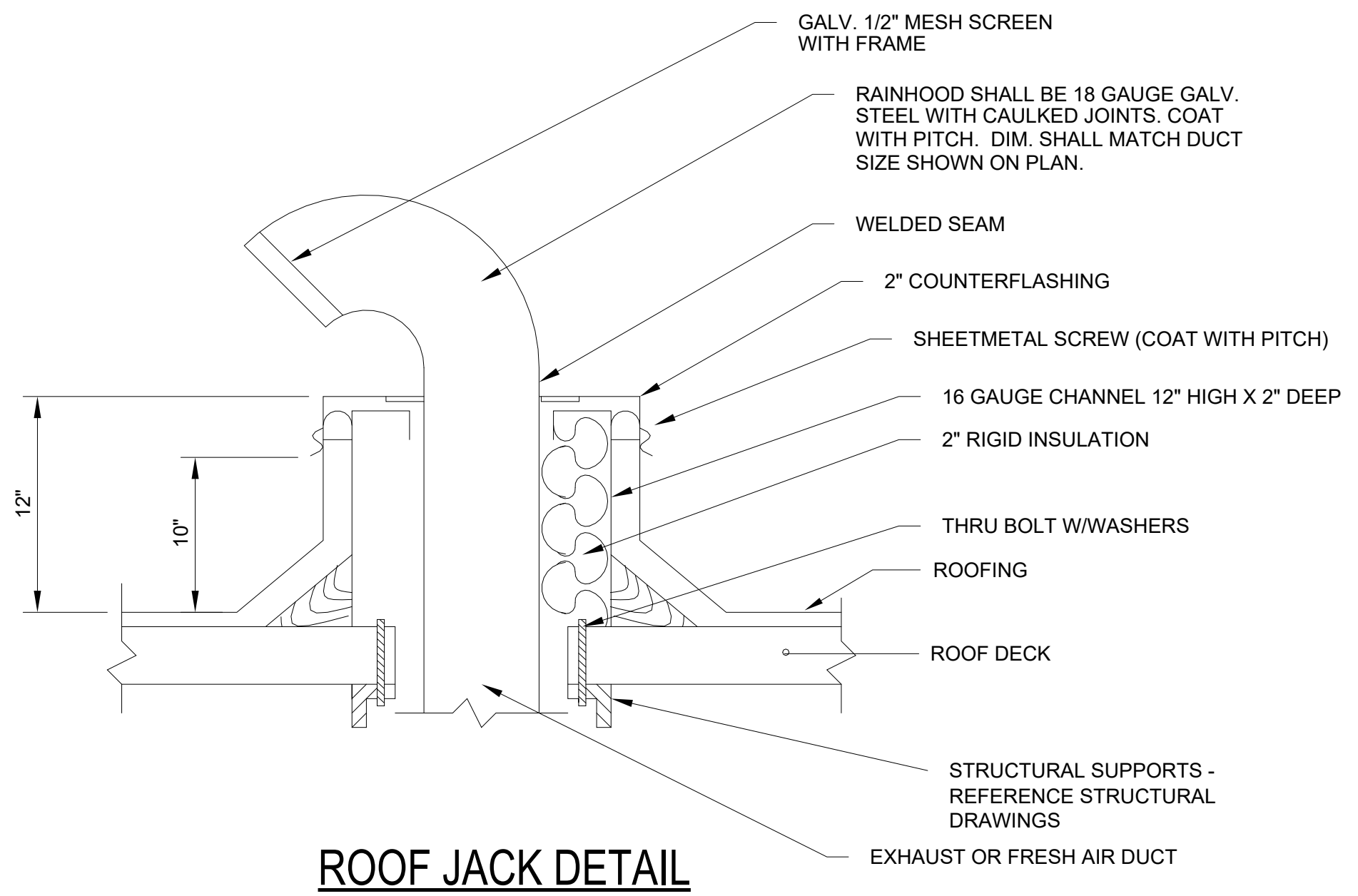
CONDENSING UNIT ROOF MOUTING DETAIL

SCALE: NTS


ROOF FAN
SECURE FAN BASE TO CURB MIN. 2 LOCATIONS EACH SIDE AND ON 6" CENTERS FOR CURBS OVER 18"X18"
WOOD NAILER
PREFABRICATED, INSULATED FAN CURB, MOUNT AND SECURE ON WOOD NAILER.
BASE FLASHING
BUILT-UP ROOF
12" MIN.
BACKDRAFT DAMPER

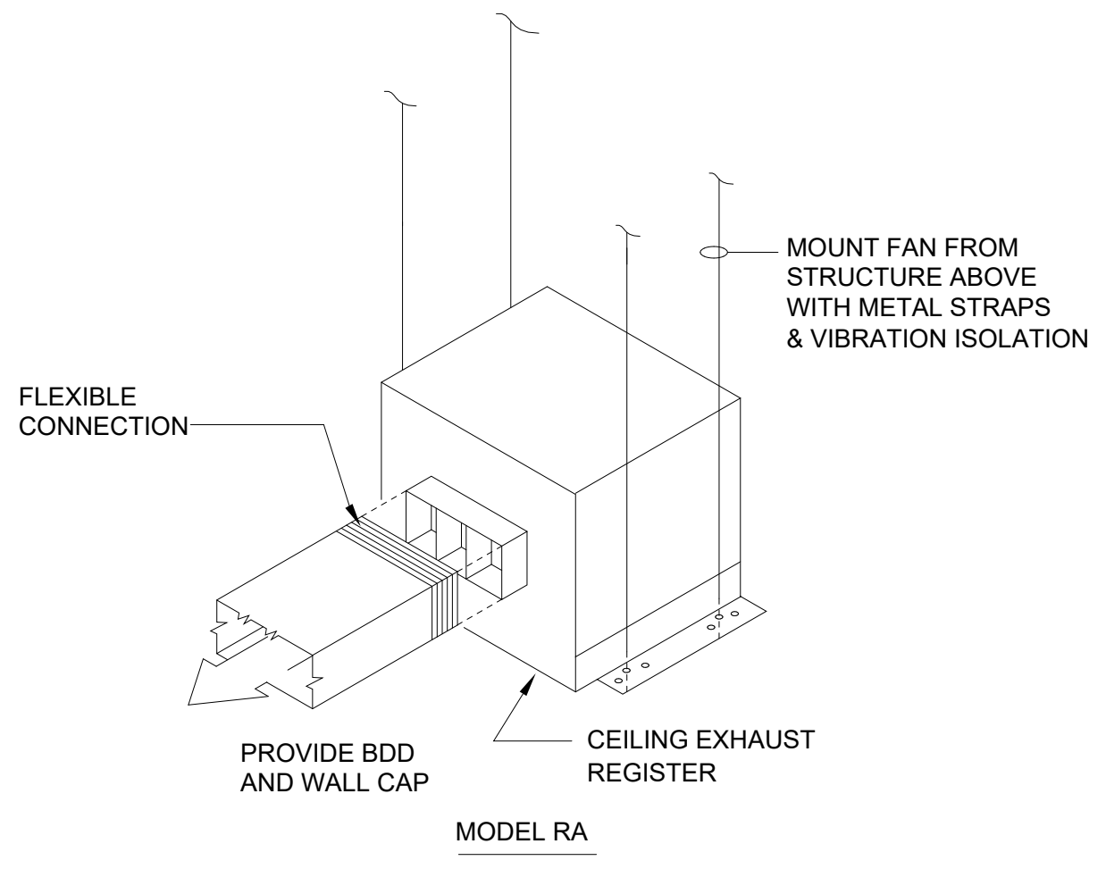
ROOF FAN MOUNTING DETAIL

NOT TO SCALE


GALV. 1/2" MESH SCREEN WITH FRAME
RAINHOOD SHALL BE 18 GAUGE GALV. STEEL WITH CAULKED JOINTS. COAT WITH PITCH. DIM. SHALL MATCH DUCT SIZE SHOWN ON PLAN.
WELDED SEAM
2" COUNTERFLASHING
SHEETMETAL SCREW (COAT WITH PITCH)
16 GAUGE CHANNEL 12" HIGH X 2" DEEP
2" RIGID INSULATION
THRU BOLT W/WASHERS
ROOFING
ROOF DECK
12"
10"
STRUCTURAL SUPPORTS - REFERENCE STRUCTURAL DRAWINGS
EXHAUST OR FRESH AIR DUCT

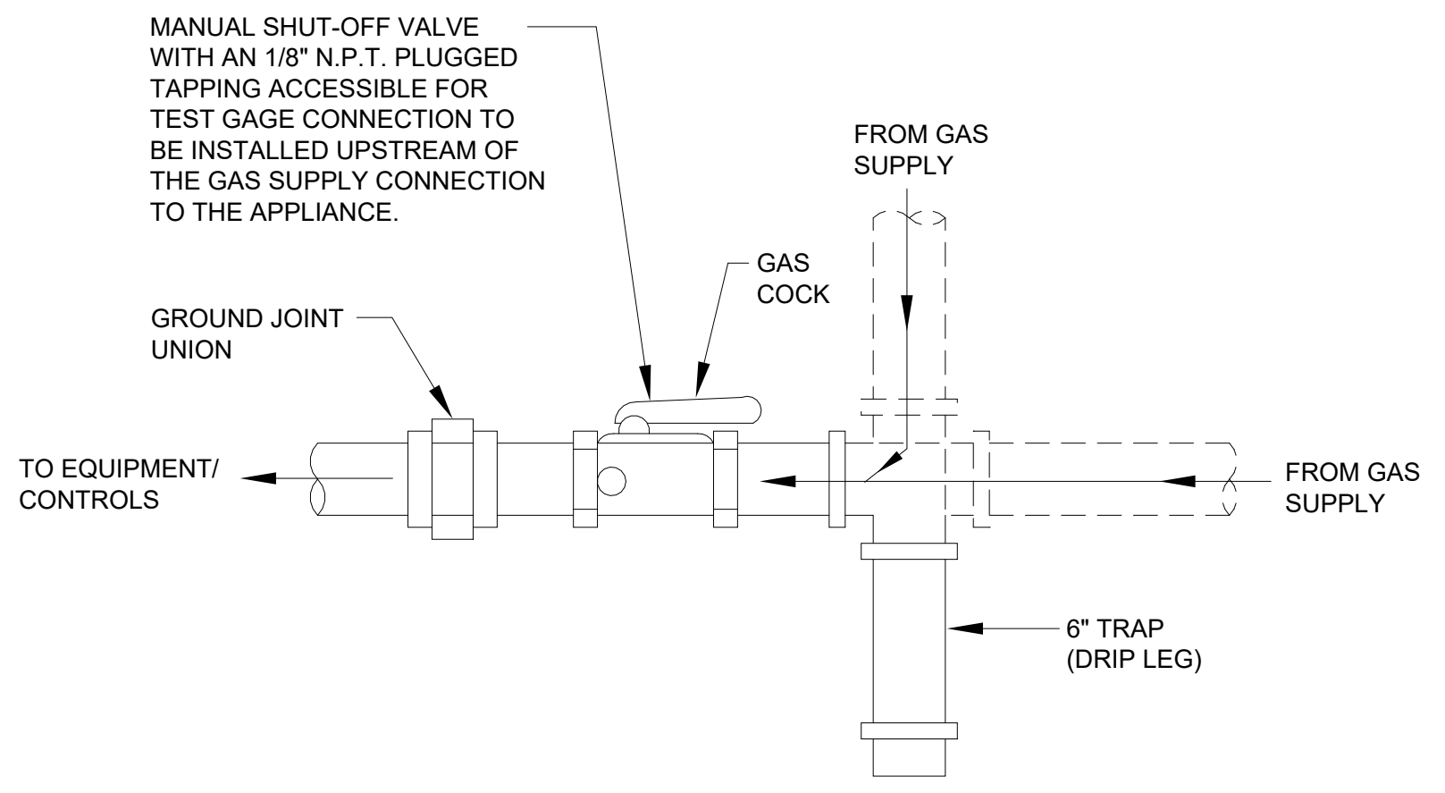
ROOF JACK DETAIL

N.T.S.


MOUNT FAN FROM STRUCTURE ABOVE WITH METAL STRAPS & VIBRATION ISOLATION
FLEXIBLE CONNECTION
PROVIDE BDD AND WALL CAP
CEILING EXHAUST REGISTER
MODEL RA

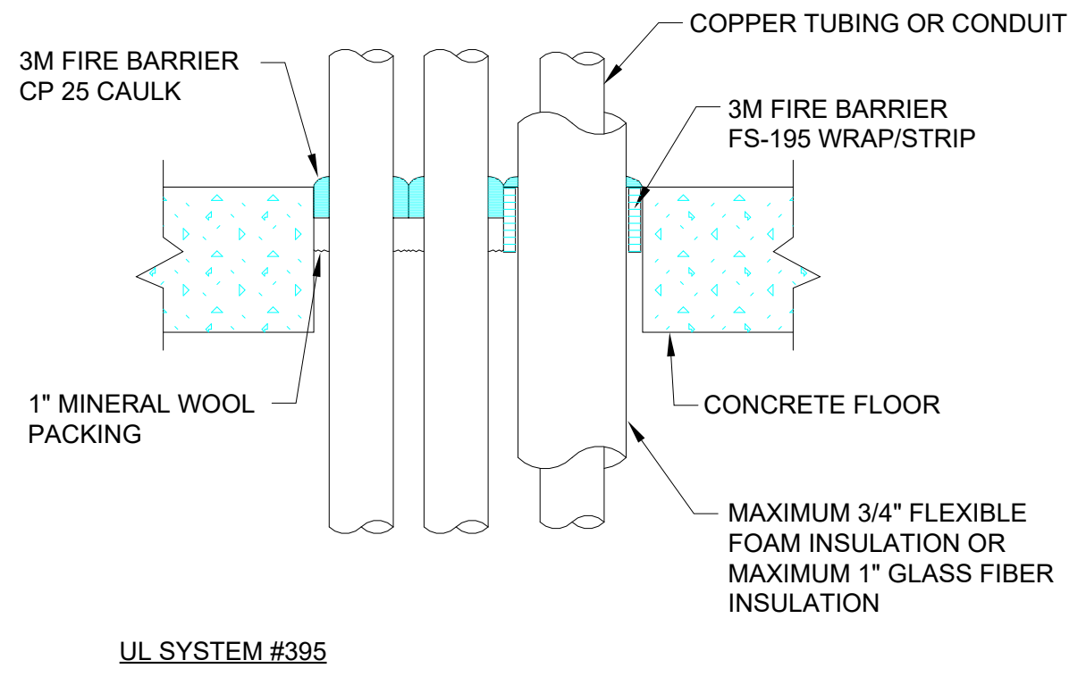
CEILING EXHAUST FAN DETAIL

NOT TO SCALE


MANUAL SHUT-OFF VALVE WITH AN 1/8" N.P.T. PLUGGED TAPPING ACCESSIBLE FOR TEST GAGE CONNECTION TO BE INSTALLED UPSTREAM OF THE GAS SUPPLY CONNECTION TO THE APPLIANCE.
FROM GAS SUPPLY
GAS COCK
GROUND JOINT UNION
TO EQUIPMENT/ CONTROLS
FROM GAS SUPPLY
6" TRAP (DRIP LEG)

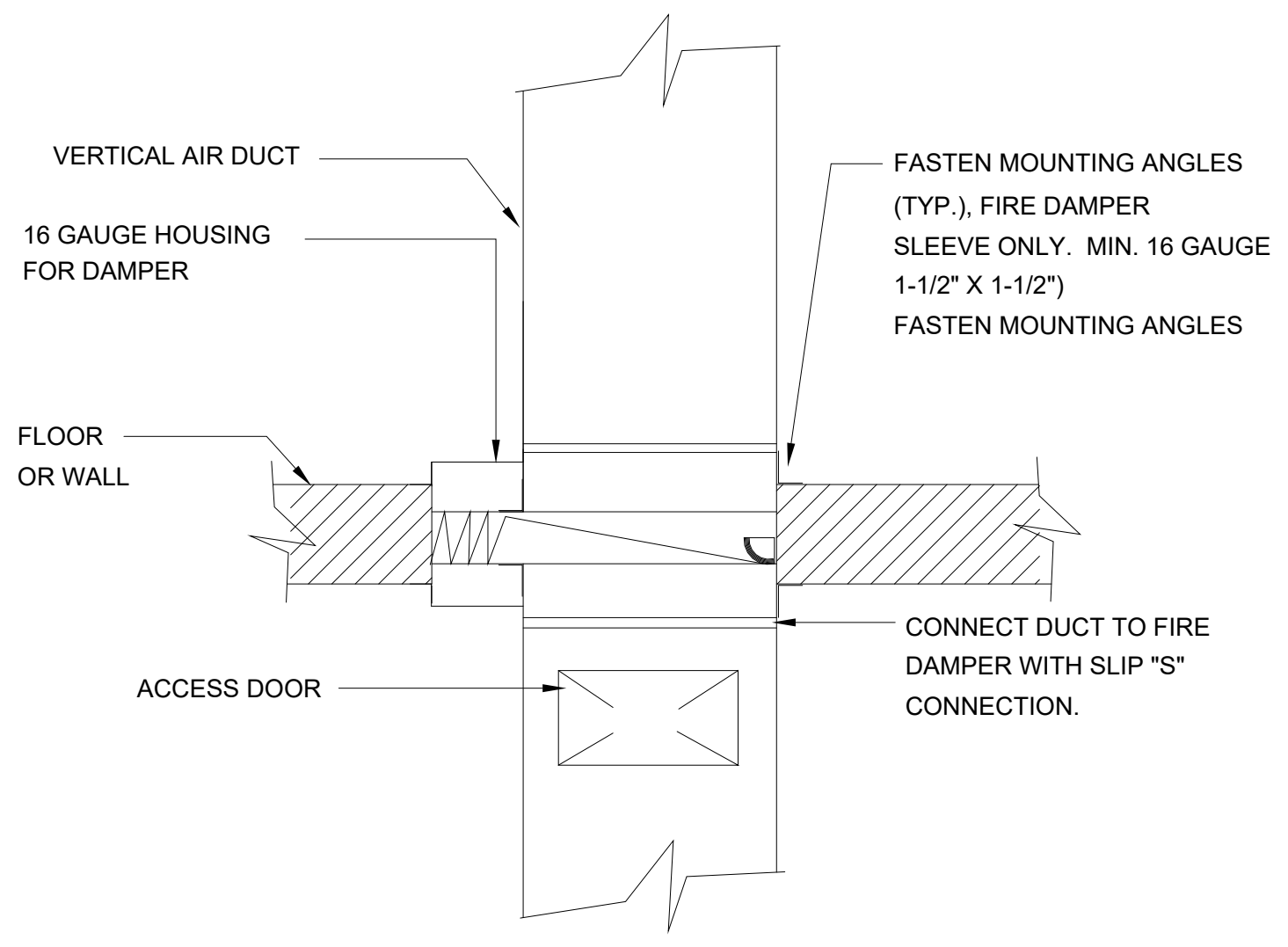
GAS CONNECTION TO EQUIPMENT DETAIL

NOT TO SCALE


3M FIRE BARRIER CP 25 CAULK
COPPER TUBING OR CONDUIT
3M FIRE BARRIER FS-195 WRAP/STRIP
1" MINERAL WOOL PACKING
CONCRETE FLOOR
MAXIMUM 3/4" FLEXIBLE FOAM INSULATION OR MAXIMUM 1" GLASS FIBER INSULATION
UL SYSTEM #395

PENETRATION FIRESTOP FOR MULTIPLE COPPER & INSULATED COPPER TUBING THROUGH A CONCRETE FLOOR

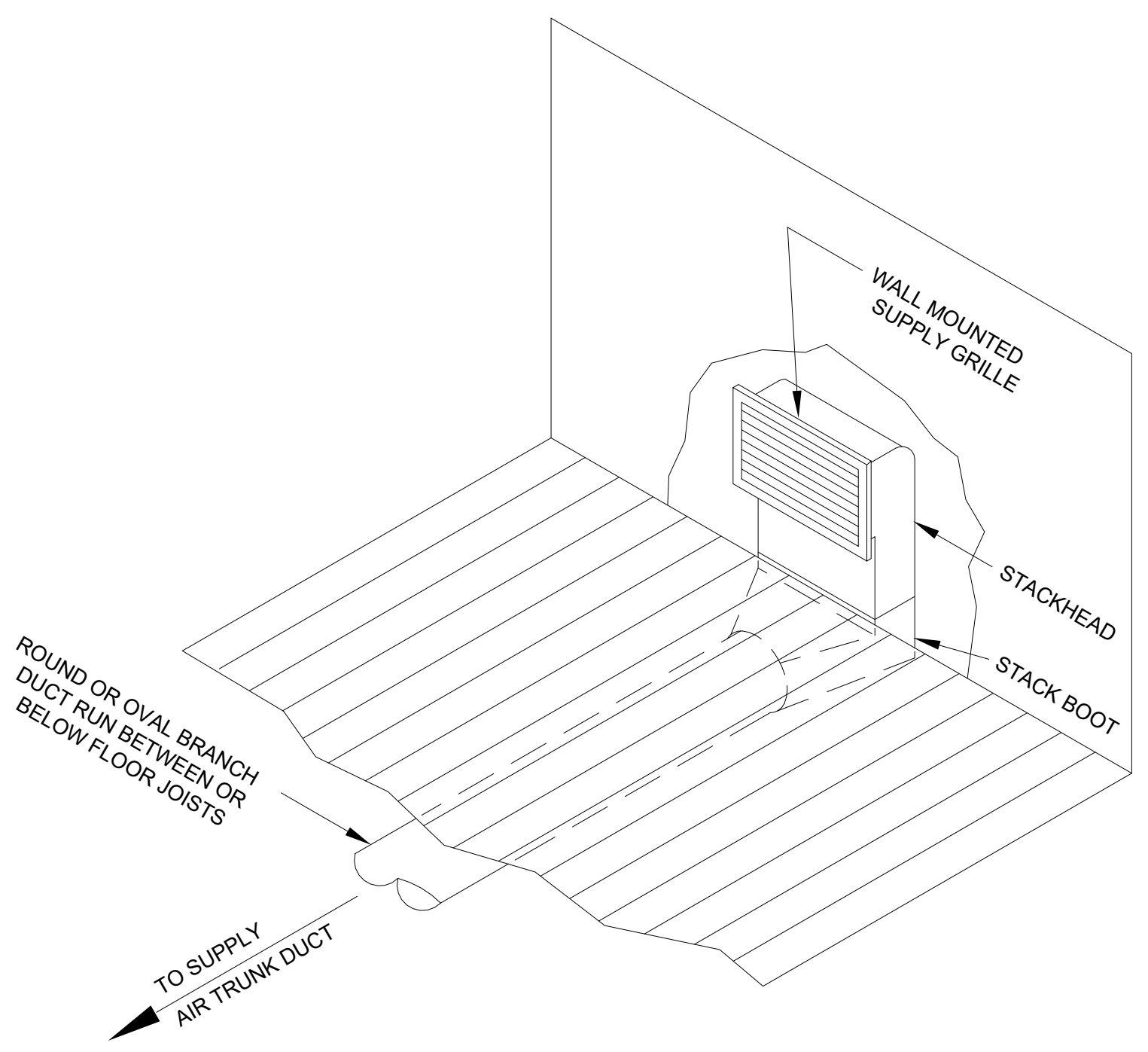
NOT TO SCALE


VERTICAL AIR DUCT
16 GAUGE HOUSING FOR DAMPER
FLOOR OR WALL
ACCESS DOOR
FASTEN MOUNTING ANGLES (TYP.), FIRE DAMPER SLEEVE ONLY. MIN. 16 GAUGE 1-1/2" X 1-1/2") FASTEN MOUNTING ANGLES
CONNECT DUCT TO FIRE DAMPER WITH SLIP "S" CONNECTION.

NOTES:
1. DAMPER ASSEMBLY INSTALLED IN AND FASTENED TO THE SLEEVE.
2. MAINTAIN FULL DUCT SIZE. DAMPER HOUSING SHALL NOT OBSTRUCT AIR FLOW, (TYPE "B").
3. MOUNTING SHOWN IS VERTICAL INSTALLATION, HORIZONTAL INSTALLATION IS SIMILIAR.

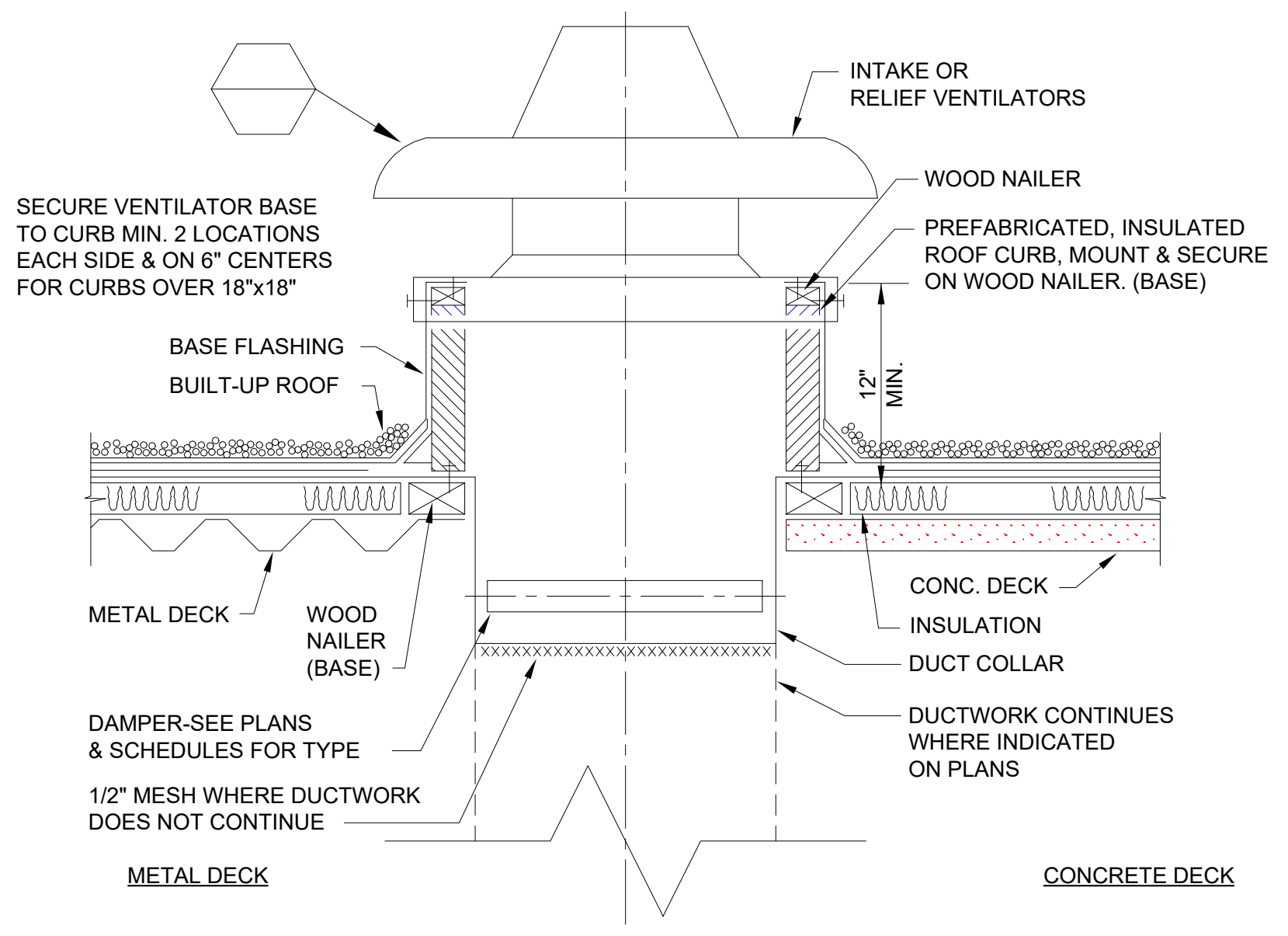
FIRE DAMPER INSTALLATION DETAIL

NOT TO SCALE


WALL MOUNTED SUPPLY GRILLE
STACKHEAD
STACK BOOT
ROUND OR OVAL BRANCH DUCT RUN BETWEEN OR BELOW FLOOR JOISTS
TO SUPPLY AIR TRUNK DUCT

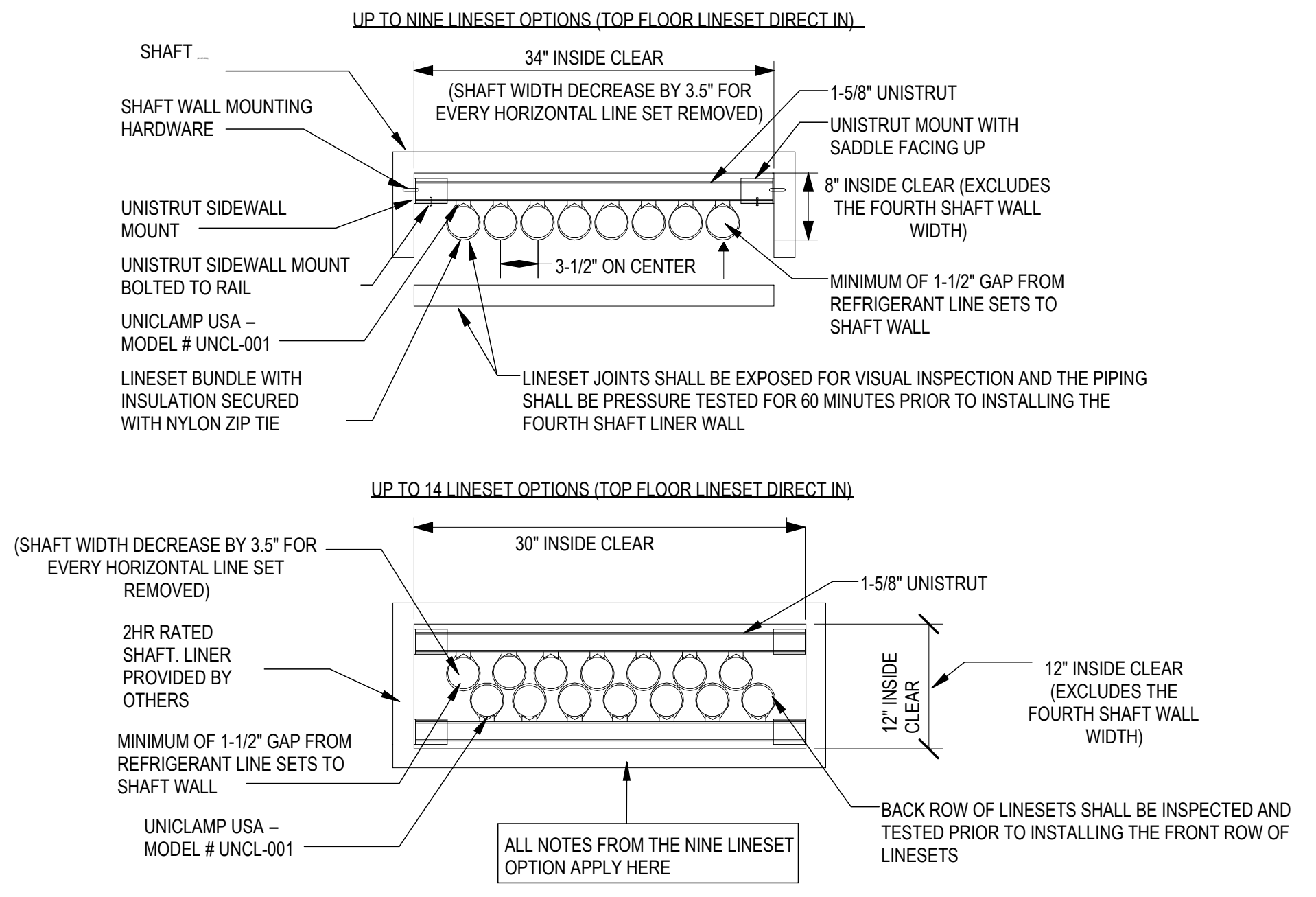
WALL MOUNTED SUPPLY REGISTER DETAIL

NOT TO SCALE


INTAKE OR RELIEF VENTILATORS
WOOD NAILER
SECURE VENTILATOR BASE TO CURB MIN. 2 LOCATIONS EACH SIDE & ON 6" CENTERS FOR CURBS OVER 18"x18"
PREFABRICATED, INSULATED ROOF CURB, MOUNT & SECURE ON WOOD NAILER. (BASE)
BASE FLASHING
BUILT-UP ROOF
12" MIN.
METAL DECK
WOOD NAILER (BASE)
CONC. DECK
INSULATION
DUCT COLLAR
DAMPER-SEE PLANS & SCHEDULES FOR TYPE
DUCTWORK CONTINUES WHERE INDICATED ON PLANS
1/2" MESH WHERE DUCTWORK DOES NOT CONTINUE
METAL DECK
CONCRETE DECK

ROOF INTAKE & RELIEF VENTILATOR DETAIL

NOT TO SCALE


UP TO NINE LINESET OPTIONS (TOP FLOOR LINESET DIRECT IN)
SHAFT
34" INSIDE CLEAR
(SHAFT WIDTH DECREASE BY 3.5" FOR EVERY HORIZONTAL LINE SET REMOVED)
1-5/8" UNISTRUT
SHAFT WALL MOUNTING HARDWARE
UNISTRUT MOUNT WITH SADDLE FACING UP
8" INSIDE CLEAR (EXCLUDES THE FOURTH SHAFT WALL WIDTH)
UNISTRUT SIDEWALL MOUNT
UNISTRUT SIDEWALL MOUNT BOLTED TO RAIL
3-1/2" ON CENTER
MINIMUM OF 1-1/2" GAP FROM REFRIGERANT LINE SETS TO SHAFT WALL
UNICLAMP USA – MODEL # UNCL-001
LINESET BUNDLE WITH INSULATION SECURED WITH NYLON ZIP TIE
LINESET JOINTS SHALL BE EXPOSED FOR VISUAL INSPECTION AND THE PIPING SHALL BE PRESSURE TESTED FOR 60 MINUTES PRIOR TO INSTALLING THE FOURTH SHAFT LINER WALL
UP TO 14 LINESET OPTIONS (TOP FLOOR LINESET DIRECT IN)
(SHAFT WIDTH DECREASE BY 3.5" FOR EVERY HORIZONTAL LINE SET REMOVED)
30" INSIDE CLEAR
1-5/8" UNISTRUT
2HR RATED SHAFT. LINER PROVIDED BY OTHERS
12" INSIDE CLEAR
12" INSIDE CLEAR (EXCLUDES THE FOURTH SHAFT WALL WIDTH)
MINIMUM OF 1-1/2" GAP FROM REFRIGERANT LINE SETS TO SHAFT WALL
UNICLAMP USA – MODEL # UNCL-001
ALL NOTES FROM THE NINE LINESET OPTION APPLY HERE
BACK ROW OF LINESETS SHALL BE INSPECTED AND TESTED PRIOR TO INSTALLING THE FRONT ROW OF LINESETS

A2L REFRIGERANT SHAFT

SCALE: NTS

D A D | ENGINEERING

PROJECT # : 26032
DRAWN BY: CMK
CHECKED BY: CMK

1060 Garland Drive
Suite 900
Bogart, GA 30622

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No.	Description	Date

Rambler Baton Rouge
4076 Gourrier Avenue
Baton Rouge, LA 70808
LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M1.200

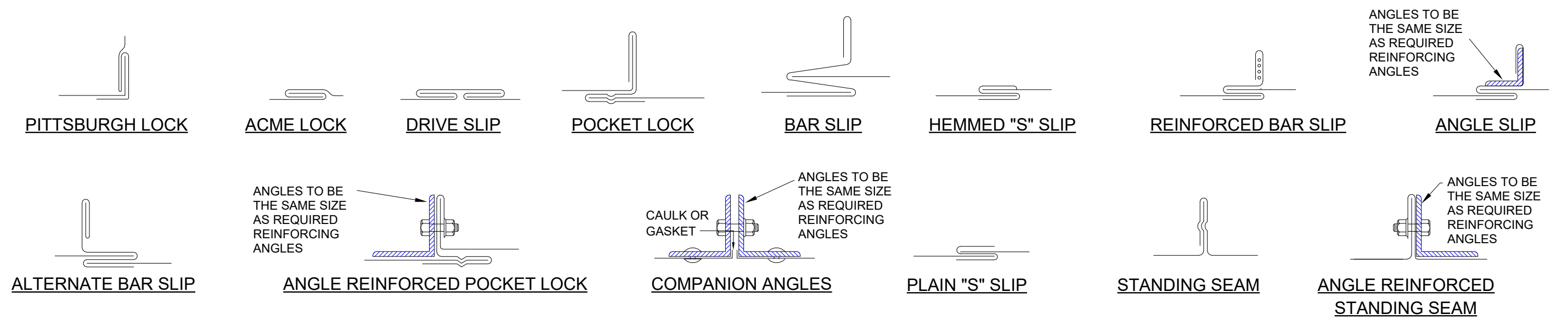
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:02:53 PM

THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.

GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	24(0.020°)	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
13" THRU 18"	24	22(0.025°)	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	22(0.025°)	PITTSBURGH OR ACME LOCK	HEMMED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEMMED "S" SLIP OR BAR SLIP OR 1" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
31" THRU 42"	22	20(0.032°)	PITTSBURGH OR ACME LOCK	DRIVE SLIP 18" OR LESS BAR SLIP REINFORCED BAR SLIP OR POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
43" THRU 54"	22	20(0.032°)	PTIISBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
55" THRU 60"	20	18(0.040°)	PTIISBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
61" THRU 84"	20	18(0.040°)	PTIISBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X 1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.
85" THRU 96"	18	16(0.051°) (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PTIISBURGH LOCK	1 1/2" COMPANOIN ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANOIN ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. SIDES 61" THRU 84" REINFORCE WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. SIDES 60" OR LESS NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X 1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.
OVER 96"	18	16(0.051°) (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PTIISBURGH LOCK	2" COMPANOIN ANGLE, OR 2"X2"X1/4" ANGLE SLIP, OR 2"X2"X1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"X2"X1/4" ANGLE SLIP, OR 2"X2"X1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"X2"X1/4" ANGLES ON 2'-0" CENTERS REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 61" THRU 84" WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"X1 1/2"X1/8" ANGLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.


PITTSBURGH LOCK
ACME LOCK
DRIVE SLIP
POCKET LOCK
BAR SLIP
HEMMED "S" SLIP
REINFORCED BAR SLIP
ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES
ANGLE SLIP
ALTERNATE BAR SLIP
ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES
ANGLE REINFORCED POCKET LOCK
CAULK OR GASKET
ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES
COMPANION ANGLES
PLAIN "S" SLIP
STANDING SEAM
ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES
ANGLE REINFORCED STANDING SEAM

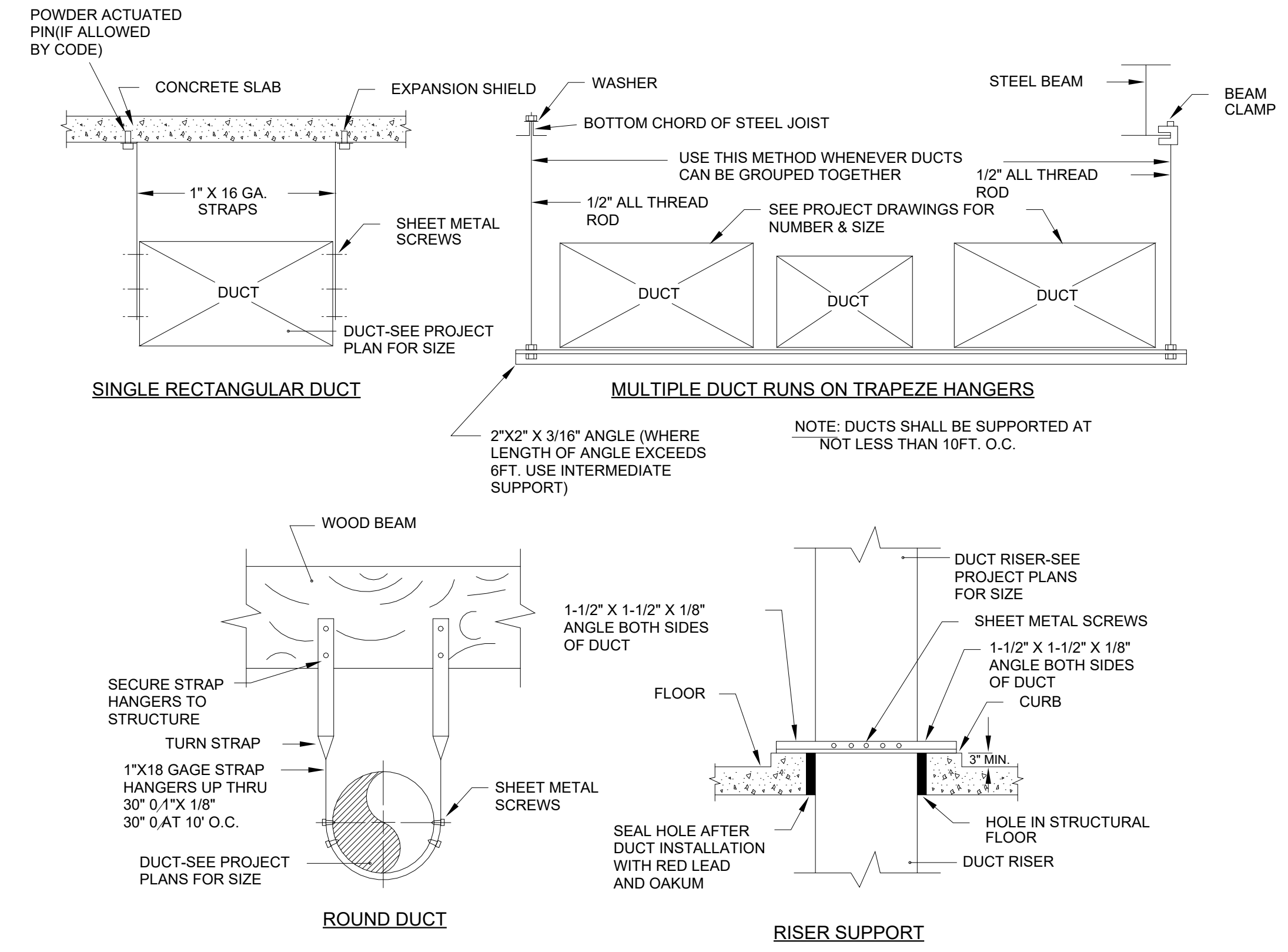
DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES

RECTANGULAR DUCTS

MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE)
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	0.025 INCH (NO. 22 B&S GAGE)
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	0.032 INCH (NO. 20 B&S GAGE)
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (NO. 18 B&S GAGE)
OVER 84	0.052 INCH (18 GAGE, GALV.)	0.051 INCH (NO. 16 B&S GAGE)

ROUND DUCTS

MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT	LONGITUDINAL SEAM DUCT	FITTINGS
	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)


POWDER ACTUATED PIN(IF ALLOWED BY CODE)
CONCRETE SLAB
EXPANSION SHIELD
1" X 16 GA. STRAPS
SHEET METAL SCREWS
DUCT
DUCT-SEE PROJECT PLAN FOR SIZE
WASHER
BOTTOM CHORD OF STEEL JOIST
USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER
1/2" ALL THREAD ROD
SEE PROJECT DRAWINGS FOR NUMBER & SIZE
STEEL BEAM
BEAM CLAMP
1/2" ALL THREAD ROD
DUCT
DUCT
DUCT
2"X2" X 3/16" ANGLE (WHERE LENGTH OF ANGLE EXCEEDS 6FT. USE INTERMEDIATE SUPPORT)
WOOD BEAM
SECURE STRAP HANGERS TO STRUCTURE
TURN STRAP
1"X18 GAGE STRAP HANGERS UP THRU 30" 0 1"X 1/8" 30" 0 AT 10' O.C.
SHEET METAL SCREWS
DUCT-SEE PROJECT PLANS FOR SIZE
1-1/2" X 1-1/2" X 1/8" ANGLE BOTH SIDES OF DUCT
FLOOR
DUCT RISER-SEE PROJECT PLANS FOR SIZE
SHEET METAL SCREWS
1-1/2" X 1-1/2" X 1/8" ANGLE BOTH SIDES OF DUCT
CURB
3" MIN.
SEAL HOLE AFTER DUCT INSTALLATION WITH RED LEAD AND OAKUM
HOLE IN STRUCTURAL FLOOR
DUCT RISER

SINGLE RECTANGULAR DUCT

MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

NOTE: DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT. O.C.

