

**MECHANICAL ABBREVIATIONS**

ABV	ABOVE
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
D	DEGREE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
E/A	EXHAUST AIR
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EW	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FL	FLOOR
FFM	FEET PER MINUTE
FT	FOOT/FEET
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HTG	HEATING
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LB/HR	POUNDS PER HOUR
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
Ø	ROUND
O/A	OUTSIDE AIR
PD	PRESSURE DROP
PLBG	PLUMBING
PWR	POWER
R	DUCT RISER
R/A	RETURN AIR
RE	RETURN/EXHAUST FAN
RH	RELATIVE HUMIDITY
RLA	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S/A	SUPPLY AIR
SF	SQUARE FOOT
SP	STATIC PRESSURE
STM	STEAM
T	THERMOSTAT
TD	TEMPERATURE DROP
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
WB	WET BULB

**MECHANICAL SYMBOL LEGEND**

**DUCTWORK**

	SQ. DUCT SIZE (WIDTH X HEIGHT)
	OVAL DUCT SIZE (WIDTH / HEIGHT)
	ROUND DUCT SIZE (DIAMETER)
	EXISTING DUCT TO REMAIN
	DUCT TO BE DEMOLISHED
	SUPPLY AIR
	OUTDOOR AIR
	RETURN AIR
	GENERAL EXHAUST AIR
	KITCHEN EXHAUST DUCT
	LABORATORY FUME EXHAUST
	FLUE GAS VENT
	RECT. SUPPLY DUCT RISE / DROP
	ROUND SUPPLY DUCT RISE / DROP
	RECT. RETURN DUCT RISE / DROP
	ROUND RETURN DUCT RISE / DROP
	RECT. EXHAUST DUCT RISE / DROP
	ROUND EXHAUST DUCT RISE / DROP

**DIFFUSER/GRILLES**

	TYPE (SEE SCHEDULE)
	→ AIRFLOW
	→ NECK SIZE / MODULE SIZE
	→ AIRFLOW
	→ NECK SIZE
	→ TYPE COUNT FOR SPACE
	→ AIRFLOW
	→ NECK SIZE / SLOT(S) / ACTIVE LENGTH
	→ AIRFLOW
	→ NECK SIZE / MODULE SIZE

**MECHANICAL EQUIPMENT**

	UNIT IDENTITY
	EXISTING TO REMAIN EQUIPMENT
	EXISTING RELOCATED EQUIPMENT

**DUCT ACCESSORIES**

	BALANCING DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	SMOKE DAMPER
	FIRE DAMPER
	COMB. FIRE/SMOKE DAMPER
	DUCT SMOKE DETECTOR

**MECHANICAL DEVICES**

	UNIT IDENTITY
	TEMPERATURE SENSOR
	TEMP/HUMIDITY SENSOR
	TEMP/CO2 SENSOR
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	NITROGEN DIOXIDE DETECTOR

**GENERAL PLAN SYMBOLS**

#	PLAN REVISION NUMBER
#/M-#	DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
Ⓢ	KEYNOTE SYMBOL
?	CONTINUATION SYMBOL
⊕	POINT WHERE NEW CONNECTS TO EXISTING
ROOM 001	ROOM NAME / NUMBER
	AREA BEING DEMOLISHED
	AREA NOT IN CONTRACT

**MECHANICAL GENERAL NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. MECHANICAL PLANS ARE GENERAL, DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND INTERIOR DESIGNER PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PROVIDE OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS AS MAY BE NECESSARY TO FIT ACTUAL SPACE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
- THE OWNER, OPERATOR, ARCHITECT NOR ENGINEER ARE RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS, MEANS AND METHODS, WORK TECHNIQUES, CONSTRUCTION SEQUENCE, OR PROCEDURES REQUIRED TO COMPLETE THE WORK.
- COORDINATE WITH ELECTRICAL, PLUMBING, STRUCTURAL, FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE MECHANICAL SYSTEM(S) AS DETAILED ON THE DRAWINGS AND SPECIFICATIONS. WORK CONSISTS OF PROVIDING ALL MATERIALS, EQUIPMENT, APPURTENANCES, ETC. REQUIRED FOR A COMPLETE SYSTEM(S). INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIALS, LABOR, PERMITS, SERVICES, ETC. NECESSARY TO MAKE WORK COMPLETE AND READY FOR OPERATION. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND REPORTING CONFLICTS TO THE ENGINEER BEFORE BIDDING. ANY CHANGES RESULTING FROM CONFLICTS IN THE FIELD, WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION, ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIATED WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTING, ETC.
- CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, CONTROLS AND ACCESSORIES COORDINATED WITH ALL TRADES AT ONE TIME, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).
- COORDINATE EXACT LOCATION OF ALL DIFFUSERS AND RETURNS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED MECHANICAL EQUIPMENT. PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, CONTROLLERS, CO2 SENSORS, AND HUMIDITY SENSORS ABOVE FINISHED FLOOR AS PER ACCESSIBILITY CODE SECTION 5 REQUIREMENT 5. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO PURCHASING/INSTALLATION.
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP. REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
- CONTRACTOR SHALL PROVIDE A CERTIFIED TEST & BALANCE REPORT AT COMPLETION OF PROJECT PRIOR TO FINAL INSPECTION. IT SHALL BE DONE BY AN INDEPENDENT COMPANY FOR ALL MECHANICAL EQUIPMENT, AIR AND WATER DEVICES, DAMPERS, AND ANY AIR MOVING SYSTEMS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE ASHRAE OR NEBS STANDARDS AND PROCEDURES AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLES, EVAPORATORS, ENERGY RECOVERY UNITS AND ANY TYPE OF HEAT EXCHANGERS. CONTRACTOR SHALL INCLUDE COSTS NECESSARY (PART OF BID) TO MAKE ONE CHANGE IN EACH UNITS SHEAVE, BUSHINGS AND BELTS, BALANCING DAMPERS REQUIRED AND ANY OTHER DEVICES REQUIRED FOR THE CORRECT BALANCE OF THE SYSTEM AS REQUIRED BY THE TAB FIRM.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES FOR ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS GENERATED AS CONSTRUCTION DEBRIS AS A RESULT OF NEW WORK OF THIS PROJECT.
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
- ENGINEER HAS VERIFIED DIMENSIONAL AND PERFORMANCE SUITABILITY OF BASIS-OF-DESIGN EQUIPMENT MANUFACTURERS AS LISTED IN THE EQUIPMENT SCHEDULES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY UNIT PROPOSED TO BE INSTALLED FITS ALL REQUIRED PROJECT DIMENSIONS AND MEETS ALL SCHEDULED OR SPECIFIED PERFORMANCE CRITERIA PRIOR TO BID. ANY ADDITIONAL WORK DUE TO EQUIPMENT OTHER THAN THAT SPECIFIED AS 'BASIS-OF-DESIGN' SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- UNDERCUT DOORS BY 3/4" TO ALLOW RETURN OR EXHAUST AIR FLOW. COORDINATE WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES AROUND EACH INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS IN THE FIELD WITH THE ARCHITECT AND THE OWNER LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

**MECHANICAL GENERAL DUCTWORK NOTES**

- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND DETAILS ON THESE PLANS.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS WITH EXTRACTOR FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE AIR FLOW FOR BALANCED RETURN TRANSFER AIR FLOW. REMOTE CABLE OPERATED DAMPERS SHALL BE PROVIDED IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR OR EQUAL".
- ALL DAMPER CONTROLS SHALL BE ACCESSIBLE.
- ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, SLABS AND CEILINGS SHALL BE WITH AN ACCESSIBLE U.L. LABELED FIRE DAMPER OR WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECS.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE. SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
- SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.
- ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