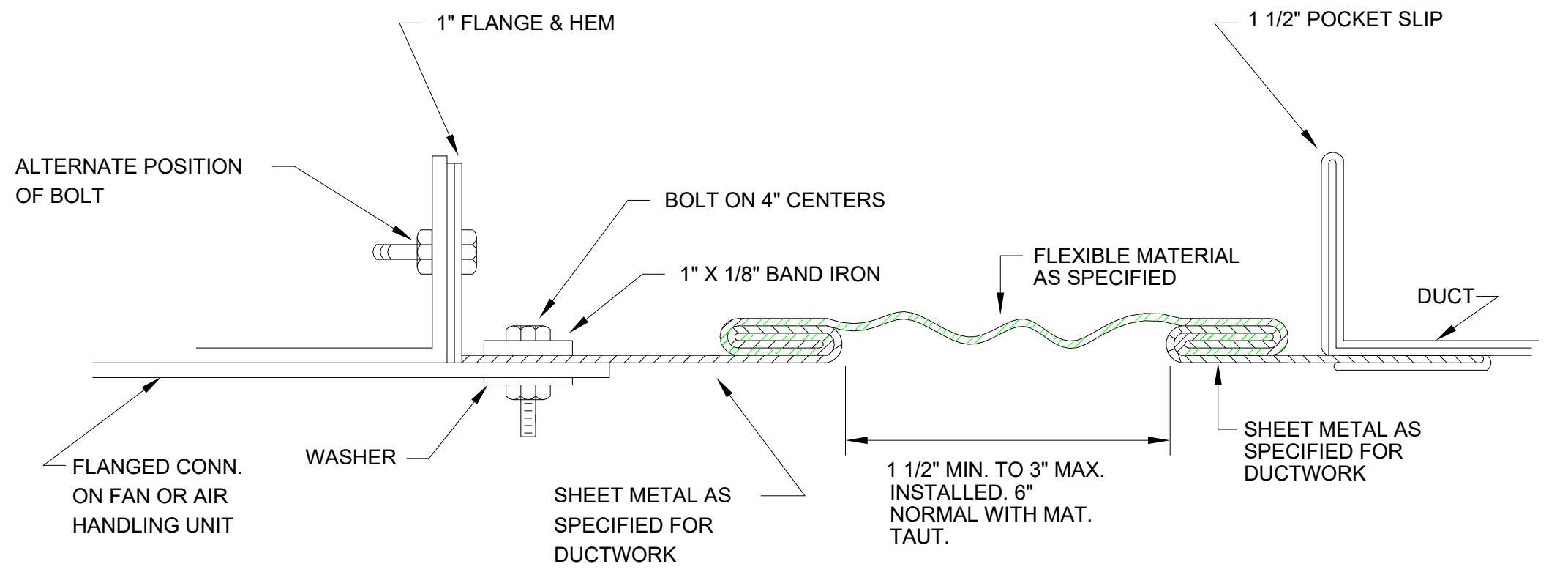
ROUND DUCT

RISER SUPPORT

HANGER AND SUPPORT DETAILS FOR LOW PRESSURE DUCTWORK (UP THRU 2" WG)

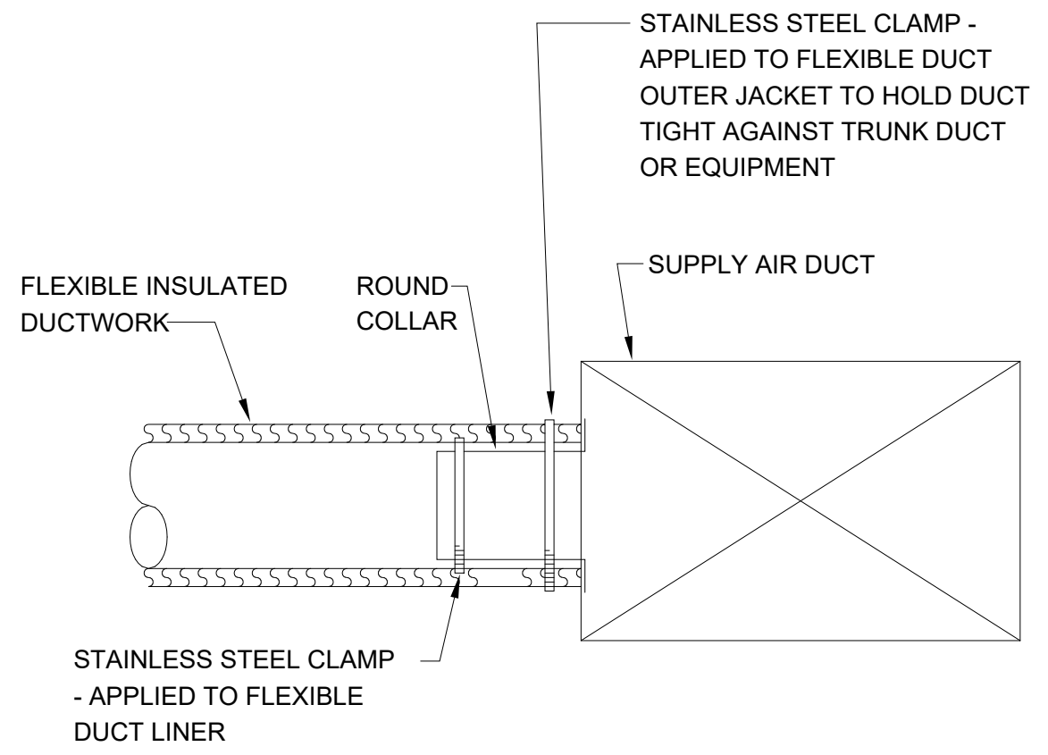
(VARIOUS METHODS OF ATTACHMENT)

NOT TO SCALE


1" FLANGE & HEM
ALTERNATE POSITION OF BOLT
BOLT ON 4" CENTERS
1" X 1/8" BAND IRON
FLEXIBLE MATERIAL AS SPECIFIED
1 1/2" POCKET SLIP
DUCT
FLANGED CONN. ON FAN OR AIR HANDLING UNIT
WASHER
SHEET METAL AS SPECIFIED FOR DUCTWORK
1 1/2" MIN. TO 3" MAX. INSTALLED. 6" NORMAL WITH MAT. TAUT.
SHEET METAL AS SPECIFIED FOR DUCTWORK

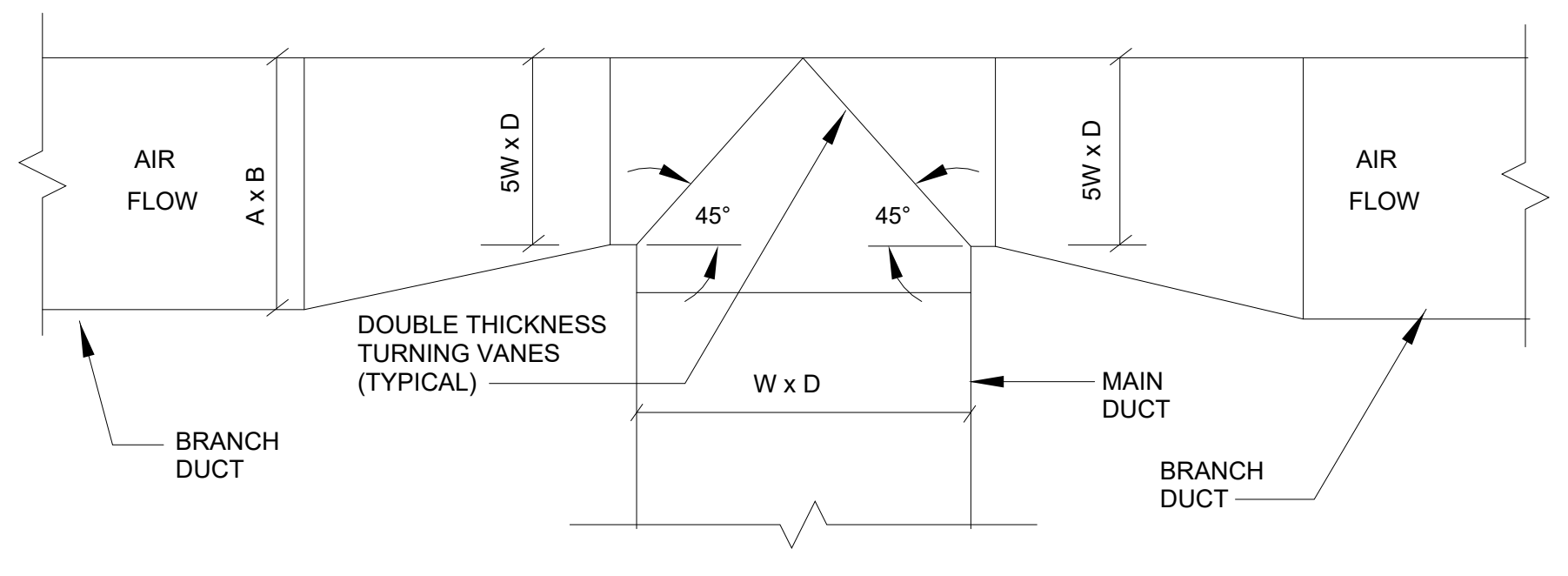
RECTANGULAR FLEXIBLE CONNECTION DETAIL

N.T.S.

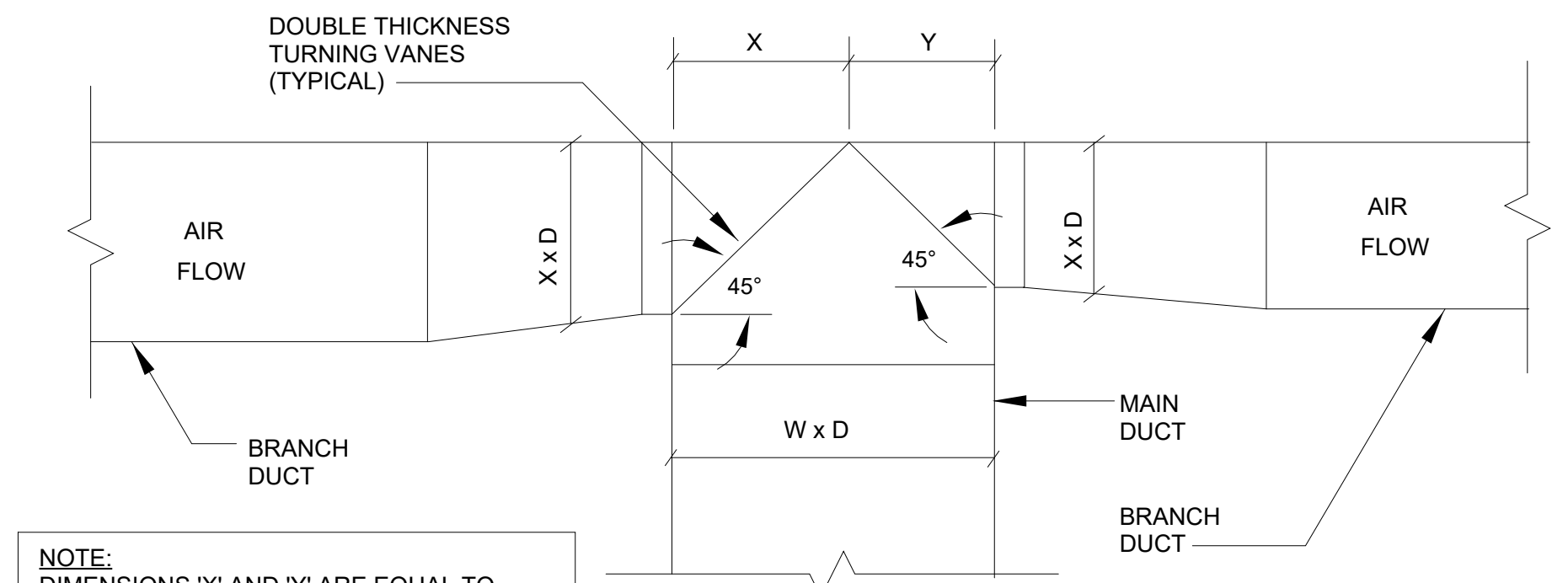

STAINLESS STEEL CLAMP - APPLIED TO FLEXIBLE DUCT OUTER JACKET TO HOLD DUCT TIGHT AGAINST TRUNK DUCT OR EQUIPMENT
FLEXIBLE INSULATED DUCTWORK
ROUND COLLAR
SUPPLY AIR DUCT
STAINLESS STEEL CLAMP - APPLIED TO FLEXIBLE DUCT LINER

TYPICAL FLEXIBLE DUCT CONNECTION

N.T.S.


AIR FLOW
A x B
5W x D
45°
45°
5W x D
AIR FLOW
DOUBLE THICKNESS TURNING VANES (TYPICAL)
W x D
MAIN DUCT
BRANCH DUCT
BRANCH DUCT

EQUAL SPLIT

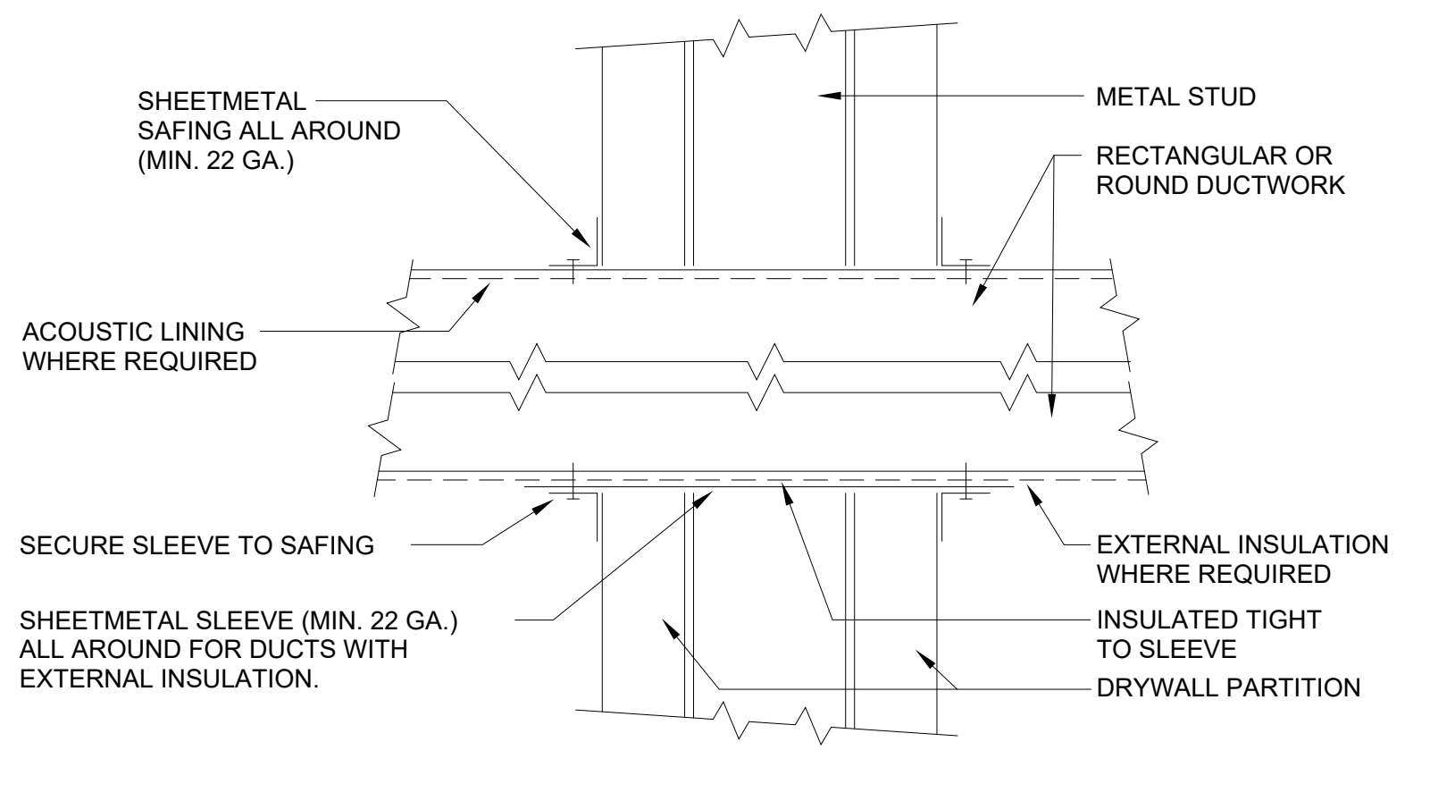

DOUBLE THICKNESS TURNING VANES (TYPICAL)
X
Y
AIR FLOW
X x D
45°
45°
X x D
AIR FLOW
W x D
MAIN DUCT
BRANCH DUCT
BRANCH DUCT

NOTE:
DIMENSIONS 'X' AND 'Y' ARE EQUAL TO (BRANCH CFM - MAIN CFM) x W

UNEQUAL SPLIT

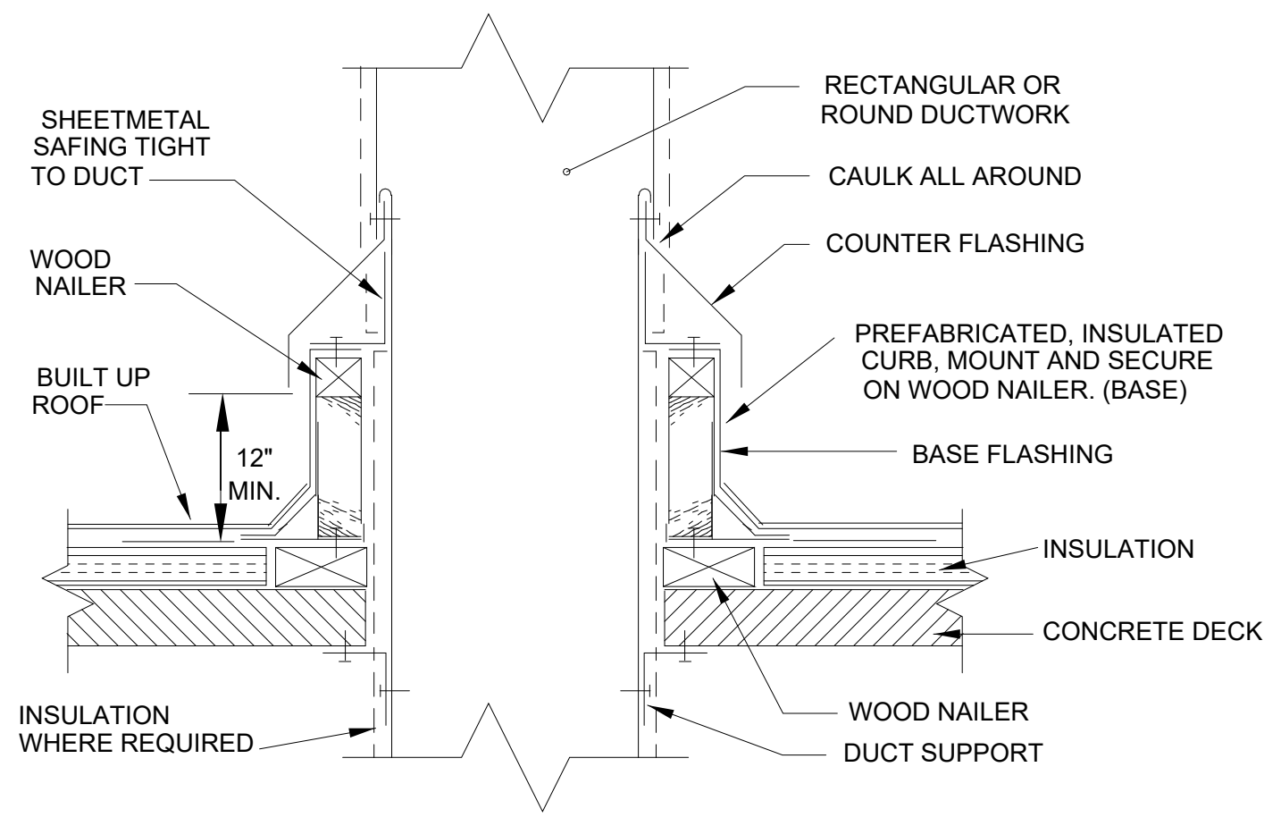
DUCT TEE CONNECTION DETAIL

NOT TO SCALE


SHEETMETAL SAFING ALL AROUND (MIN. 22 GA.)
METAL STUD
RECTANGULAR OR ROUND DUCTWORK
ACOUSTIC LINING WHERE REQUIRED
SECURE SLEEVE TO SAFING
EXTERNAL INSULATION WHERE REQUIRED
SHEETMETAL SLEEVE (MIN. 22 GA.) ALL AROUND FOR DUCTS WITH EXTERNAL INSULATION.
INSULATED TIGHT TO SLEEVE
DRYWALL PARTITION

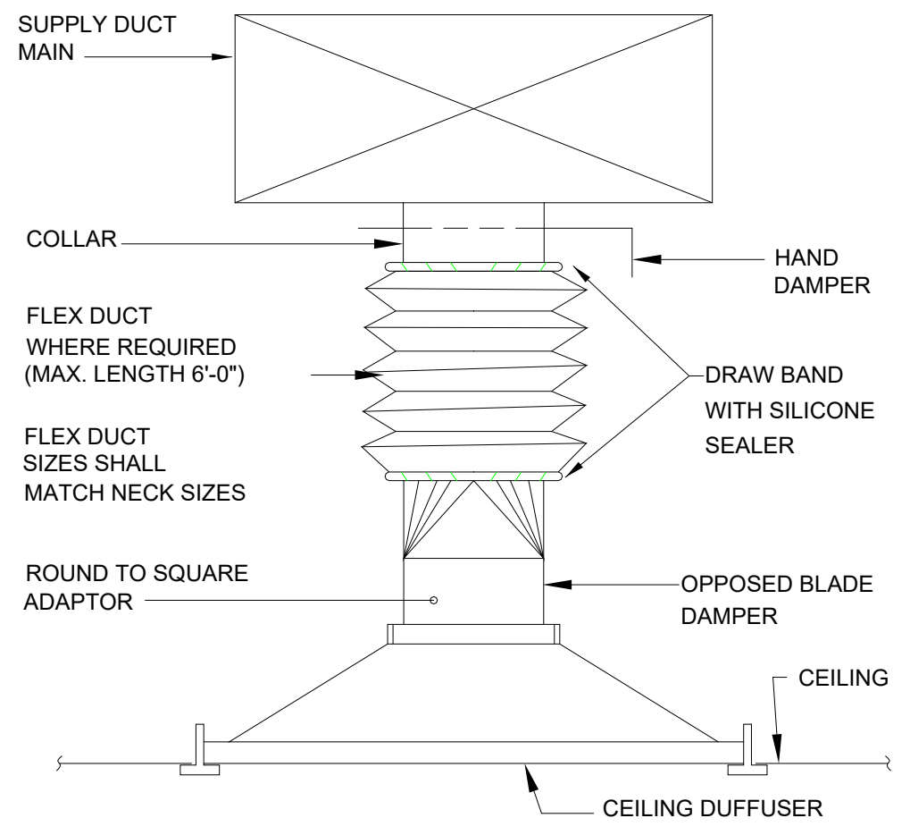
DUCT PENETRATION THROUGH NON-FIRE RATED WALL

NOT TO SCALE


SHEETMETAL SAFING TIGHT TO DUCT
WOOD NAILER
BUILT UP ROOF
12" MIN.
INSULATION WHERE REQUIRED
RECTANGULAR OR ROUND DUCTWORK
CAULK ALL AROUND
COUNTER FLASHING
PREFABRICATED, INSULATED CURB, MOUNT AND SECURE ON WOOD NAILER. (BASE)
BASE FLASHING
INSULATION
CONCRETE DECK
WOOD NAILER
DUCT SUPPORT

DUCT PENETRATION THRU ROOF

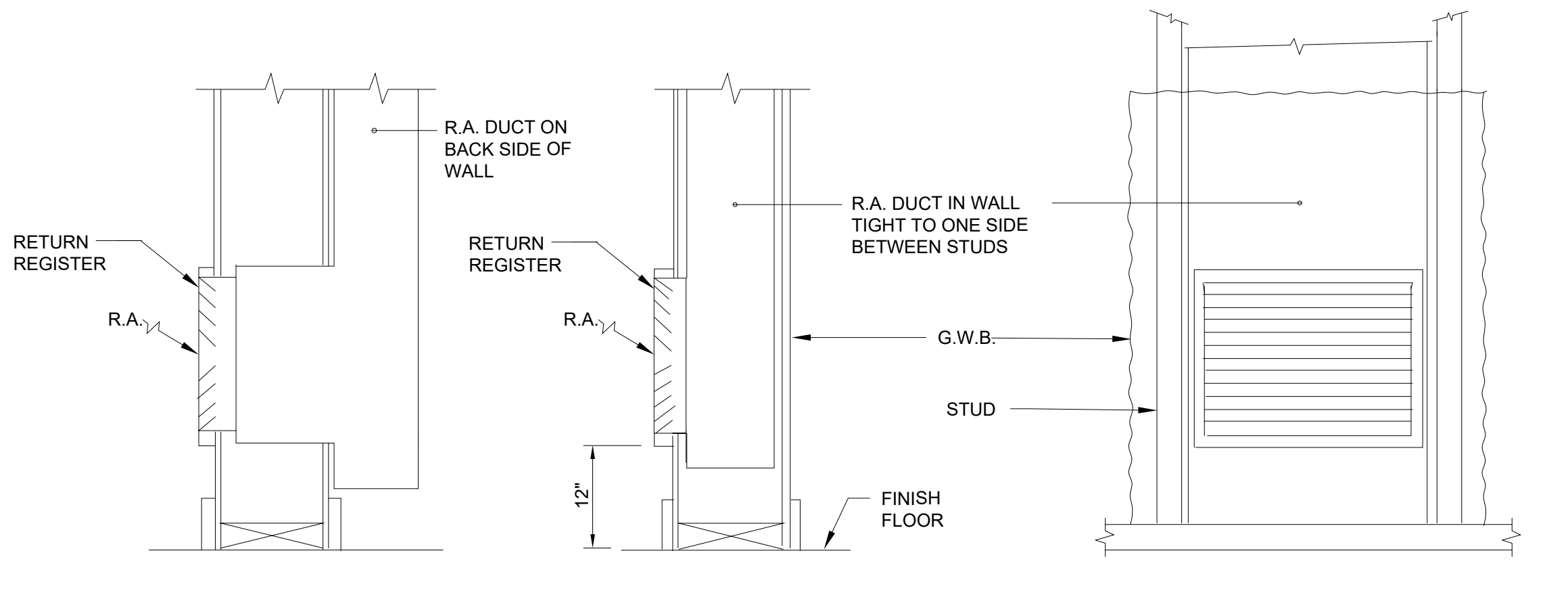
NOT TO SCALE


SUPPLY DUCT MAIN
COLLAR
HAND DAMPER
FLEX DUCT WHERE REQUIRED (MAX. LENGTH 6'-0")
FLEX DUCT SIZES SHALL MATCH NECK SIZES
DRAW BAND WITH SILICONE SEALER
ROUND TO SQUARE ADAPTOR
OPPOSED BLADE DAMPER
CEILING
CEILING DUFFUSER

TYPICAL DIFFUSER CONNECTION

(BOTTOM OF DUCT CONNECTION)

NOT TO SCALE


R.A. DUCT ON BACK SIDE OF WALL
RETURN REGISTER
R.A.
RETURN REGISTER
R.A.
R.A. DUCT IN WALL TIGHT TO ONE SIDE BETWEEN STUDS
G.W.B.
STUD
12"
FINISH FLOOR

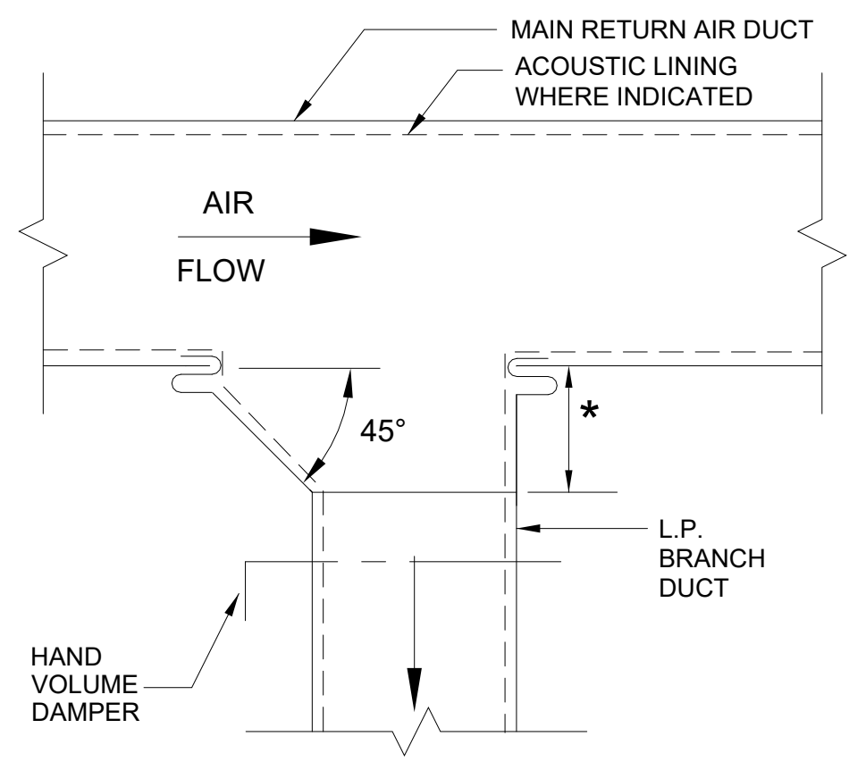
SIDE VIEW
(DUCT ON BACK SIDE OF WALL)

SIDE VIEW
(DUCT IN WALL BETWEEN STUDS)

FRONT VIEW

WALL MOUNTED RETURN AIR GRILLE DETAIL

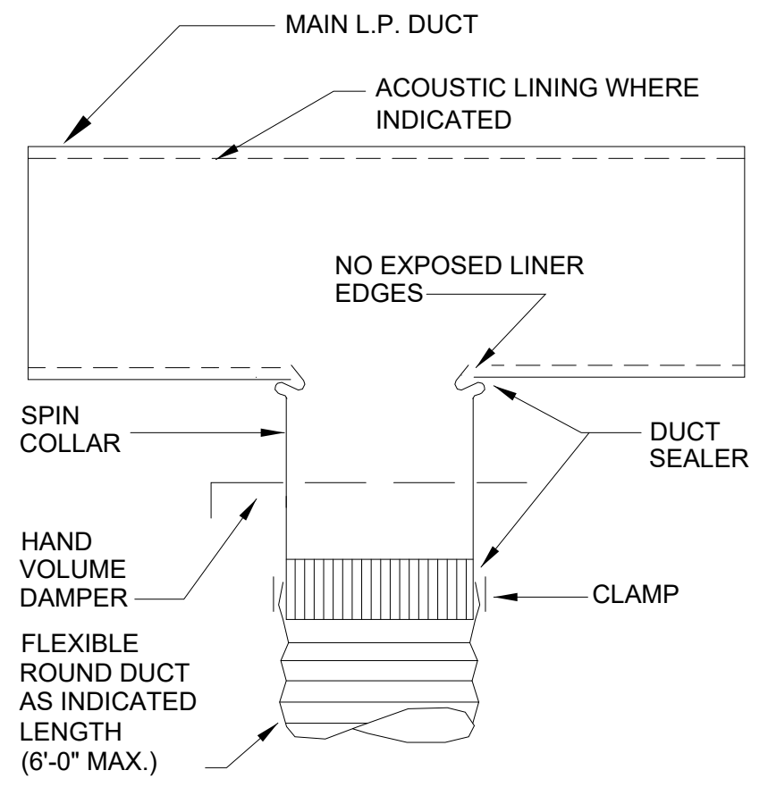
N.T.S.


MAIN RETURN AIR DUCT
ACOUSTIC LINING WHERE INDICATED
AIR FLOW
45°
*
L.P. BRANCH DUCT
HAND VOLUME DAMPER

*-EQUALS WIDTH OF BRANCH DUCT UP TO 12".
12" FOR ALL BRANCH DUCTS LARGER THAN 12".

TYPICAL SUPPLY AIR BRANCH DUCT TAKE-0FF

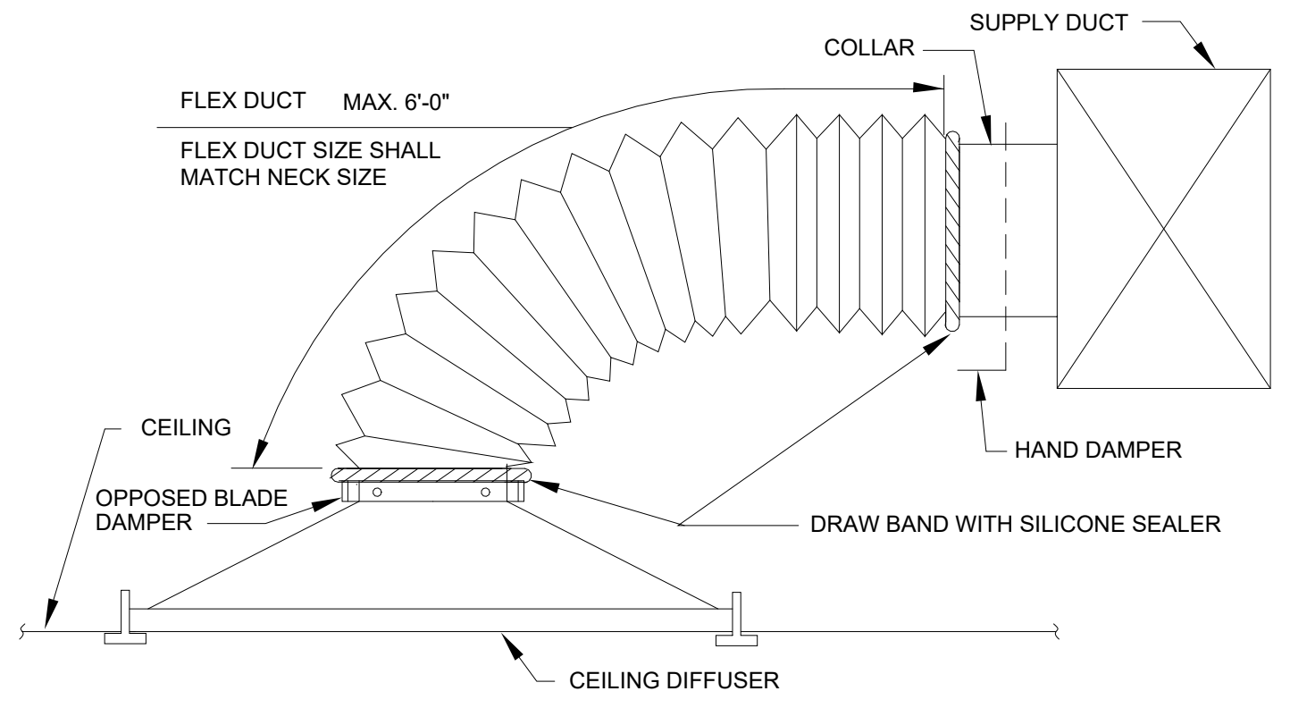
NOT TO SCALE


MAIN L.P. DUCT
ACOUSTIC LINING WHERE INDICATED
NO EXPOSED LINER EDGES
SPIN COLLAR
DUCT SEALER
HAND VOLUME DAMPER
CLAMP
FLEXIBLE ROUND DUCT AS INDICATED LENGTH (6'-0" MAX.)

ROUND DUCT

TYPICAL LOW PRESSURE BRANCH DUCT TAKE-OFF

NOT TO SCALE


SUPPLY DUCT
COLLAR
FLEX DUCT MAX. 6'-0"
FLEX DUCT SIZE SHALL MATCH NECK SIZE
CEILING
HAND DAMPER
OPPOSED BLADE DAMPER
DRAW BAND WITH SILICONE SEALER
CEILING DIFFUSER

TYPICAL DIFFUSER CONNECTION

(SIDE OF DUCT CONNECTION)

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PROJECT #: 26032
DRAWN BY: CMK
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No.	Description	Date

Rambler Baton Rouge
4076 Gourrier Avenue
Baton Rouge, LA 70808
LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M1.201

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SPLIT SYSTEM HEAT PUMPS

TAG	MANUFACTURER	MODEL NUMBER AIR HANDLER /HEAT PUMP UNIT	AIR HANDLER				CAPACITY				SEER2	HSPF2	ACCESSORIES
			TYPE	CFM	MAX FAN HP	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEAT PUMP HEAT (MBH)	AUXILARY HEAT OUTPUT (KW)			
AHU-A / HP-A	GOODMAN	AWST18SU1303A / GLZS4MA1810A	WALL	573	1/3	0.7	17.2	12.1	17.2	3	14.5	7.5	A, B, C, D, E, F, G
AHU-B / HP-A	GOODMAN	AWST18SU1305A / GLZS4MA1810A	WALL	573	1/3	0.7	17.2	12.1	17.2	5	14.5	7.5	A, B, C, D, E, F, G
AHU-C / HP-B	GOODMAN	AWST24SU1305A / GLZS4MA2410A	WALL	700	1/3	0.7	22	15.4	22	5	14.3	7.5	A, B, C, D, E, F, G
AHU-D / HP-C	GOODMAN	AWST30LU1305A / GLZS4MA3010A	WALL	940	1/2	0.7	28.2	19.8	27	5	15.2	7.5	A, B, C, D, E, F, G
AHU-E / HP-D	GOODMAN	AWST36LU1308A / GLZS4MA3610A	WALL	1140	1/3	0.7	34.2	23.9	34.4	18	15.2	7.8	A, B, C, D, E, F, G
AHU-F / HP-B	GOODMAN	AMST24BU1300AA / GLZS4MA2410A	MULTI	793	1/3	0.7	23.8	16.7	22	10	15.2	7.8	A, B, C, D, E, F, G
AHU-G / HP-D	GOODMAN	AMST48CU1300A / GLZS4BA4810A	MULTI	1517	3/4	0.7	45.5	31.9	46	10	15.2	7.8	A, B, C, D, E, F, G
AHU-H / HP-E	GOODMAN	AMST60DU1300A / GLZS4BA6010A	MULTI	1883	1	0.7	56.5	39.6	57	10	14.5	8.2	A, B, C, D, E, F, G

NOTES (APPLIES TO ALL UNITS):

1. COOLING CAPACITIES ARE BASED ON AN INDOOR EAT OF 80°F DB 67°F AND 95°F DB ENTERING OUTDOOR UNIT AND A PROJECTION ELEVATION OF 49'.
2. 14.5 SEER2 MINIMUM UNITS WITH R-454B. MINIMUM 7.5 HSPF2. SUBMIT AHRI CERTIFIED CAPACITIES FOR ACTUAL EQUIPMENT TO BE INSTALLED.
3. HEAT PUMP HEATING CAPACITY BASED ON AN INDOOR EAT OF 70°F DB AND 47°F ENTERING OUTDOOR UNIT.
4. ELECTRIC HEAT CAPACITY IS THE MINIMUM OUTPUT REQUIRED AT THE PROJECT VOLTAGE.
5. ESP DOES NOT INCLUDE COIL, FILTER, CASING AND ACCESSORY LOSSES.
6. REFER TO HVAC GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
7. ADJUST MOTOR SPEED TAP IN FIELD TO PROVIDE CFM LISTED FOR EACH AIR HANDLER.
8. INDOOR AND OUTDOOR UNITS SHALL BE INSTALLED PER PLANS, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
9. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED AND ROUTED PER PLANS AND DETAILS.
10. FOR LONG LINE APPLICATIONS, PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER.
11. SEE DRAWINGS FOR AIR HANDLER ORIENTATION.
12. ELECTRIC HEAT SHALL OPERATE ONLY WHEN IN THE DEFROST MODE OR WHEN THE HEATING LOAD CANNON BE MET BY THE COMPRESSOR ALONE.

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

A. INDOOR UNIT-SINGLE POINT POWER WIRING KIT WITH DISCONNECTING ME3ANS AND OVERLOAD PROTECTION (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)
B. OUTDOOR UNIT-DISCONNECT FURNISHED BY MECHANICAL; INSTALLED BY ELECTRICAL (COORDINATE WITH ELECTRICAL SUBCONTRACTOR)
C. FACTORY MOUNTED THERMAL EXPANSION VALVE TO ACHIEVE 15 SEER2 RATING (IF REQUIRED)
D. BI-FLOW REFRIGERANT FILTER DRIER IF REQUIRED BY MANUFACTURER (LOCATE PER MANUFACTURER'S RECOMMENDATION)
E. SAF-T-SWITCH INSTALLED IN SECONDARY CONDENSATE DRAIN FOR OVERFLOW PROTECTION OR ROUTE FULL SIZE OUTLET CONNECTION THRU CEILING WITH ESCUTCHEON
F. HARD START KIT
G. CRANKCASE HEATER

100% OUTSIDE AIR UNIT

TAG	MANUFACTURER	EQP SERIES	AREA SERVED	FAN			COOLING								HEATING		FILTERS	WEIGHT (LB)	ACCESSORIES
				AIRFLOW (CFM)	MAX MOTOR HP	ESP (IN WC)	CAPACITY (MBH)		TEMP (F)				EFFICIENCY		CAPACITY (MBH)	EAT (F)	MERV RATING		
							TOT	SENS	EAT		LAT	OUTDOOR AMB DB	EER	IEER	MAX OUTPUT				
									DB	WB	DB/DP								
DOAS-A	DIAKIN	DPSC31B	SEE DRAWINGS	5000	5	2.8	360.2	206.5	95	76.5	72/53.9	95			450	17	8	1808	A, B, C, D, E, F, G, H, I

NOTES:

1. COOLING CAPACITY BASED ON DESIGN WET BULB AND MEAN COINCIDENT DRY BULB LISTED AND A PROJECT ELEVATION OF 173'.
2. REFRIGERANT SHALL BE R32.
3. PROVIDE WITH CLASS 1, LOW-LEAKAGE TYPE OUTSIDE AIR SHUTOFF DAMPERS WITH BLADE AND JAMB SEALS.
4. COMPRESSORS SHALL HAVE ANTI-RECYCLE CONTROLS, CRANKCASE HEATERS ON ALL COMPRESSORS AND VARIABLE CAPACITY ON AT LEAST ONE COMPRESSOR.
5. UNITS SHALL BE AHRI 340/360 RATED, PROVIDED WITH 2" PLEATED DISPOSABLE FILTERS, DIRTY FILTER MONITOR AND ALARM, CONDENSATE OVERFLOW SWITCH , SS DRAIN PAN, SINGLE POINT POWER CONNECTION, WEATHER HOOD WITH ALUMINUM MESH FILTERS, PHASE AND BROWNOUT PROTECTION, AND COOLING OPERATION DOWN TO 40°F.
6. FANS SHALL BE DIRECT DRIVE PLENUM TYPE WITH PREMIUM EFFICIENCY MOTORS AND VARIABLE SPEED DRIVE.
7. PROVIDE FULLY MODULATING HOT GAS RE-HEAT.
8. PROVIDE MANUFACTURER STARTUP AND REPORT.
9. MOUNT ON MINIMUM 1" DEFLECTION SPRING VIBRATION RAILS.
10. UNITS SHALL BE ABLE TO CONTROL LAT DEW POINT TEMPERATURE AS SCHEDULED AND REHEAT LAT TO 75°F FROM 0 TO 100% CAPACITY.

ACCESSORIES:

A. BAS COMPATIBLE CONTROLLER, PROGRAMMABLE DIGITAL DISPLAY THERMOSTAT
B. REMOTE CONTROL PANEL
C. UNIT MOUNTED FACTORY DISCONNECT
D. SMOKE DETECTOR MOUNTED IN SUPPLY AIRSTREAM
E. GFCI 15 AMP CONVENIENCE OUTLET POWERED ON LINE SIDE OF DISCONNECT
F. TWO SCROLL COMPRESSORS OPERATE DOWN TO 17% OF TOTAL CAPACITY
G. CONDENSER COIL HAIL GUARDS
H. CONDENSATE OVERFLOW PROTECTION VIA FLOAT SWITCH IN DRAIN PAN TO SHUT DOWN UNIT
I. BOTTOM DISCHARGE CURB.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	DUTY	CFM	SP	MAX HP	RPM	DRIVE	SONES	CONTROL	EMERGENCY POWER	VOLTAGE	ACCESSORIES
EF-A	BROAN	FIN-180-HW	FRESH AIR INTAKE	DWELLIN WHOLE UNIT VENTILATION	130	0.2	18.2W	600	DIRECT	- - -	AHU	NO	120	2
EF-B	BROAN	AE110L	LOW PROFILE LIGHT	RESTROOM EXHAUST	92	0.25	23.4W	- - -	DIRECT	1	WS	NO	120	1, 3
EF-C	BROAN	L100E	LOW PROFILE	DWELLING KITCHEN EXHAUST	103	0.25	21W	803	DIRECT	0.7	WS	NO	120	1
EF-1	GREENHECK	GB-140	INLINE CENTRIFUGAL	TRASH EXHAUST	1700	0.5	0.5	1156	DIRECT	9.8	CONTINOUS	NO	208/3	4
EF-2	GREENHECK	GB-120	INLINE CENTRIFUGAL	TRASH EXHAUST	1200	0.5	0.25	1263	DIRECT	9.8	CONTINOUS	NO	208/3	4
EF-3	GREENHECK	IC-24-B3-J1-QD	CIRCULATION	PARKING GARAGE CIRCULATION	- - -	- - -	1/3	1200	DIRECT	- - -	CONTINOUS	NO	120	- - -
EF-4	GREENHECK	AX-80-190-0615	TUBE AXIAL DIRECT	PARKING GARAGE BASELINE EXHAUST	10800	0.35	1.5	1174	DIRECT	25	CONTINOUS	NO	208/1	4
EF-5	GREENHECK	USF-54-B6	INLINE CENTRIFUGAL	PARKING GARAGE DEMAND EXHAUST	50000	0.35	25	557	BELT	55	CO SENSOR	NO	208/3	4

ACCESSORIES:

1. GRAVITY BACKDRAFT DAMPER
2. MOTORIZED BACKDRAFT DAMPER
3. WALL MOUNTED TIMER SWITCH
4. MOTOR VFD EQUIPPED FOR BALANCING PURPOSES
5. PRESSURE SENSOR CONTROLLED

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	MOUNTING STYLE	SIZE	TYPICAL CFM
R1	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	10 X 4	0-50
R2	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	10 X 6	51-100
R3	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	12 X 6	101-150
R4	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	14 X 6	151-200
R5	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	14 X 8	201-250
R6	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	16 X 10	251-300
R7	RECTORSEAL	TRUAIRE 100 SERIES	SURFACE	24 X 12	725-775
R8	RECTORSEAL	TRUAIRE 170 SERIES	SURFACE	12 X 12	260-400
R9	RECTORSEAL	TRUAIRE 170 SERIES	SURFACE	12 X 18	400-600
R10	RECTORSEAL	TRUAIRE 170 SERIES	SURFACE	24 X 18	800-1200
R11	RECTORSEAL	TRUAIRE 170 SERIES	SURFACE	24 X 24	1000-1550
R12	RECTORSEAL	TRUAIRE 170 SERIES	SURFACE	30 X 18	1500-1900
R13	HART & COOLEY	92VHV	SURFACE	10 X 10	350-500
R14	HART & COOLEY	92VHV	SURFACE	10 X 12	400-600
R15	HART & COOLEY	92VHV	SURFACE	12 X 12	600-900
R16	HART & COOLEY	92VHV	SURFACE	14 X 14	800-1100
R17	HART & COOLEY	92VHV	SURFACE	18 X 14	1200-1600
S1	RECTORSEAL	LD LINEAR SLOT	SURFACE	2'	0-100
S2	RECTORSEAL	LD LINEAR SLOT	SURFACE	4'	101-200
S3	RECTORSEAL	LD LINEAR SLOT	SURFACE	6'	201-300

NOTES:

1. COORDINATE BORDER AND FINISH WITH ARCHITECT.
2. PROVIDE CEILING RADIATION DAMPERS FOR ALL DEVICES LOCATED WITHIN ALL RATED FLOOR CEILING ASSEMBLES. RADIATION DAMPERS SHALL BE UL555C TESTED AND PROVIDED WITH 212F FUSABLE LINKS.
3. PROVIDE OPPOSED BLADE DAMPER FOR BALANCING AT FACE OF DIFFUSER.
4. DIFFUSERS IN CORRIDOR SHALL BE 2 WAY THROW. ALL OTHER DIFFUSERS SHALL BE 4 WAY THROW SHALL BE 4 WAY THROW UNLESS OTHERWISE NOTED ON DRAWING.
5. DIFFUSERS SHALL INCLUDE BALANCING DAMPER ACCESSORY.

FIRE & SMOKE CONTROL SCHEDULE

TAG	DEVICE	MANUFACTURER	MODEL	SIZE	LOCATION	NOTES
FSD-A	FIRE SMOKE DAMPER	GREENHECK	FSD-212	DUCT	SEE DWG	1, 2
FSD-B	FIRE SMOKE DAMPER	GREENHECK	FSDR-511	6" ø	SEE DWG	1, 2

NOTES:

1. 120VAC POWER
2. 2 POSITION, SPRING RETURN

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE	LOCATION	NOTES
LV-A	GREENHECK	ESD-603	18 X 30	PARKING GARAGE CONTINOUS INTAKE	1-7
LV-B	GREENHECK	ESD-635	60 X 84	PARKING GARAGE RAMP UP INTAKE	1-7
LV-C	GREENHECK	ESD-635	30 X 120	PARKING GARAGE RAMP UP INTAKE	1-7
LV-1	GREENHECK	ESD-635	24 X 24	EAST BUILDING TRASH INTAKE	1-7
LV-2	GREENHECK	EVH-302	18 X 24	WEST BUILDING TRASH INTAKE	1-7
WC-A	BUILDERS BEST	AMW604	4 Ø	4" EXHAUST ALL AREAS	8-12
WC-B	BUILDERS BEST	AMW604	6 Ø	6" EXHAUST/INTAKE ALL AREAS	8-12

NOTES:

1. LOUVERS SHALL BE AMCA CERTIFIED FOR AIR PERFORMANCE, WATER PENETRATION, AND WIND-DRIVEN RAIN PERFORMANCE.
2. PROVIDE LOUVERS WITH FACTORY-INSTALLED BIRD SCREEN WHERE INDICATED.
3. PROVIDE FLANGED FRAME, MOUNTING ANGLES, AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE AND WEATHER-TIGHT INSTALLATION.
4. LOUVER SIZE SHALL BE AS INDICATED. PROVIDE MULTIPLE SECTIONS AND STRUCTURAL REINFORCING AS REQUIRED BY MANUFACTURER FOR LARGE OPENINGS.
5. COORDINATE LOUVER INSTALLATION WITH EXTERIOR WALL CONSTRUCTION AND PROVIDE POSITIVE DRAINAGE TO THE EXTERIOR.
6. LOUVER PERFORMANCE SHALL BE BASED ON MANUFACTURER'S PUBLISHED PERFORMANCE DATA FOR THE ACTUAL LOUVER SIZE. DO NOT ASSUME FREE AREA FROM NOMINAL LOUVER SIZE.
7. PROVIDE FACTORY FINISH AS SELECTED BY ARCHITECT.
8. PROVIDE WALL CAPS COMPLETE WITH INTEGRAL GRAVITY DAMPER, COLLAR, MOUNTING HARDWARE, AND WEATHER-RESISTANT FINISH.
9. WALL CAPS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND SEALED WEATHER-TIGHT TO THE EXTERIOR WALL ASSEMBLY.
10. PROVIDE WALL CAP SIZE TO MATCH CONNECTING DUCT SIZE. DO NOT REDUCE DUCT SIZE AT WALL CAP UNLESS SPECIFICALLY INDICATED.
11. PROVIDE REMOVABLE SCREEN WHERE PROVIDED BY MANUFACTURER AND REQUIRED FOR THE APPLICATION. SCREENS SHALL NOT BE INSTALLED ON DRYER EXHAUST TERMINATIONS WHERE PROHIBITED BY CODE OR MANUFACTURER.
12. PROVIDE FINISH/COLOR TO MATCH ARCHITECTURAL REQUIREMENTS.

DUCTLESS SPLIT SYSTEM HEAT PUMPS

TAG	MANUFACTURER	AREA SERVED	HEAD				HEAT PUMP		ELECTRICAL			
			TYPE	MODEL	CAPACITY	CFM	MODEL	CAPACITY	HEAD		HEAT PUMP	
									MCA	MOCP	MCA	MOCP
DSS-A / DHP-A	DIAKIN		WALL	FAQ18TAVJU	18000	353	RZR18TBVJUA	18000				
DSS-B / DHP-B	DIAKIN		WALL	FAQ24TAVJU	24000	353	RZR24TBVJUA	24000				
DSS-C / DHP-A	DIAKIN		CEILING	FCQ18AAVJU	18000	353	RZR18TBVJUA	18000				
DSS-D / DHP-B	DIAKIN		CEILING	FCQ24AAVJU	24000	765	RZR24TBVJUA	24000				
DSS-E / DHP-C	DIAKIN		CEILING	FCQ30AAVJU	30000	765	RZR30TBVJUA	30000				
DSS-F / DHP-D	DIAKIN		CEILING	FCQ36AAVJU	36000	765	RZR36TBVJUA	36000				

NOTES:

1. VERIFY REFRIGERANT PIPING LENGTHS AND LIMITATIONS WITH MANUFACTURER REQUIREMENTS.
2. PROVIDE WITH WALL BRACKET AND REMOTE WALL MOUNTED THERMOSTAT.
3. INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
4. OUTDOOR UNITS SHALL BE MOUNTED ON ISOLATION PADS PER DETAILS.

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LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL EQUIPMENT SCHEDULE

SHEET NUMBER:
M1.300

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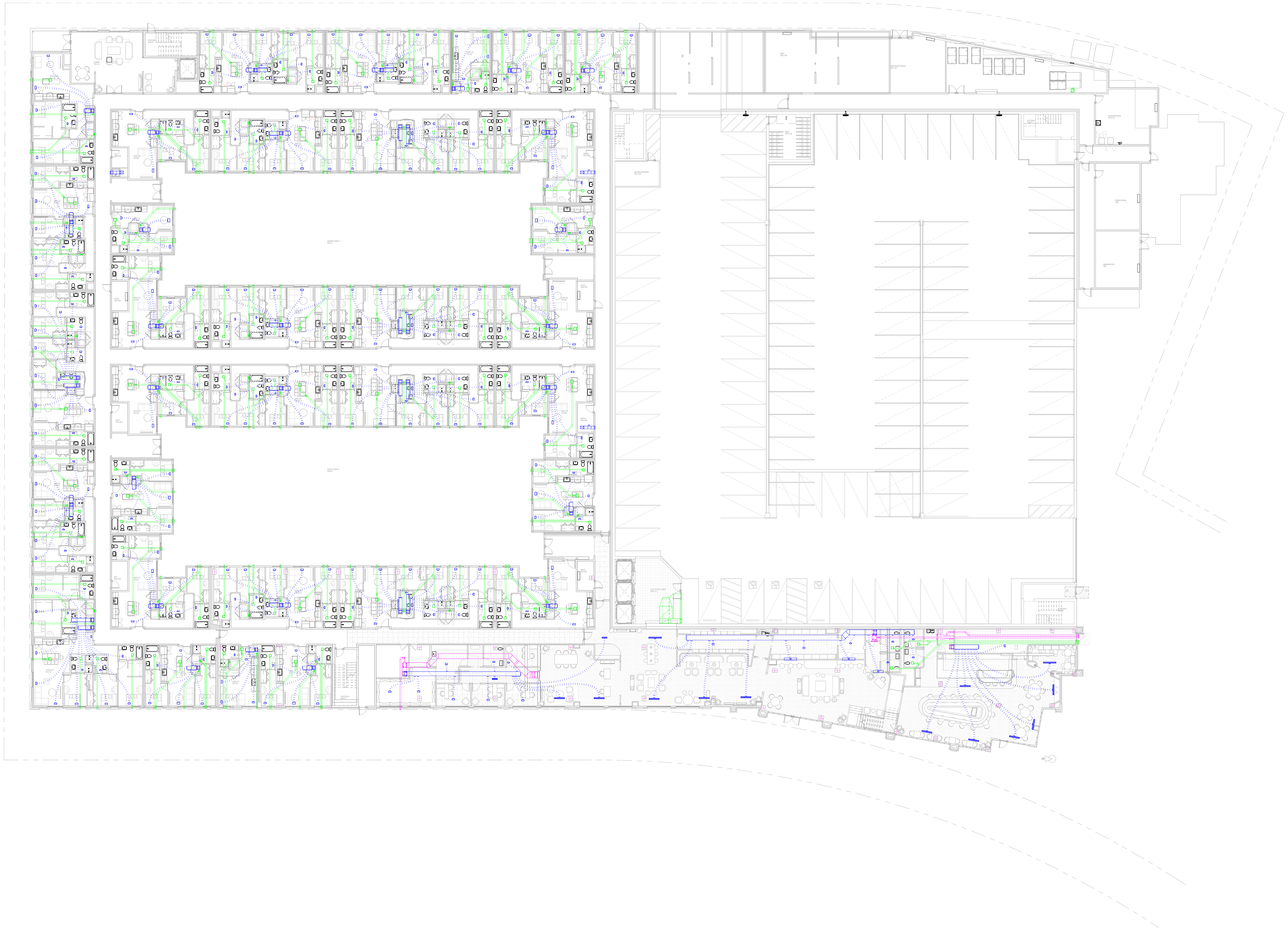
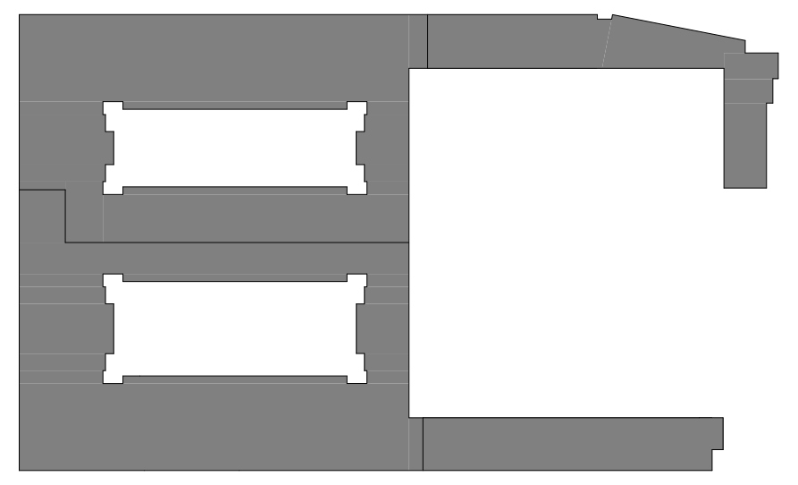


① LEVEL 01 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 01

SHEET NUMBER:
M4.110

NOT RELEASED FOR CONSTRUCTION

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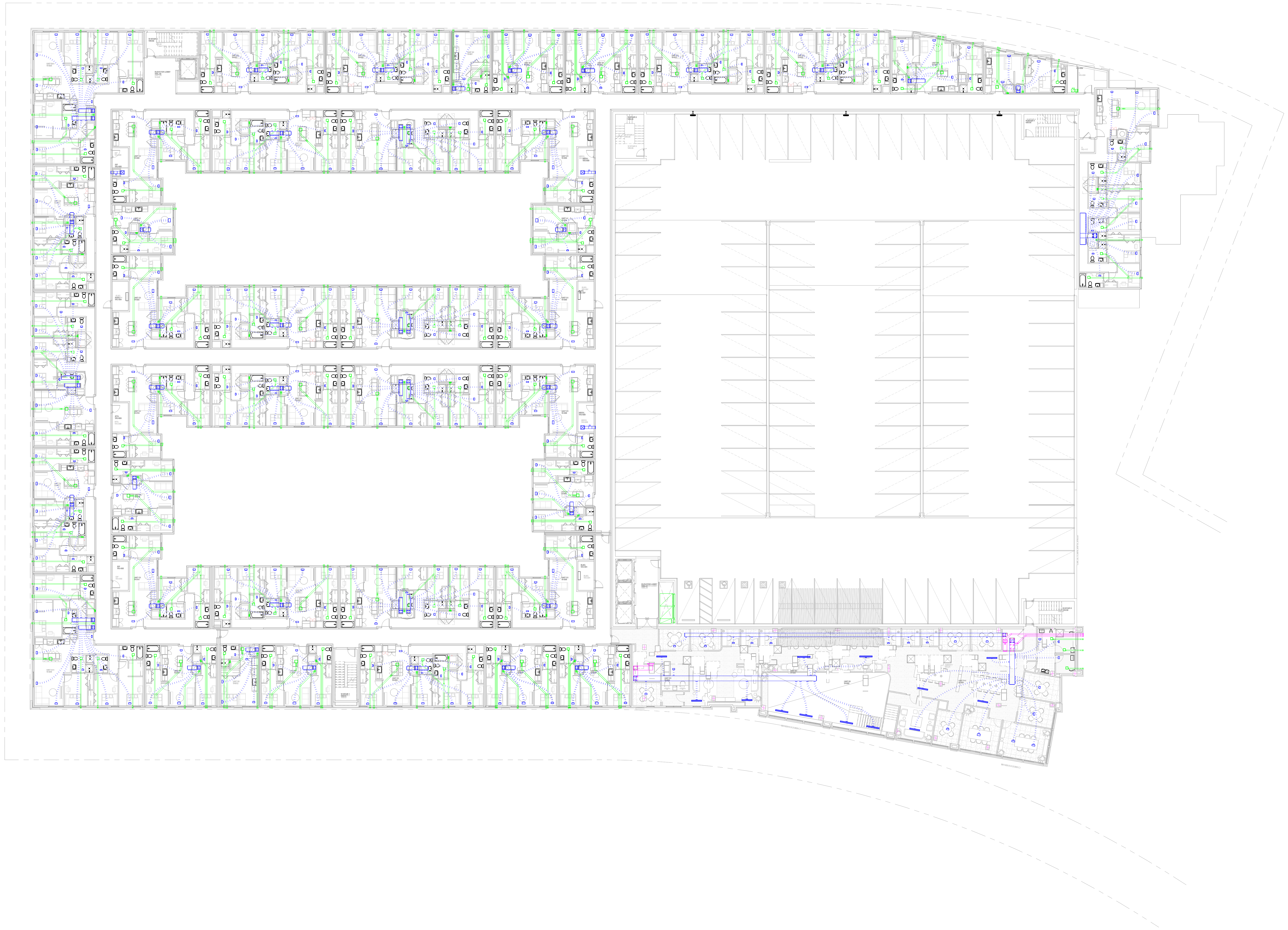
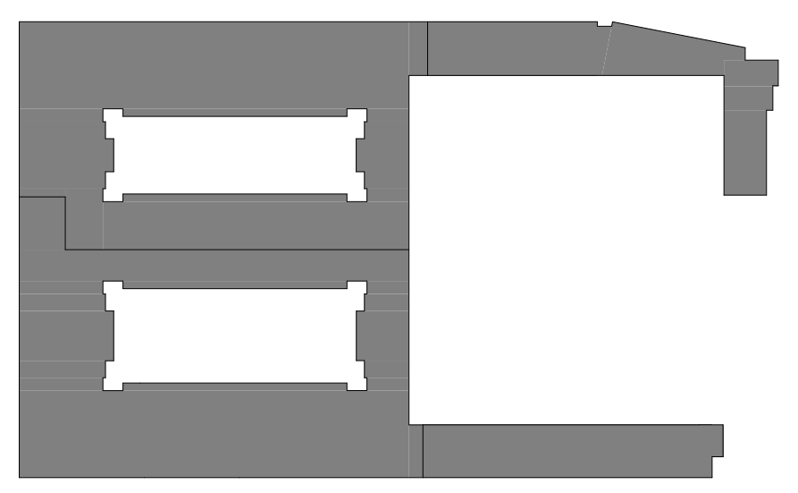


① LEVEL 02 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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CHECKED BY: Checker

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9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 02

SHEET NUMBER:
M4.120

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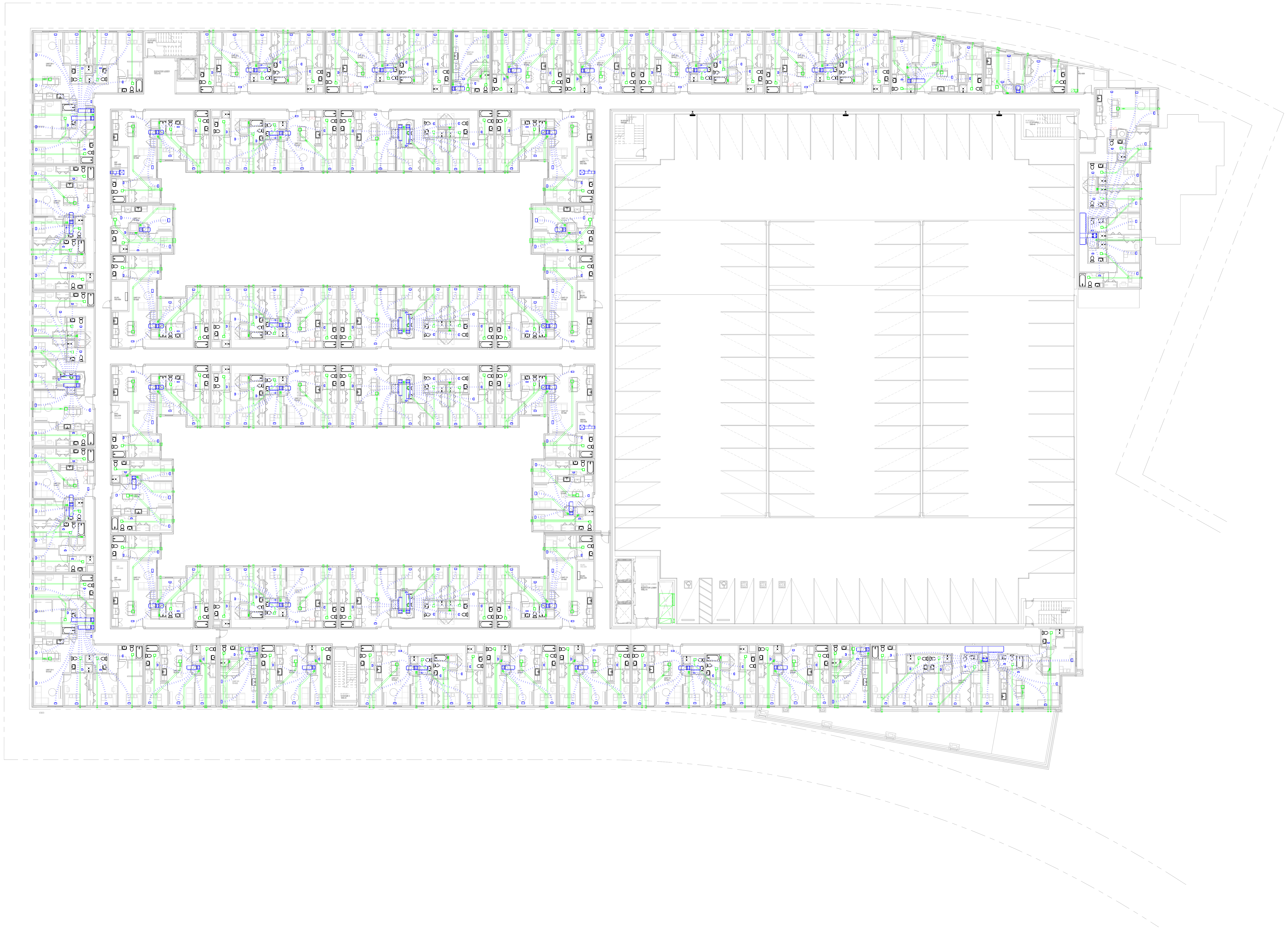
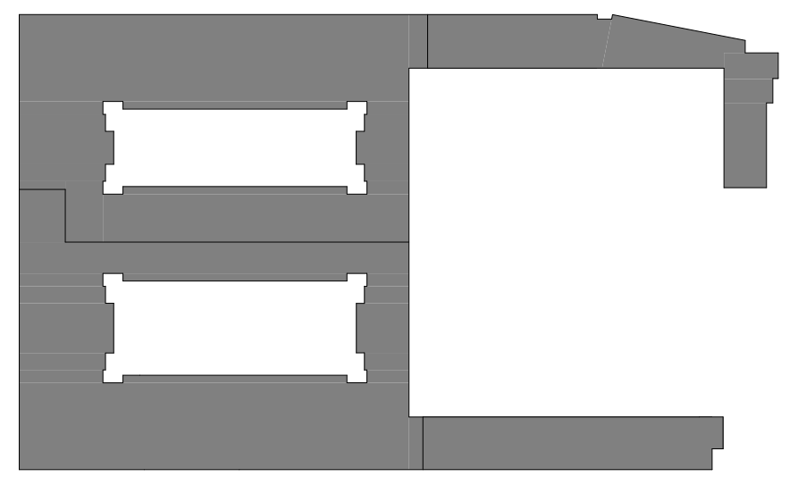


① LEVEL 03 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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Rambler Baton Rouge
4076 Gourrier Avenue
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LV COLLECTIVE

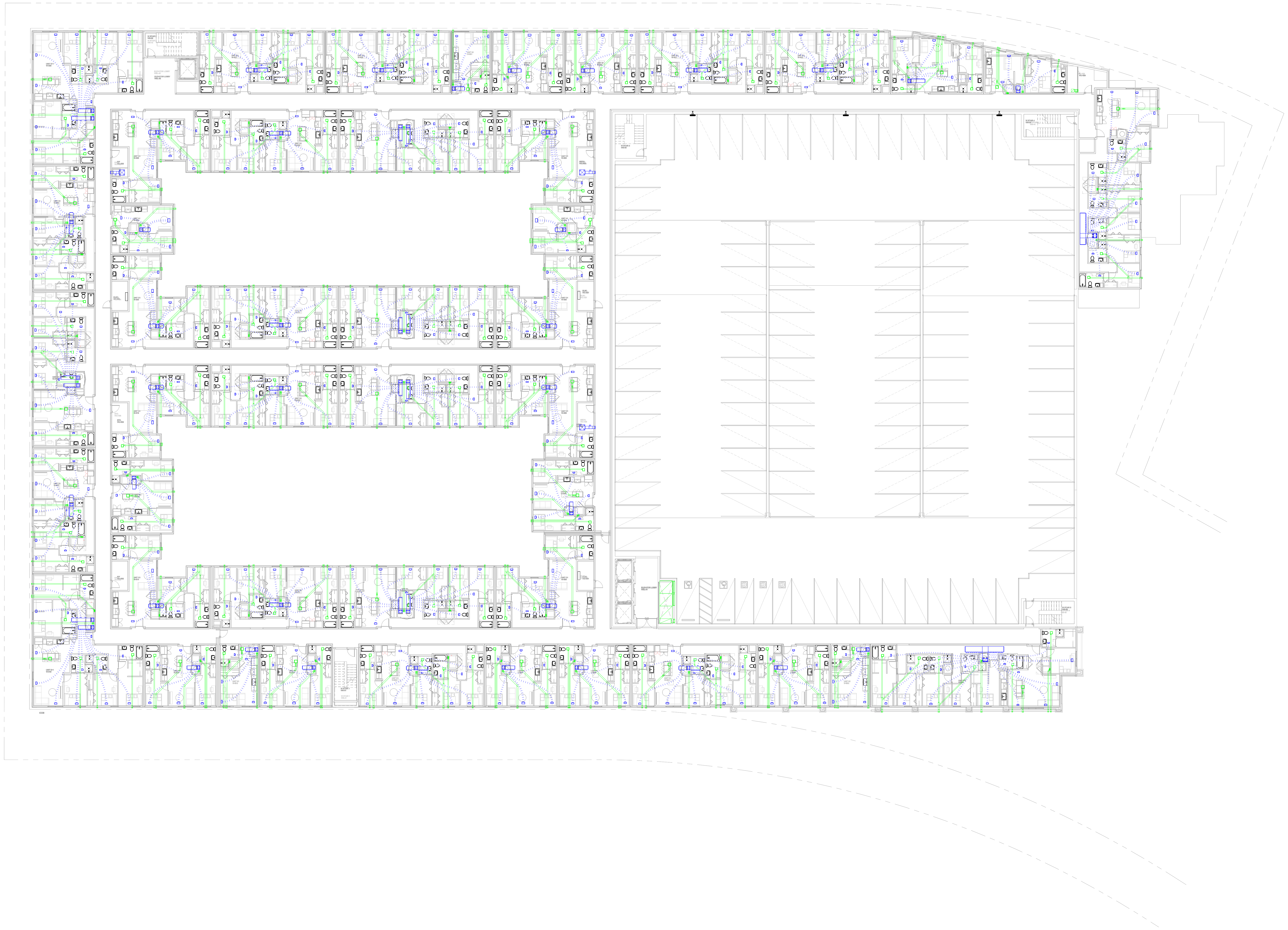
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 03

SHEET NUMBER:
M4.130

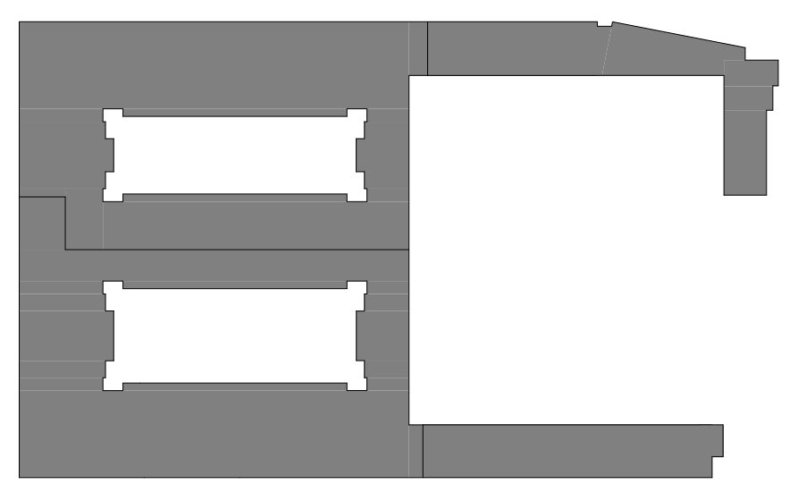
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:04:36 PM



① LEVEL 04 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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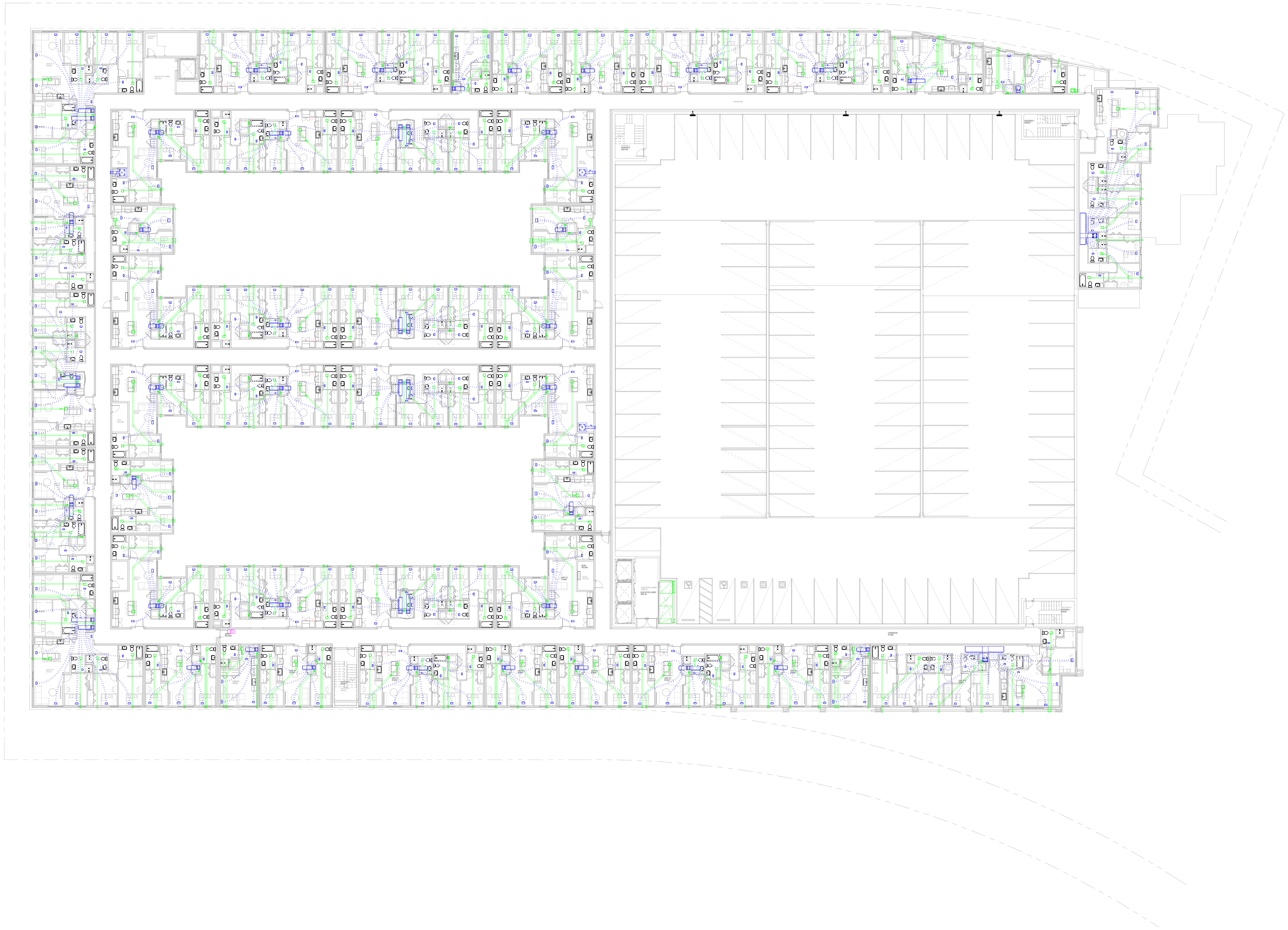
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 04

SHEET NUMBER:
M4.140

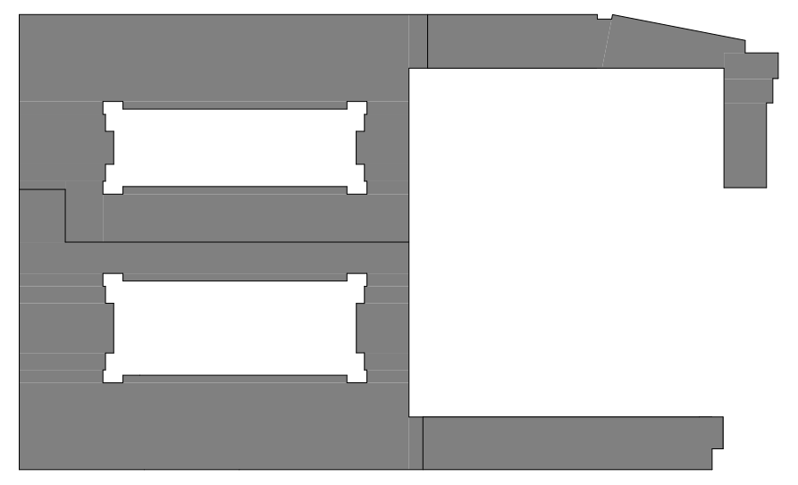
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:05:13 PM



① LEVEL 05 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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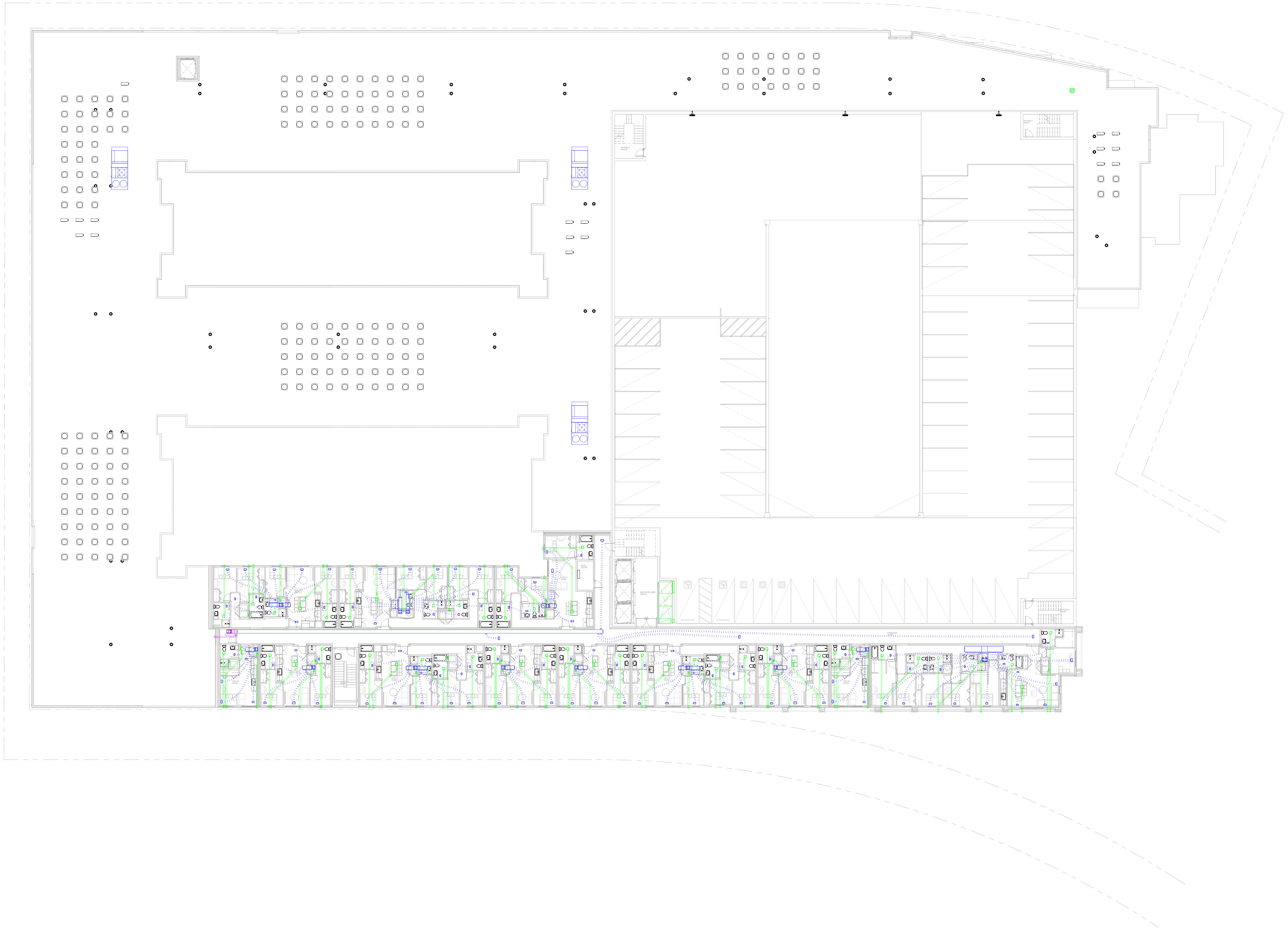
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 05

SHEET NUMBER:
M4.150

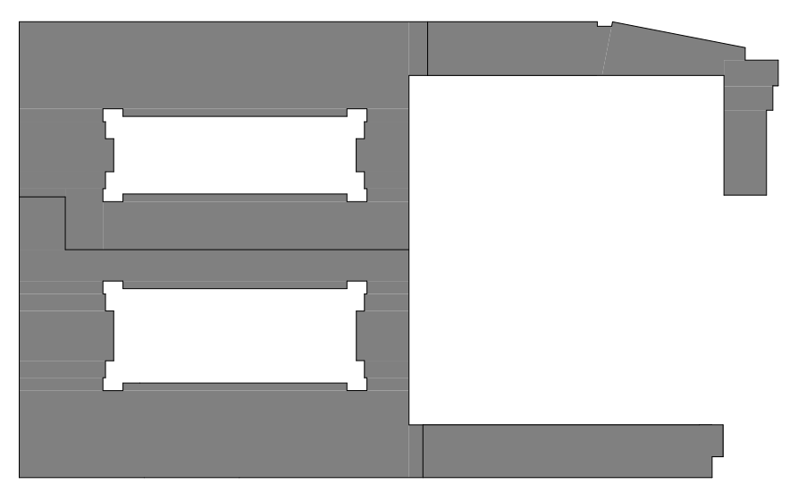
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:05:50 PM



① LEVEL 06 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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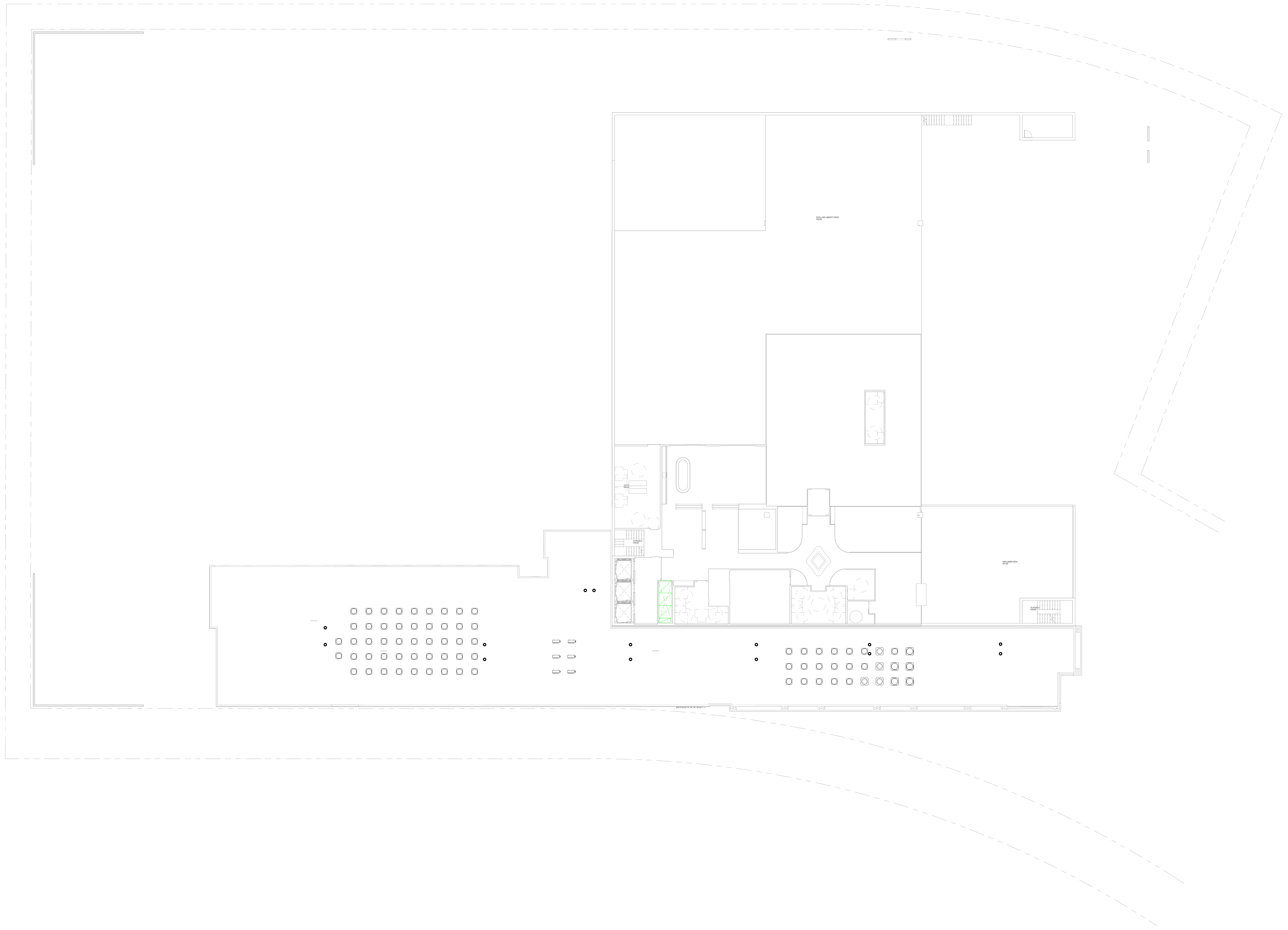
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 06

SHEET NUMBER:
M4.160

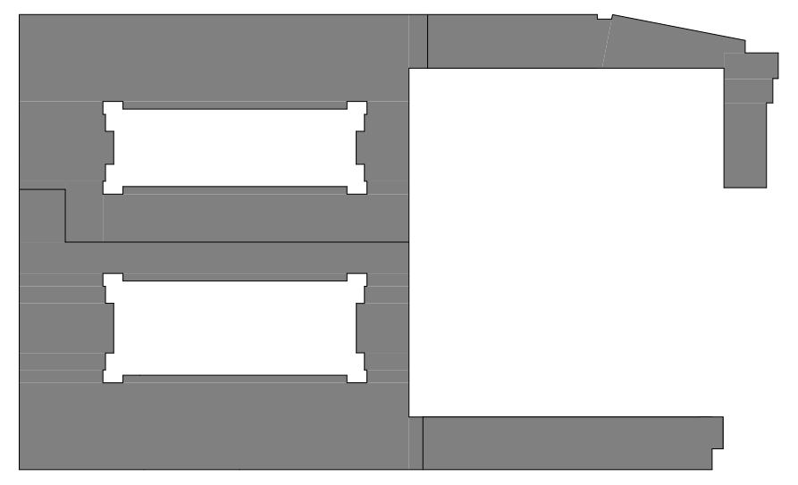
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:04 PM



1 LEVEL 07 WEST BUILDING
1/16" = 1'-0"

KEY PLAN



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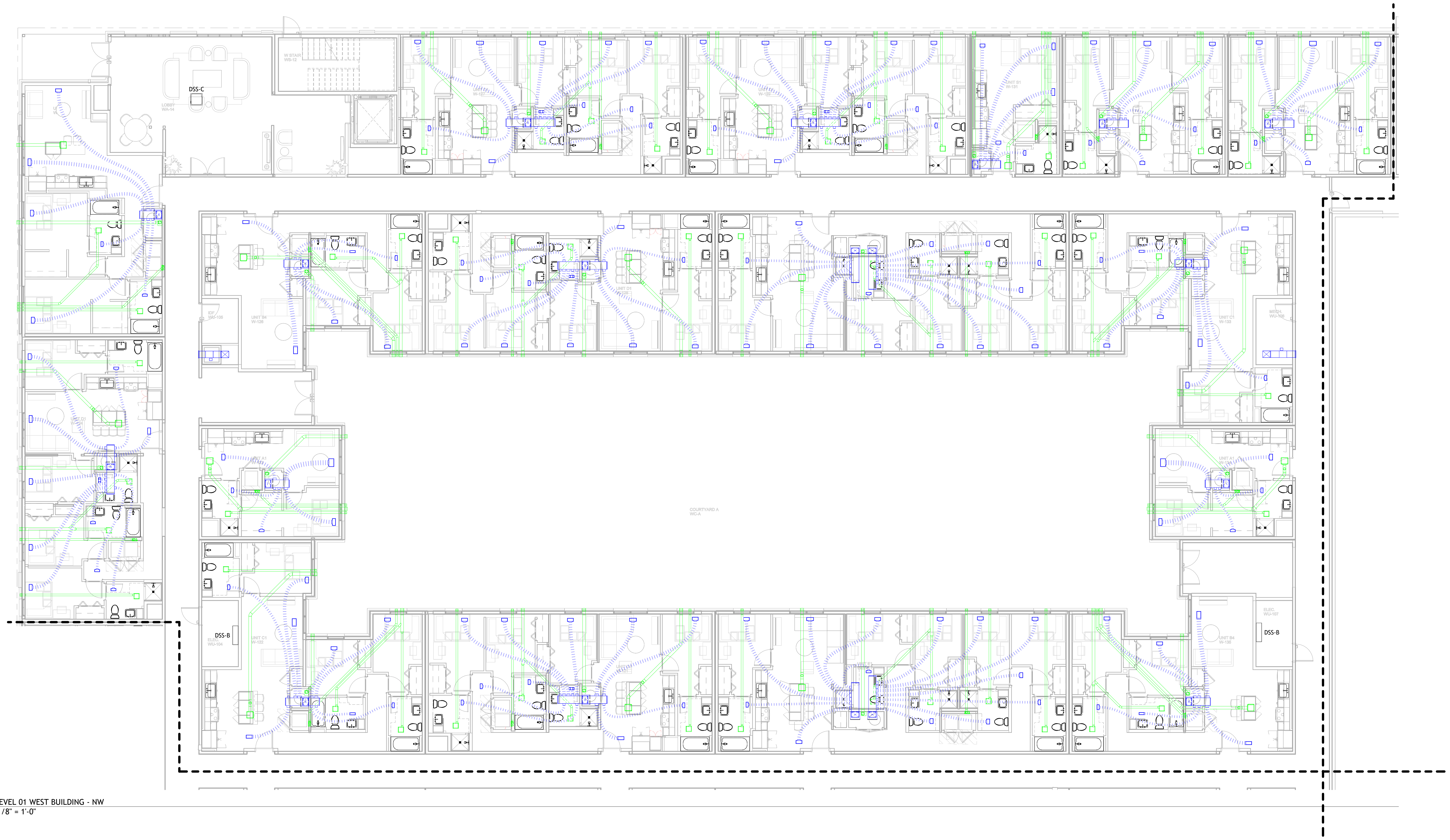
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - ROOF

SHEET NUMBER:
M4.170

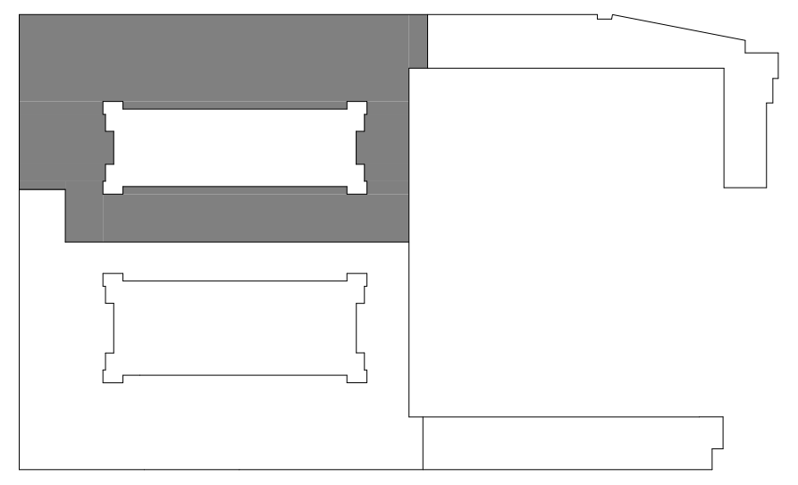
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:08 PM