**MECHANICAL SHEET INDEX**

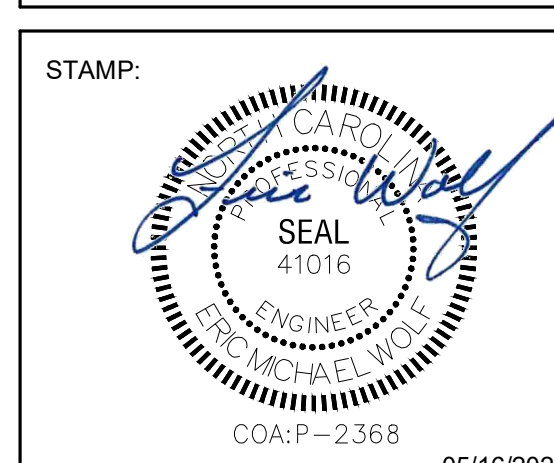
M-001	MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS
M-010	MECHANICAL SPECIFICATIONS
M-011	MECHANICAL SPECIFICATIONS
M-020	MECHANICAL COMPLIANCE FORMS
M-021	MECHANICAL COMPLIANCE FORMS
M-100	HVAC PLAN
M-101	HVAC MEZZANINE AND GARAGE PLAN
M-300	HVAC SCHEDULES
M-400	HVAC DETAILS



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ENGINEER OF RECORD:  
**WOLF ENGINEERING**  
P.O. BOX 38 | DALTON, GA 30722



PROJECT INFORMATION:  
**PLAZA MIDWOOD**  
PROJECT INFORMATION:  
**1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205**

DRAWN BY: TAL  
CHECKED BY: EW  
PROJECT MANAGER: JAH  
SG DESIGN MANAGER: SC  
SG DM CHECKED BY: SC  
SG CONSTR. MANAGER: MC  
PROJECT NO: 20240137.0  
TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET

**MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS**

**M-001**

SECTION 230600 - BASIC MECHANICAL REQUIREMENTS

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 APPLICABLE STANDARDS
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

OF MECHANICAL SYSTEMS, MATERIALS, AND EQUIPMENT. COORDINATE MECHANICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS...

- 3.2 CUTTING AND PATCHING
3.3 PAINTING
3.4 PERFORMANCE
3.5 OPERATING AND MAINTENANCE INSTRUCTIONS
3.6 FINAL INSPECTION
3.7 CLEANING OF SYSTEMS AND PREMISES

- 3.8 PROTECTION
3.9 SAFETY

- 3.10 VIBRATION CONTROL PRODUCTS
3.11 ACCEPTABLE MANUFACTURERS

- 3.12 ACCEPTABLE MANUFACTURERS
3.13 ACCEPTABLE MANUFACTURERS

- 3.14 ACCEPTABLE MANUFACTURERS
3.15 ACCEPTABLE MANUFACTURERS

- 3.16 ACCEPTABLE MANUFACTURERS
3.17 ACCEPTABLE MANUFACTURERS

- 3.18 ACCEPTABLE MANUFACTURERS
3.19 ACCEPTABLE MANUFACTURERS

SECTION 230648 - VIBRATION CONTROLS FOR HVAC

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 APPLICABLE STANDARDS
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.1 APPLICATIONS
3.2 ACCEPTABLE MANUFACTURERS

SECTION 230653 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 APPLICABLE STANDARDS
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.2 MECHANICAL EQUIPMENT IDENTIFICATION
3.3 ACCEPTABLE MANUFACTURERS

SECTION 230700 - MECHANICAL INSULATION

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.1 DUCT AND EQUIPMENT INSULATION APPLICATION SCHEDULE
3.2 ACCEPTABLE MANUFACTURERS

Table with 4 columns: SERVICE, MAX SERVICE TEMP, INSULATION TYPE, INSULATION THICKNESS. Rows include HVAC SUPPLY DUCTWORK, HVAC RETURN DUCTWORK, and HVAC PLENUMS.

- 3.3 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.1 DUCT AND EQUIPMENT INSULATION APPLICATION SCHEDULE

Table with 4 columns: SERVICE, MAX SERVICE TEMP, INSULATION TYPE, INSULATION THICKNESS. Rows include HVAC SUPPLY DUCTWORK, HVAC RETURN DUCTWORK, and HVAC PLENUMS.

- 3.2 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.1 APPLICATIONS
3.2 ACCEPTABLE MANUFACTURERS

SECTION 233113 - METAL DUCTWORK

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

- 1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 SHEET METAL MATERIALS
2.2 SEALING MATERIALS

PART 3 - EXECUTION

- 3.2 DUCT AND FITTING FABRICATION
3.3 ACCEPTABLE MANUFACTURERS

- 3.4 ACCEPTABLE MANUFACTURERS
3.5 ACCEPTABLE MANUFACTURERS

SECTION 233400 - FANS

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS

PART 3 - EXECUTION

- 3.1 DUCT INSTALLATION
3.2 CONNECTIONS
3.3 ACCEPTABLE MANUFACTURERS

SECTION 233900 - DUCTWORK ACCESSORIES

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 DAMPERS AND ACTUATORS

PART 3 - EXECUTION

- 3.1 DAMPERS AND ACTUATORS
3.2 ACCEPTABLE MANUFACTURERS

- 2.3 TURNING VANES
2.4 DUCT HARDWARE AND ACCESS DOORS
2.5 FLEX DUCT

- 3.1 INSTALLATION OF DUCTWORK ACCESSORIES
3.2 ACCEPTABLE MANUFACTURERS

SECTION 233713 - AIR OUTLETS AND INLETS

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK
1.2 QUALITY ASSURANCE
1.3 CONSTRUCTION PERMITS AND INSPECTIONS
1.4 WORKMANSHIP AND QUALIFICATIONS
1.5 SUBMITTALS
1.6 CONSTRUCTION DOCUMENTS

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS

PART 3 - EXECUTION

- 3.1 INSTALLATION - GENERAL
3.2 CONNECTIONS
3.3 ACCEPTABLE MANUFACTURERS

PART 3 - EXECUTION

- 3.1 MECHANICAL INSTALLATIONS

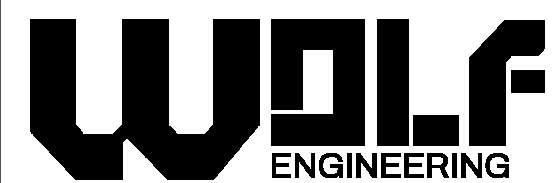


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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



05/16/2025

PROJECT INFORMATION: PLAZA MIDWOOD
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY: TAL
CHECKED BY: EW
PROJECT MANAGER: JAH
SG DESIGN MANAGER: SC
SG DM CHECKED BY: SC
SG CONSTR. MANAGER: MC
PROJECT NO: 20240137.0
TEMPLATE VERSION: 2401

Table with 3 columns: REV., DATE, DESCRIPTION. Rows include permit/health review set, addendum A, addendum C, and IFC SET.

MECHANICAL SPECIFICATIONS

M-010

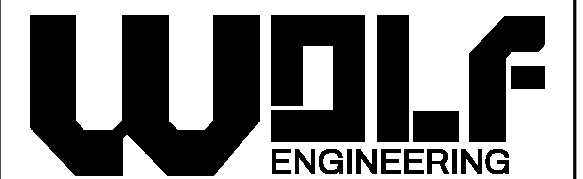


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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



COA:P-2368 05/16/2025

PROJECT INFORMATION:  
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REVISIONS		
REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
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**MECHANICAL  
SPECIFICATIONS**

**M-011**

IN CONFORMANCE WITH APPLICABLE SECTIONS OF ARI 650, ASHRAE 70, AMCA 500 AND NFPA 90A.