① LEVEL 01 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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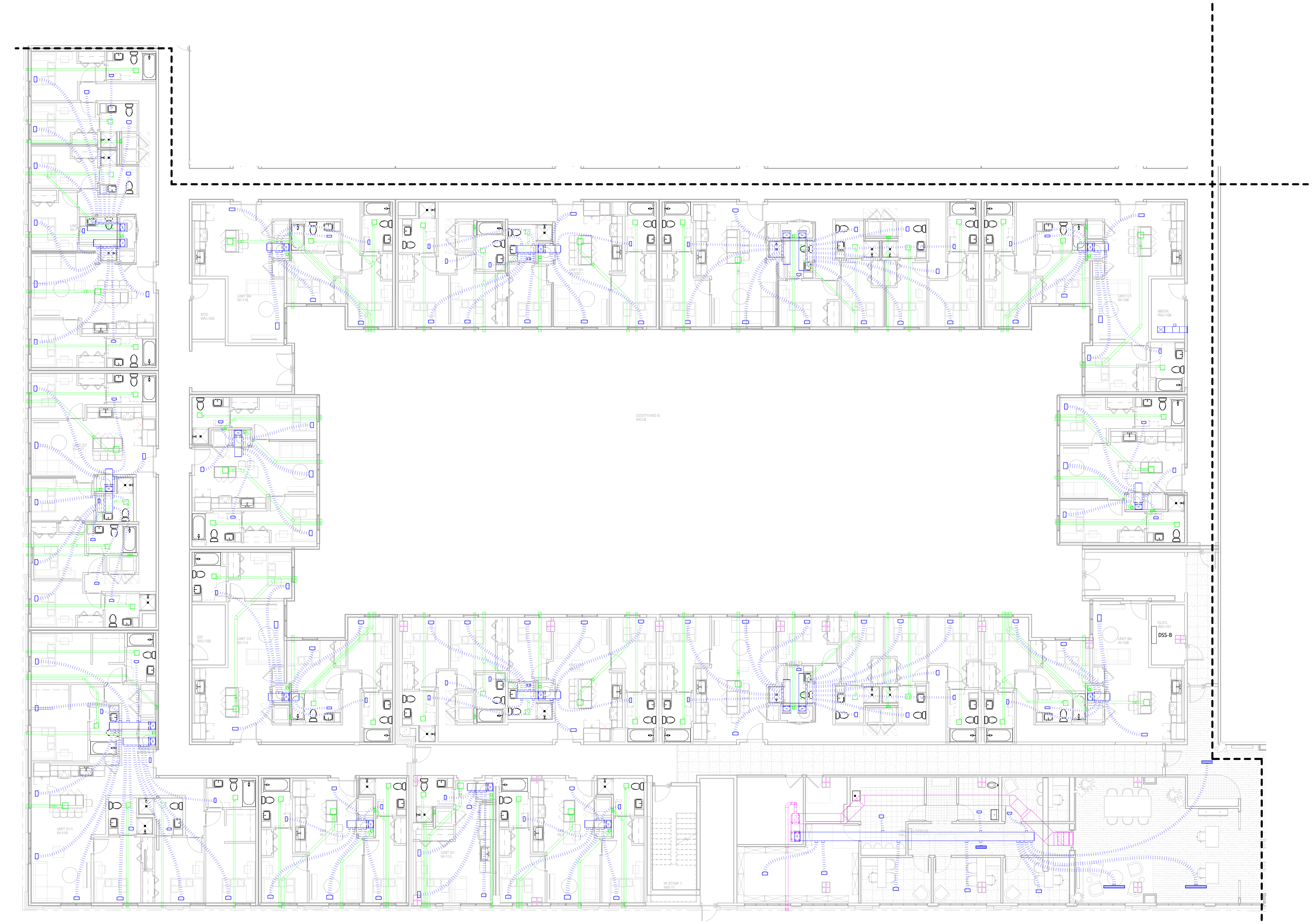
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 01 - AREA A

SHEET NUMBER:
M4.210

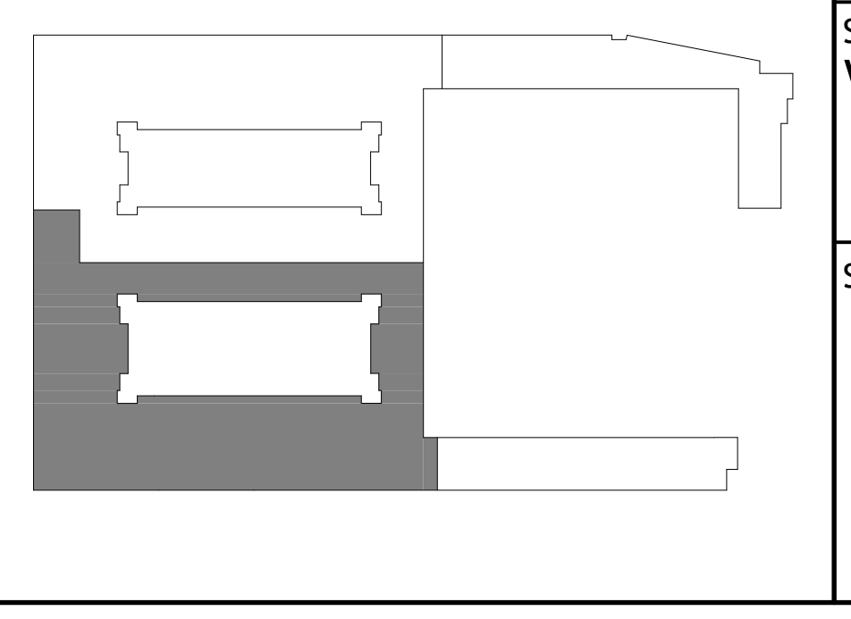
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:22 PM



① LEVEL 01 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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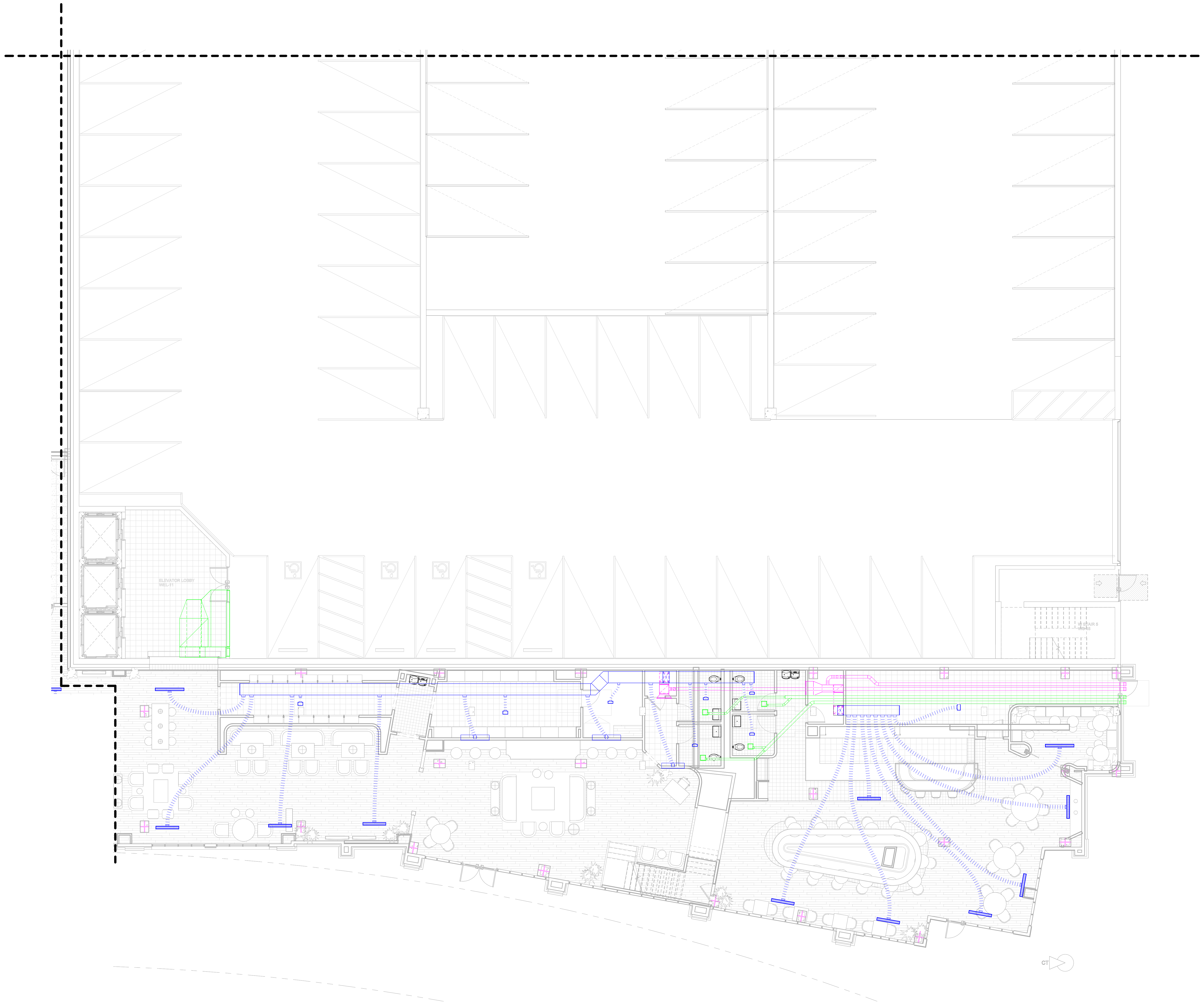
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 01 - AREA B

SHEET NUMBER:
M4.211

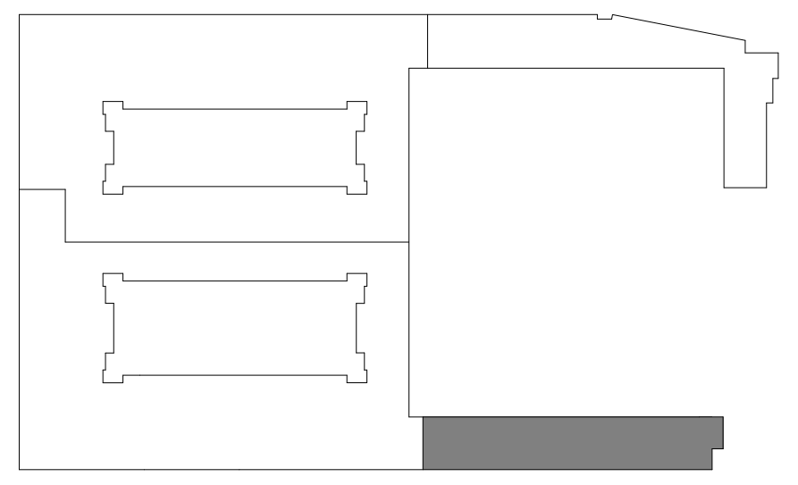
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:38 PM



1 LEVEL 01 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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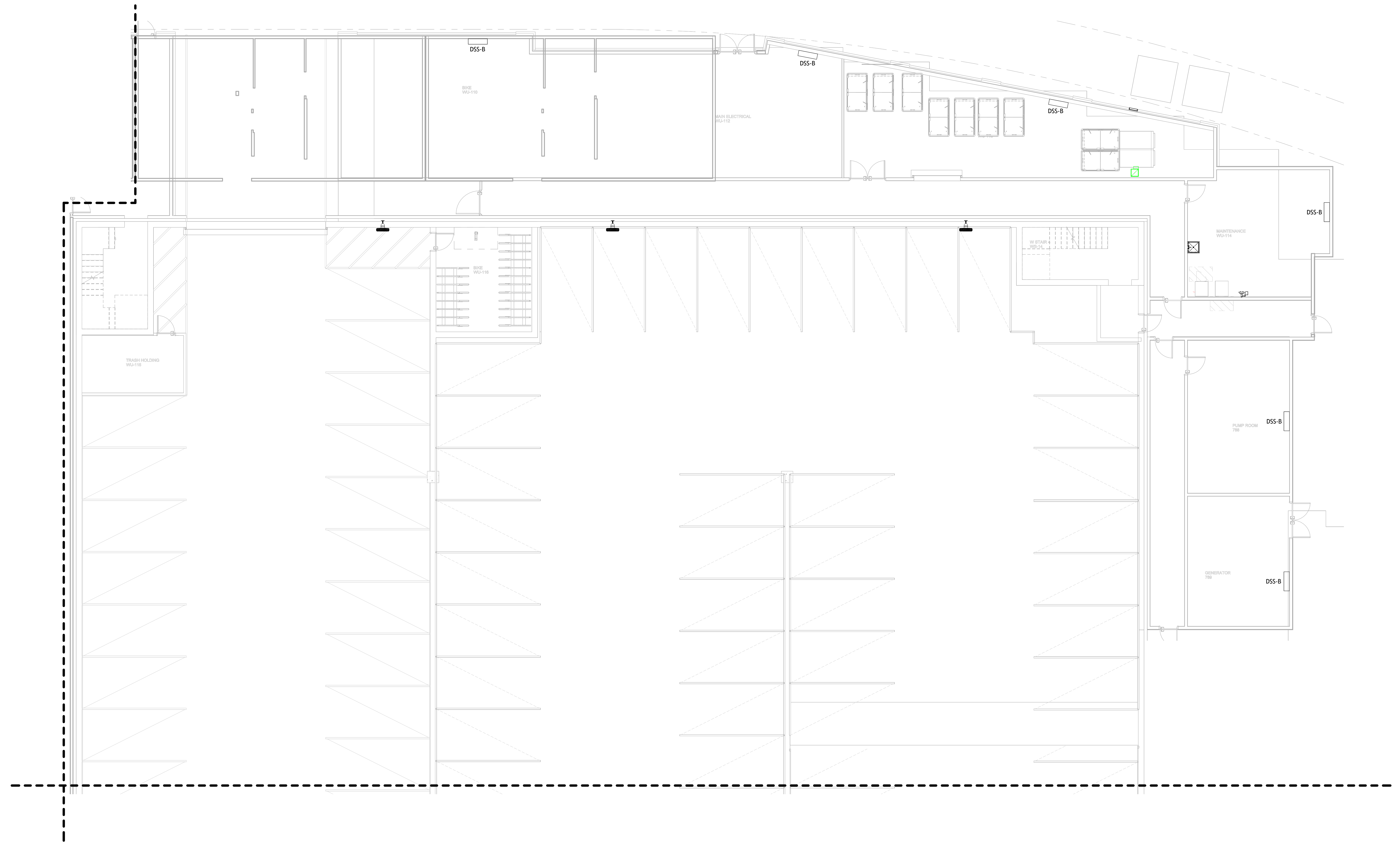
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 01 - AREA C

SHEET NUMBER:
M4.212

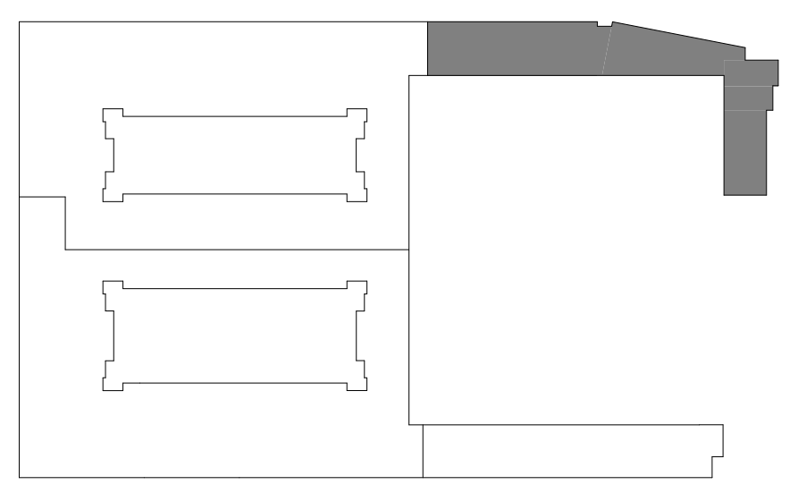
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:39 PM


DSS-B
DSS-B
DSS-B
DSS-B
DSS-B
DSS-B
BIKE
WU-110
MAIN ELECTRICAL
WU-112
BIKE
WU-116
TRASH HOLDING
WU-115
W STAIR 4
WS-14
MAINTENANCE
WU-114
PUMP ROOM
788
GENERATOR
789

① LEVEL 01 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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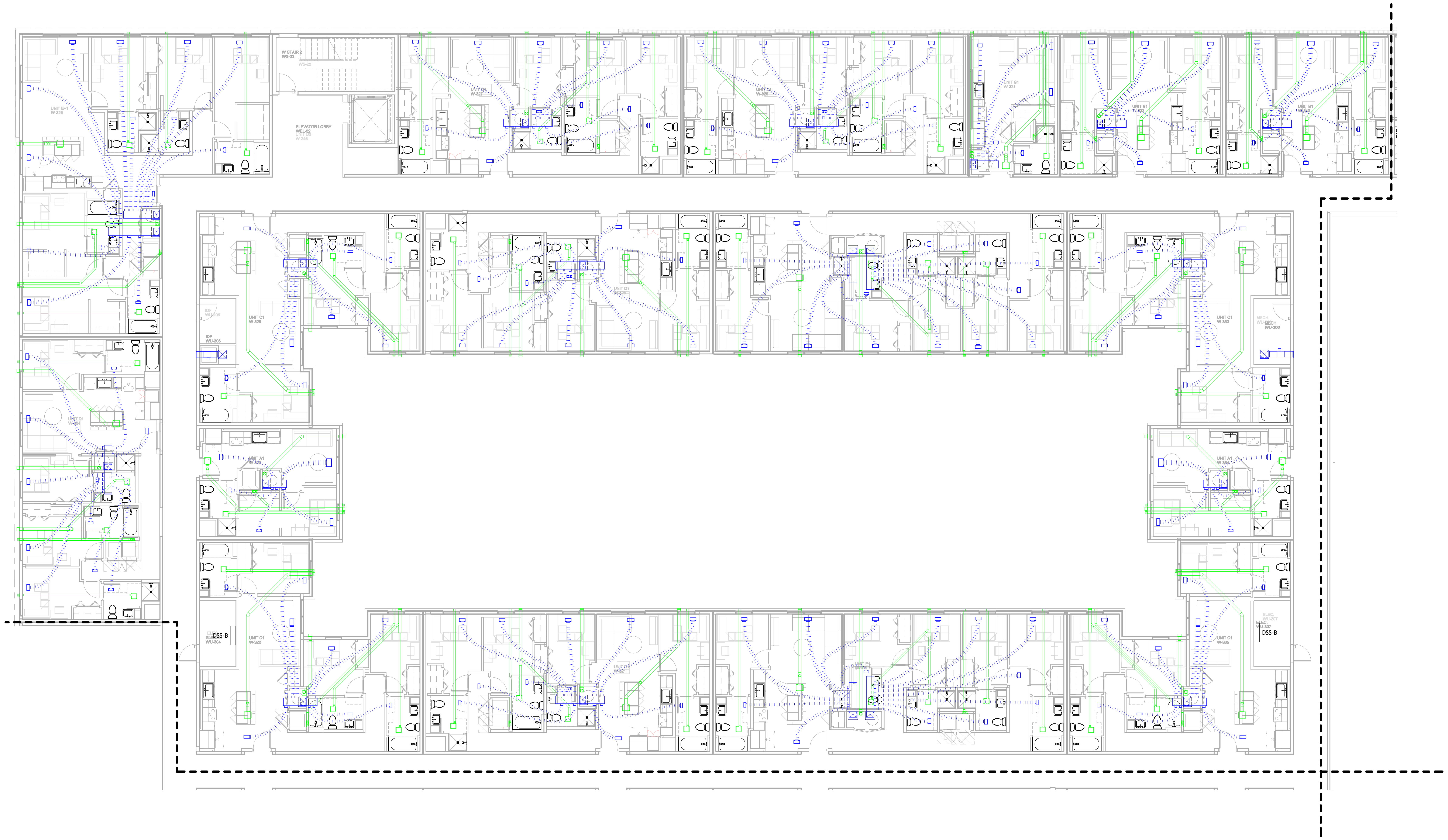
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 01 - AREA D

SHEET NUMBER:
M4.213

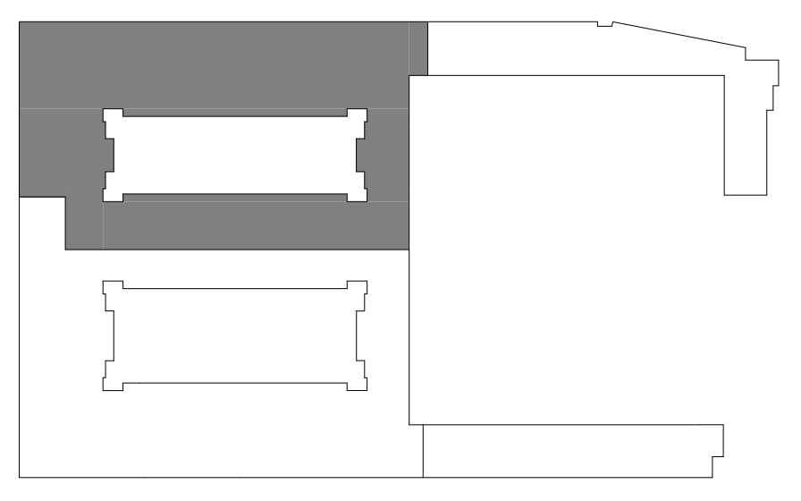
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:41 PM


W STAIR 2
WS-32
ELEVATOR LOBBY
WEL-32
UNIT D2
W-246
UNIT E+1
W-325
IDF
WU-205
IDF
WU-305
UNIT C1
W-326
ELEC.
WU-207
ELEC.
WU-307
DSS-B
UNIT C1
W-335
DSS-B

1 LEVEL 02 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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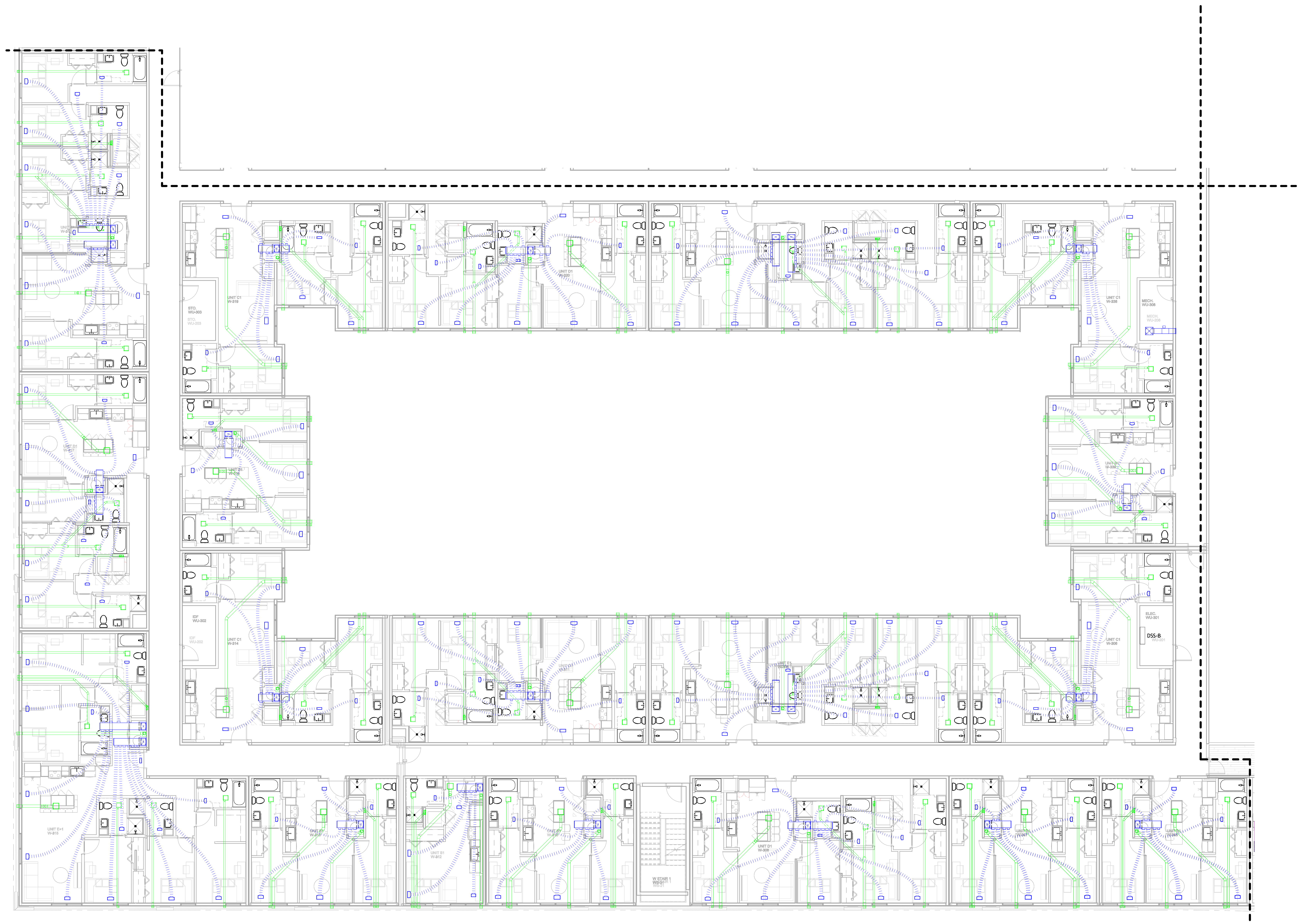
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 02 - AREA A

SHEET NUMBER:
M4.220

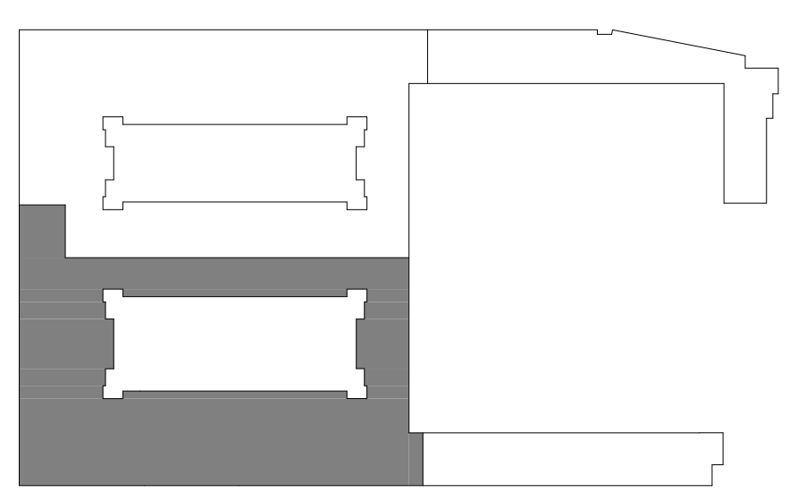
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:06:59 PM



① LEVEL 02 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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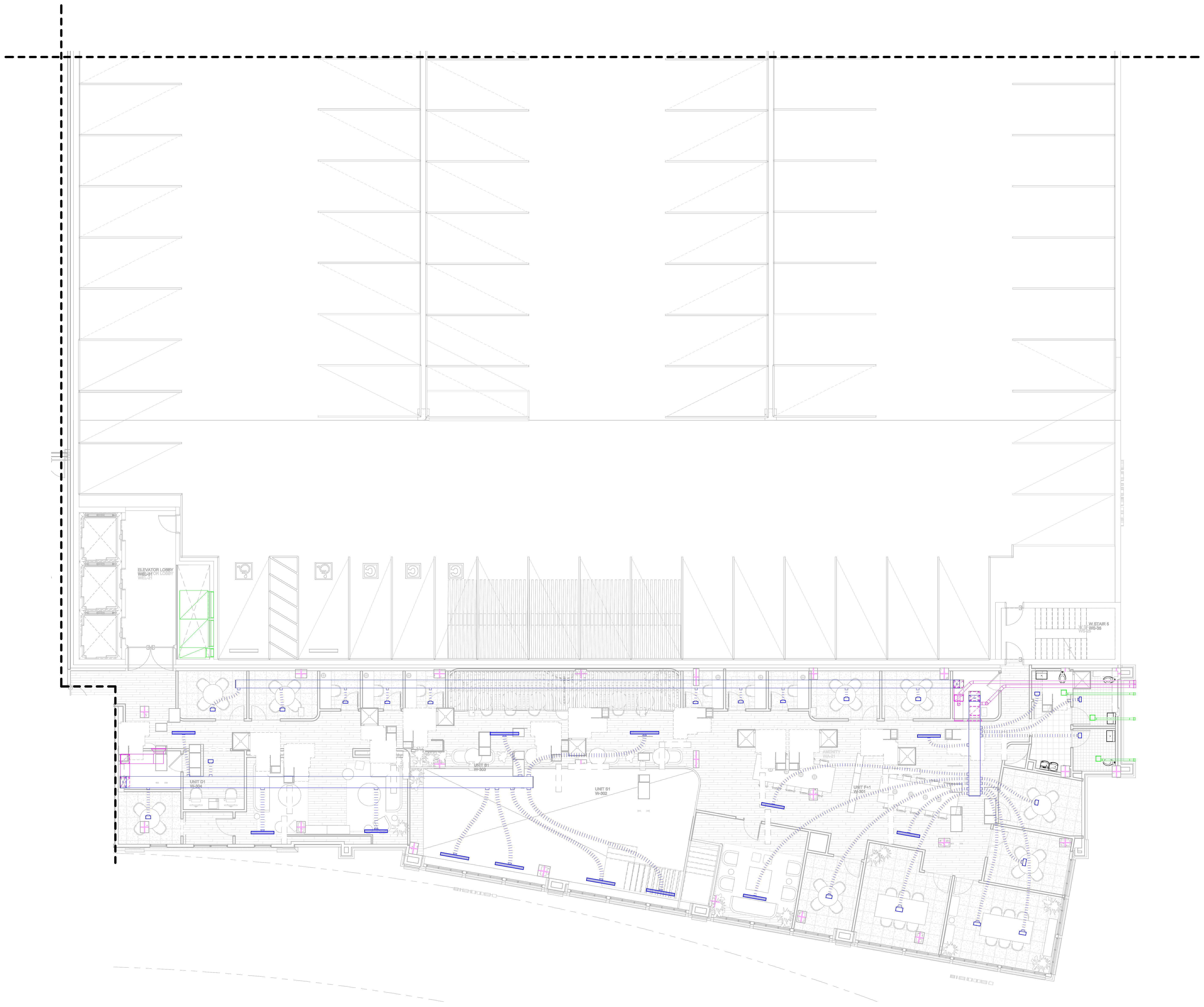
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 02 - AREA B

SHEET NUMBER:
M4.221

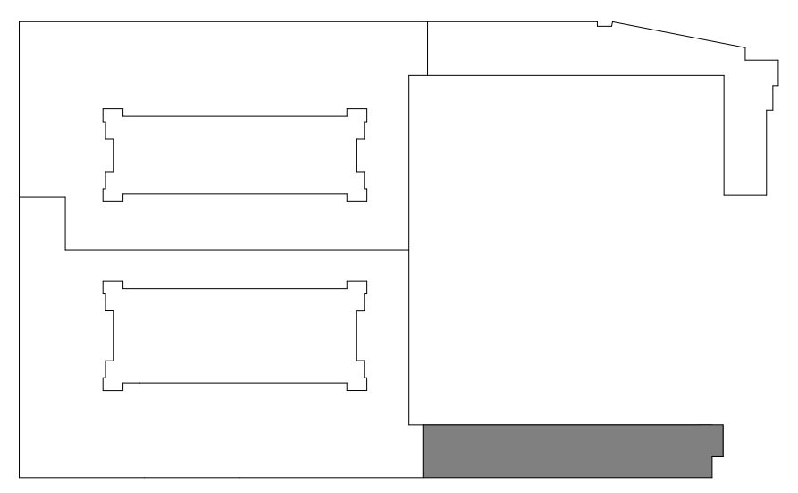
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:07:22 PM


ELEVATOR LOBBY
WEL-31
UNIT D1
W-304
UNIT B1
W-303
UNIT S1
W-302
AMENITY
WA-21
UNIT F+1
W-301

① LEVEL 02 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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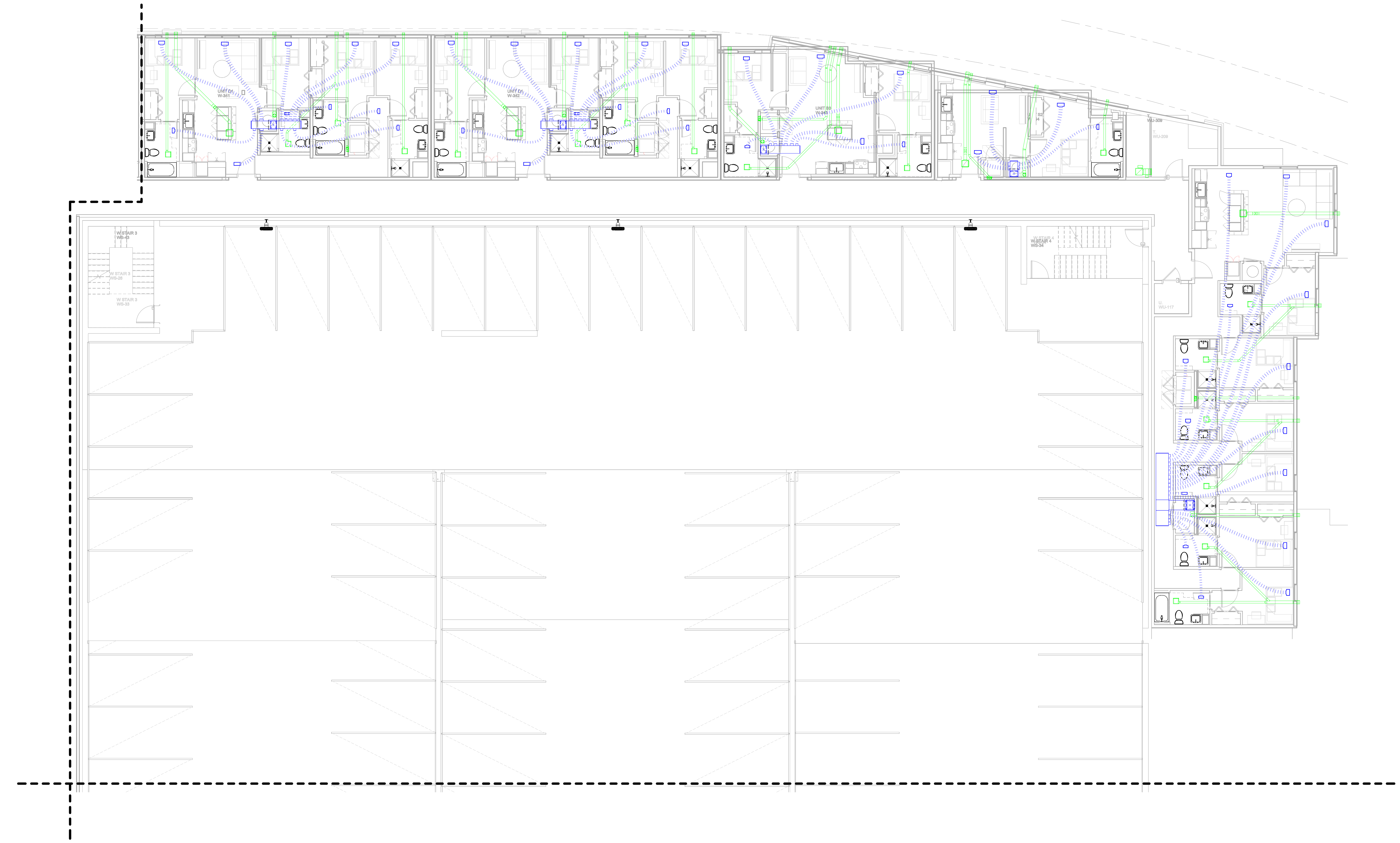
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 02 - AREA C

SHEET NUMBER:
M4.222

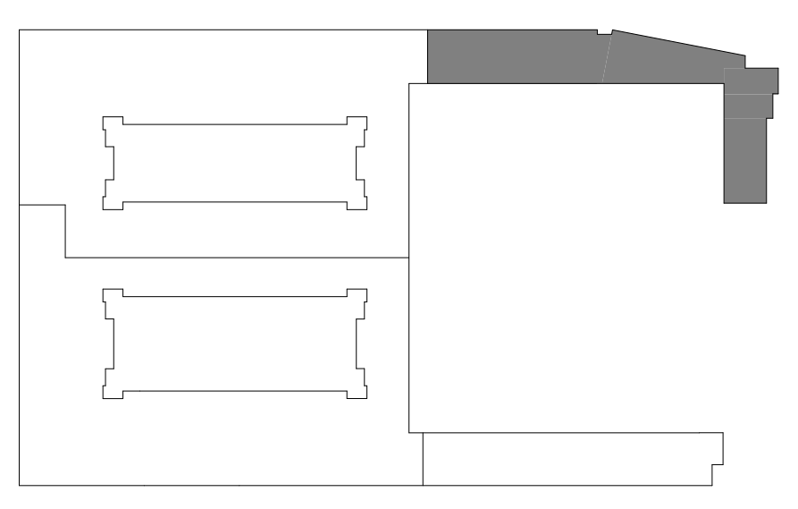
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:07:24 PM


UNIT D1
W-341
UNIT D1
W-342
UNIT B3
W-343
T.
WU-309
T.
WU-209
U.
WU-117
W STAIR 3
WS-43
W STAIR 3
WS-26
W STAIR 3
WS-33
W STAIR 4
WS-24
W STAIR 4
WS-34

① LEVEL 02 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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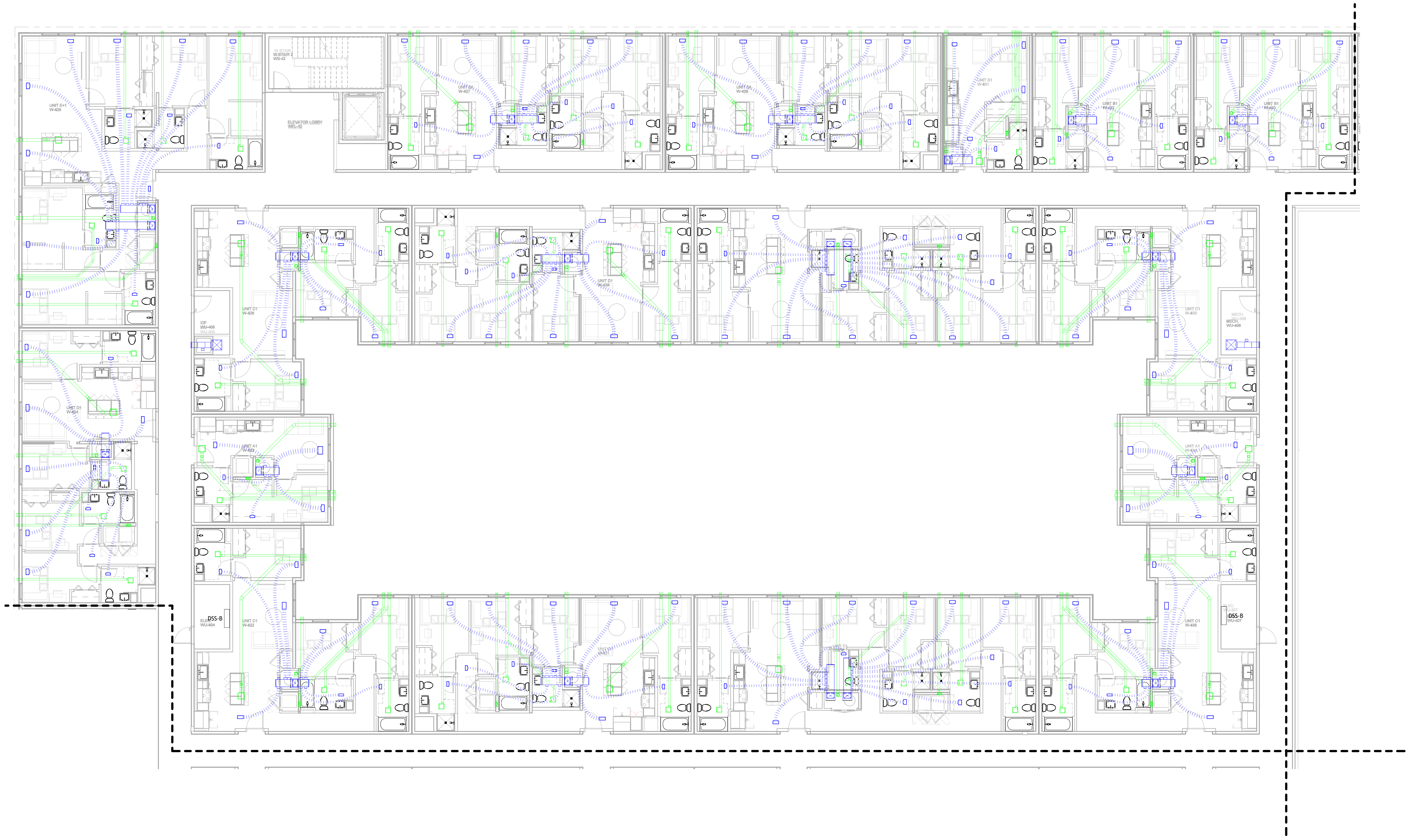
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 02 - AREA D

SHEET NUMBER:
M4.223

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:07:30 PM


UNIT E+1
W-425
W STAIR
W STAIR 2
WS-42
ELEVATOR LOBBY
WEL-42
IDF
WU-405
WU-305
UNIT C1
W-426
ELEC.
WU-404
DSS-B
UNIT C1
W-422
DSS-B

① LEVEL 03 WEST BUILDING - NW
1/8" = 1'-0"

9/30/2026 2:07:45 PM

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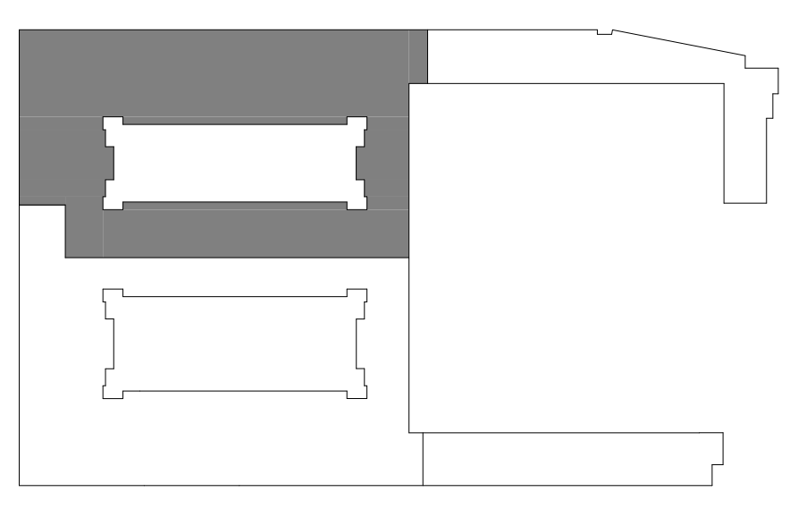
KEY PLAN

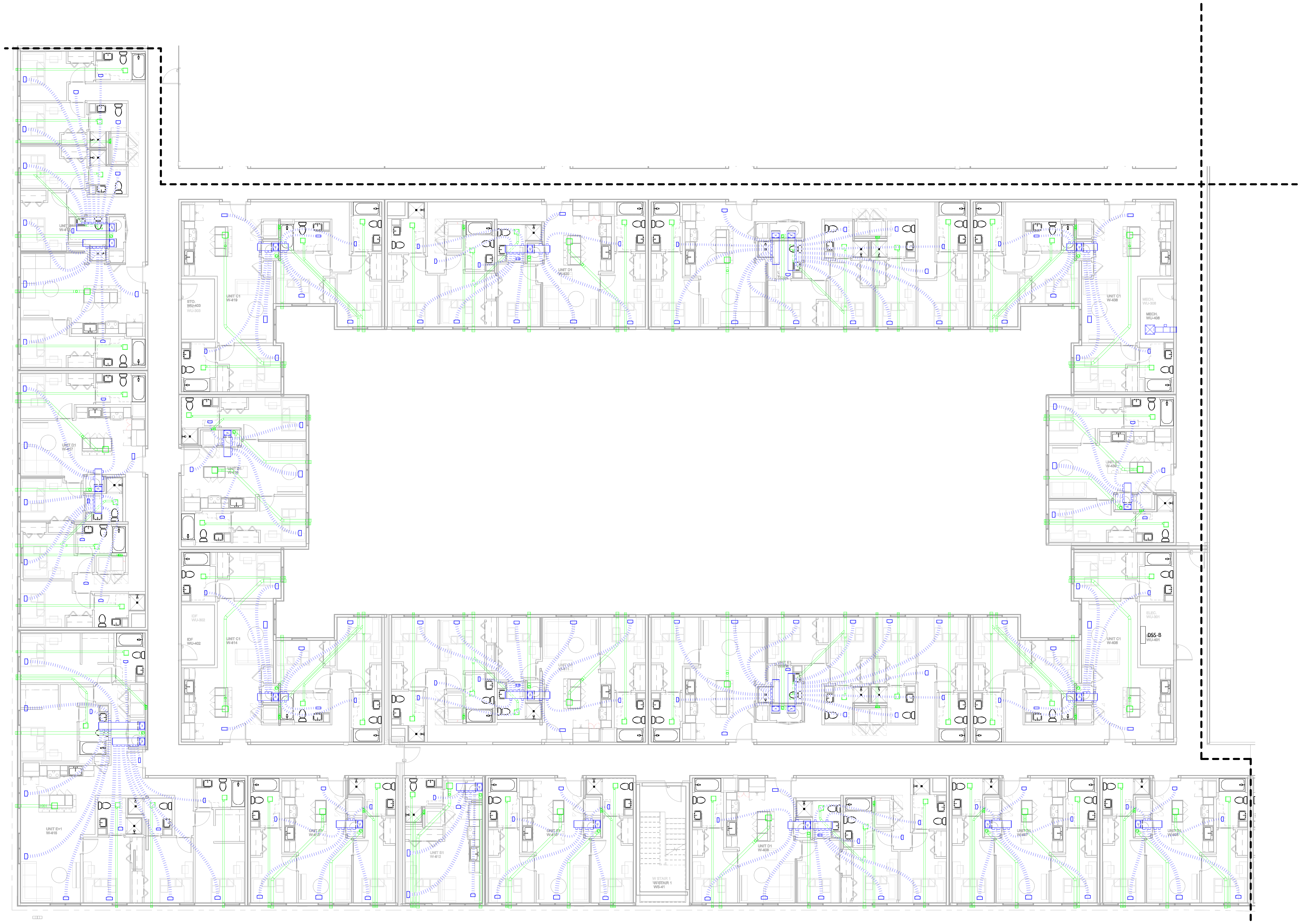


DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 03 - AREA A

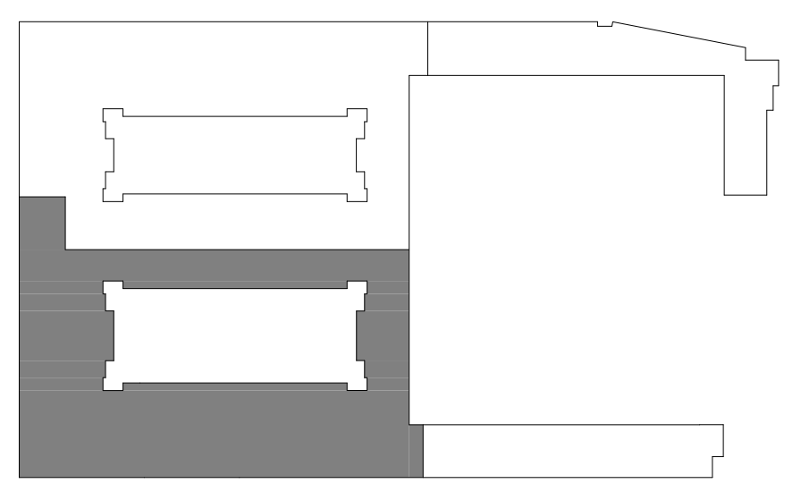
SHEET NUMBER:
M4.230

NOT RELEASED FOR CONSTRUCTION



1 LEVEL 03 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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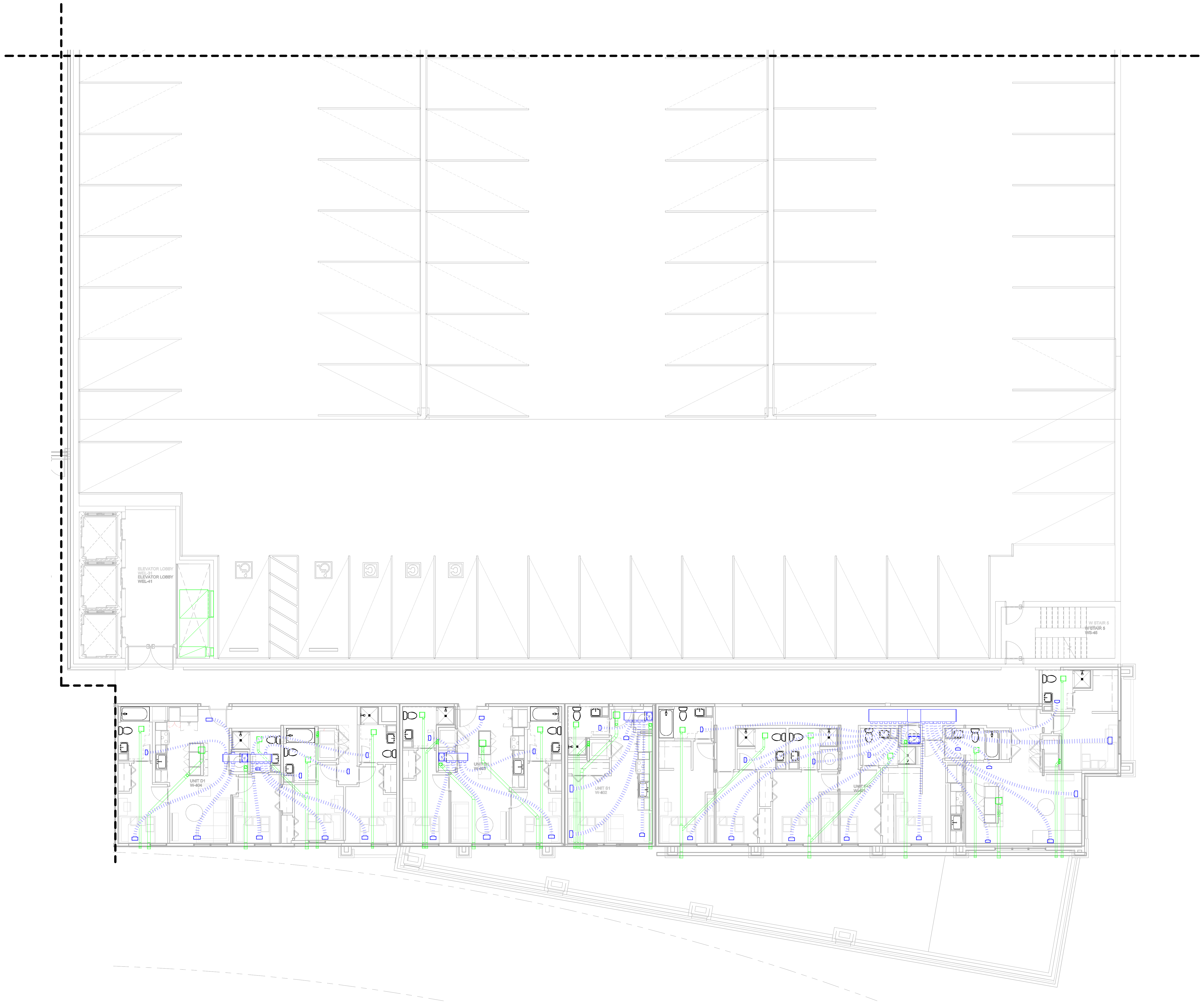
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 03 - AREA B

SHEET NUMBER:
M4.231

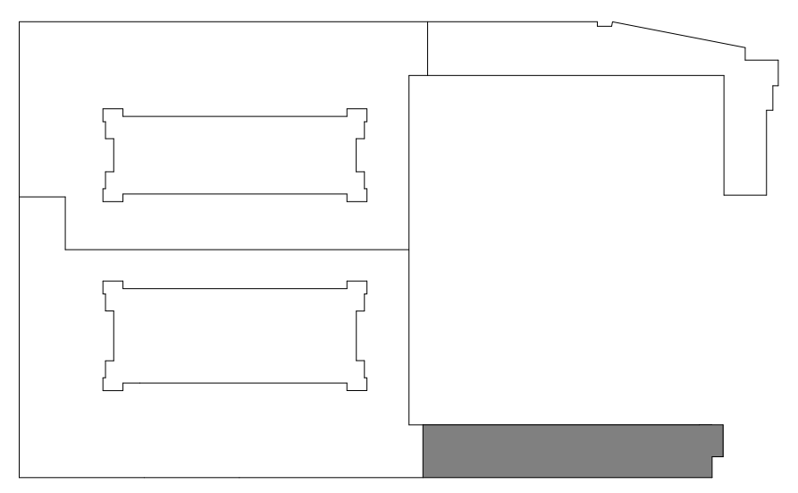
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:03 PM


ELEVATOR LOBBY
WEL-31
ELEVATOR LOBBY
WEL-41
W STAIR 5
WS-35
W STAIR 5
WS-45
UNIT D1
W-404
UNIT S1
W-402
UNIT B1
W-403
UNIT F1
W-401

① LEVEL 03 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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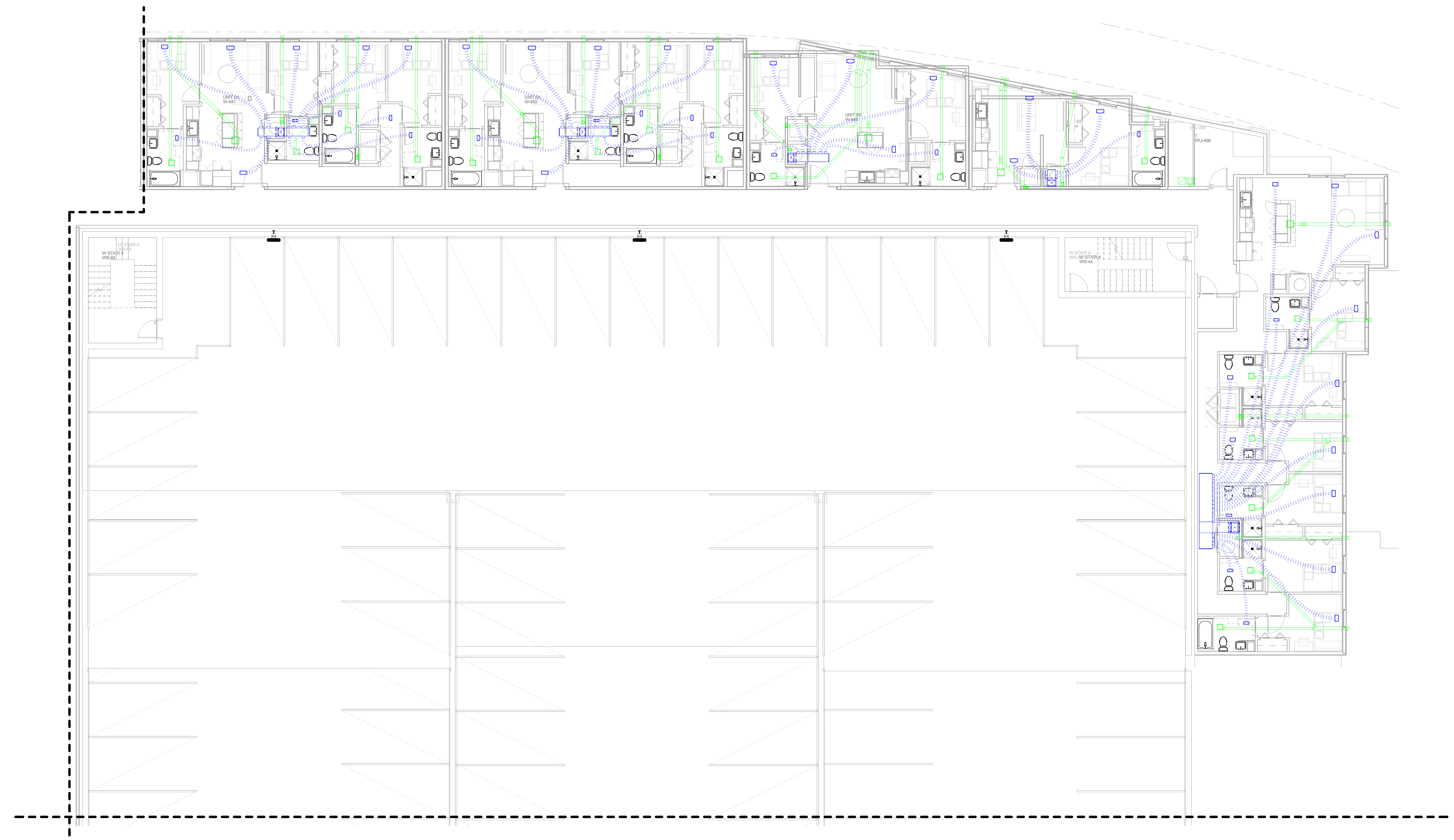
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 03 - AREA C

SHEET NUMBER:
M4.232

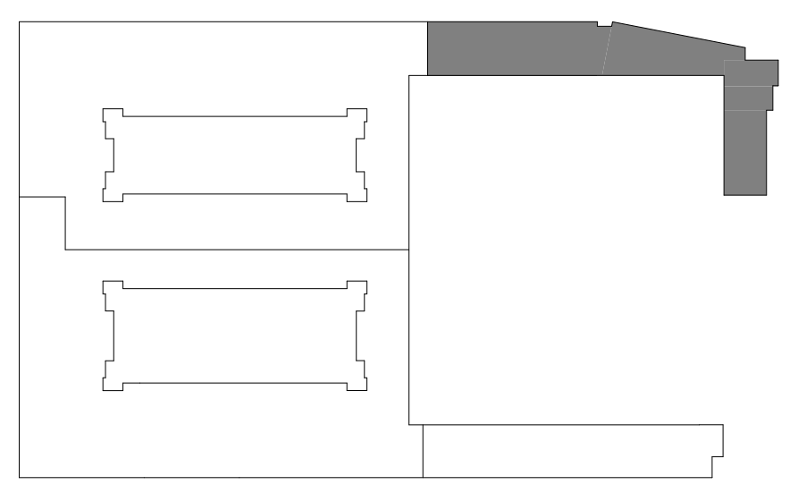
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:07 PM


W STAIR 3
WS-43
W STAIR 3
WS-53
UNIT D1
W-441
UNIT D1
W-442
UNIT B3
W-443
W STAIR 4
WS-34
W STAIR 4
WS-44
WU-309
T.
WU-409

① LEVEL 03 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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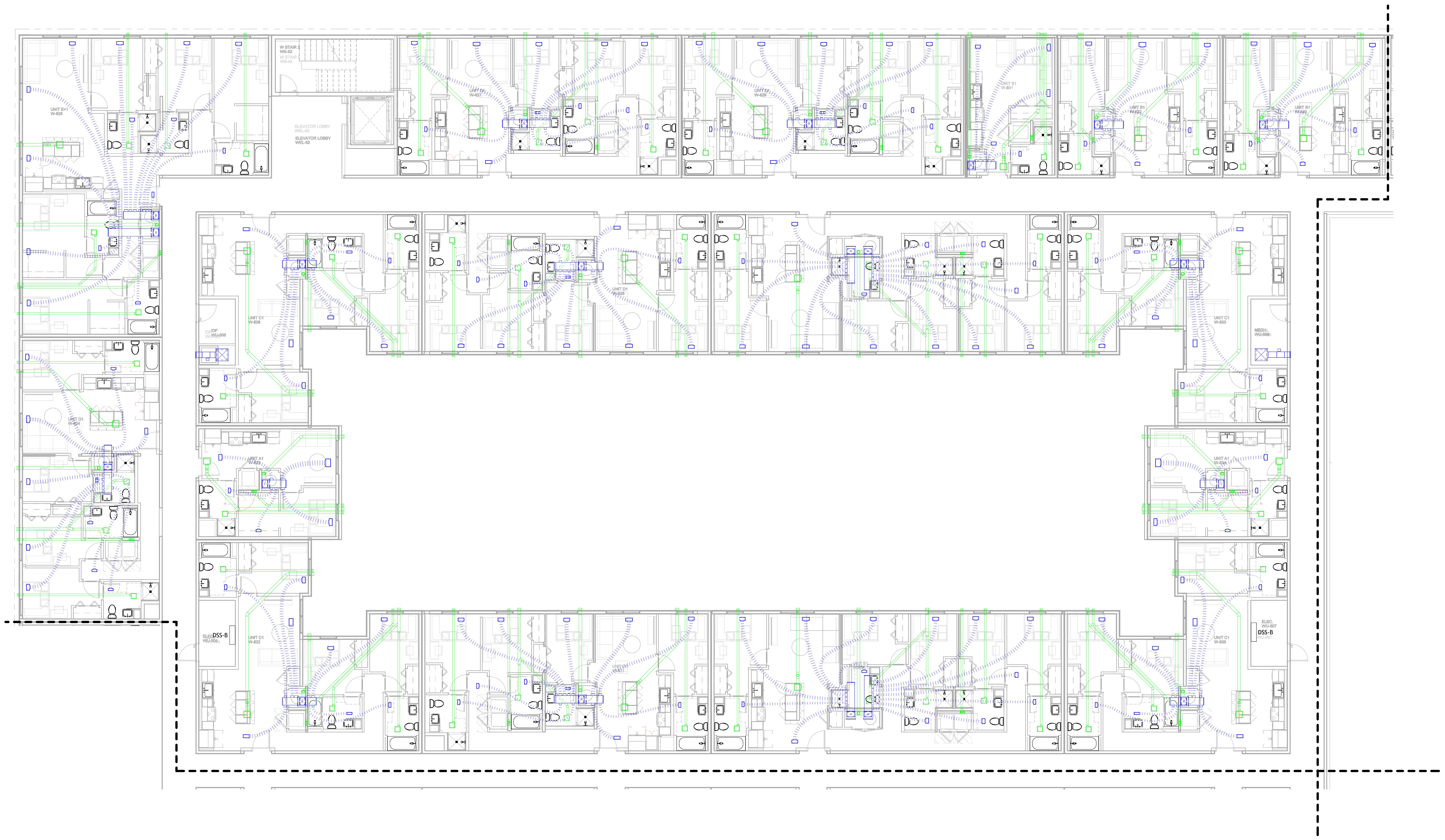
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 03 - AREA D

SHEET NUMBER:
M4.233

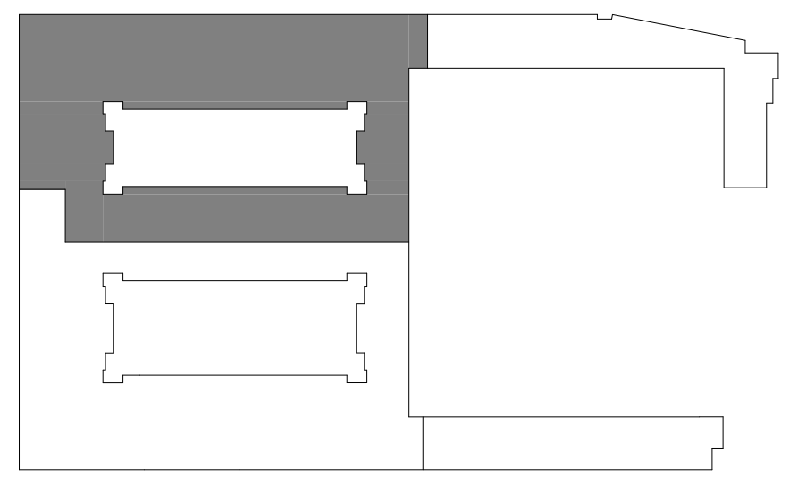
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:12 PM


UNIT E+1
W-525
W STAIR 2
WS-52
W STAIR 2
WS-42
ELEVATOR LOBBY
WEL-42
ELEVATOR LOBBY
WEL-52
UNIT C1
W-526
IDF
WU-505
IDF
WU-405
DSS-B
ELEC.
WU-507
ELEC.
WU-407
UNIT C1
W-535
DSS-B

① LEVEL 04 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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No.	Description	Date

Rambler Baton Rouge

4076 Gourrier Avenue
Baton Rouge, LA 70808

LV COLLECTIVE

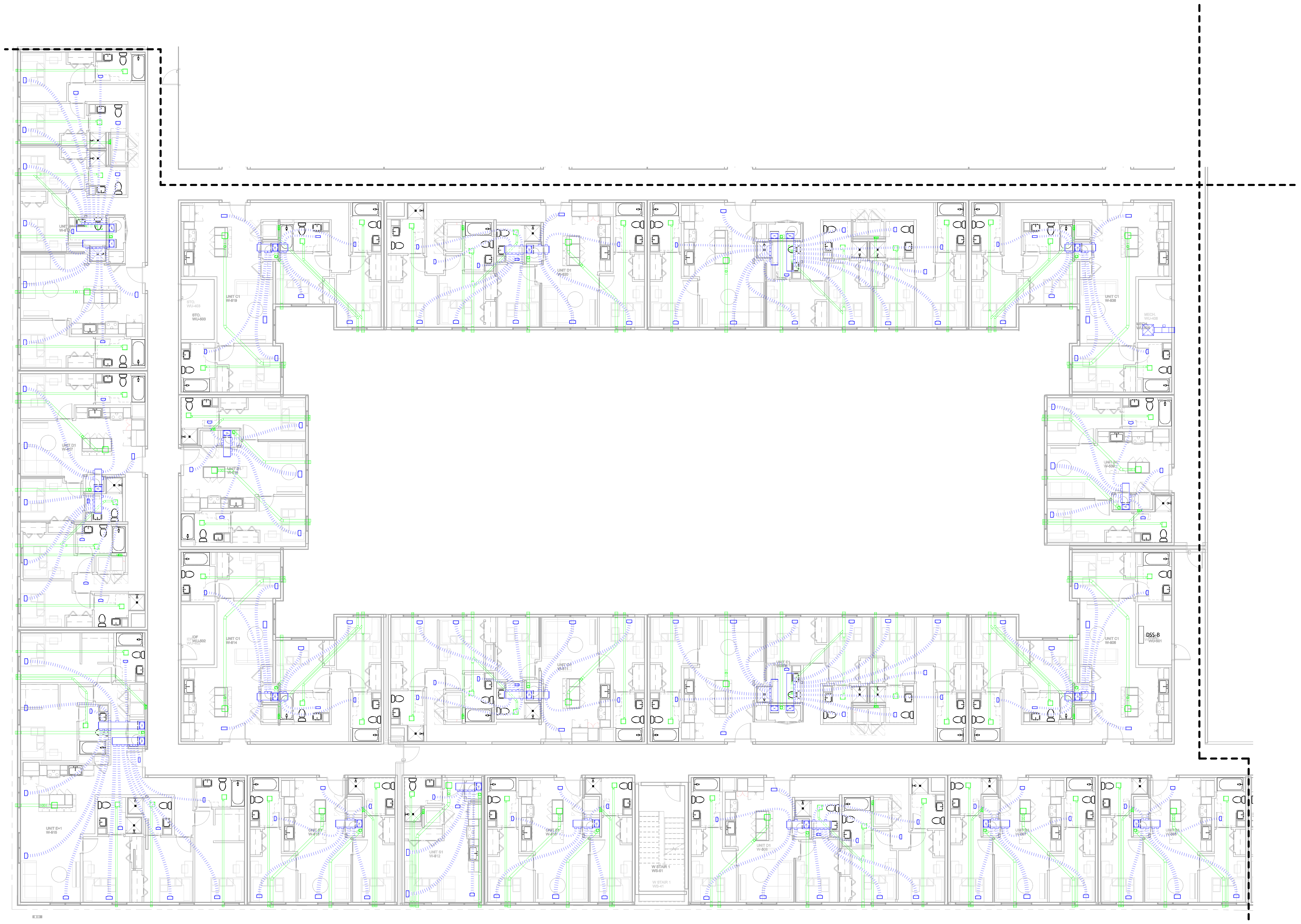
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 04 - AREA A

SHEET NUMBER:
M4.240

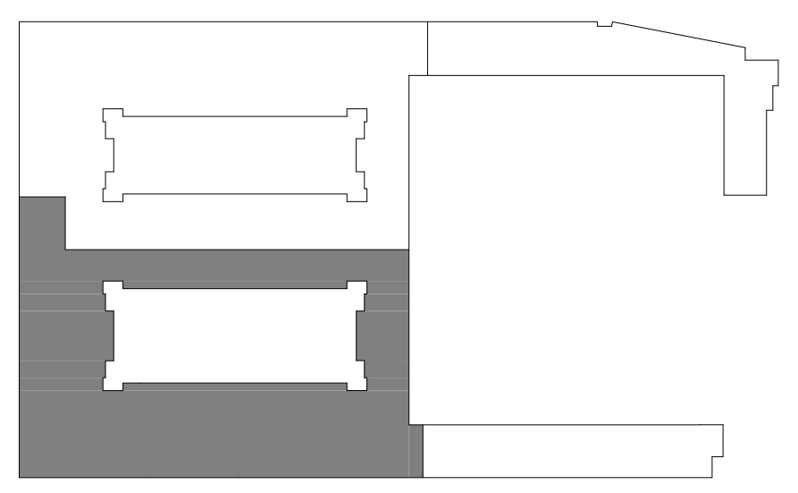
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:28 PM



1 LEVEL 04 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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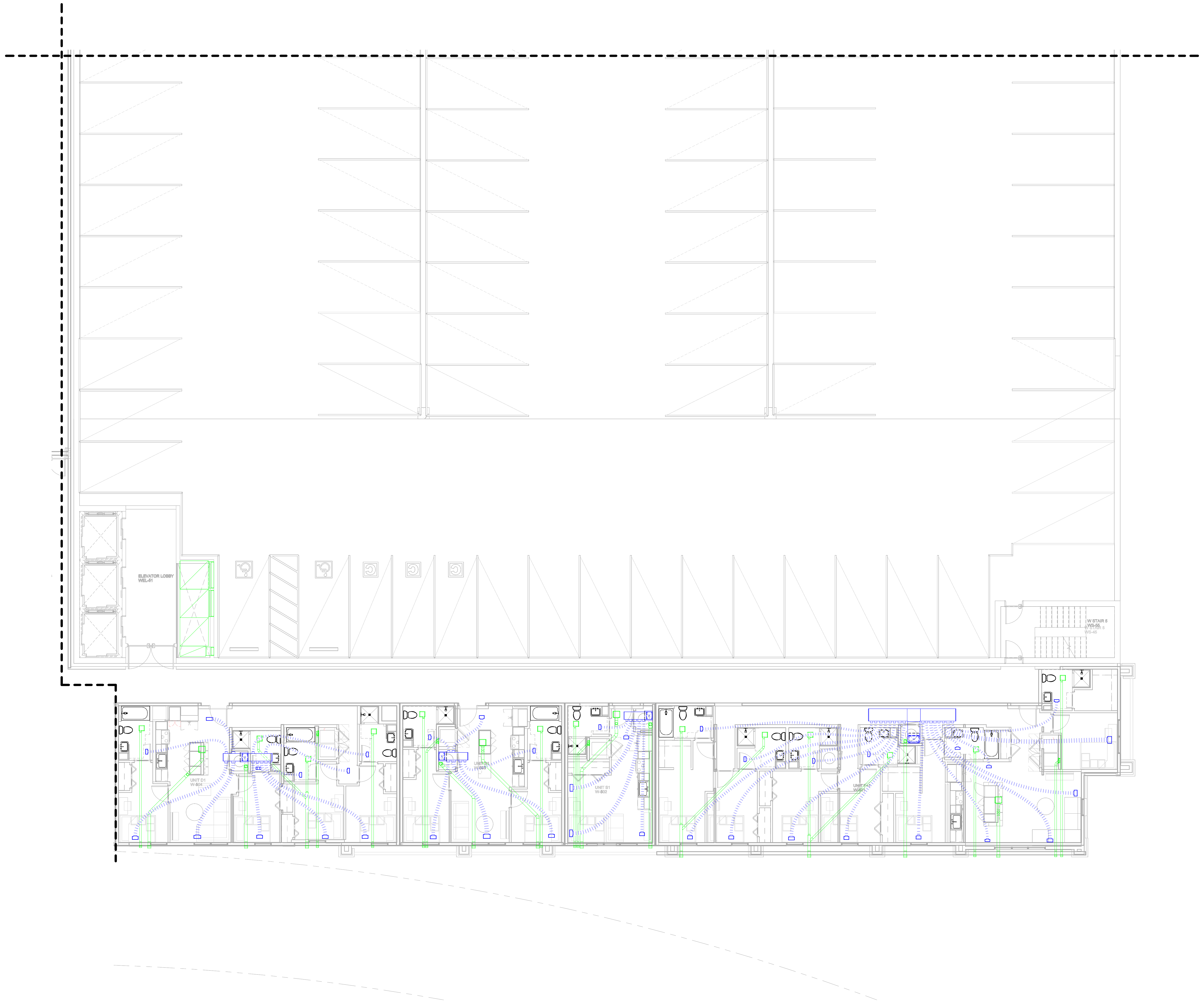
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 04 - AREA B

SHEET NUMBER:
M4.241

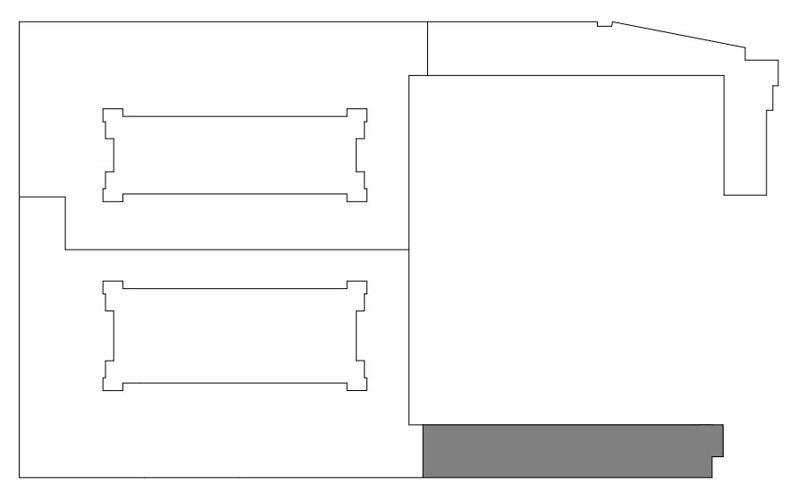
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:46 PM


ELEVATOR LOBBY
WEL-51
W STAIR 5
WS-55
W STAIR 5
WS-45

1 LEVEL 04 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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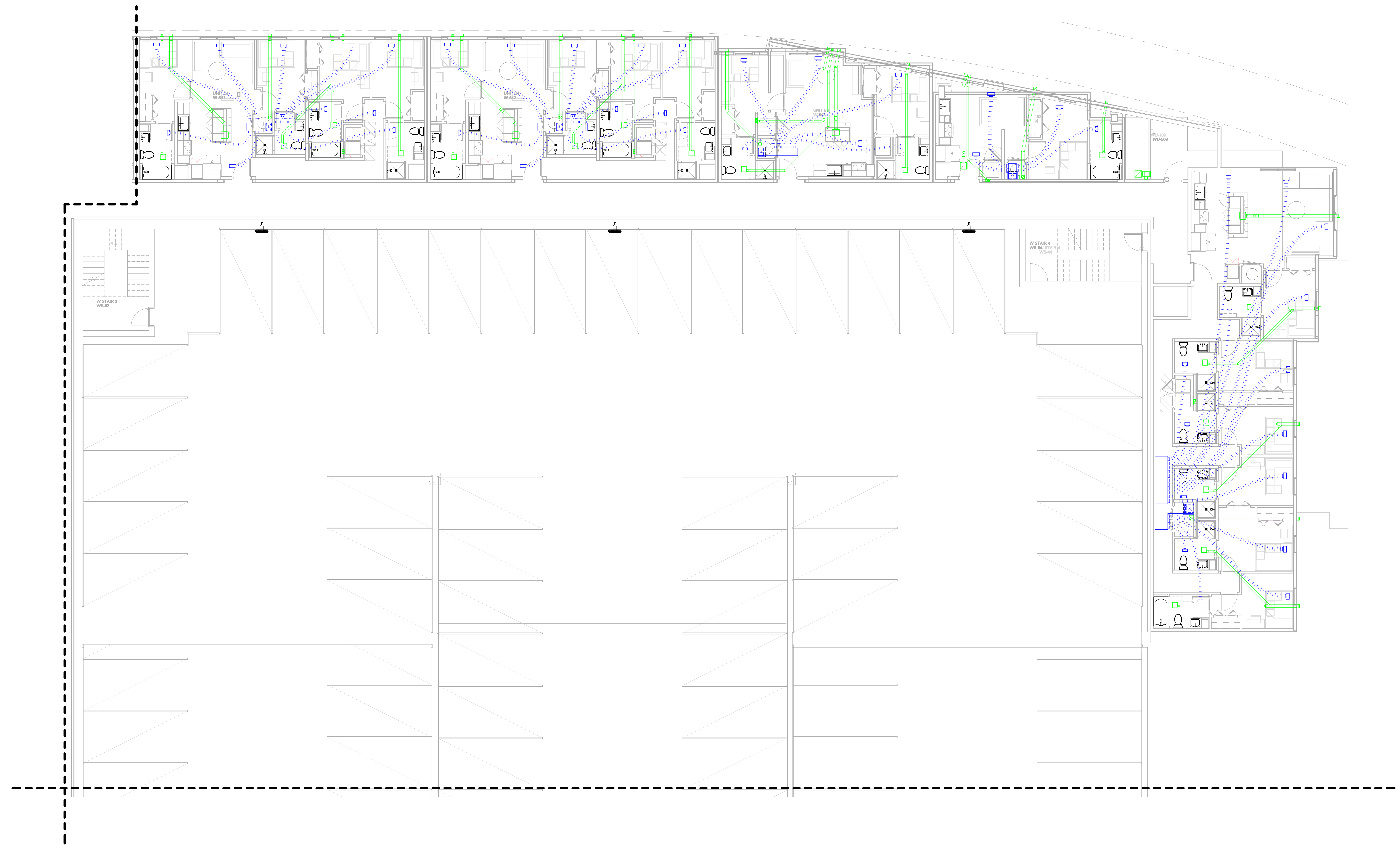
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 04 - AREA C

SHEET NUMBER:
M4.242

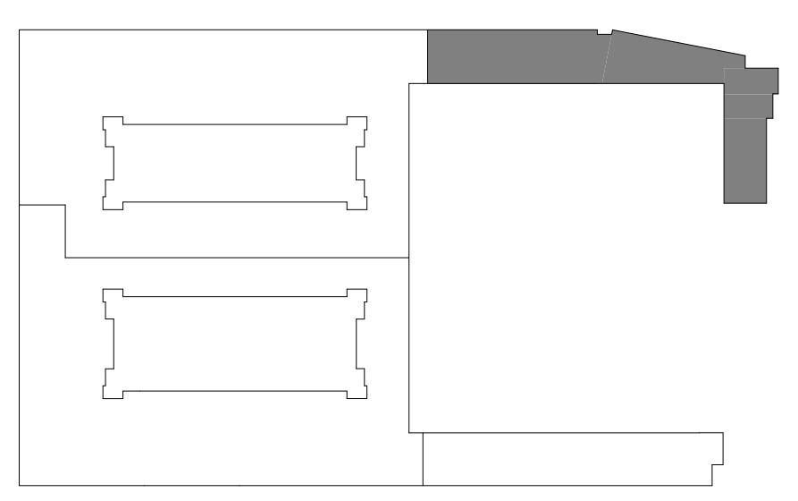
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:50 PM



① LEVEL 04 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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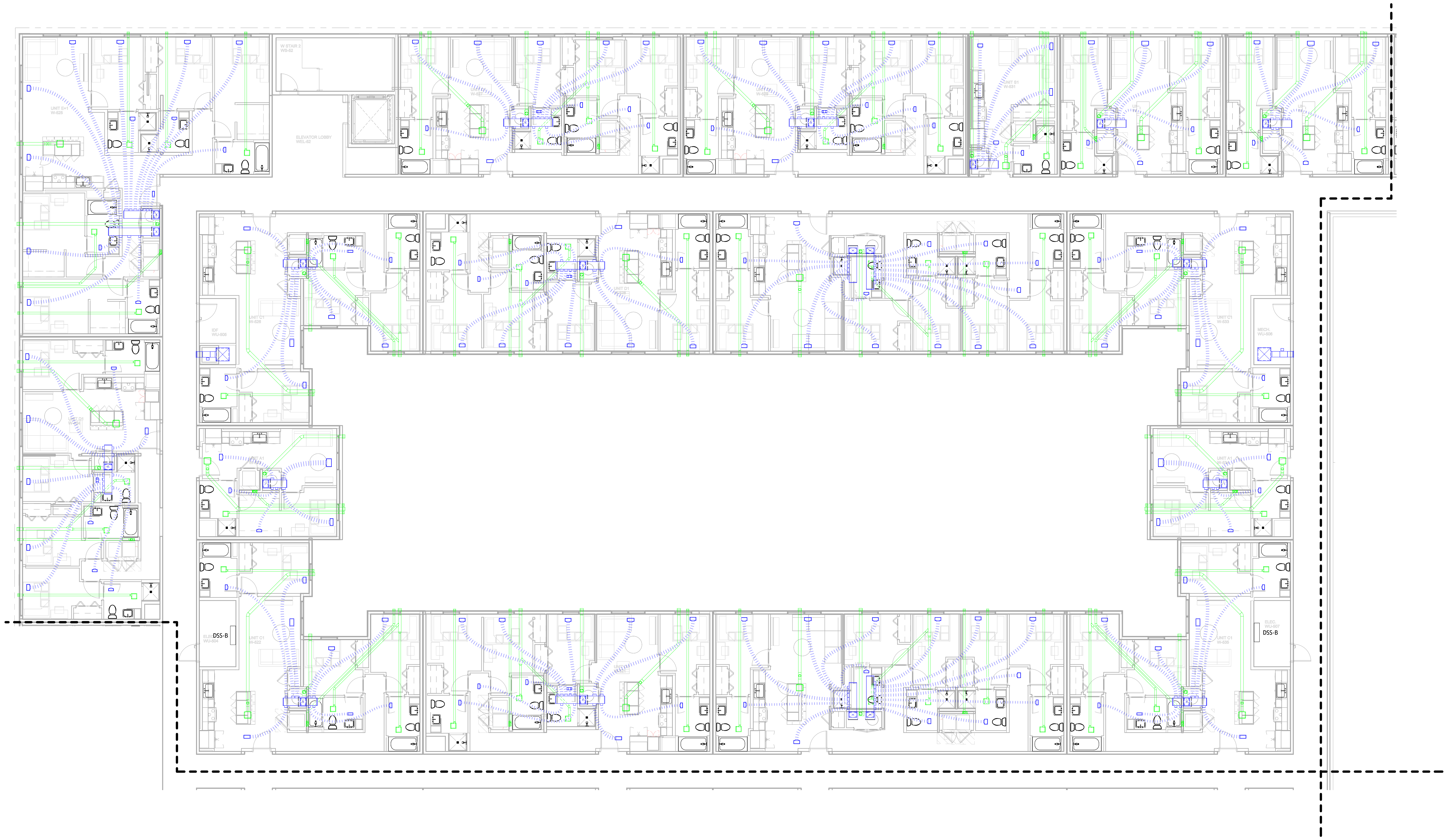
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 04 - AREA D

SHEET NUMBER:
M4.243

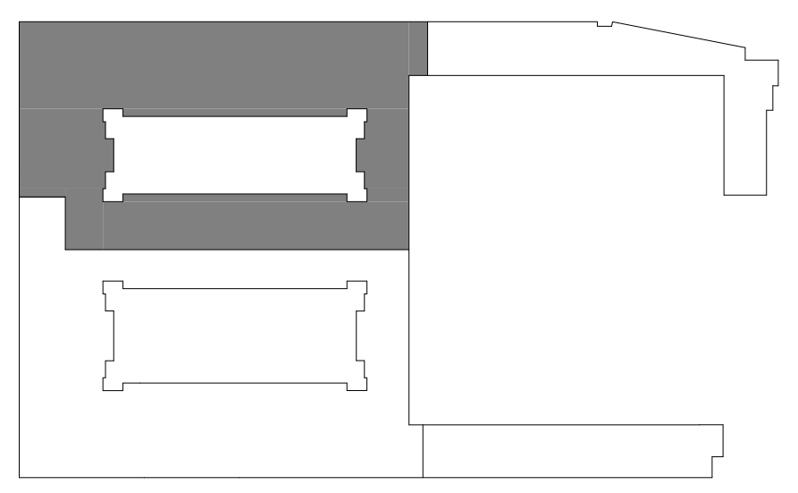
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:08:56 PM


W STAIR 2
WS-52
ELEVATOR LOBBY
WEL-52
ELEC
WU-504
DSS-B
UNIT C1
W-522
DSS-B

1 LEVEL 05 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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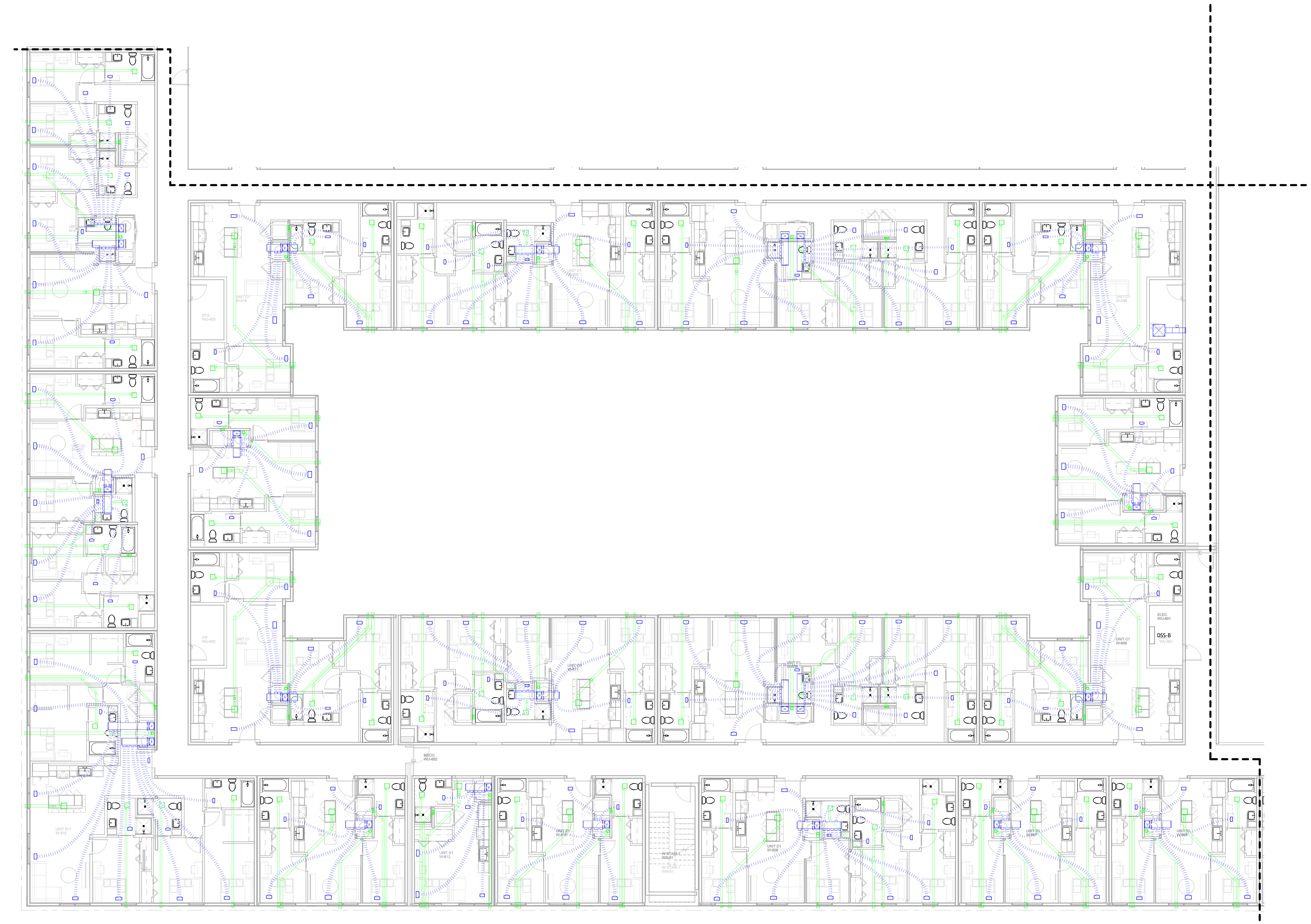
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 05 - AREA A

SHEET NUMBER:
M4.250

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:11 PM



① LEVEL 05 WEST BUILDING - SW
1/8" = 1'-0"

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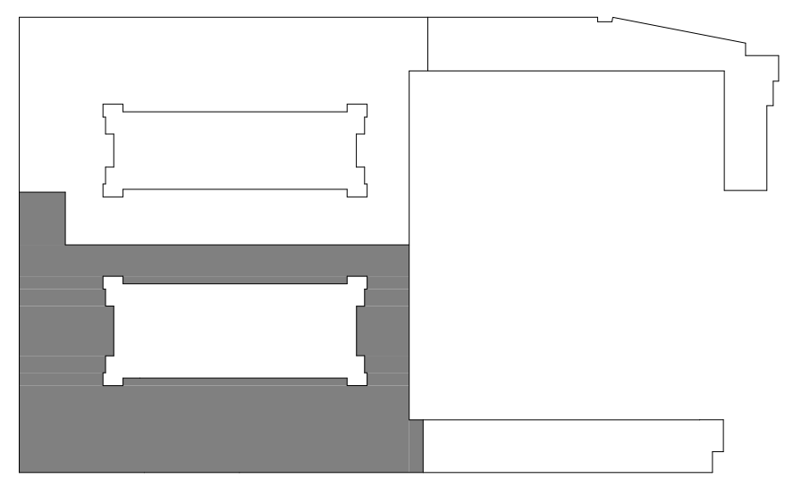
KEY PLAN



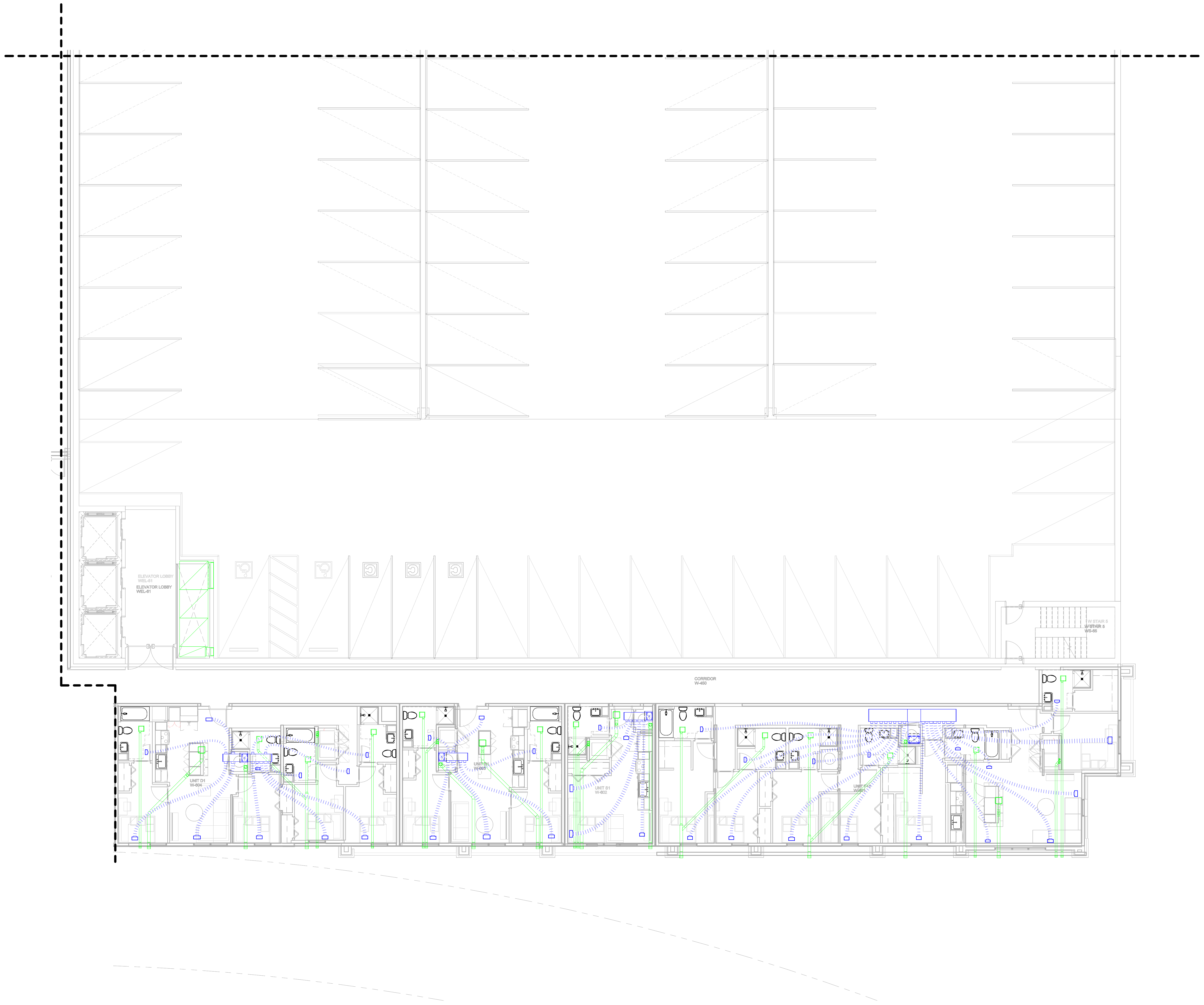
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 05 - AREA B

SHEET NUMBER:
M4.251

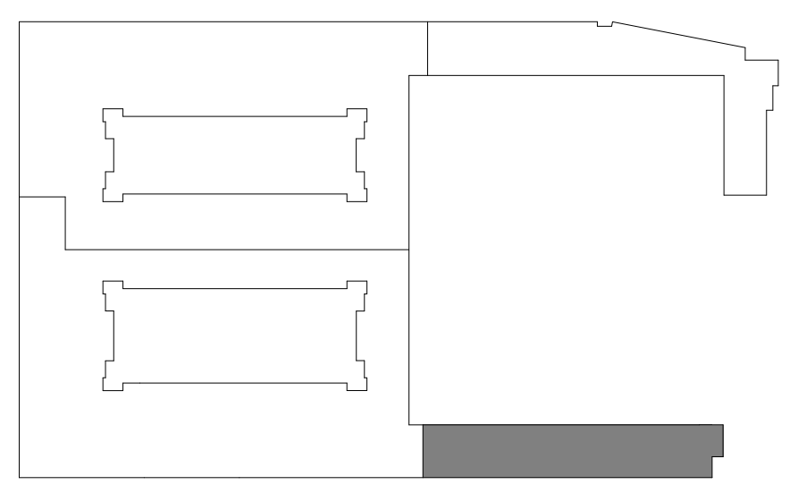
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:30 PM


ELEVATOR LOBBY
WEL-51
ELEVATOR LOBBY
WEL-61
CORRIDOR
W-450
W STAIR 5
W STAIR 5
WS-65
UNIT D1
W-604
UNIT B1
W-603
UNIT S1
W-602
UNIT F1
W-601