**PART 2 - PRODUCTS**

**2.1 DIFFUSERS AND GRILLES**

- A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD CEILING AIR DIFFUSERS AND WALL GRILLES WHERE SHOWN, OF SIZE, SHAPE, CAPACITY AND TYPE INDICATED, CONSTRUCTED OF MATERIALS AND COMPONENTS AS INDICATED, AND AS REQUIRED FOR COMPLETE INSTALLATION.
- B. PERFORMANCE: PROVIDE DIFFUSERS AND GRILLES THAT HAVE, AS MINIMUM, TEMPERATURE AND VELOCITY TRAVERSES, THROW AND DROP, AND NOISE CRITERIA RATINGS FOR EACH SIZE DEVICE AS LISTED IN MANUFACTURER'S CURRENT DATA.
- C. CEILING COMPATIBILITY: PROVIDE DIFFUSERS WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO CEILING MODULE WITH ACCURATE FIT AND ADEQUATE SUPPORT. REFER TO GENERAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR TYPES OF CEILING SYSTEMS WHICH WILL CONTAIN EACH TYPE OF CEILING AIR DIFFUSER.
- D. PROVIDE MOUNTING FRAMES TO ADAPT TO CONSTRUCTION TYPE. WHERE INSTALLED IN HARD CEILINGS OR WALLS, PROVIDE SURFACE MOUNT FRAME BELOW CEILING WITH PERIMETER FLANGE AND GASKET TO SEAL AGAINST CEILING CONSTRUCTION.
- E. WHERE INDICATED, PROVIDE ADJUSTABLE OPPOSED BLADE DAMPER ASSEMBLY, KEY OPERATED FROM FACE OF DIFFUSER.
- F. PROVIDE, WHERE REQUIRED TO PROTECT FIRE RATED CEILING PENETRATIONS, COMBINATION ADJUSTABLE OPPOSED BLADE DAMPER AND FUSIBLE LINK FIRE DAMPER WITH UL APPROVED LINK AND ASSEMBLY DESIGNED TO MEET REQUIREMENTS OF NFPA 90A.
- G. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EQUIPMENT MANUFACTURED BY KRUEGER MFG. CO.; TITUS PRODUCTS CO.; TUTTLE & BAILEY CORP.; OR APPROVED EQUIVALENT.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. GENERAL: INSTALL AIR OUTLETS AND INLETS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE THAT PRODUCTS SERVE INTENDED FUNCTIONS.
- B. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK AND DUCT ACCESSORIES, AS NECESSARY TO INTERFACE INSTALLATION OF AIR OUTLETS AND INLETS WITH OTHER WORK.
- C. LOCATE CEILING AIR DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON GENERAL CONSTRUCTION "REFLECTED CEILING PLANS". UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING MODULES.

**SECTION 238900 - TESTING, ADJUSTING, AND BALANCING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION OF WORK**

- A. THIS PROJECT SHALL INCLUDE THE REQUIREMENTS AND PROCEDURES FOR TOTAL MECHANICAL SYSTEMS TESTING, ADJUSTING, AND BALANCING. REQUIREMENTS INCLUDE MEASUREMENT AND ESTABLISHMENT OF THE FLUID QUANTITIES OF THE MECHANICAL SYSTEMS AS REQUIRED TO MEET DESIGN SPECIFICATIONS, AND RECORDING AND REPORTING THE RESULTS. WORK INCLUDES TESTING, ADJUSTING AND BALANCING THE SUPPLY AIR SYSTEMS, RETURN AIR SYSTEMS, EXHAUST AIR SYSTEMS, AND VERIFYING THE TEMPERATURE CONTROL SYSTEM OPERATION.
- B. SYSTEMS/DEVICES TO BE BALANCED INCLUDE THE FOLLOWING:
  1. ALL AIR DEVICES, INCLUDING ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.
  2. ALL NEW EXHAUST FANS.
  3. ALL ROOFTOP UNITS, INCLUDING TOTAL SUPPLY AIR, RETURN AIR AND OUTDOOR AIR.
- 1.2 QUALITY ASSURANCE
  - A. AGENCY QUALIFICATIONS: EMPLOY THE SERVICES OF AN INDEPENDENT TESTING, ADJUSTING, AND BALANCING AGENCY MEETING THE QUALIFICATIONS SPECIFIED BELOW, TO BE THE SINGLE SOURCE OF RESPONSIBILITY TO TEST, ADJUST, AND BALANCE THE BUILDING MECHANICAL SYSTEMS IDENTIFIED ABOVE, TO PRODUCE THE DESIGN OBJECTIVES. SERVICES SHALL INCLUDE CHECKING INSTALLATIONS FOR CONFORMITY TO DESIGN, MEASUREMENT AND ESTABLISHMENT OF THE FLUID QUANTITIES OF THE MECHANICAL SYSTEMS AS REQUIRED TO MEET DESIGN SPECIFICATIONS, AND RECORDING AND REPORTING THE RESULTS.
    1. THE INDEPENDENT TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) IN THOSE TESTING AND BALANCING DISCIPLINES REQUIRED FOR THIS PROJECT, AND HAVING AT LEAST ONE PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE SERVICES ARE TO BE PERFORMED, CERTIFIED BY AABC OR NEBB AS A TEST AND BALANCE ENGINEER.
  - B. CODES AND STANDARDS:
    1. NEBB: "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS."
    2. AABC: "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE"
    3. ASHRAE: ASHRAE HANDBOOK, HVAC APPLICATIONS VOLUME, CHAPTER 39, TESTING, ADJUSTING, AND BALANCING.

**PART 3 - EXECUTION**

**3.1 INITIAL BASELINE TESTING**

- A. PRIOR TO THE START OF CONSTRUCTION, PERFORM A BASELINE TEST TO DETERMINE THE EXISTING CONDITIONS OF ALL SYSTEMS SERVING THE AREA OF CONSTRUCTION WHICH WILL BE MODIFIED AS A RESULT OF THE PROJECT.
  1. MEASURE AIRFLOW AT EACH INLET AND OUTLET.
  2. MEASURE TOTAL AIRFLOW AT FAN DISCHARGE BY PITOT TUBE.
  3. MEASURE VOLTAGE AND AMPERAGE OF ALL SYSTEM MOTORS.
- B. RECORD OPERATING CONDITIONS AND PROVIDE REPORT TO THE OWNER AND ENGINEER, SPECIFICALLY NOTING ANY DEFICIENCIES WHICH MAY IMPACT THE SUCCESSFUL COMPLETION OF THIS PROJECT.