① LEVEL 05 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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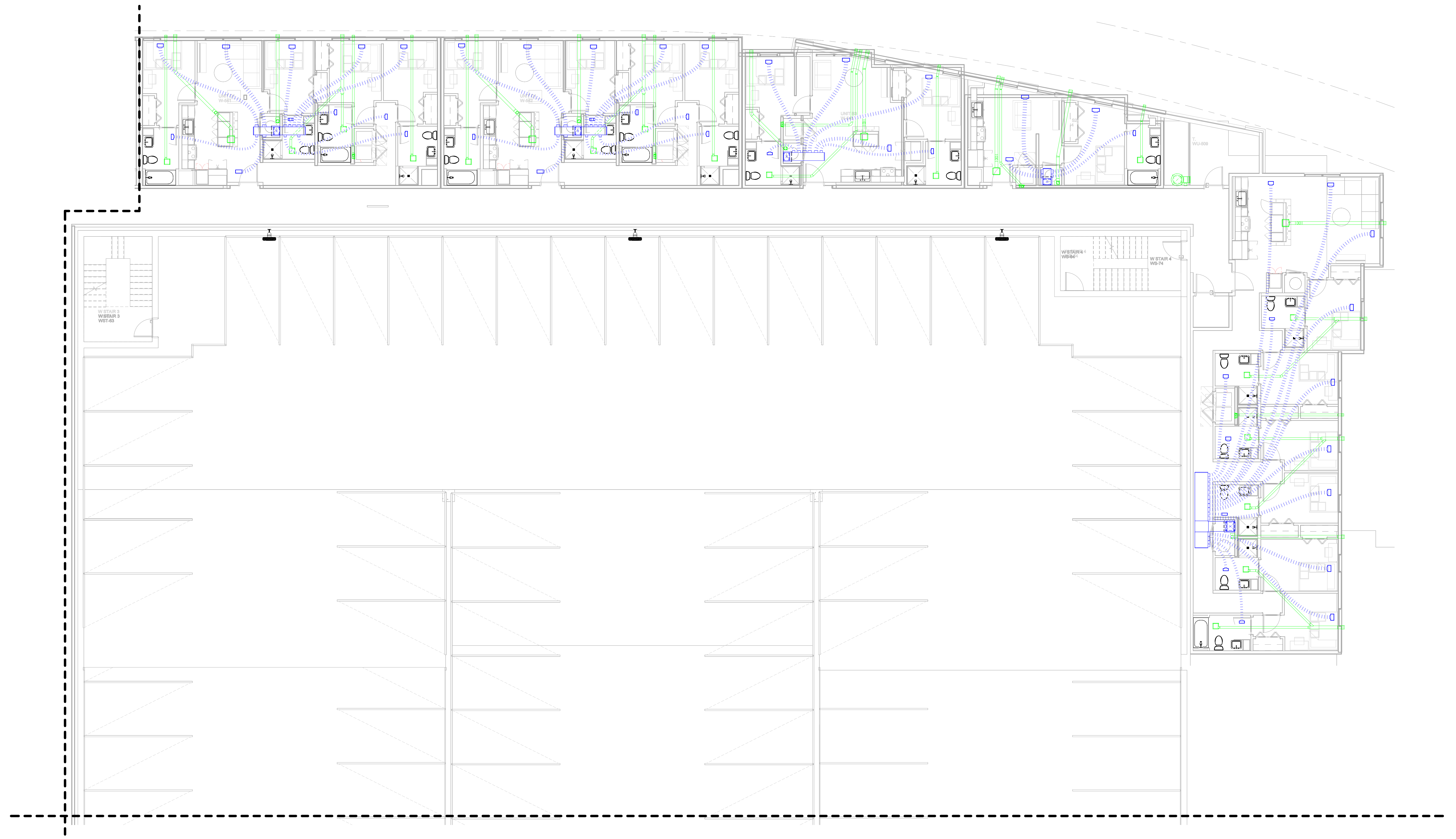
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 05 - AREA C

SHEET NUMBER:
M4.252

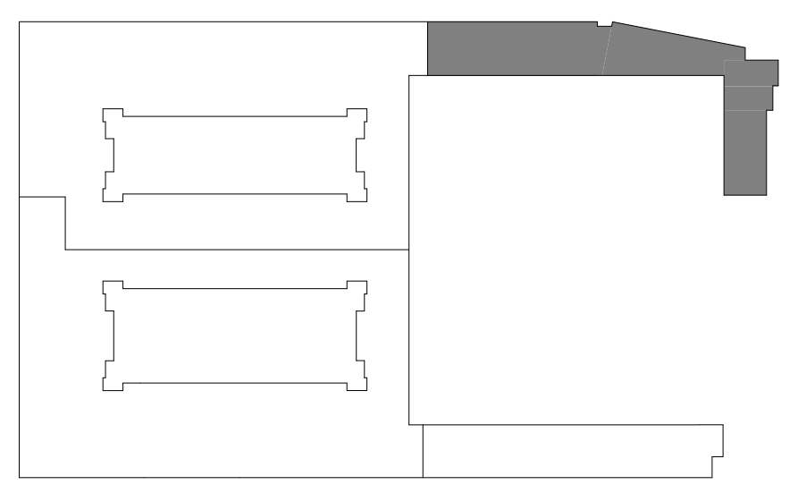
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:35 PM



① LEVEL 05 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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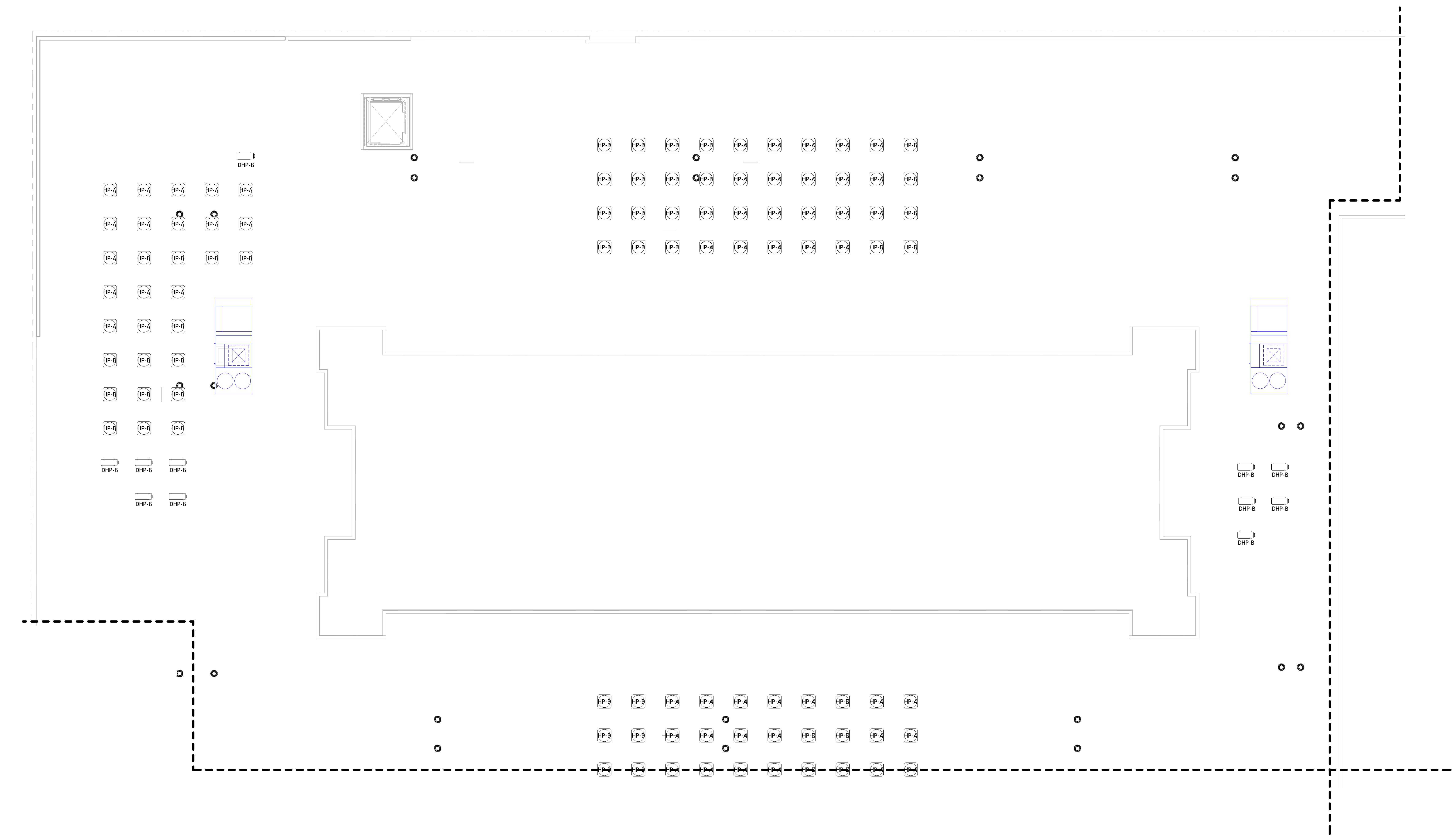
SHEET TITLE:
WEST BUILDING PLAN - LEVEL 05 - AREA D

SHEET NUMBER:
M4.253

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:40 PM


DHP-B
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HP-A
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HP-A
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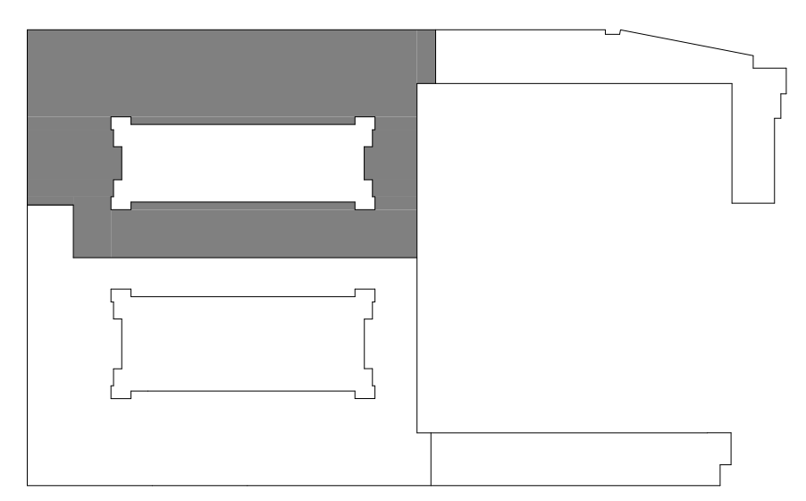
HP-B
HP-B
HP-A
HP-A

① LEVEL 06 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 06 - AREA A

SHEET NUMBER:
M4.260

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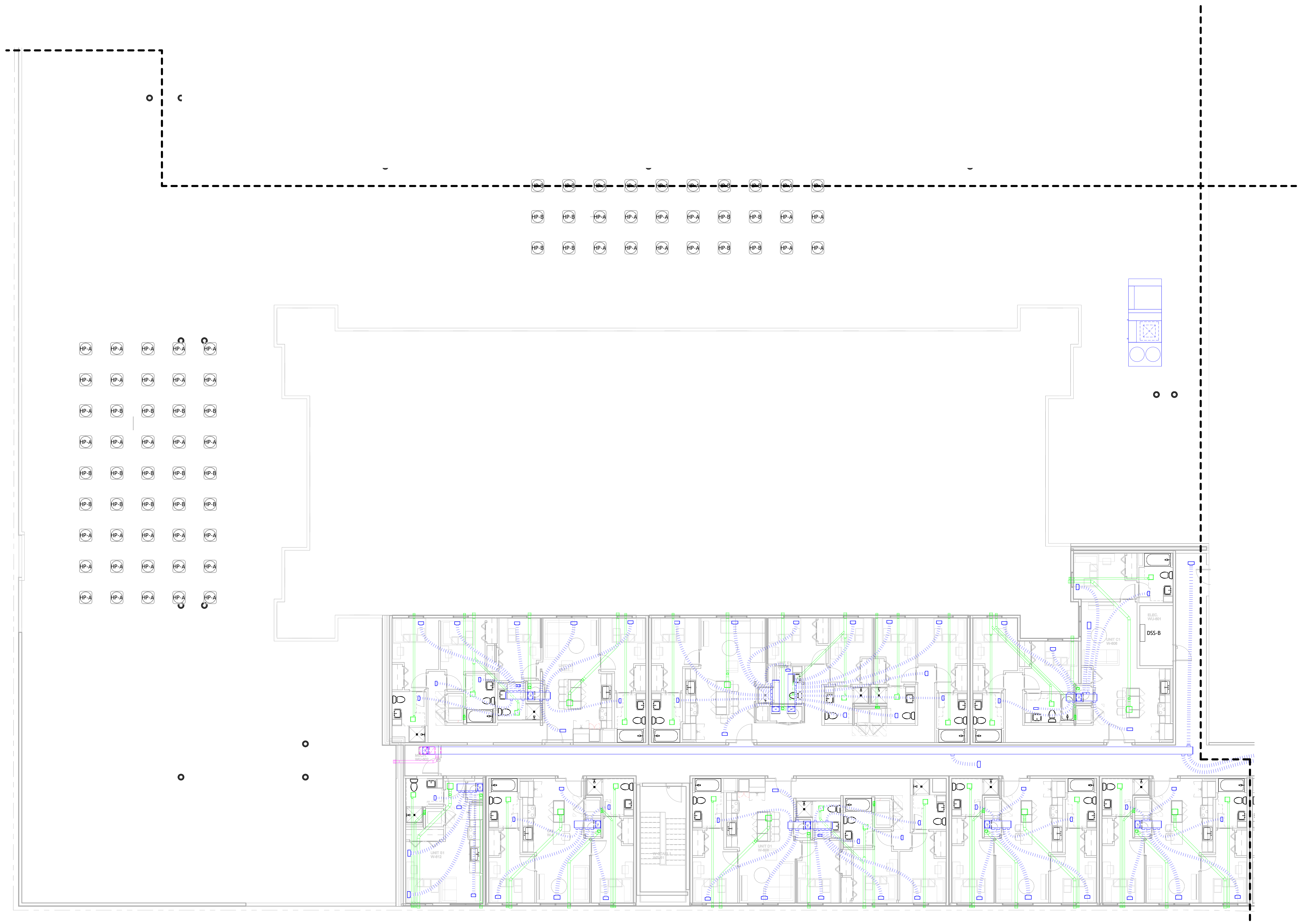
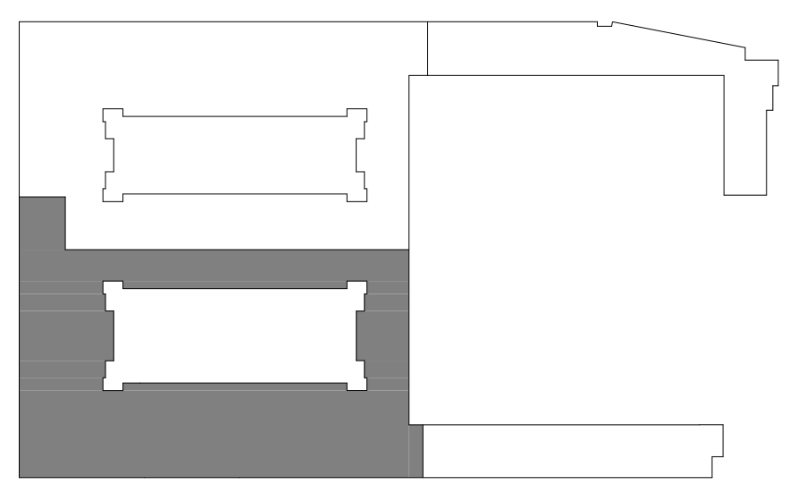
9/30/2026 2:09:43 PM



1 LEVEL 06 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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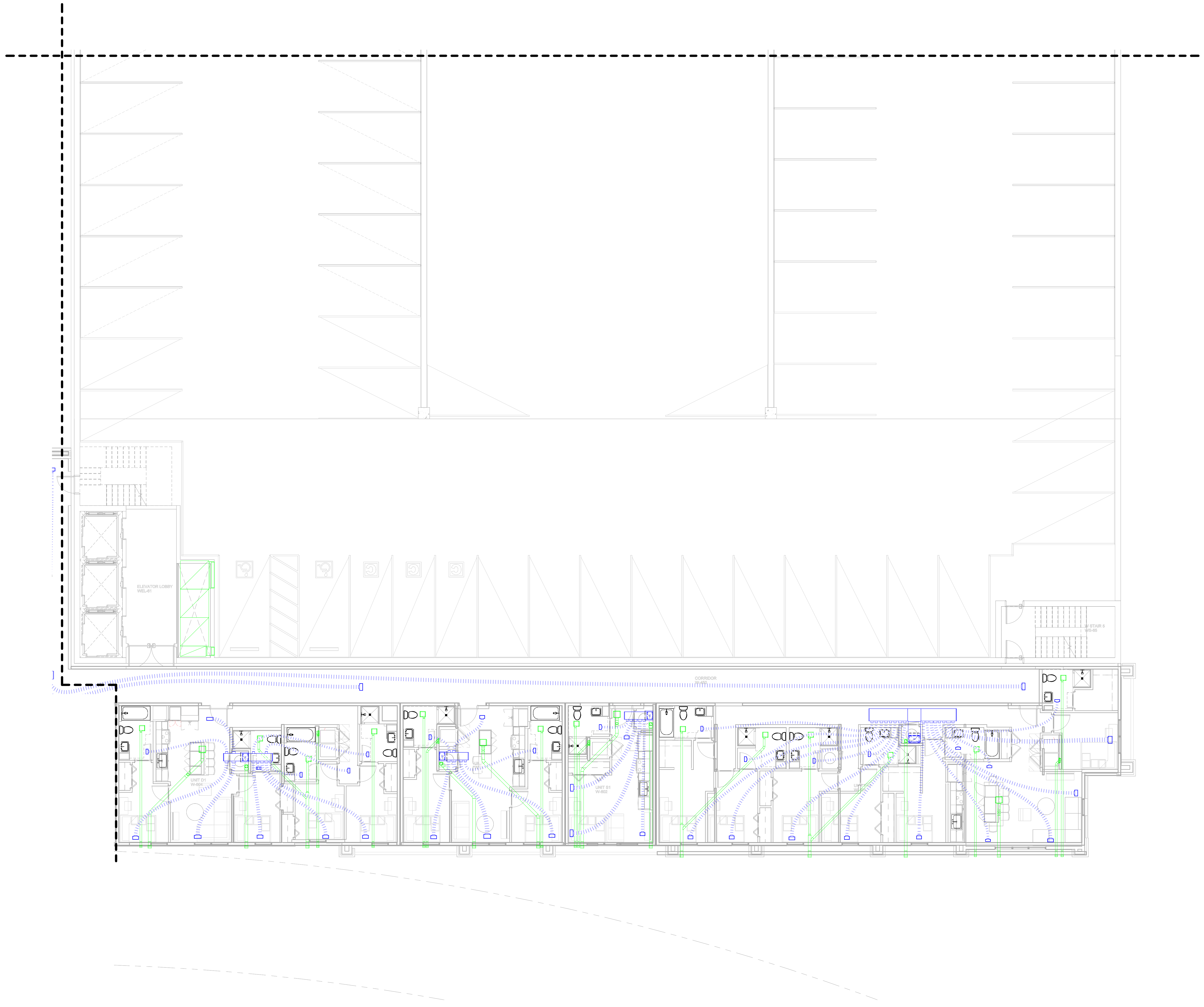
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - LEVEL 06 - AREA B

SHEET NUMBER:
M4.261

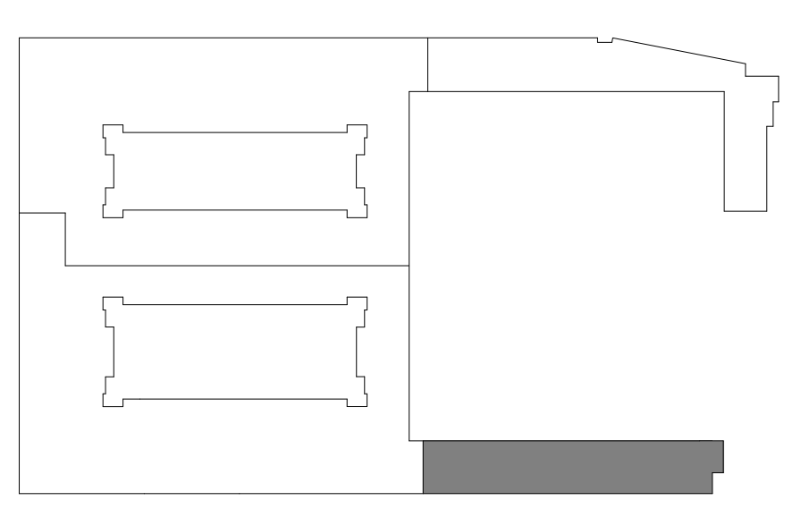
NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:53 PM


ELEVATOR LOBBY
WEL-61
CORRIDOR
W-450
W STAIR 5
WS-65
UNIT D1
W-604
UNIT S1
W-602

① LEVEL 06 WEST BUILDING - SE
1/8" = 1'-0"

KEY PLAN



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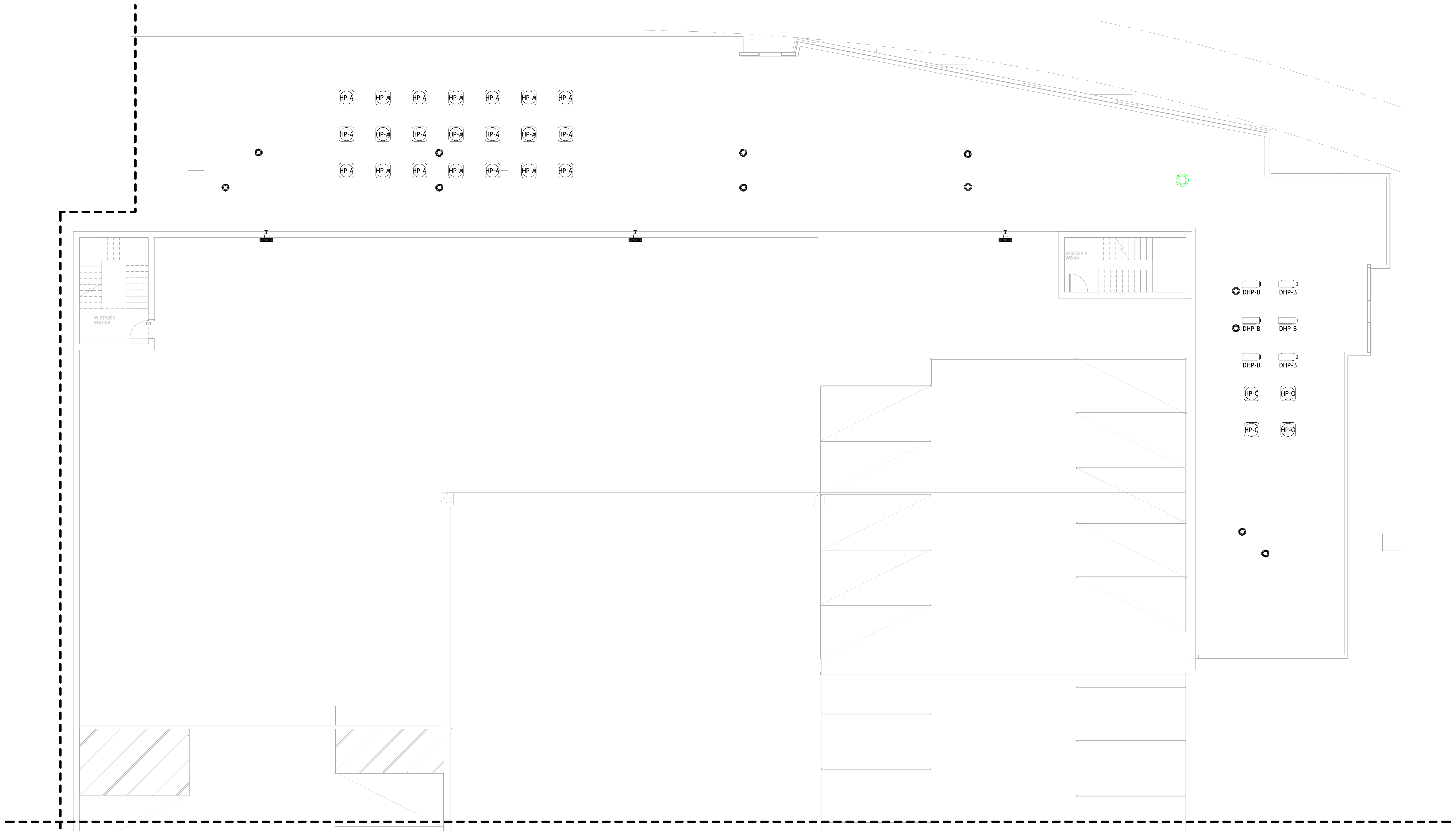
SHEET TITLE:
WEST BUILDING PLAN
- LEVEL 06 - AREA C

SHEET NUMBER:
M4.262

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:09:58 PM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HP-A
HP-A
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HP-A
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HP-A
HP-A
HP-A
W STAIR 3
WST-63
W STAIR 4
WS-64
DHP-B
DHP-B
DHP-B
DHP-B
DHP-B
DHP-B
HP-C
HP-C
HP-C
HP-C

① LEVEL 06 WEST BUILDING - NE
1/8" = 1'-0"

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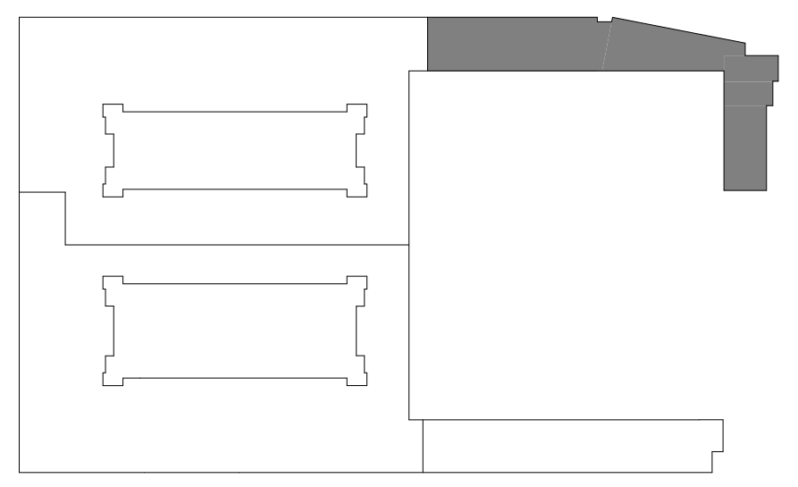
KEY PLAN



SHEET TITLE:
WEST BUILDING PLAN - LEVEL 06 - AREA D

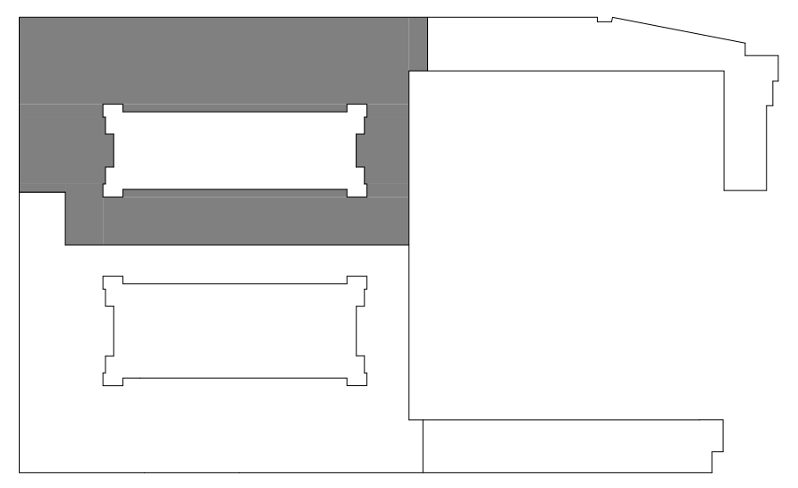
SHEET NUMBER:
M4.263

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:10:00 PM

① LEVEL 07 WEST BUILDING - NW
1/8" = 1'-0"

KEY PLAN



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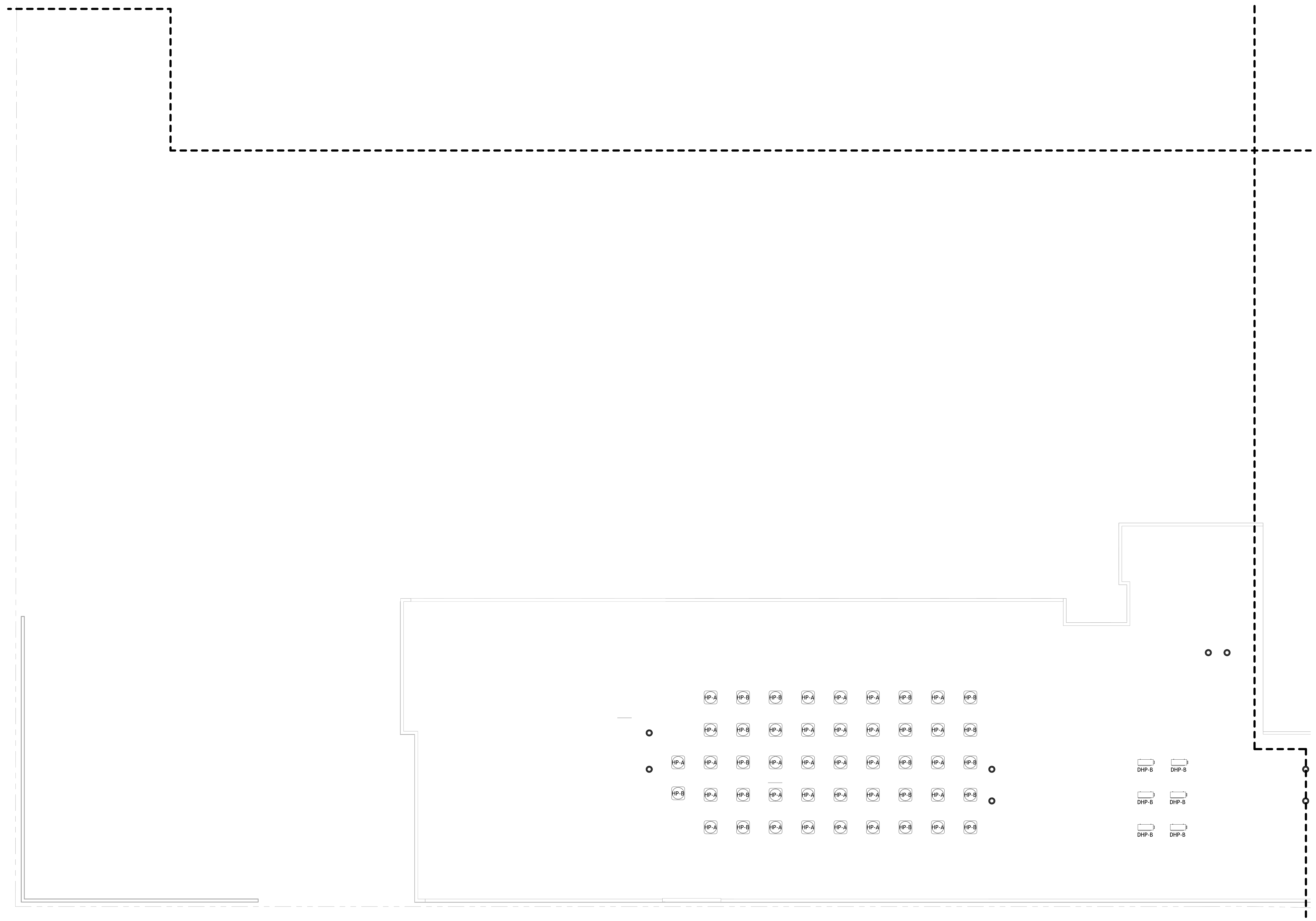
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - ROOF - AREA A

SHEET NUMBER:
M4.270

NOT RELEASED FOR CONSTRUCTION

9/30/2026 2:10:02 PM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DHP-B
DHP-B
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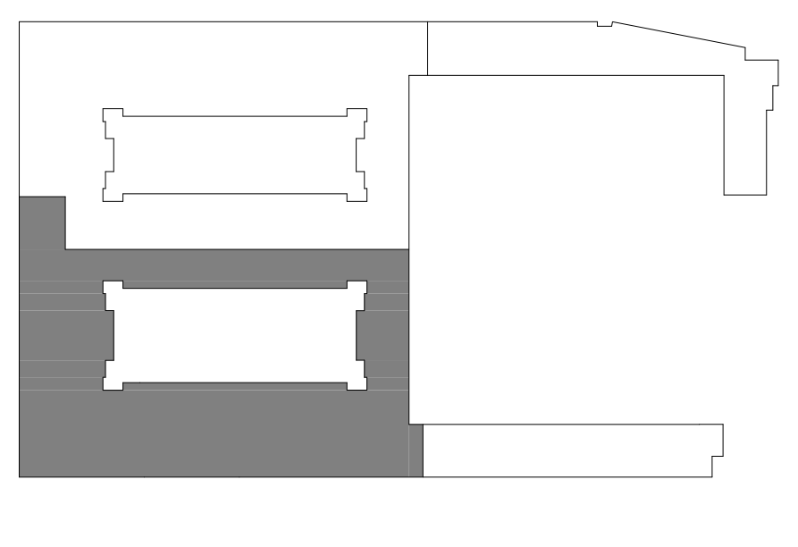
DHP-B
DHP-B
DHP-B

1 LEVEL 07 WEST BUILDING - SW
1/8" = 1'-0"

KEY PLAN



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DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - ROOF - AREA B

SHEET NUMBER:
M4.271

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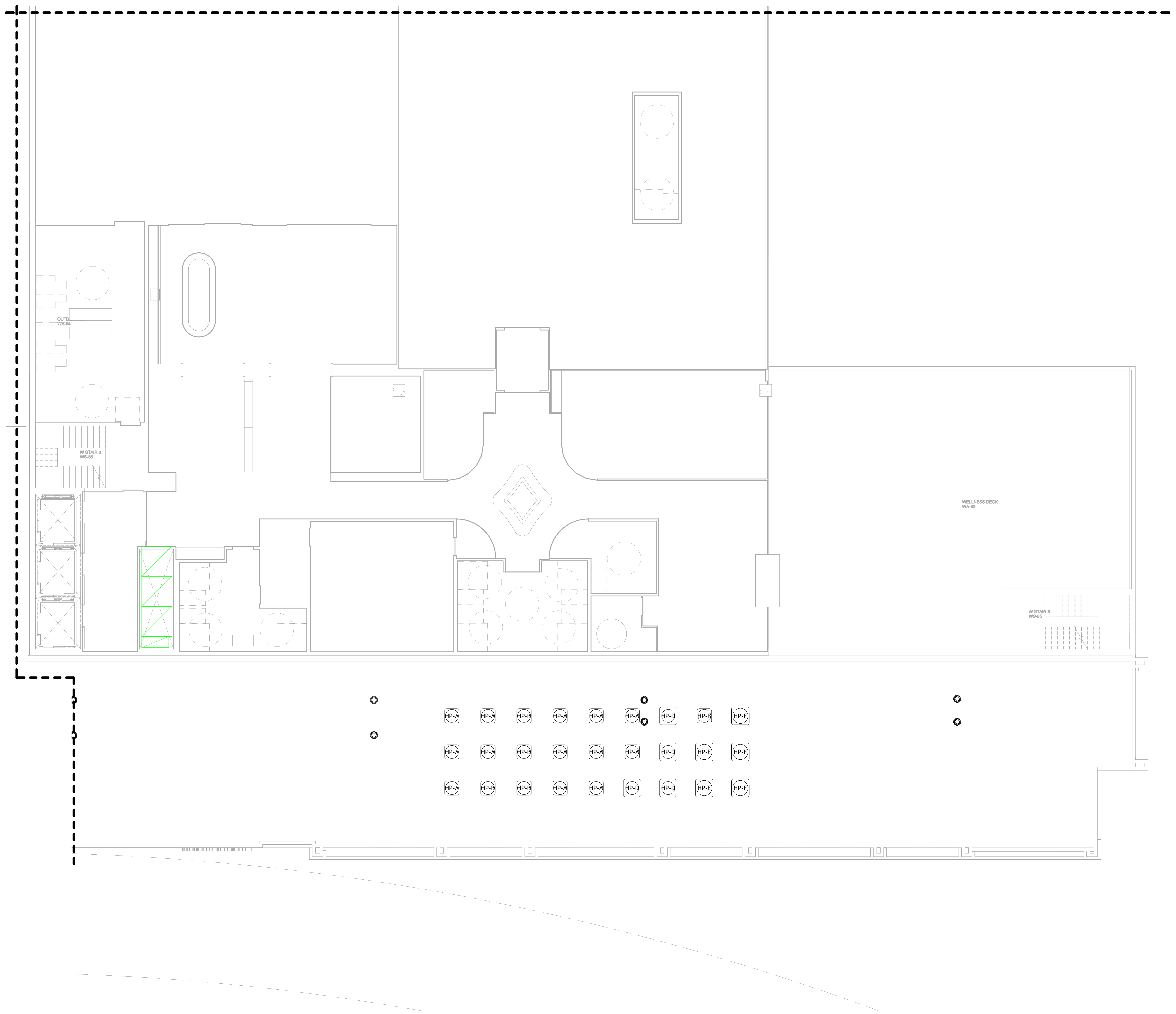
9/30/2026 2:10:05 PM


OUTD
WA-84
W STAIR 6
WS-86
WELLNESS DECK
WA-83
W STAIR 5
WS-85
HP-A
HP-A
HP-B
HP-A
HP-A
HP-A
HP-D
HP-B
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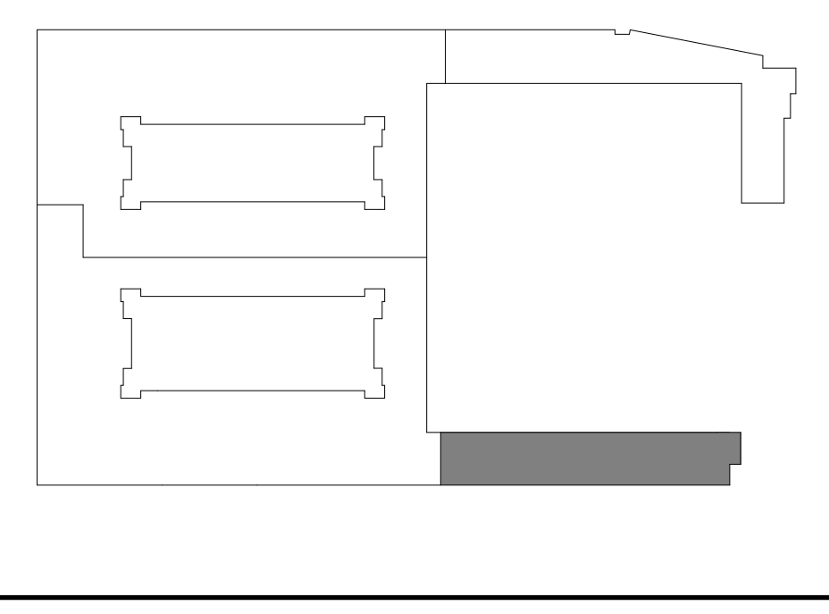
HP-B
HP-A
HP-A
HP-A
HP-D
HP-E
HP-F
HP-A
HP-B
HP-B
HP-A
HP-A
HP-D
HP-D
HP-E
HP-F

① LEVEL 07 WEST BUILDING - SE
1/8" = 1'-0"

9/30/2026 2:10:06 PM

KEY PLAN



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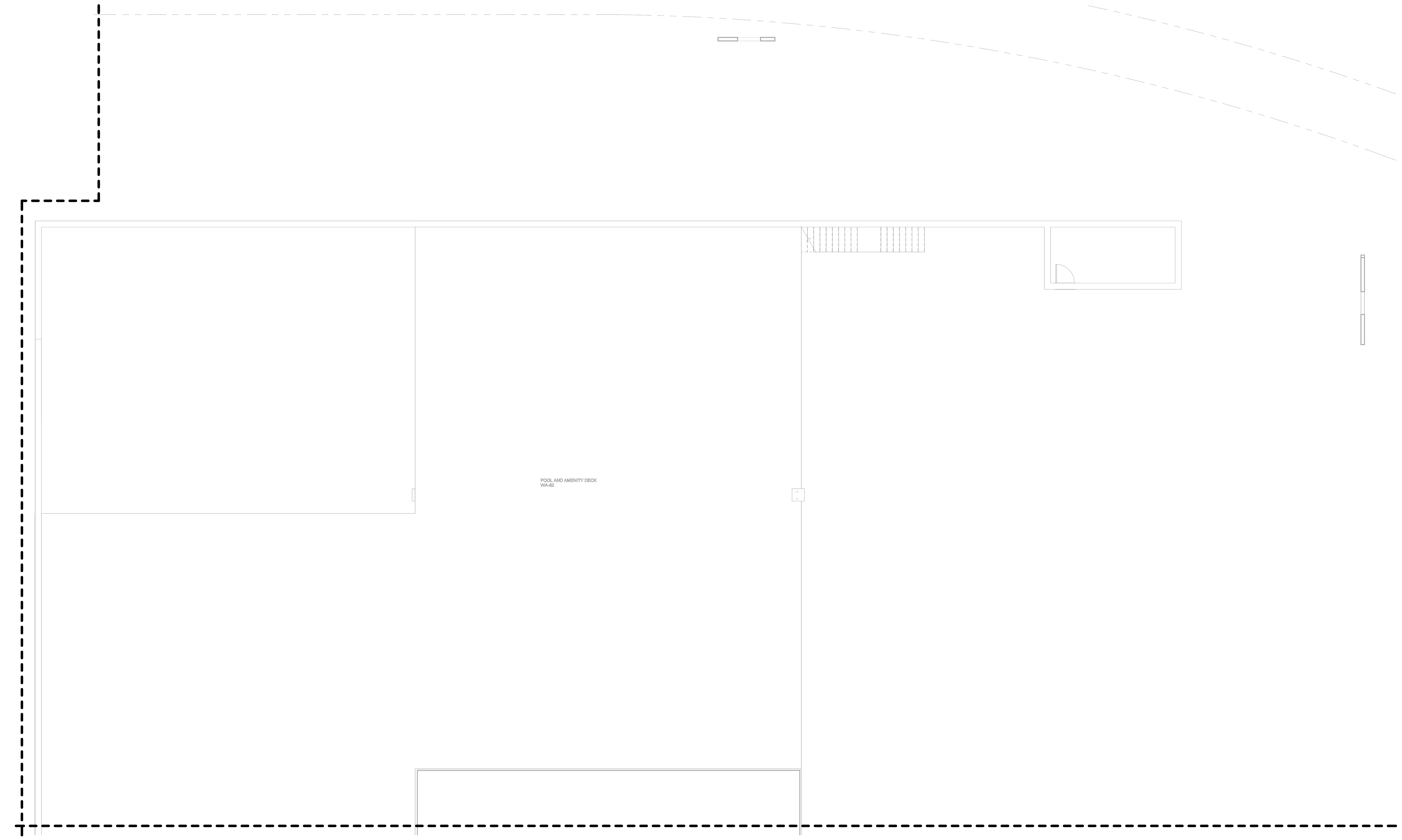
DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING PLAN - ROOF - AREA C

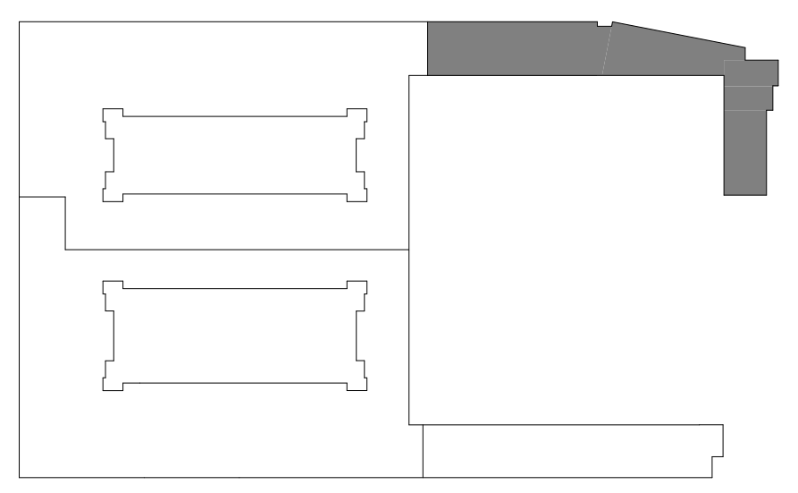
SHEET NUMBER:
M4.272

NOT RELEASED FOR CONSTRUCTION



① LEVEL 07 WEST BUILDING - NE
1/8" = 1'-0"

KEY PLAN



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SHEET TITLE:
WEST BUILDING PLAN - ROOF - AREA D

SHEET NUMBER:
M4.273

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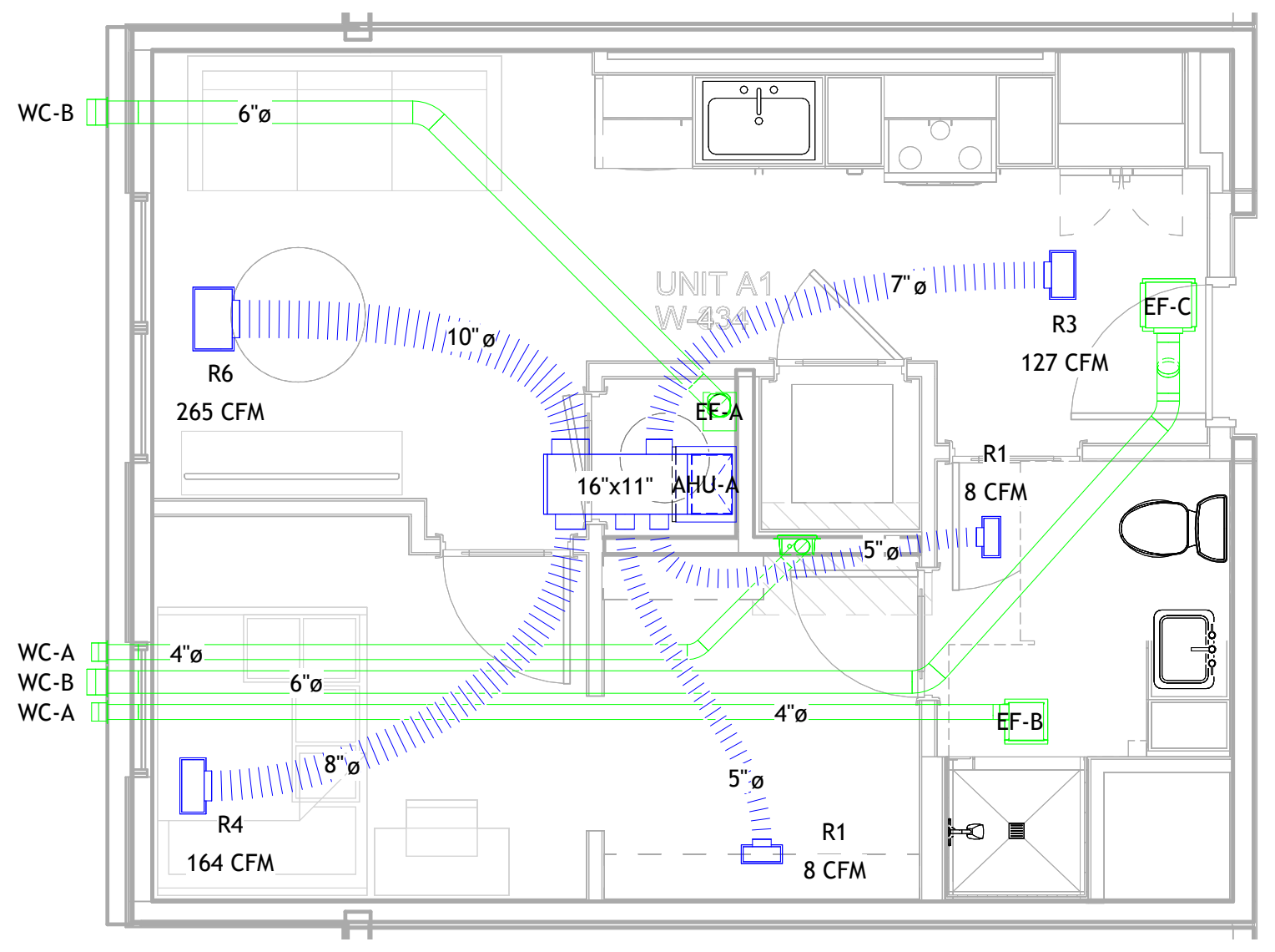
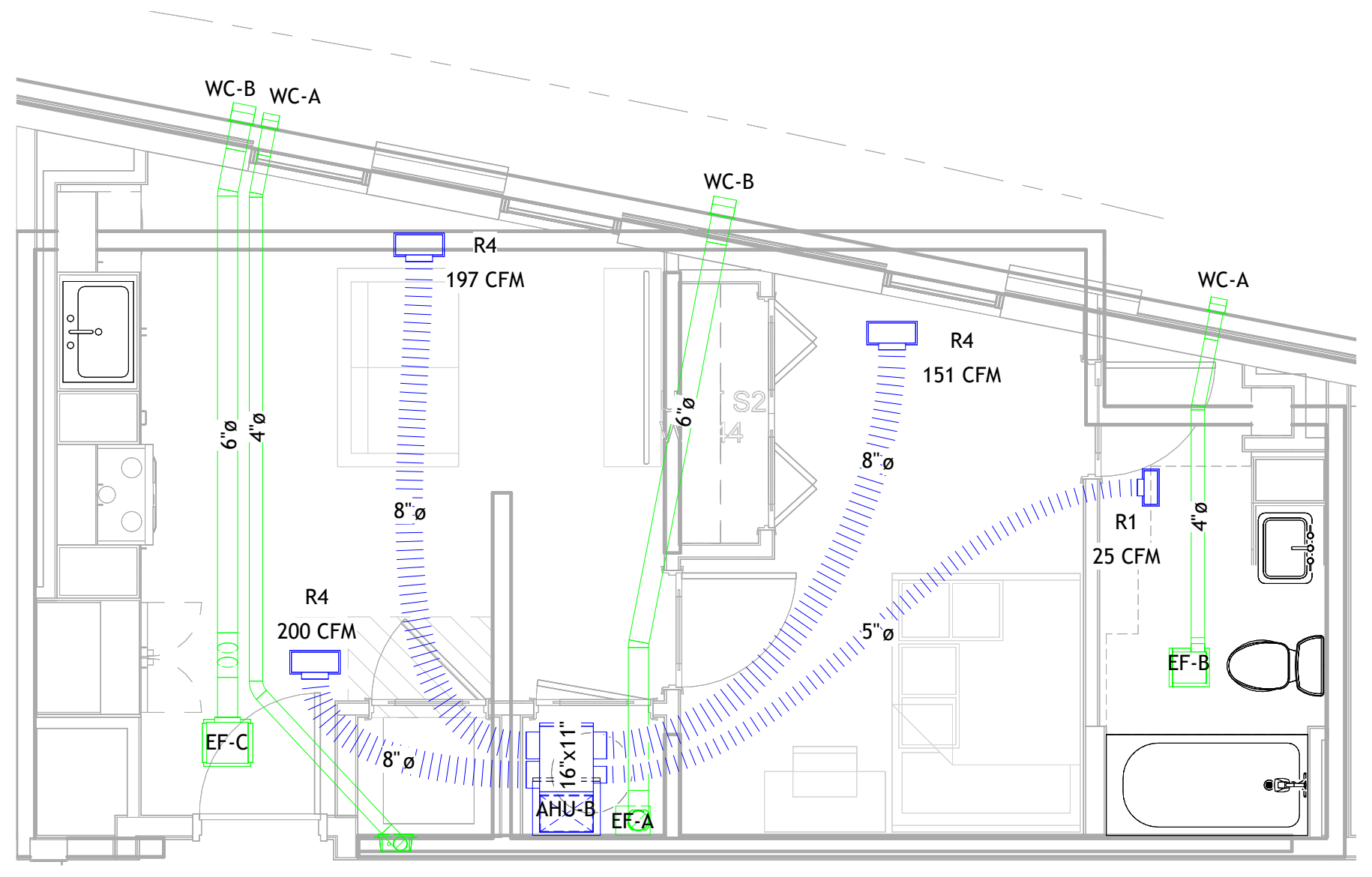
9/30/2026 2:10:07 PM



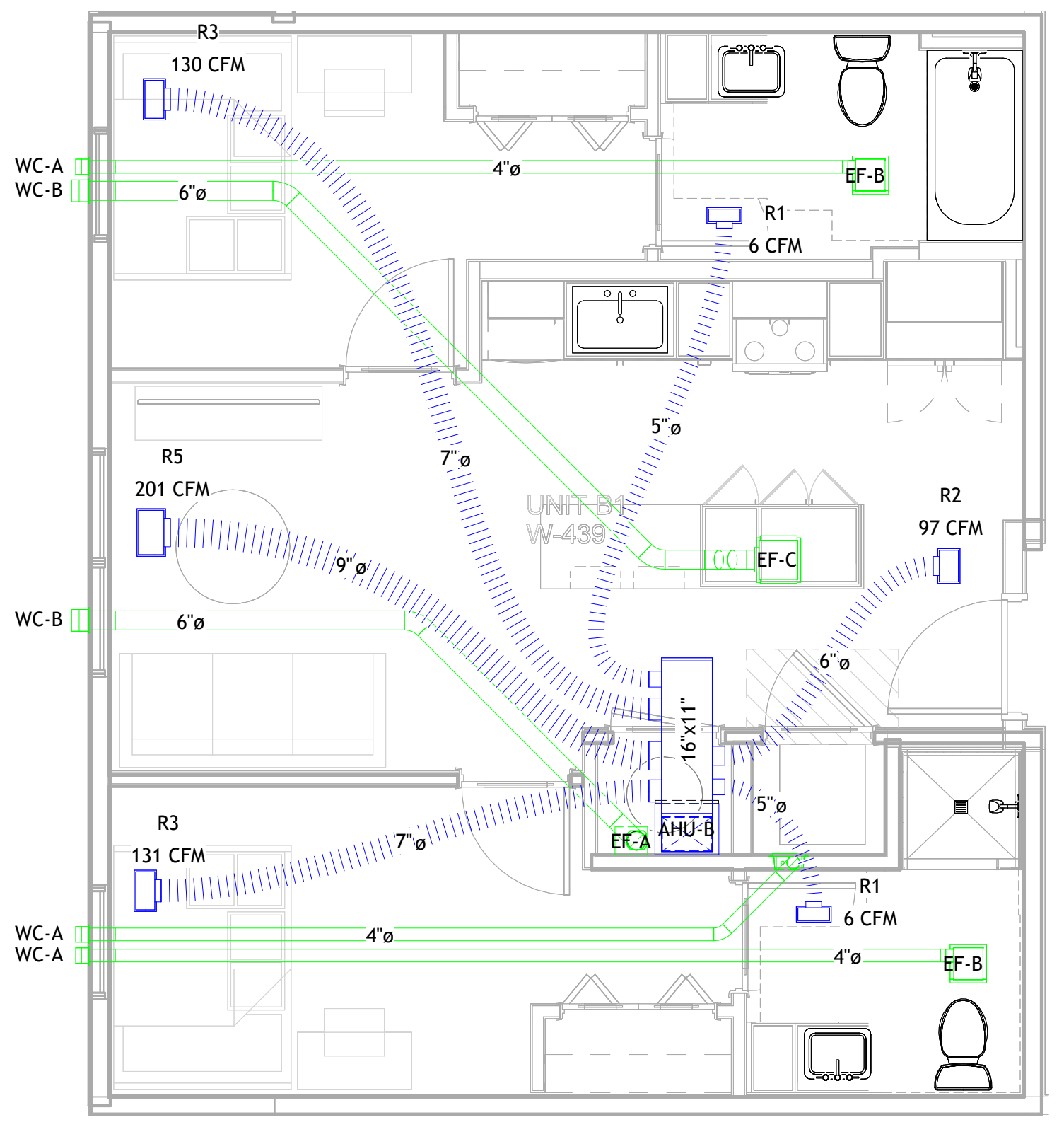
WC-B
6"ø
10"ø
7"ø
EF-C
R3
127 CFM
R6
265 CFM
EF-A
16"x11"
AHU-A
R1
8 CFM
5"ø
WC-A
WC-B
WC-A
4"ø
6"ø
8"ø
R4
164 CFM
5"ø
EF-B
R1
8 CFM

① Unit A1 - WEST
1/4" = 1'-0"



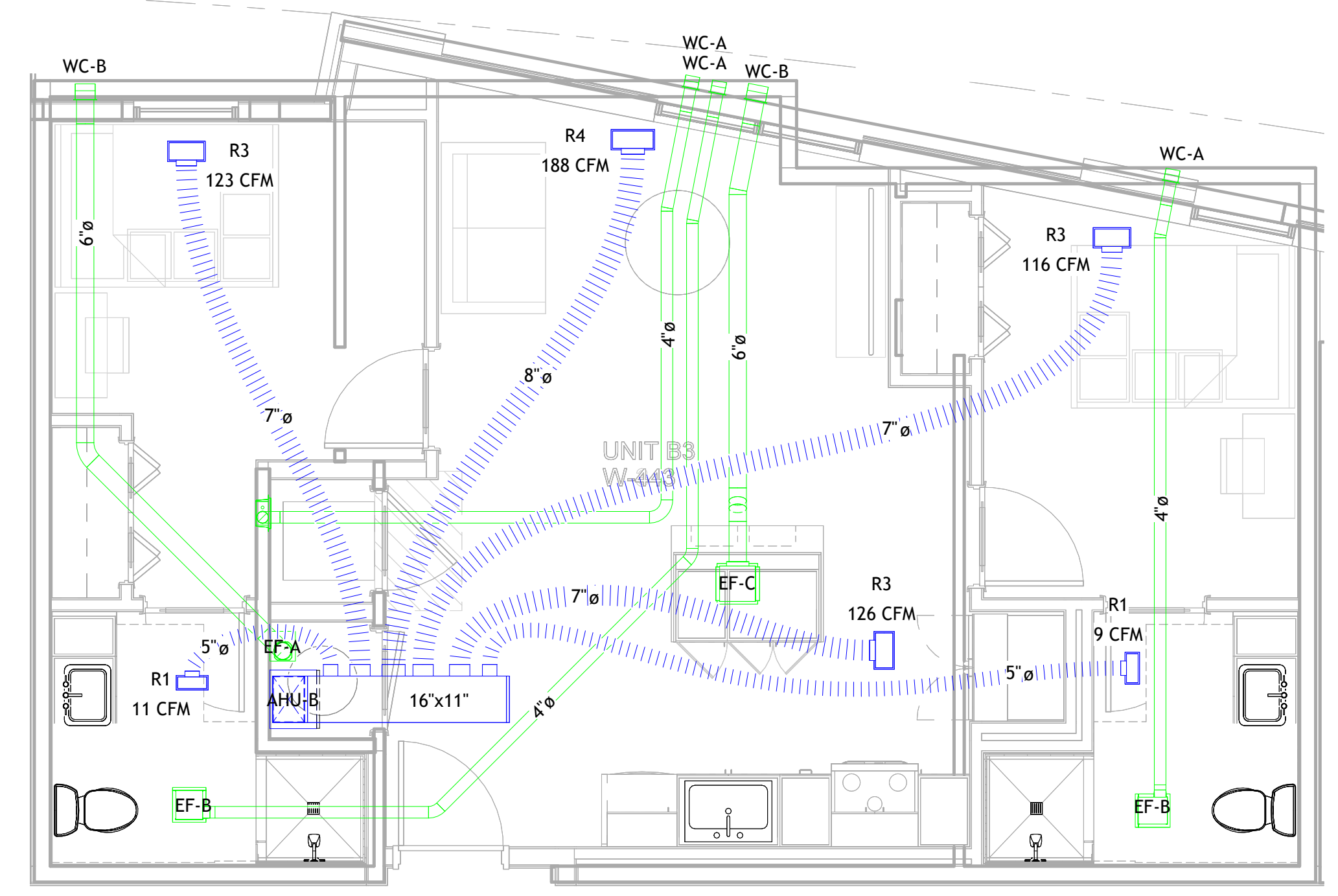
WC-B
WC-A
WC-B
WC-A
R4
197 CFM
R4
151 CFM
6"ø
8"ø
R4
200 CFM
8"ø
5"ø
R1
25 CFM
4"ø
EF-C
EF-B
AHU-B
EF-A

② Unit A2
1/4" = 1'-0"



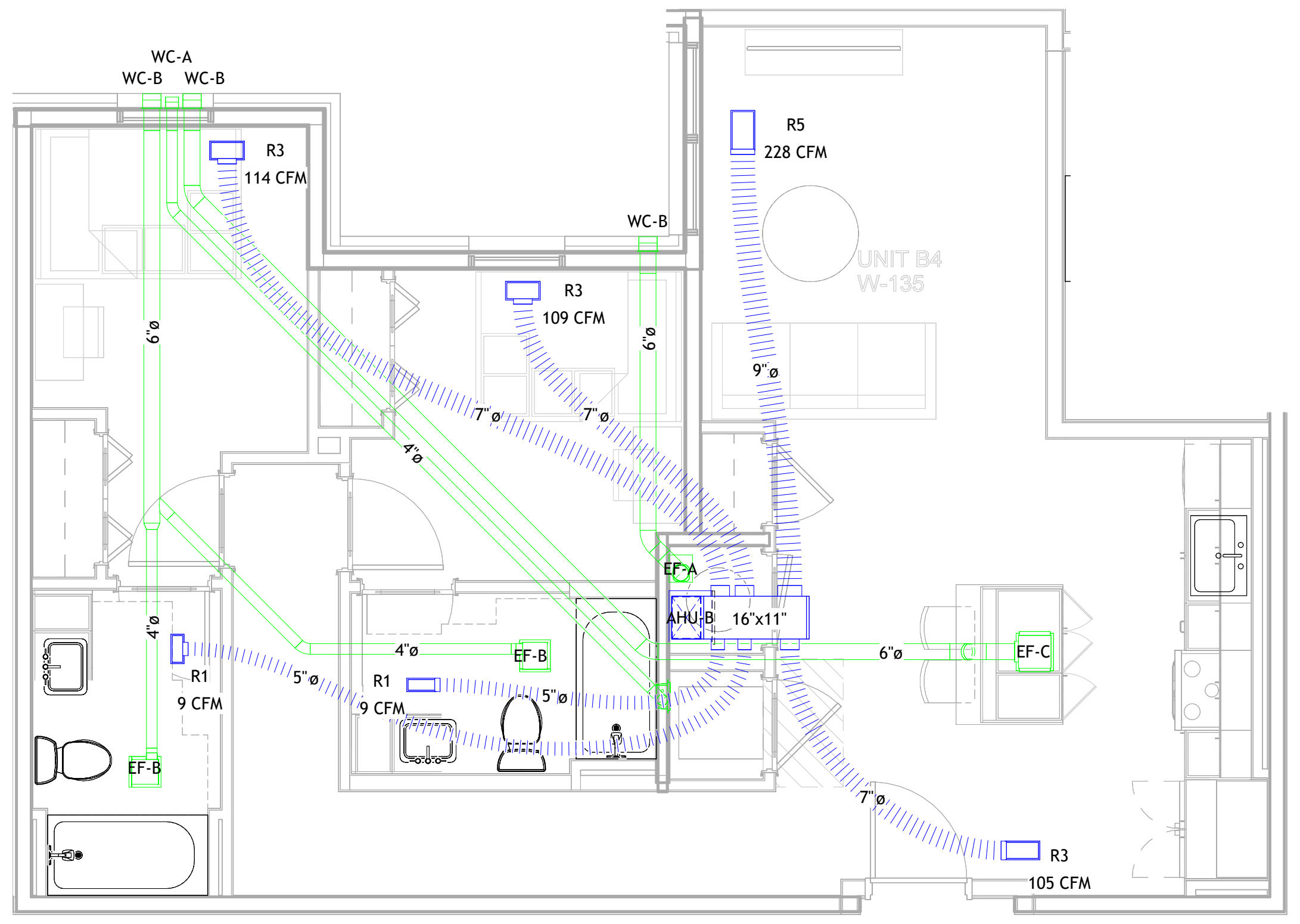
R3
130 CFM
WC-A
WC-B
6"ø
4"ø
EF-B
R1
6 CFM
5"ø
R5
201 CFM
7"ø
9"ø
R2
97 CFM
EF-C
WC-B
6"ø
6"ø
16"x11"
R3
131 CFM
7"ø
5"ø
EF-A
AHU-B
R1
6 CFM
WC-A
WC-A
4"ø
4"ø
EF-B

③ Unit B1 - WEST
1/4" = 1'-0"



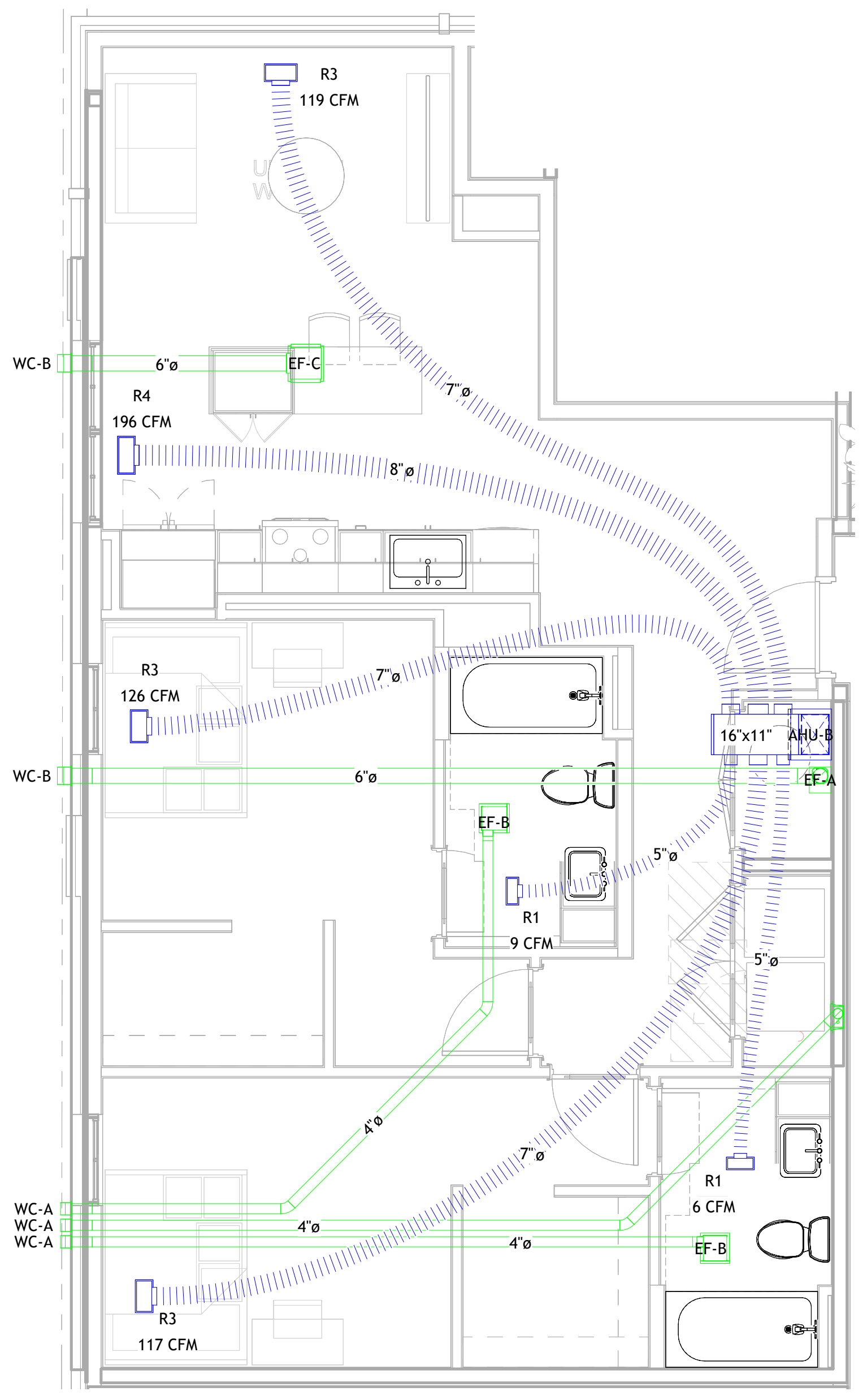
WC-B
WC-A
WC-A
WC-B
WC-A
R3
123 CFM
R4
188 CFM
R3
116 CFM
6"ø
7"ø
8"ø
4"ø
7"ø
6"ø
EF-C
7"ø
R3
126 CFM
R1
9 CFM
5"ø
5"ø
EF-A
R1
11 CFM
AHU-B
16"x11"
4"ø
EF-B
EF-B

④ Unit B3
1/4" = 1'-0"



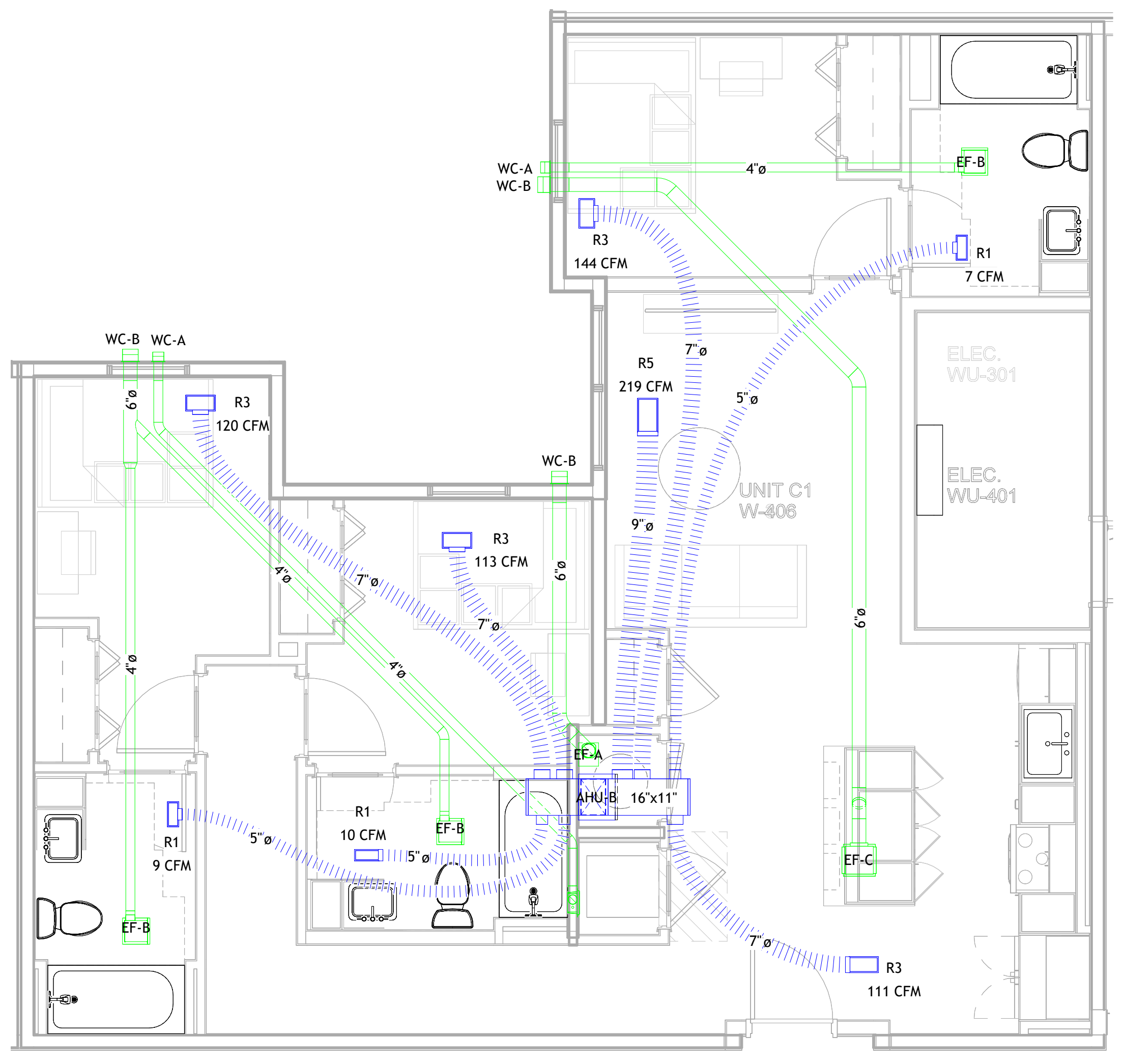
WC-A
WC-B
WC-B
R3
114 CFM
R5
228 CFM
WC-B
R3
109 CFM
6"ø
9"ø
7"ø
4"ø
7"ø
EF-A
AHU-B
16"x11"
6"ø
EF-C
4"ø
R1
9 CFM
5"ø
R1
9 CFM
EF-B
5"ø
EF-B
7"ø
R3
105 CFM

⑤ Unit B4
1/4" = 1'-0"



R3
119 CFM
WC-B
6"ø
EF-C
R4
196 CFM
7"ø
8"ø
R3
126 CFM
7"ø
WC-B
6"ø
16"x11"
AHU-B
EF-A
EF-B
R1
9 CFM
5"ø
5"ø
6"ø
7"ø
WC-A
WC-A
WC-A
4"ø
4"ø
R1
6 CFM
EF-B
R3
117 CFM

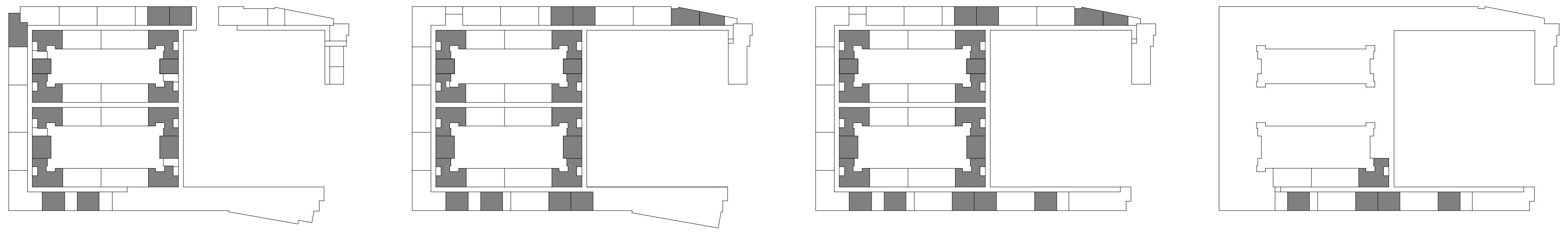
⑥ Unit B5
1/4" = 1'-0"



WC-A
WC-B
4"ø
EF-B
R3
144 CFM
R1
7 CFM
R5
219 CFM
7"ø
5"ø
WC-B
WC-A
R3
120 CFM
WC-B
R3
113 CFM
9"ø
6"ø
4"ø
7"ø
4"ø
7"ø
EF-A
AHU-B
16"x11"
R1
9 CFM
R1
10 CFM
5"ø
EF-B
EF-C
EF-B
7"ø
R3
111 CFM

⑦ Unit C1
1/4" = 1'-0"

KEY PLAN



LEVEL 1
LEVEL 2
LEVEL 3-5
LEVEL 6

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DRAWN BY: CMK
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No.	Description	Date

Rambler Baton Rouge

4076 Gourrier Avenue
Baton Rouge, LA 70808

LV COLLECTIVE

SHEET TITLE:
MECHANICAL
ENLARGED UNITS
A1-A2-B1-B3-B4-B5-C1

SHEET NUMBER:
M4.300

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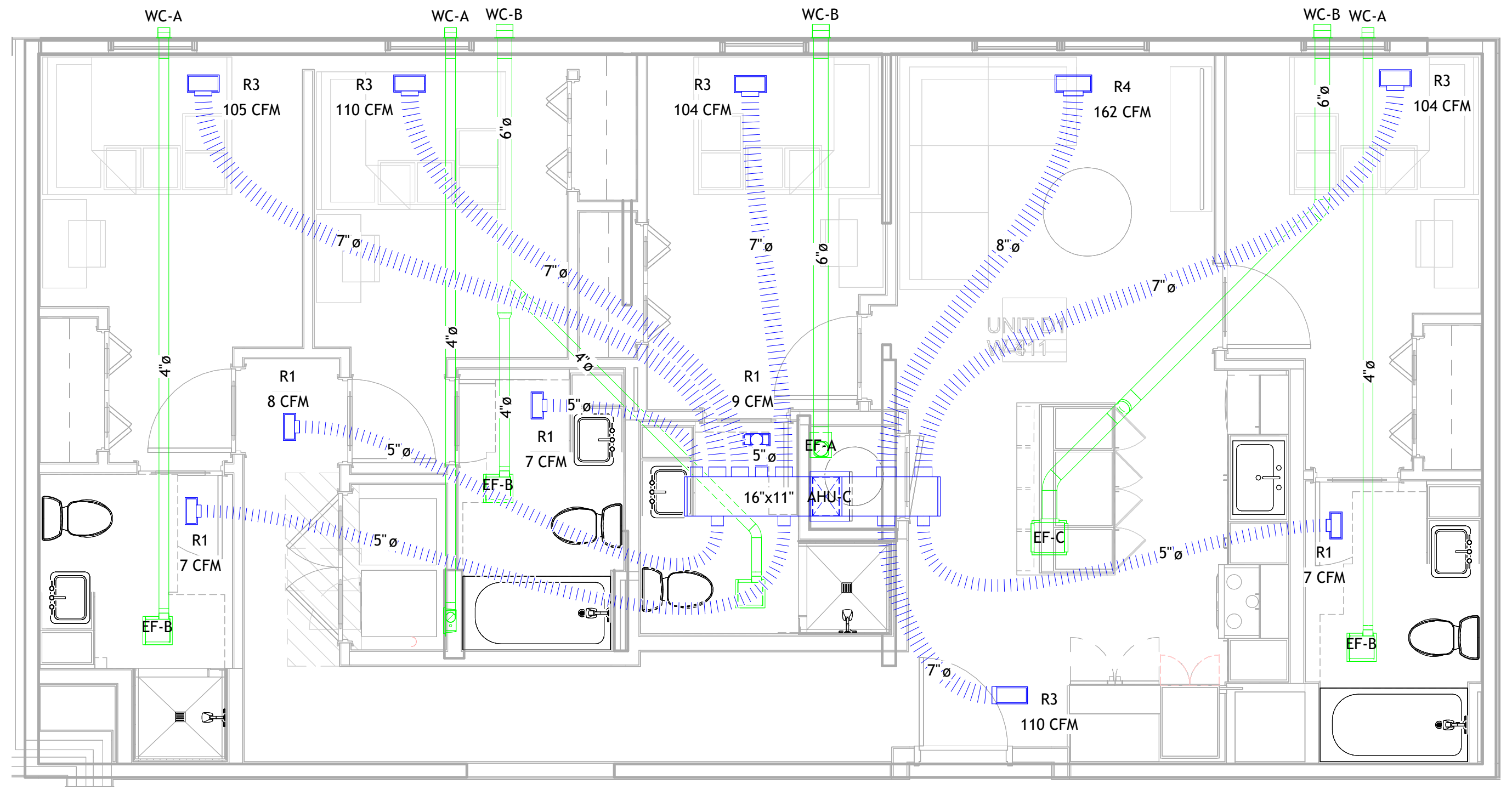
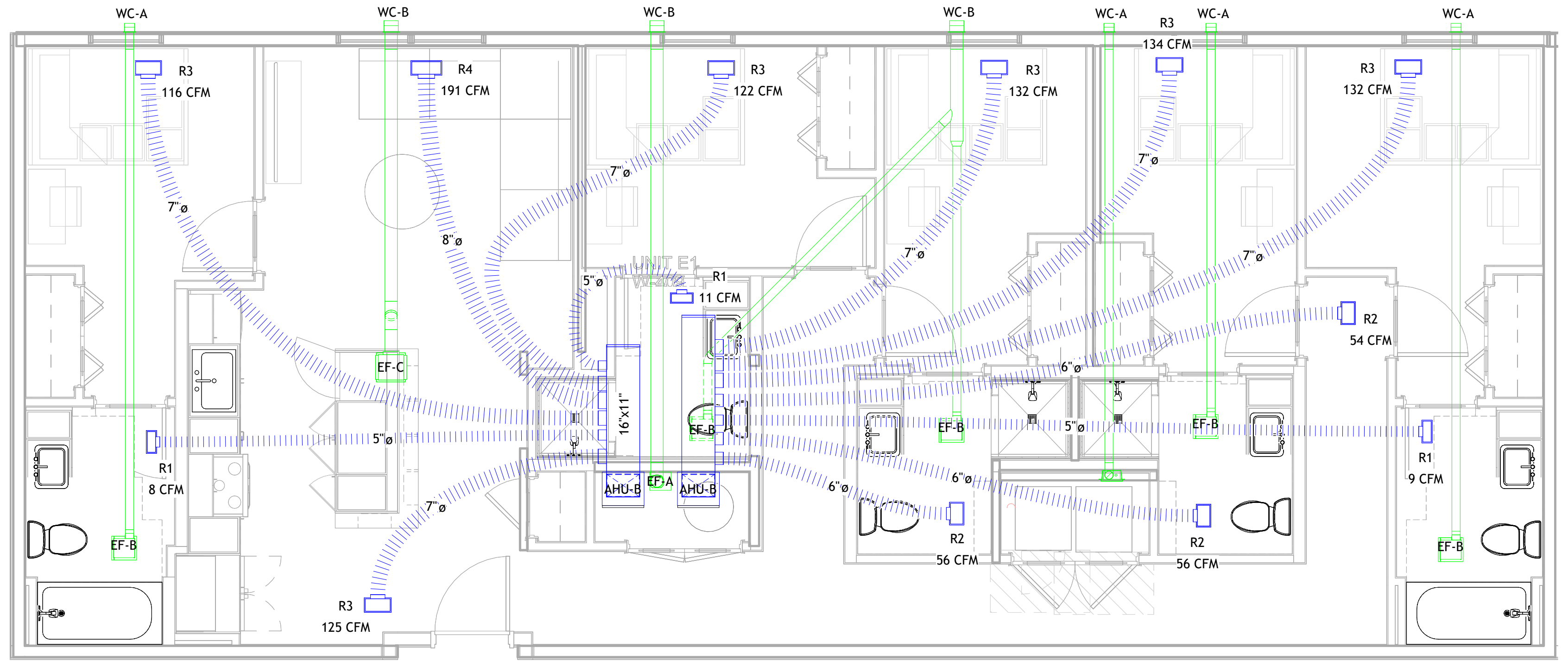
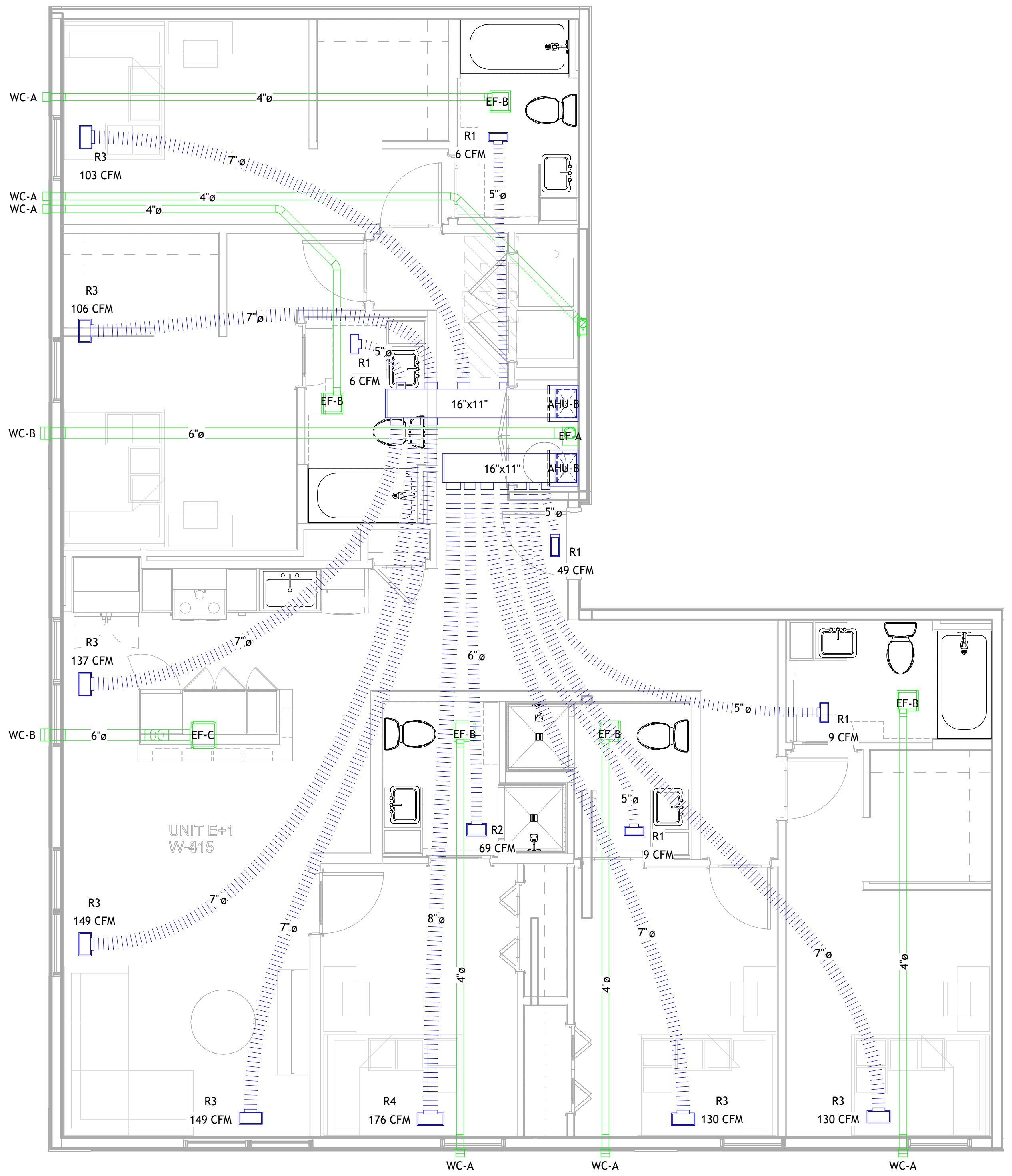

WC-A
WC-A
WC-B
WC-B
WC-B
WC-A
R3
105 CFM
R3
110 CFM
R3
104 CFM
R4
162 CFM
R3
104 CFM
6"ø
7"ø
7"ø
7"ø
6"ø
8"ø
7"ø
6"ø
4"ø
4"ø
4"ø
4"ø
4"ø
R1
8 CFM
R1
7 CFM
R1
9 CFM
5"ø
5"ø
5"ø
5"ø
EF-A
EF-B
EF-B
EF-B
EF-C
16"x11"
AHU-C
R1
7 CFM
R1
7 CFM
5"ø
7"ø
R3
110 CFM
UNIT D1
W-411

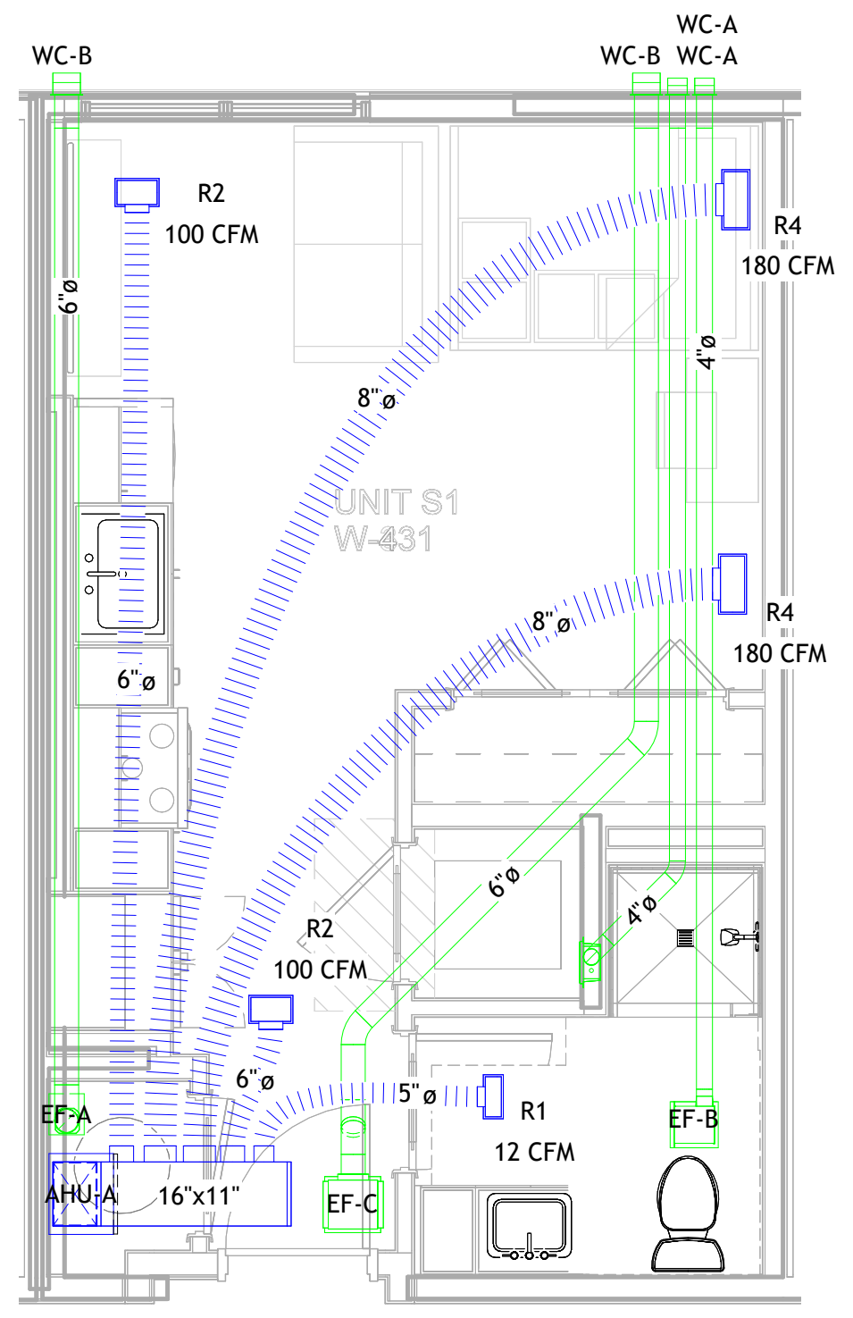
1 Unit D1 - WEST
1/4" = 1'-0"


WC-A
WC-B
WC-B
WC-B
WC-A
WC-A
WC-A
R3
116 CFM
R4
191 CFM
R3
122 CFM
R3
132 CFM
R3
134 CFM
R3
132 CFM
7"ø
8"ø
7"ø
7"ø
7"ø
7"ø
5"ø
UNIT E1
W-409
R1
11 CFM
R2
54 CFM
16"x11"
EF-C
6"ø
5"ø
5"ø
EF-B
EF-B
EF-B
EF-B
EF-B
R1
8 CFM
R1
9 CFM
AHU-B
EF-A
AHU-B
6"ø
6"ø
7"ø
R2
56 CFM
R2
56 CFM
R3
125 CFM

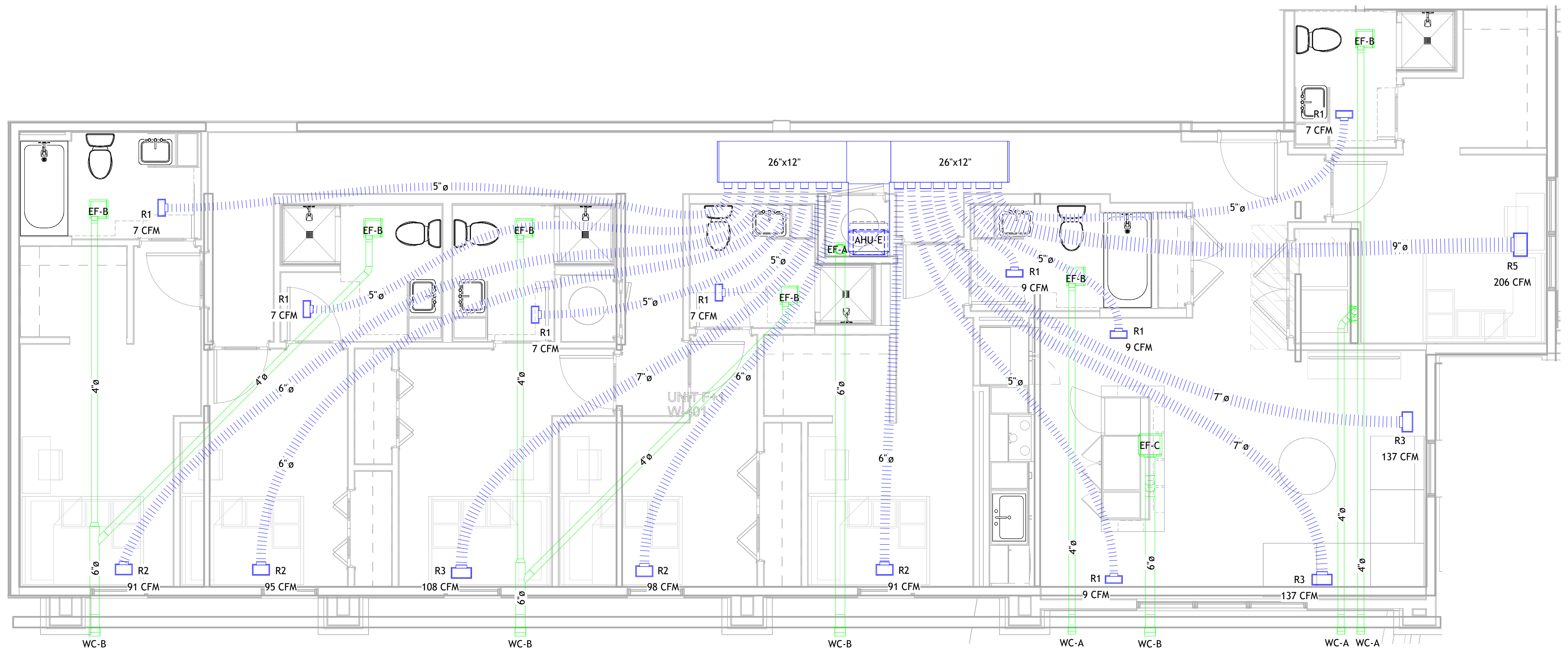
2 Unit E1 - WEST
1/4" = 1'-0"