**3.2 PERFORMING TESTING, ADJUSTING, AND BALANCING**

- A. EXAMINATION: BEFORE COMMENCING TESTS, VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE. ENSURE THE FOLLOWING:
  1. EQUIPMENT IS OPERABLE AND IN SAFE AND NORMAL CONDITION.
  2. TEMPERATURE CONTROL SYSTEMS ARE INSTALLED COMPLETE AND OPERABLE.
  3. PROPER THERMAL OVERLOAD PROTECTION IS IN PLACE AND OPEN.
  4. DUCT SYSTEMS ARE CLEAN OF DEBRIS.
  5. FIRE AND VOLUME DAMPERS ARE IN PLACE AND OPEN.
  6. ACCESS DOORS ARE CLOSED AND DUCT END CAPS ARE IN PLACE.
  7. AIR OUTLETS ARE INSTALLED AND CONNECTED.
  8. DUCT SYSTEM LEAKAGE HAS BEEN MINIMIZED.
- B. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM IDENTIFIED, IN ACCORDANCE WITH THE DETAILED PROCEDURES OUTLINED IN THE REFERENCED STANDARDS.
- C. CUT INSULATION, DUCTWORK, AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. PATCH INSULATION, DUCTWORK, AND HOUSINGS, USING MATERIALS IDENTICAL TO THOSE REMOVED. SEAL INSULATION TO RE-ESTABLISH INTEGRITY OF THE VAPOR BARRIER.
- D. MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS. MARK WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIALS.
- E. TESTING AND BALANCING OF THE MECHANICAL SYSTEMS TO BE COMPLETED BY NATIONAL TAB AT THE GENERAL CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CONTRACT WITH, SCHEDULE, AND SUPERVISE/ASSIST NATIONAL TAB AS REQUIRED. CONTACT SWEETGREEN'S CONSTRUCTION MANAGER FOR CONTACT INFORMATION.

**3.3 RECORD AND REPORT DATA**

- A. PREPARE TEST AND BALANCE REPORT AND SUBMIT ONE (1) COPY TO THE ENGINEER AND ONE (1) COPY TO THE OWNER'S REPRESENTATIVE. REPORT SHALL BE STANDARD NEBB OR AABC FORMAT.
- B. AIR BALANCE AND ADJUSTING
  1. SUPPLY AIR SYSTEMS INSTALLED IN FINISHED AREAS OF THE BUILDING SHALL BE BALANCED AND ADJUSTED AS FOLLOWS:
    - A. AFTER DUCT SYSTEMS HAVE BEEN INSTALLED COMPLETE WITH ALL VAV BOXES, TERMINAL DEVICES, GRILLES, DAMPERS, DUCTS, COILS, AND OTHER ITEMS HEREINAFTER SPECIFIED THE CONTRACTOR SHALL MAKE ADJUSTMENTS, AS REQUIRED, TO DELIVER THE VOLUME OF AIR AT EACH AIR OUTLET WITHIN 5% OF DESIGN FLOW AS SHOWN ON THE DRAWINGS. AFTER THE FINISHED AREA IS OCCUPIED, THE AIR VOLUMES SHALL BE READJUSTED, IF REQUIRED, TO PROPERLY BALANCE THE COOLING AND HEATING LOADS THROUGHOUT THE CONDITIONED AREAS.
    - B. AIR OUTLETS SHALL BE BALANCED WITH AIR PATTERN AS SHOWN ON THE DRAWINGS.
  2. ALL BALANCING MUST BE ACCOMPLISHED WITH DIFFUSER AIR PATTERNS AS INDICATED ON THE DRAWINGS.
  3. THE CONTRACTOR SHALL SUBMIT DETAILED BALANCING PROCEDURES AND RECORDING FORMS FOR THE ENGINEER'S REVIEW, PRIOR TO COMMENCING ANY AIR BALANCE WORK.
- C. FINAL AIR BALANCE READINGS.
  1. AFTER AIR FLOW ARE BALANCED, AND WITH THE TEMPERATURE CONTROLS SET TO PRODUCE DESIGN COOLING, MEASURE AND RECORD ALL DATA NECESSARY TO COMPLETE A COMPLETE REPORT TO DEMONSTRATE THE ACCEPTABILITY OF THE VARIOUS MECHANICAL SYSTEMS. INCLUDE AT LEAST THE FOLLOWING DATA IN THE REPORT:
    - A. OUTSIDE DRY BULB AND WET BULB TEMPERATURE.
    - B. INSIDE DRY BULB AND WET BULB TEMPERATURES IN SIX SELECTED AREAS OF THE CONDITIONED SPACE, ROOM OR AREA SELECTED BY THE ENGINEER.
    - C. DRY BULB TEMPERATURES OF AIR ENTERING AND LEAVING ALL COILS.
    - D. TEMPERATURE OF WATER ENTERING AND LEAVING EACH WATER COIL.
  2. THE BALANCED POSITION OF EACH CONTROLLING VALVE AND DAMPER SHALL BE PERMANENTLY MARKED ON THE PIPE, INSULATION, OR DUCTWORK.
- D. TEMPERATURE CONTROL ADJUSTING.
  1. AUTOMATIC TEMPERATURE CONTROLS SHALL BE CALIBRATED AND ALL THERMOSTATS, DAMPERS, ETC., ADJUSTED SO THAT CONTROL SYSTEM IS IN THE PROPER OPERATING CONDITION, SUBJECT TO REVIEW BY THE ENGINEER.
- F. FINAL REPORT
  1. SUBMIT PDF AND SIX (6) COPIES OF COMPLETE REPORTS TO THE ARCHITECT.

COMcheck Software Version COMcheckWeb  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
 Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC)  
 Location: Charlotte, North Carolina  
 Climate Zone: 3a  
 Project Type: Alteration

Construction Site: 1600 Central Ave, Charlotte, North Carolina 28205  
 Owner/Agent: Sweetgreen, 3101 W. Exposition Blvd, Los Angeles, California 90018  
 Designer/Contractor: Wolf Engineering, PO Box 38, Dalton, Georgia 30721

**Mechanical Systems List**

**Quantity System Type & Description**

- AHUHP-1 (Single Zone):  
 Split System Heat Pump  
 Heating Mode: Capacity = 26 kBtu/h,  
 Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF  
 Cooling Mode: Capacity = 23 kBtu/h,  
 Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER  
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
 Fans:  
 FAN 1 Supply, Single-Zone VAV, 800 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= 5HP
- AHUHP-2,3,4 (Single Zone):  
 Split System Heat Pump  
 Heating Mode: Capacity = 46 kBtu/h,  
 Proposed Efficiency = 8.50 HSPF, Required Efficiency = 8.20 HSPF  
 Cooling Mode: Capacity = 46 kBtu/h,  
 Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER  
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
 Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
 Fans:  
 FAN 2 Supply, Single-Zone VAV, 1520 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= 5HP
- GWH-1:  
 Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 120 kBtu/h w/ Circulation Pump  
 Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et

**Mechanical Compliance Statement**

*Compliance Statement:* The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Eric Wolf, PE  
 Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
 Data filename: \_\_\_\_\_ Page 1 of 8

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9]	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.

**Additional Comments/Assumptions:**

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
 Data filename: \_\_\_\_\_ Page 3 of 8

COMcheck Software Version COMcheckWeb  
**Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 75.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR3]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
 Data filename: \_\_\_\_\_ Page 2 of 8

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C404.7 [PL8]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
 Data filename: \_\_\_\_\_ Page 4 of 8

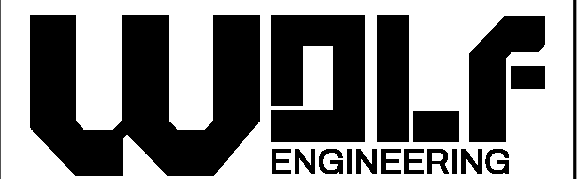


**sweetgreen**

3102 WEST 36TH STREET  
 LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



COA:P-2368 05/16/2025

PROJECT INFORMATION:  
**PLAZA MIDWOOD**  
 PROJECT INFORMATION:  
**1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205**

DRAWN BY: TAL  
 CHECKED BY: EW  
 PROJECT MANAGER: JAH  
 SG DESIGN MANAGER: SC  
 SG DM CHECKED BY: SC  
 SG CONSTR. MANAGER: MC  
 PROJECT NO: 20240137.0  
 TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET

**MECHANICAL COMPLIANCE FORMS**

**M-020**

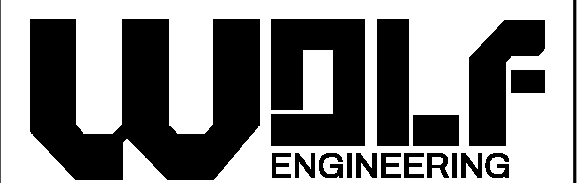


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3102 WEST 36TH STREET  
LOS ANGELES, CALIFORNIA 90018

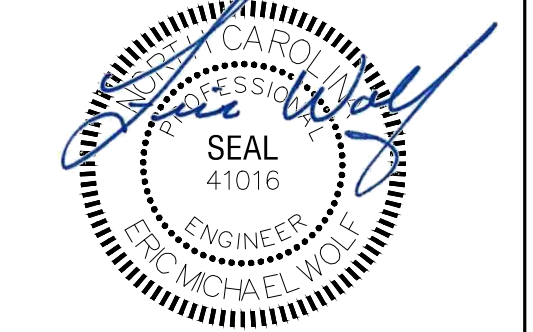
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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



COA:P-2368 05/16/2025

PROJECT INFORMATION:  
PLAZA MIDWOOD

PROJECT INFORMATION:  
1710 COMMONWEALTH AVE.,  
SUITE 123  
CHARLOTTE, NC 28205

DRAWN BY: TAL  
CHECKED BY: EW  
PROJECT MANAGER: JAH  
SG DESIGN MANAGER: SC  
SG DM CHECKED BY: SC  
SG CONSTR. MANAGER: MC  
PROJECT NO: 20240137.0  
TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET

MECHANICAL COMPLIANCE FORMS

M-021

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME11]P	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq$ R-3.5.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.13 [ME71]P	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.6.1 [ME59]P	Demand control ventilation provided for spaces $>500$ ft <sup>2</sup> and $\geq 25$ people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow $>3,000$ cfm.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Systems with design outdoor air of less than 1200 cfm.
C403.2.6.2 [ME115]P	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.7 [ME57]P	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.8 [ME116]P	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.9 [ME60]P	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.9 [ME10]P	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.9.1.3 [ME11]P	Ductwork operating $>3$ in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.2.3.2.1 [ME121]P	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit towers within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.4.4.6 [ME110]P	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply. See the Mechanical Systems list for values.

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
Data filename: Page 5 of 8

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C404.2.1 [ME111]P	Gas-fired water-heating equipment installed in new buildings where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency $\geq 90$ Et. Where multiple pieces of water-heating equipment serve the building with combined rating $\geq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency $\geq 90$ Et. Exclude input rating of equipment in individual dwelling units and equipment $\leq 100$ kBtu/h.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2.1 [ME53]P	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.1 [ME123]P	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
Data filename: Page 6 of 8

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [F18]P	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [F127]P	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147]P	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.1 [F142]P	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.2 [F138]P	Thermostatic controls have a 5°F deadband.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120]P	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139]P	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.4.2.1, C403.2.4.2.2 [F140]P	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.3 [F141]P	Systems include optimum start controls.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 [F111]P	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C404.4 [F125]P	All piping insulated in accordance with section details and Table C403.2.10.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1 [F112]P	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
Data filename: Page 7 of 8

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [F128]P	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1 [F131]P	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.2 [F110]P	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.4 [F129]P	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F17]P	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [F143]P	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.4 [F130]P	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC) Report date: 12/10/24  
Data filename: Page 8 of 8

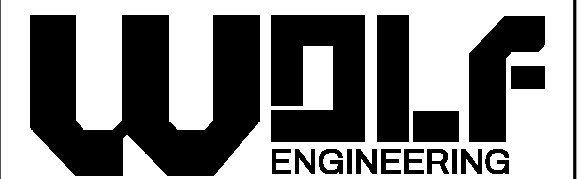


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LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



COA: P-2368 05/16/2025

PROJECT INFORMATION:  
**PLAZA MIDWOOD**

PROJECT INFORMATION:  
**1710 COMMONWEALTH AVE.,  
SUITE 123  
CHARLOTTE, NC 28205**

DRAWN BY: TAL  
CHECKED BY: EW  
PROJECT MANAGER: JAH  
SG DESIGN MANAGER: SC  
SG DM CHECKED BY: SC  
SG CONSTR. MANAGER: MC  
PROJECT NO: 20240137.0  
TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	01/02/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET

HVAC PLAN

M-100

GENERAL NOTES

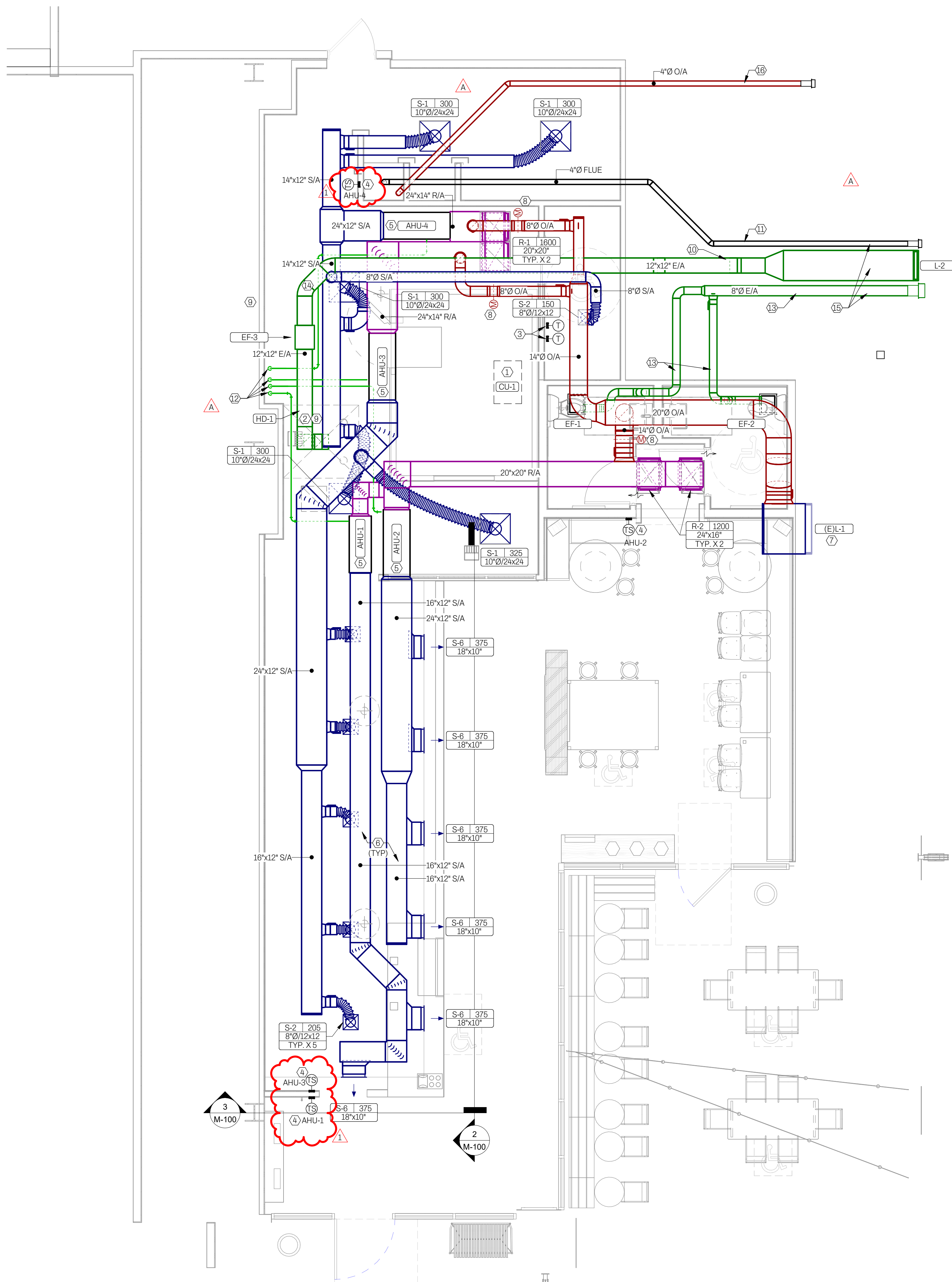
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- B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.
- C. DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO OWNER.
- D. LOCATE THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
- E. NO EXPOSED DUCTWORK SHALL BE PERMITTED. COORDINATE WITH AOR AS REQUIRED.

KEY NOTES

1. NEW CONDENSATOR FOR WALK-IN COOLER LOCATED ABOVE COOLER. COORDINATE EXACT LOCATION IN FIELD.
2. PROVIDE EXHAUST GRILLE OVER KIT CHEN CANOPY HOOD (BY OTHERS). DUCTING FROM EXHAUST FAN TO GRILLE IS SIZED TO ACCOMMODATE THE ADDITION OF A TYPE 2 HOOD IN THE FUTURE. COORDINATE EXACT GRILLE LOCATION WITH ARCHITECT/KITCHEN DESIGN TEAM.
3. PROVIDE THERMOSTATS WHERE INDICATED. INSTALL AT 48" ABOVE FINISHED FLOOR. COORDINATE WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT ACCESS IS NOT BLOCKED.
4. INSTALL TEMPERATURE SENSOR FOR RTU WHERE INDICATED. COORDINATE WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
5. CONTRACTOR SHALL FURNISH AND INSTALL REME HALO AIR PURIFICATION SYSTEM IN SUPPLY AIR DUCT AND REQUIRED TRANSFORMER PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL FURNISH THROUGH NATIONAL ACCOUNT AND INSTALL. NATIONAL ACCO: NATIONAL TAB CONTACT - WILL TURNBOUGH. PHONE (855)682-8822. EXT. 42. EMAIL - WILL@NATIONALTAB.COM.
6. PROVIDE EQUAL SPACING BETWEEN DIFFUSERS AND LIGHTING IN SOFFIT. COORDINATE EXACT LOCATIONS WITH CONTRACTOR.
7. EXISTING LOUVER TO REMAIN. BLOCKOUT UNUSED PART OF LOUVER FROM INSIDE AND INSULATE ACCORDINGLY. PROVIDE 2'-0" MINIMUM FULL SIZED PLENUM FOR O/A.
8. PROVIDE MOTORIZED DAMPER SHALL INTERLOCK WITH AHU PER NECECC D403 2.4.3.
9. CONTRACTOR SHALL FURNISH EF-3 AND HD-1 THROUGH NATIONAL ACCOUNT. CONTRACTOR SHALL INSTALL INLINE EXHAUST FAN, EF-3, AND INTERLOCK WITH HOOD, HD-1. REFER TO SCHEDULE ON SHEET M-300 FOR ADDITIONAL DETAILS.
10. ROUTE HOOD EXHAUST HIGH IN FIRE COMMAND ROOM, AS SHOWN. COORDINATE ROUTING WITH ALL ELEMENTS WITHIN THE EXTENTS OF THIS ROOM. SEAL ALL PENETRATIONS IN FIRE RATED PARTITIONS AND PROVIDE WITH 12" STEEL SLEEVE WHERE PENETRATING FIRE RATED WALL AS REQUIRED BY FIRE CODE. DUCT SHALL BE FIRE WRAPPED AND CONSTRUCTED OF STEEL NOT LESS THAN 0.0217 INCHES IN THICKNESS FOR ENTIRE LENGTH.
11. ROUTE WATER HEATER FLUE HIGH IN FIRE COMMAND ROOM, AS SHOWN. COORDINATE ROUTING WITH ALL ELEMENTS WITHIN THE EXTENTS OF THIS ROOM. SEAL ALL PENETRATIONS IN FIRE RATED PARTITIONS AND PROVIDE WITH 12" STEEL SLEEVE WHERE PENETRATING FIRE RATED WALL AS REQUIRED BY FIRE CODE. DUCT SHALL BE FIRE WRAPPED AND CONSTRUCTED OF STEEL NOT LESS THAN 0.0217 INCHES IN THICKNESS FOR ENTIRE LENGTH. TERMINATE AT EXHAUST WALL CAP WITH METAL MESH INSECT SCREEN. WRAPPING OR INSULATING FLUE SHALL BE IN ACCORDANCE W. THE WATER HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
12. ROUTE AHU CONDENSATE DOWN THROUGH WALL TO FLOOR SINK BELOW COMBI-OVEN AS SHOWN. FIELD COORDINATE EXACT ROUTING.
13. ROUTE RESTROOM EXHAUST HIGH IN FIRE COMMAND ROOM, AS SHOWN. COORDINATE ROUTING WITH ALL ELEMENTS WITHIN THE EXTENTS OF THIS ROOM. SEAL ALL PENETRATIONS IN FIRE RATED PARTITIONS AND PROVIDE WITH 12" STEEL SLEEVE WHERE PENETRATING FIRE RATED WALL AS REQUIRED BY FIRE CODE. DUCT SHALL BE FIRE WRAPPED AND CONSTRUCTED OF STEEL NOT LESS THAN 0.0217 INCHES IN THICKNESS FOR ENTIRE LENGTH. MAINTAIN 10' FROM INTAKE LOUVER. TERMINATE AT EXHAUST WALL CAP.
14. PROVIDE CLEAN SWEEP TRANSITION WITH CLEANOUT ON END.

KEY NOTES (CONTINUED)