WC-A
4"ø
EF-B
R3
103 CFM
7"ø
R1
6 CFM
WC-A
WC-A
4"ø
4"ø
5"ø
R3
106 CFM
7"ø
5"ø
R1
6 CFM
EF-B
16"x11"
AHU-B
WC-B
6"ø
EF-A
16"x11"
AHU-B
5"ø
R1
49 CFM
R3
137 CFM
7"ø
6"ø
WC-B
6"ø
EF-C
EF-B
EF-B
5"ø
R1
9 CFM
EF-B
5"ø
UNIT E+1
W-415
R2
69 CFM
R1
9 CFM
R3
149 CFM
7"ø
7"ø
8"ø
7"ø
7"ø
4"ø
4"ø
4"ø
R3
149 CFM
R4
176 CFM
R3
130 CFM
R3
130 CFM
WC-A
WC-A
WC-A

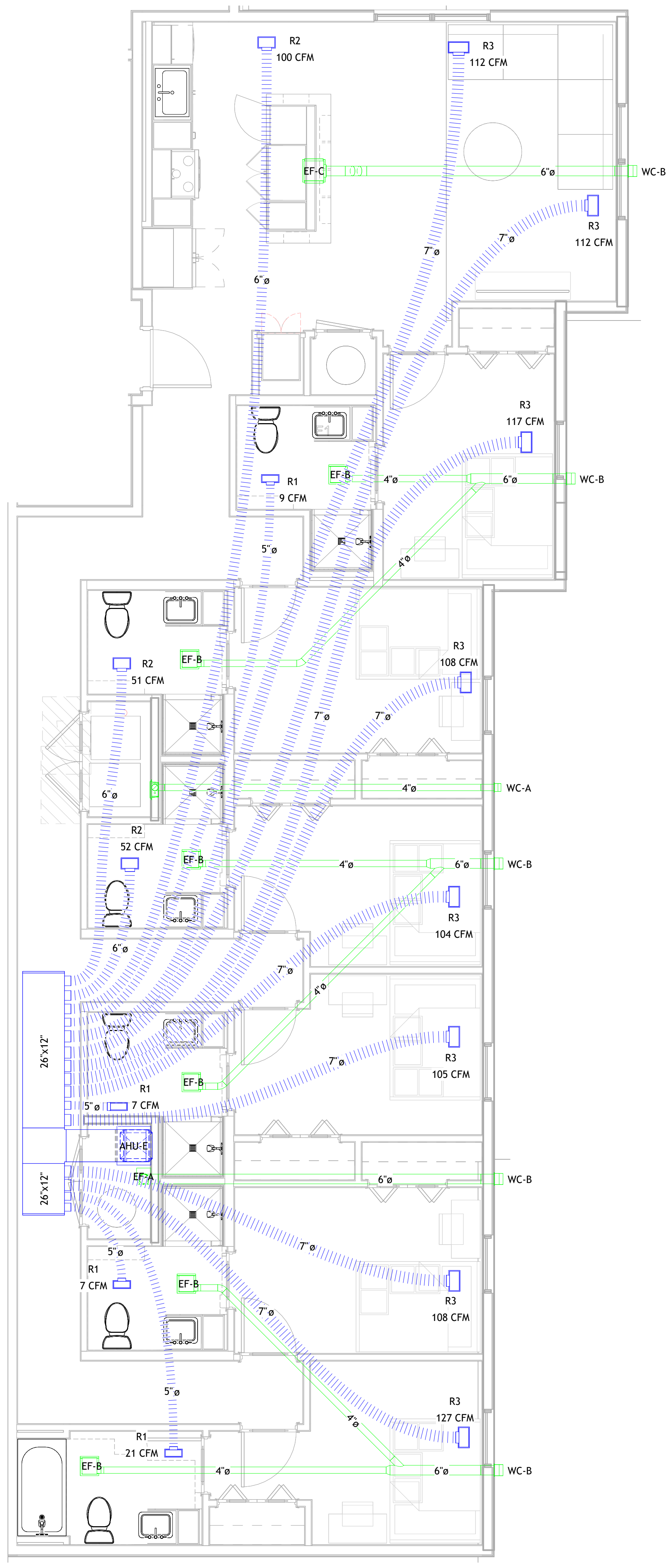
3 Unit E+1
1/4" = 1'-0"


WC-B
WC-B
WC-A
WC-A
R2
100 CFM
R4
180 CFM
6"ø
8"ø
4"ø
UNIT S1
W-431
8"ø
R4
180 CFM
6"ø
6"ø
4"ø
R2
100 CFM
6"ø
5"ø
R1
12 CFM
EF-A
EF-B
AHU-A
16"x11"
EF-C

6 Unit S1 - WEST
1/4" = 1'-0"

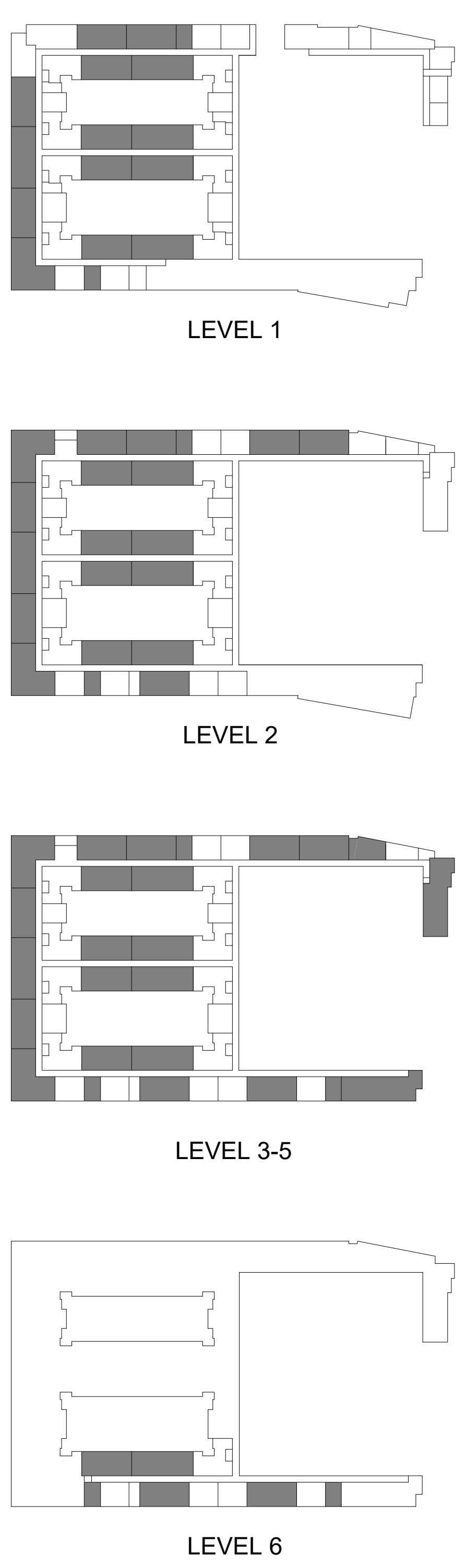

EF-B
R1
7 CFM
26"x12"
26"x12"
5"ø
EF-B
R1
7 CFM
EF-B
EF-B
EF-A
AHU-E
5"ø
9"ø
R5
206 CFM
R1
7 CFM
5"ø
R1
7 CFM
5"ø
R1
7 CFM
5"ø
EF-B
R1
9 CFM
EF-B
R1
9 CFM
4"ø
6"ø
7"ø
6"ø
6"ø
5"ø
UNIT F+1
W-401
7"ø
7"ø
R3
137 CFM
6"ø
4"ø
6"ø
EF-C
4"ø
4"ø
4"ø
6"ø
4"ø
4"ø
6"ø
6"ø
R2
91 CFM
R2
95 CFM
R3
108 CFM
R2
98 CFM
R2
91 CFM
R1
9 CFM
R3
137 CFM
WC-B
WC-B
WC-B
WC-A
WC-B
WC-A
WC-A

4 Unit F+1
1/4" = 1'-0"


R2
100 CFM
R3
112 CFM
EF-C
6"ø
WC-B
R3
112 CFM
7"ø
7"ø
6"ø
R3
117 CFM
R1
9 CFM
EF-B
4"ø
6"ø
WC-B
5"ø
4"ø
R3
108 CFM
R2
51 CFM
EF-B
7"ø
7"ø
6"ø
4"ø
WC-A
R2
52 CFM
EF-B
4"ø
6"ø
WC-B
R3
104 CFM
6"ø
7"ø
4"ø
26"x12"
R3
105 CFM
7"ø
EF-B
R1
7 CFM
5"ø
AHU-E
EF-A
6"ø
WC-B
26"x12"
7"ø
5"ø
R1
7 CFM
EF-B
7"ø
R3
108 CFM
5"ø
4"ø
R3
127 CFM
R1
21 CFM
EF-B
4"ø
6"ø
WC-B

5 Unit F+2
1/4" = 1'-0"

KEY PLAN


LEVEL 1
LEVEL 2
LEVEL 3-5
LEVEL 6

Rambler Baton Rouge

4076 Gourrier Avenue
Baton Rouge, LA 70808

LV COLLECTIVE

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No.	Description	Date

SHEET TITLE:
MECHANICAL
ENLARGED UNITS
D1-E1-E+1-F+1-F+2-S1

SHEET NUMBER:
M4.301

NOT RELEASED FOR CONSTRUCTION

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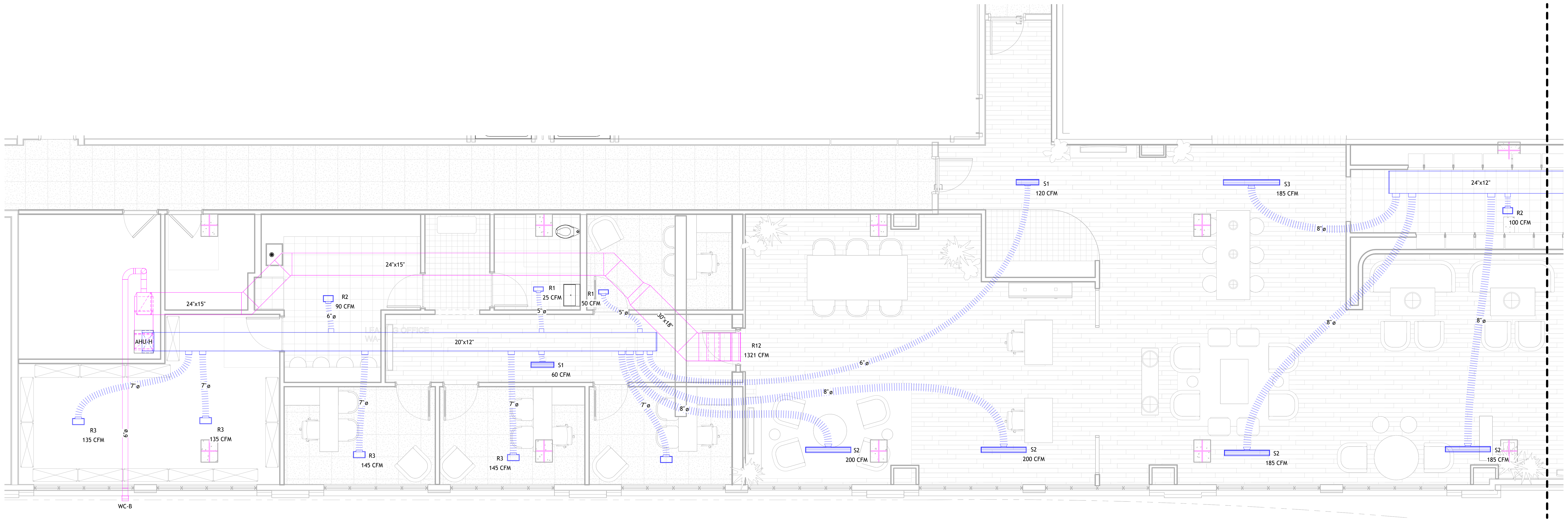
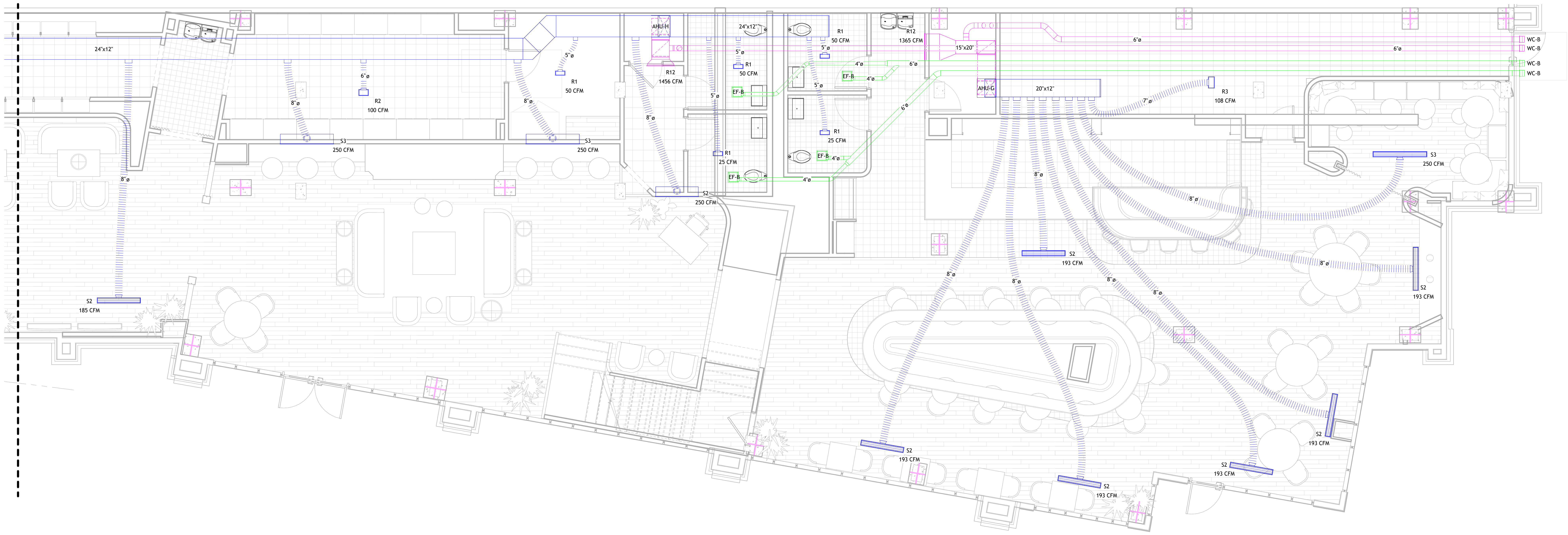

24"x15"
24"x15"
AHU-H
20"x12"
30"x18"
R2
90 CFM
6"ø
R1
25 CFM
R1
50 CFM
5"ø
5"ø
R12
1321 CFM
S1
60 CFM
7"ø
7"ø
7"ø
7"ø
7"ø
8"ø
6"ø
R3
135 CFM
R3
135 CFM
R3
145 CFM
R3
145 CFM
WC-B
S1
120 CFM
S3
185 CFM
8"ø
24"x12"
R2
100 CFM
8"ø
8"ø
6"ø
8"ø
S2
200 CFM
S2
200 CFM
S2
185 CFM
S2
185 CFM

① LEVEL 01 WEST COMMON AREA - A
1/4" = 1'-0"


24"x12"
8"ø
S2
185 CFM
6"ø
R2
100 CFM
8"ø
S3
250 CFM
5"ø
R1
50 CFM
8"ø
S3
250 CFM
AHU-H
R12
1456 CFM
8"ø
S2
250 CFM
24"x12"
5"ø
R1
50 CFM
EF-B
5"ø
R1
25 CFM
EF-B
R1
50 CFM
5"ø
4"ø
EF-B
4"ø
5"ø
R1
25 CFM
EF-B
4"ø
4"ø
6"ø
R12
1365 CFM
15"x20"
6"ø
6"ø
6"ø
AHU-G
20"x12"
7"ø
R3
108 CFM
WC-B
WC-B
WC-B
WC-B
S3
250 CFM
8"ø
8"ø
8"ø
8"ø
8"ø
8"ø
8"ø
S2
193 CFM
S2
193 CFM
S2
193 CFM
S2
193 CFM
S2
193 CFM
S2
193 CFM
S2
193 CFM

② LEVEL 01 WEST COMMON AREA - B
1/4" = 1'-0"

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Baton Rouge, LA 70808

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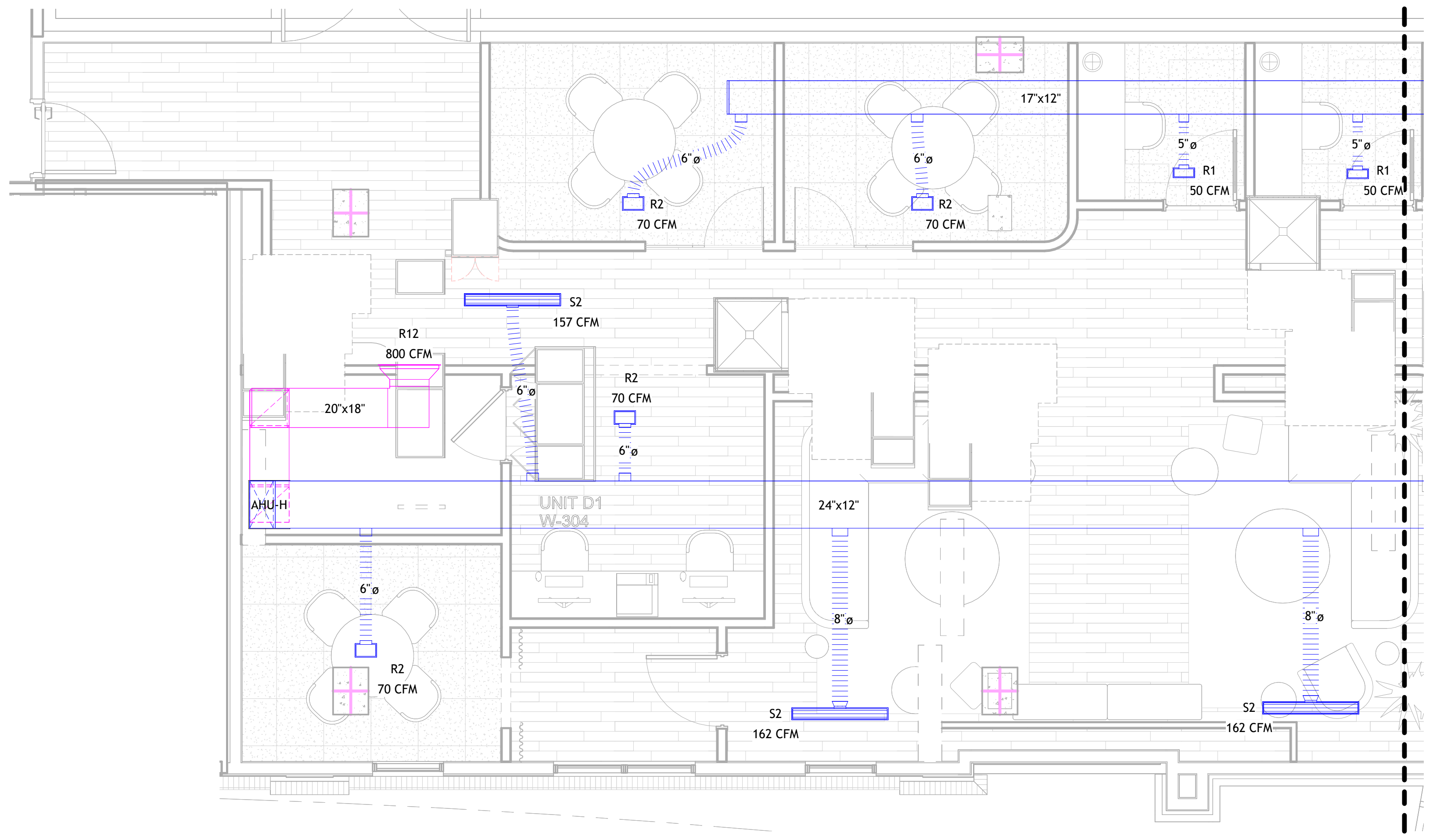
9/30/2026

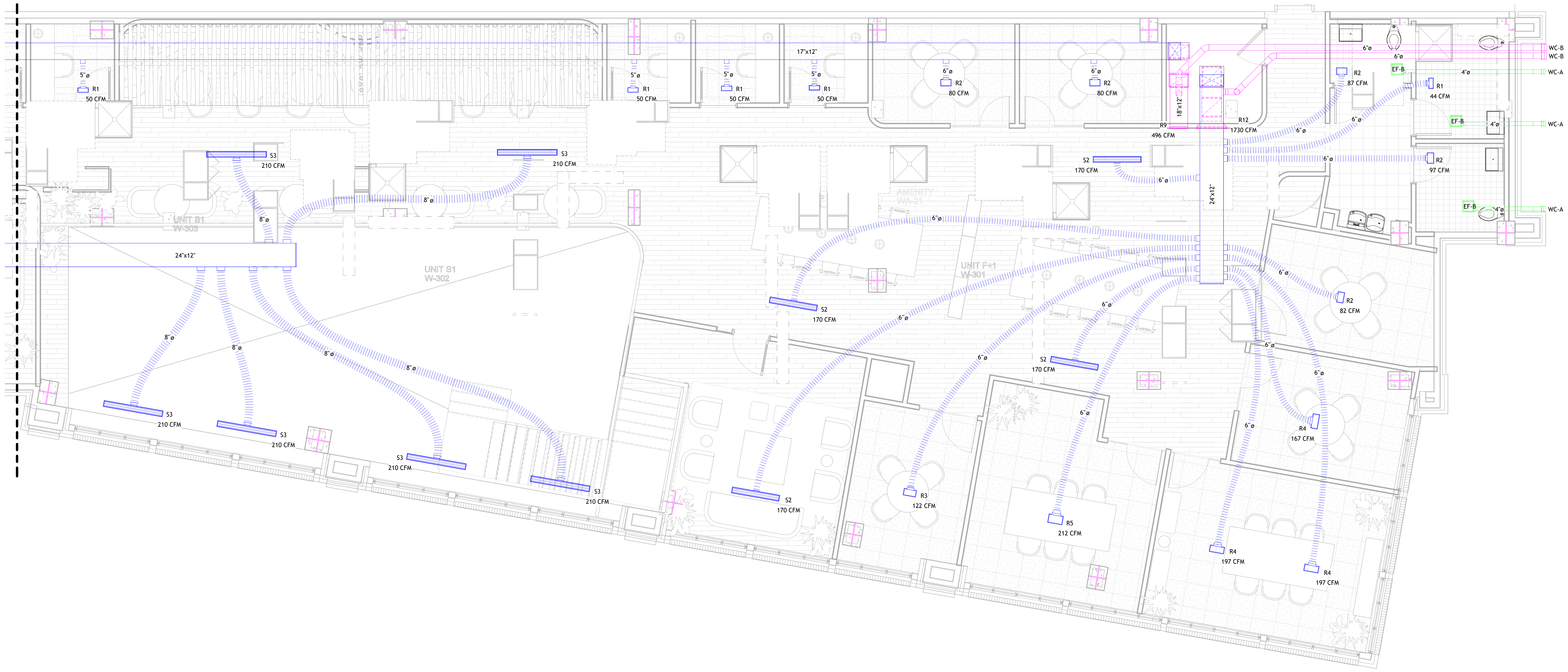
SHEET TITLE:
MECHANICAL
ENLARGED WEST
LEVEL 1 COMMON

SHEET NUMBER:
M4.302

NOT RELEASED FOR CONSTRUCTION


17"x12"
6"ø
R2
70 CFM
6"ø
R2
70 CFM
5"ø
R1
50 CFM
5"ø
R1
50 CFM
S2
157 CFM
R12
800 CFM
20"x18"
6"ø
R2
70 CFM
6"ø
AHU-H
UNIT D1
W-304
24"x12"
6"ø
R2
70 CFM
8"ø
8"ø
S2
162 CFM
S2
162 CFM

① LEVEL 02 WEST COMMON AREA - A
1/4" = 1'-0"


5"ø
R1
50 CFM
5"ø
R1
50 CFM
5"ø
R1
50 CFM
17"x12"
5"ø
R1
50 CFM
6"ø
R2
80 CFM
6"ø
R2
80 CFM
18"x12"
R9
496 CFM
R12
1730 CFM
6"ø
6"ø
R2
87 CFM
EF-B
4"ø
R1
44 CFM
EF-B
4"ø
WC-B
WC-B
WC-A
WC-A
WC-A
6"ø
6"ø
6"ø
R2
97 CFM
EF-B
4"ø
S3
210 CFM
S3
210 CFM
8"ø
8"ø
UNIT B1
W-303
24"x12"
UNIT S1
W-302
S2
170 CFM
6"ø
24"x12"
AMENITY
WA-21
6"ø
UNIT F+1
W-301
S2
170 CFM
6"ø
6"ø
6"ø
R2
82 CFM
8"ø
8"ø
8"ø
8"ø
S2
170 CFM
6"ø
6"ø
6"ø
6"ø
R4
167 CFM
S3
210 CFM
S3
210 CFM
S3
210 CFM
S3
210 CFM
S2
170 CFM
R3
122 CFM
R5
212 CFM
R4
197 CFM
R4
197 CFM

② LEVEL 02 WEST COMMON AREA - B
1/4" = 1'-0"

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No.	Description	Date

Rambler Baton Rouge

4076 Gourrier Avenue
Baton Rouge, LA 70808

LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL
ENLARGED WEST
LEVEL 2 COMMON

SHEET NUMBER:
M4.303

NOT RELEASED FOR CONSTRUCTION

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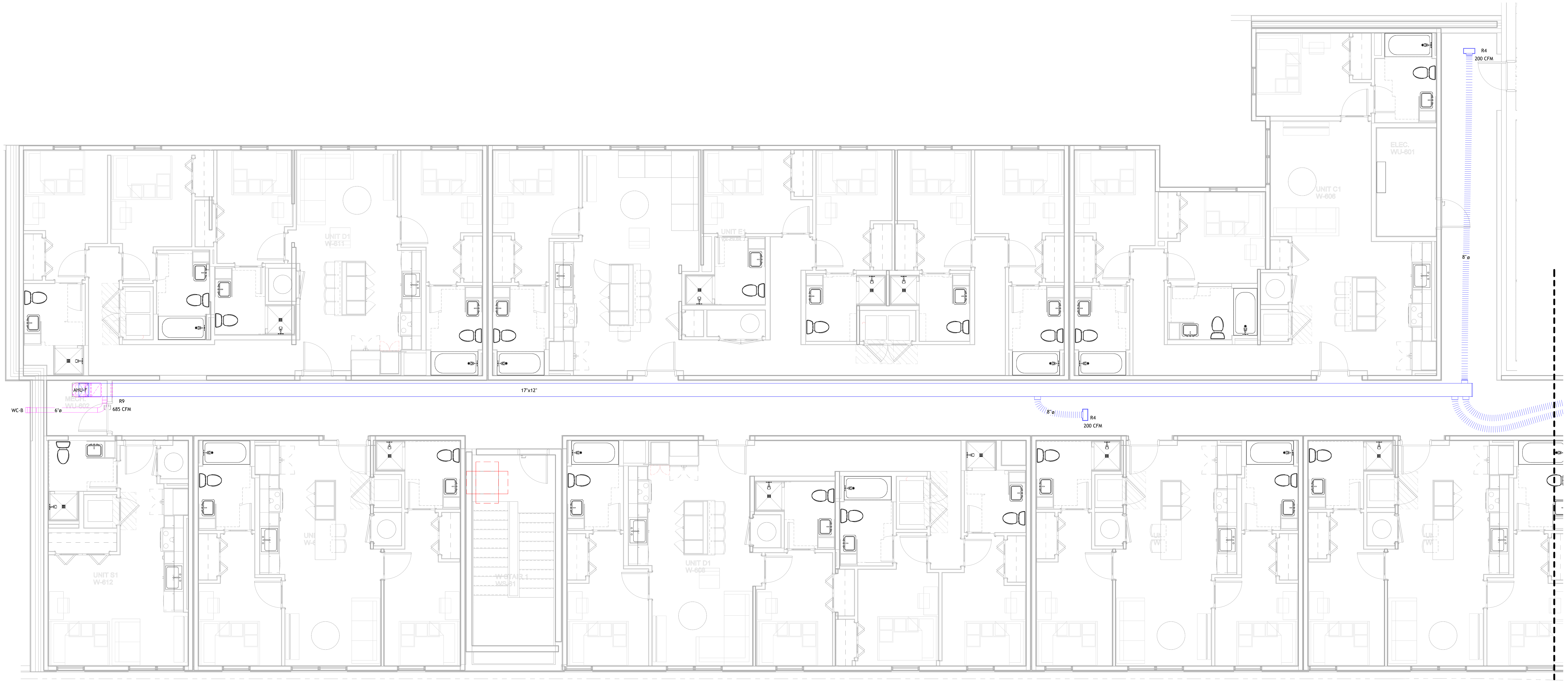
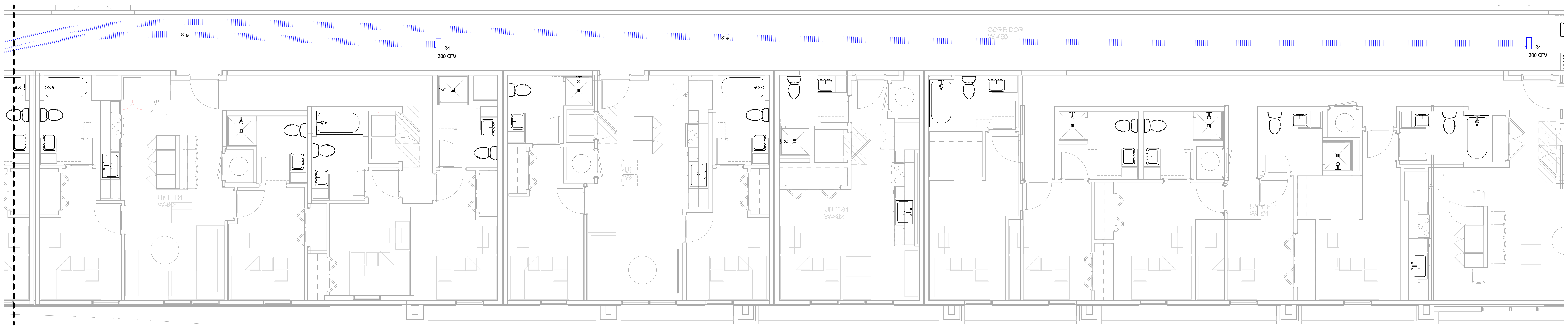

R4
200 CFM
8"ø
AHU-F
MECH.
WU-602
R9
685 CFM
WC-B
6"ø
17"x12"
8"ø
R4
200 CFM
ELEC.
WU-601
UNIT C1
W-606
UNIT D1
W-611
UNIT E1
UNIT B1
W-612
UNIT D1
W-608
STAIR 1
W-ST1

① LEVEL 06 WEST COMMON AREA - A
1/4" = 1'-0"


8"ø
R4
200 CFM
8"ø
CORRIDOR
R4
200 CFM
UNIT D1
W-604
UNIT B1
W-602

② LEVEL 06 WEST COMMON AREA - B
1/4" = 1'-0"

9/30/2026 2:10:43 PM

D A D | ENGINEERING

PROJECT # : 26032
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No.	Description	Date

Rambler Baton Rouge

4076 Gourrier Avenue
Baton Rouge, LA 70808

LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
MECHANICAL
ENLARGED WEST
LEVEL 6 COMMON

SHEET NUMBER:
M4.304

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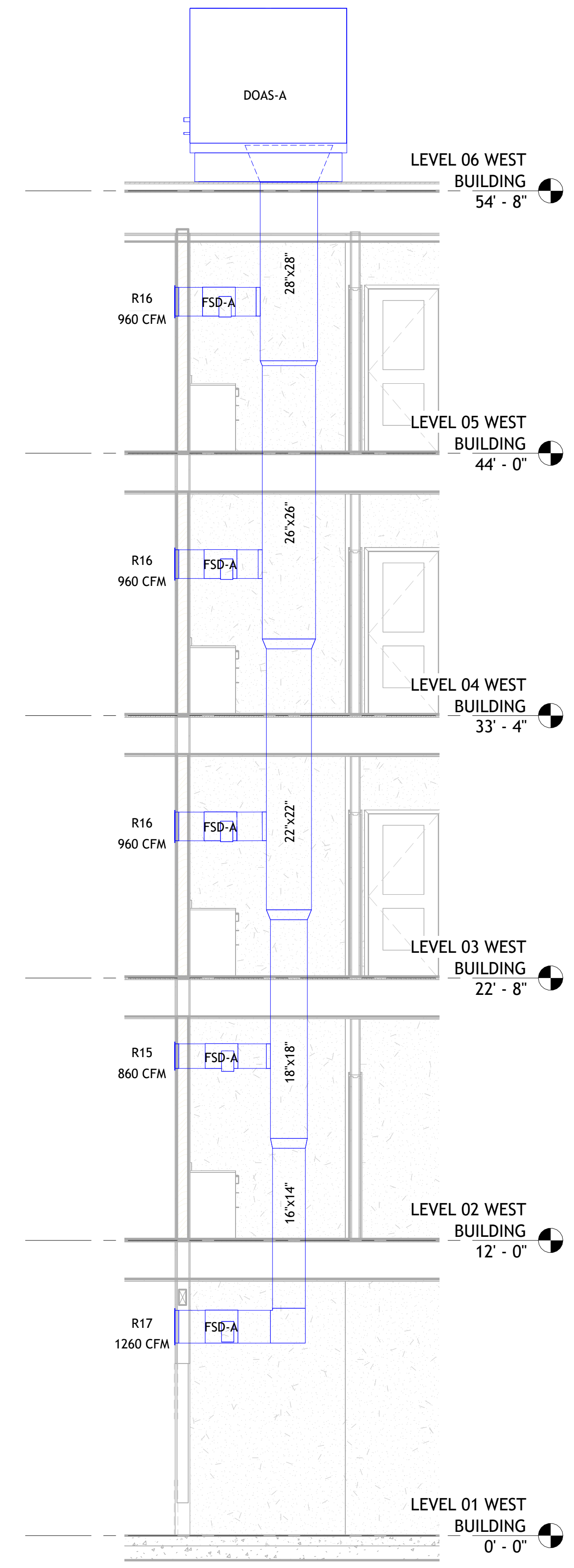
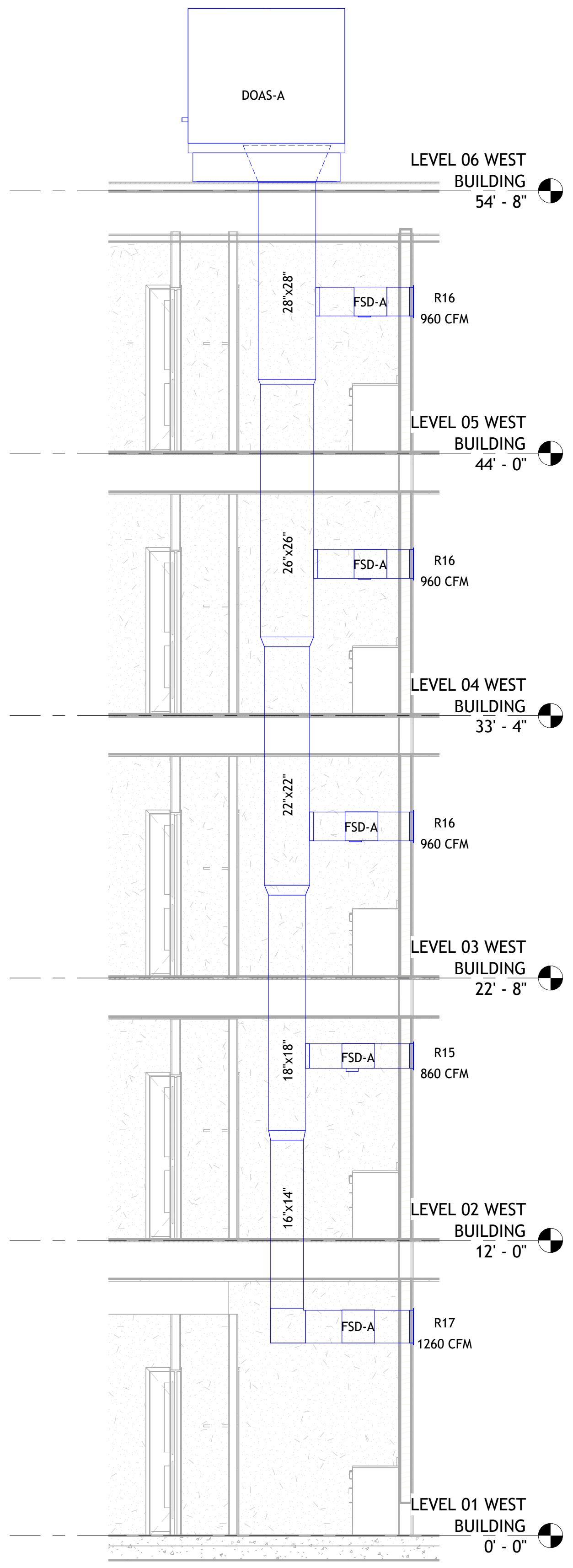
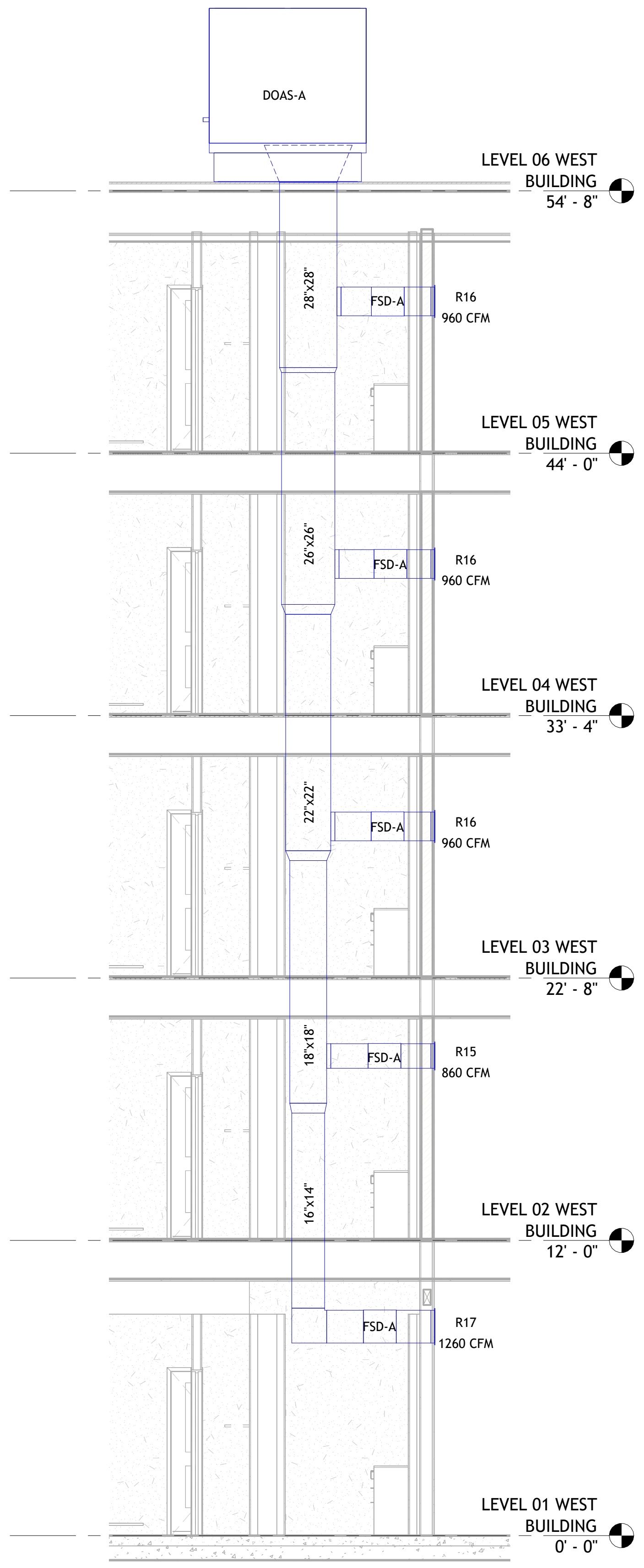

DOAS-A
LEVEL 06 WEST BUILDING 54' - 8"
28"x28"
R16 960 CFM
FSD-A
LEVEL 05 WEST BUILDING 44' - 0"
26"x26"
R16 960 CFM
FSD-A
LEVEL 04 WEST BUILDING 33' - 4"
22"x22"
R16 960 CFM
FSD-A
LEVEL 03 WEST BUILDING 22' - 8"
R15 860 CFM
FSD-A
18"x18"
LEVEL 02 WEST BUILDING 12' - 0"
16"x14"
R17 1260 CFM
FSD-A
LEVEL 01 WEST BUILDING 0' - 0"

① WEST DOAS 1
1/4" = 1'-0"


DOAS-A
LEVEL 06 WEST BUILDING 54' - 8"
28"x28"
FSD-A
R16 960 CFM
LEVEL 05 WEST BUILDING 44' - 0"
26"x26"
FSD-A
R16 960 CFM
LEVEL 04 WEST BUILDING 33' - 4"
22"x22"
FSD-A
R16 960 CFM
LEVEL 03 WEST BUILDING 22' - 8"
18"x18"
FSD-A
R15 860 CFM
LEVEL 02 WEST BUILDING 12' - 0"
16"x14"
FSD-A
R17 1260 CFM
LEVEL 01 WEST BUILDING 0' - 0"

② WEST DOAS 2
1/4" = 1'-0"


DOAS-A
LEVEL 06 WEST BUILDING 54' - 8"
28"x28"
FSD-A
R16 960 CFM
LEVEL 05 WEST BUILDING 44' - 0"
26"x26"
FSD-A
R16 960 CFM
LEVEL 04 WEST BUILDING 33' - 4"
22"x22"
FSD-A
R16 960 CFM
LEVEL 03 WEST BUILDING 22' - 8"
18"x18"
FSD-A
R15 860 CFM
LEVEL 02 WEST BUILDING 12' - 0"
16"x14"
FSD-A
R17 1260 CFM
LEVEL 01 WEST BUILDING 0' - 0"

③ WEST DOAS 3
1/4" = 1'-0"

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PROJECT # : 26032
DRAWN BY: Author
CHECKED BY: Checker

1060 Garland Drive
Suite 900
Bogart, GA 30622

T 706 255 3971

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No.	Description	Date

Rambler Baton Rouge
4076 Gourrier Avenue
Baton Rouge, LA 70808
LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING
DOAS RISERS

SHEET NUMBER:
M4.400

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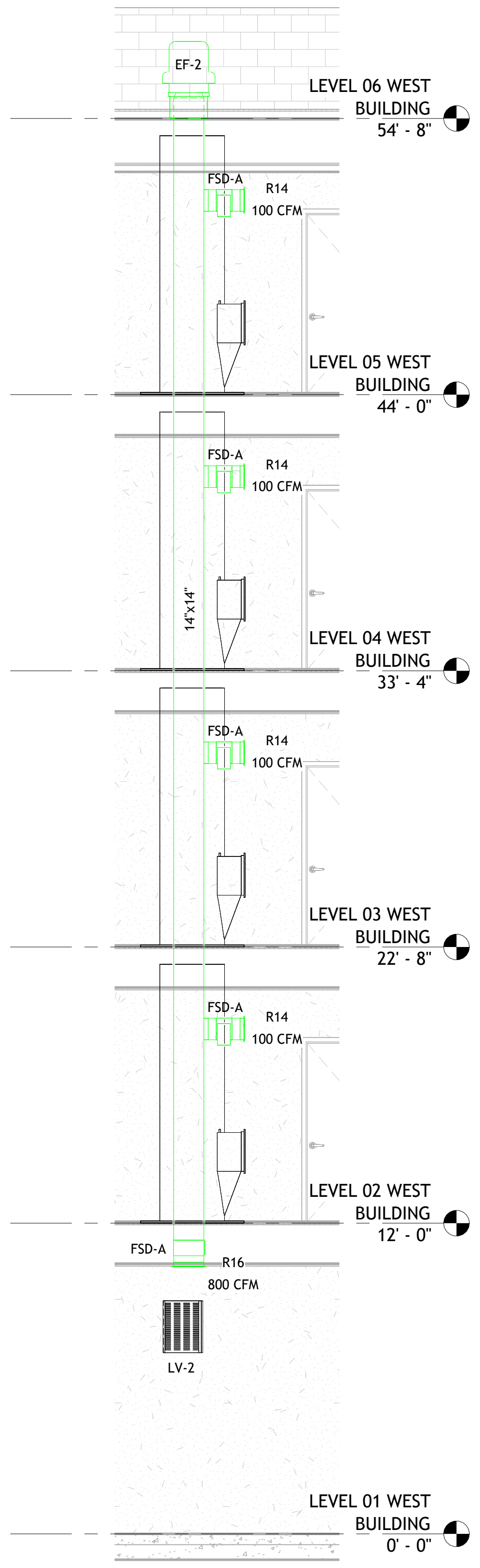
EF-2
LEVEL 06 WEST BUILDING 54' - 8"
FSD-A
R14
100 CFM
LEVEL 05 WEST BUILDING 44' - 0"
FSD-A
R14
100 CFM
14"x14"
LEVEL 04 WEST BUILDING 33' - 4"
FSD-A
R14
100 CFM
LEVEL 03 WEST BUILDING 22' - 8"
FSD-A
R14
100 CFM
LEVEL 02 WEST BUILDING 12' - 0"
FSD-A
R16
800 CFM
LV-2
LEVEL 01 WEST BUILDING 0' - 0"

① WEST TRASH RISER
1/4" = 1'-0"

9/30/2026 2:10:48 PM

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PROJECT # : 26032
DRAWN BY: Author
CHECKED BY: Checker

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No.	Description	Date

Rambler Baton Rouge
4076 Gourrier Avenue
Baton Rouge, LA 70808
LV COLLECTIVE

DD SET
9/30/2026

SHEET TITLE:
WEST BUILDING TRASH EXHAUST RISER

SHEET NUMBER:
M4.401

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