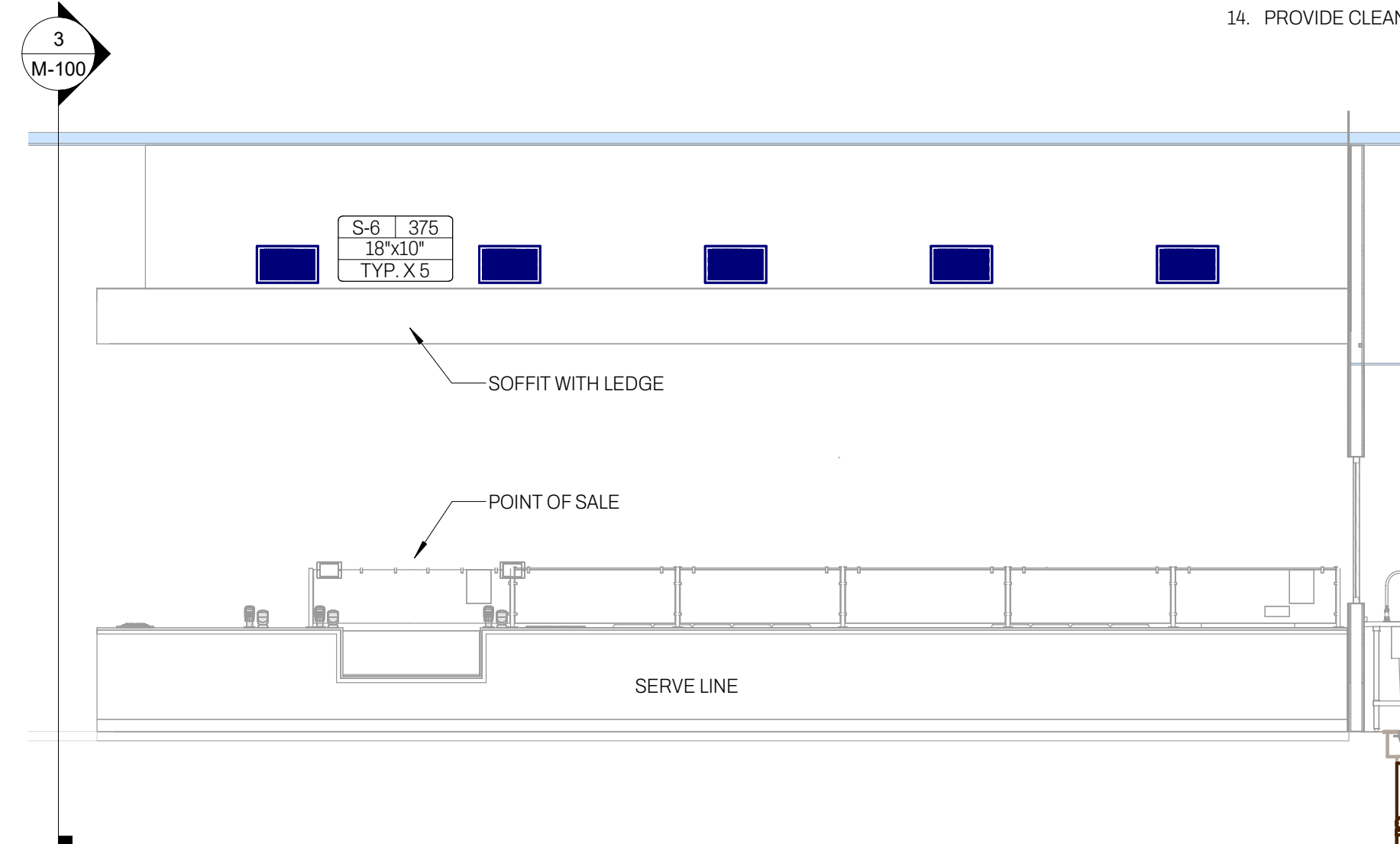
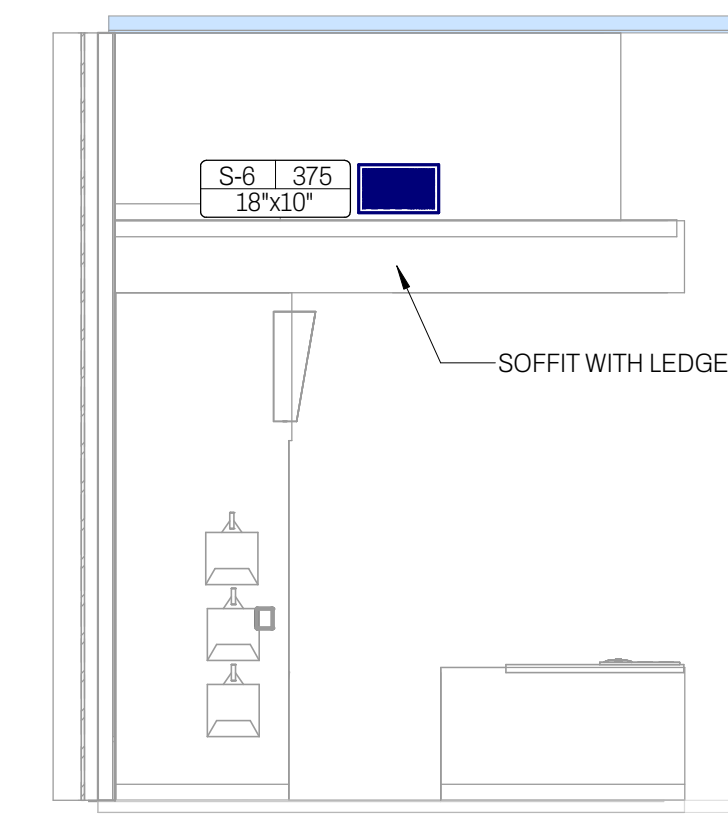
15. ROUTE AND EXTEND FLUE FOR WATER HEATER, HOOD EXHAUST, AND RESTROOM EXHAUST DUCTWORK TOGETHER AND TIGHT TO STRUCTURE TO TERMINATE AT FACE OF EXTERIOR WALL ABOVE. CONTRACTOR SHALL COORDINATE WITH LANDLORD EXACT LOCATION OF PENETRATIONS AND SHEATHING REQUIREMENTS.
16. ROUTE WATER HEATER INTAKE AIR HIGH IN FIRE COMMAND ROOM, AS SHOWN. COORDINATE ROUTING WITH ALL ELEMENTS WITHIN THE EXTENTS OF THIS ROOM. SEAL ALL PENETRATIONS IN FIRE RATED PARTITIONS AND PROVIDE WITH 12" STEEL SLEEVE WHERE PENETRATING FIRE RATED WALL AS REQUIRED BY FIRE CODE. DUCT SHALL BE FIRE WRAPPED AND CONSTRUCTED OF STEEL NOT LESS THAN 0.0217 INCHES IN THICKNESS FOR ENTIRE LENGTH. TERMINATE AT INTAKE WALL CAP WITH METAL MESH INSECT SCREEN. MAINTAIN CODE REQUIRED CLEARANCES. CONFIRM ROUTING WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.



1 MECHANICAL - HVAC  
M-100 1/4" = 1'-0"

2 MECHANICAL - SECTION 7  
M-100 1/4" = 1'-0"

3 MECHANICAL - SECTION 8  
M-100 1/4" = 1'-0"



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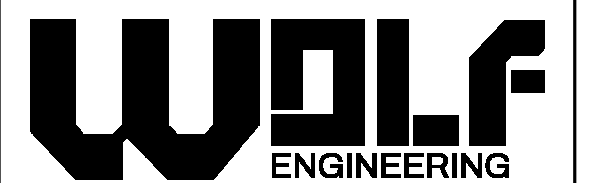


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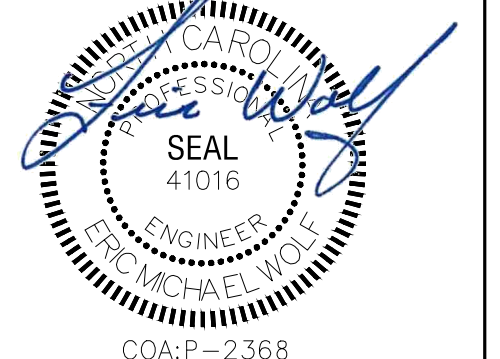
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ENGINEER OF RECORD:



P.O. BOX 38 | DALTON, GA 30722

STAMP:



COA:P-2368 05/16/2025

PROJECT INFORMATION:  
**PLAZA MIDWOOD**  
1710 COMMONWEALTH AVE.,  
SUITE 123  
CHARLOTTE, NC 28205

DRAWN BY: TAL  
CHECKED BY: EW  
PROJECT MANAGER: JAH  
SG DESIGN MANAGER: SC  
SG DM CHECKED BY: SC  
SG CONSTR. MANAGER: MC  
PROJECT NO: 20240137.0  
TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET

**HVAC MEZZANINE AND GARAGE PLAN**

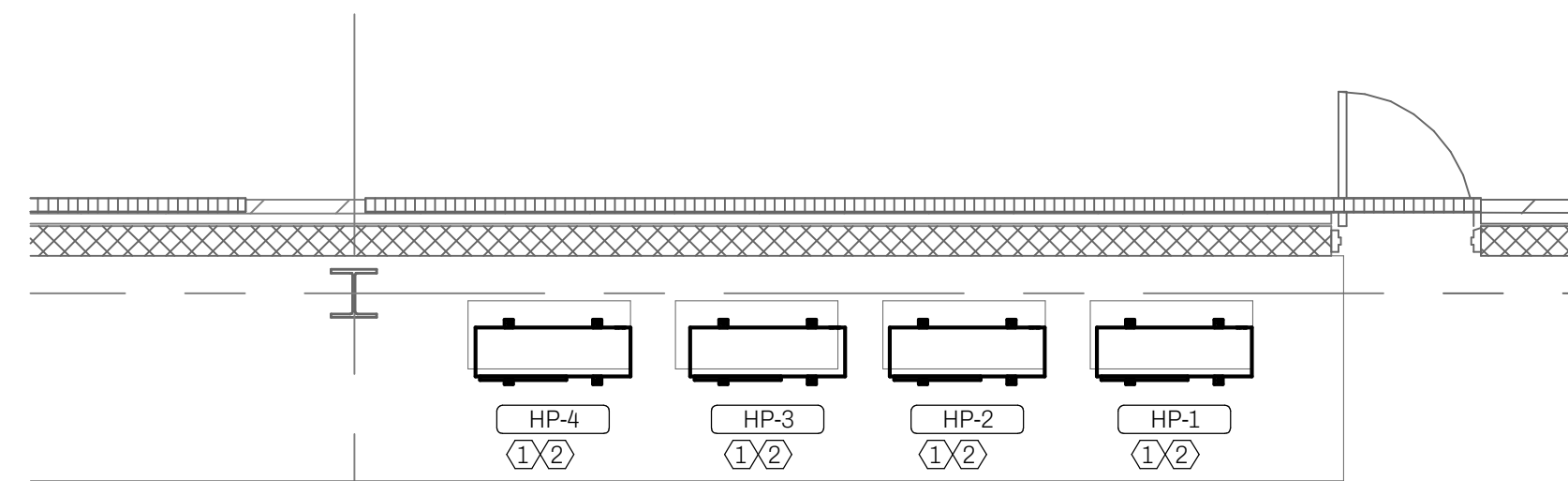
**M-101**

**GENERAL NOTES**

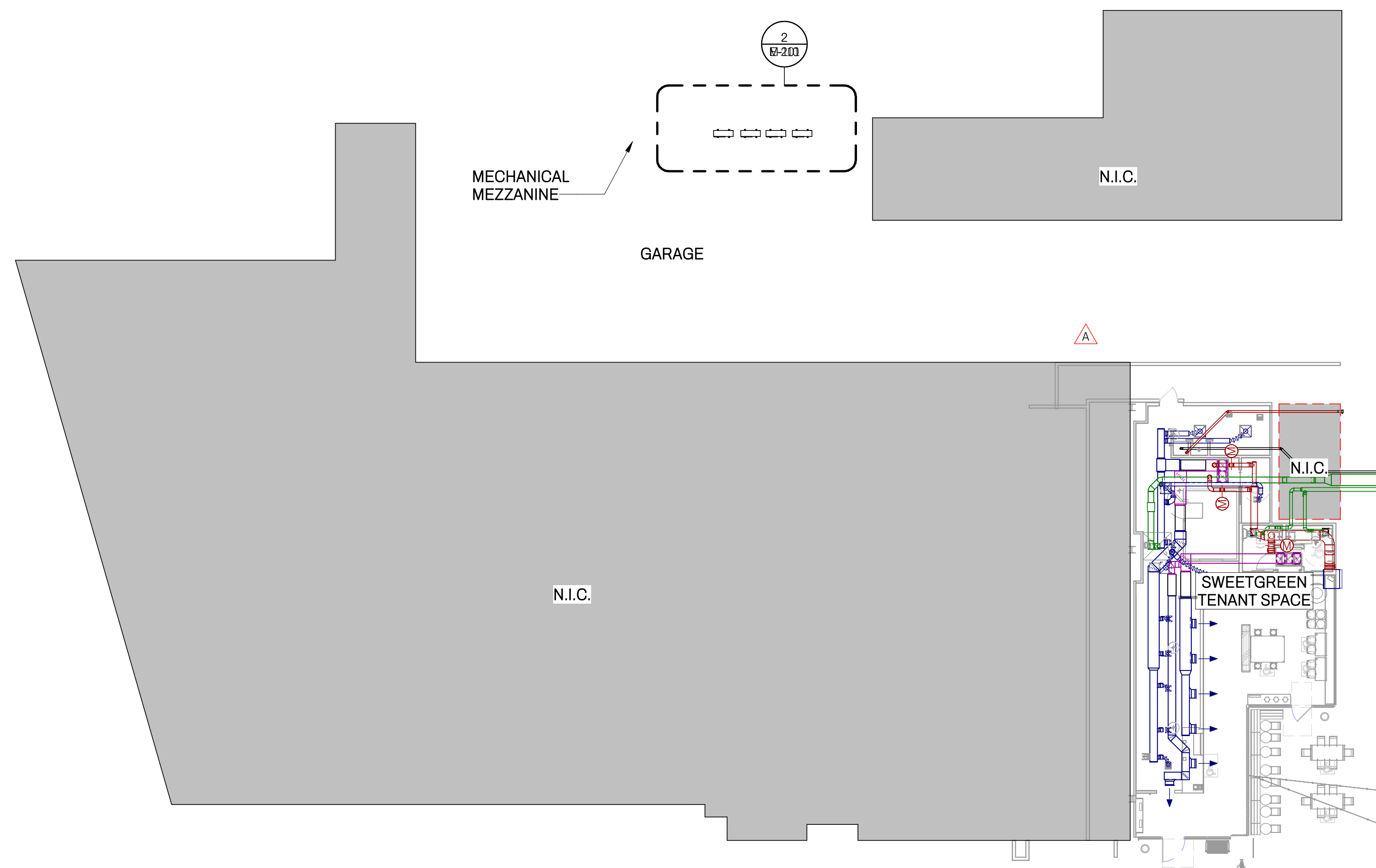
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- D. CONTRACTOR SHALL MAINTAIN 10' CLEARANCE FROM EXHAUST AND PLUMBING VENTS TO OUTSIDE AIR INTAKES. COORDINATE WITH CONTRACTOR FOR EXISTING PLUMBING VENT. VENT PIPING SHALL BE EXTENDED TO TERMINATE 3' ABOVE UNITS TOP ELEVATION.

**KEY NOTES**

- 1. NEW HEAT PUMP FOR TENANT SPACE LOCATED ON MECHANICAL MEZZANINE. COORDINATE EXACT LOCATION OF UNITS ON MEZZANINE WITH LANDLORD AND LANDLORD CONTRACTOR. MAINTAIN MANUFACTURER REQUIRED OPERATING AND SERVICE CLEARANCES.
- 2. MAINTAIN HEAT PUMP SPLIT SYSTEM LINESET LENGTH REQUIREMENTS AND PROVIDE LONG LINESET APPLICATION WHERE NECESSARY. LINESET SHALL BE ROUTED FROM TENANT SPACE, HIGH IN GARAGE TO MECHANICAL MEZZANINE. COORDINATE EXACT ROUTING OF LINESETS IN ACCORDANCE WITH LANDLORD. SEAL ALL FIRE RATED PENETRATIONS ACCORDINGLY.



2 MECHANICAL - HVAC - MECHANICAL MEZZANINE  
M-101 1/4" = 1'-0"



1 MECHANICAL - LEVEL 1 OVERALL HVAC PLAN  
M-101 1/16" = 1'-0"

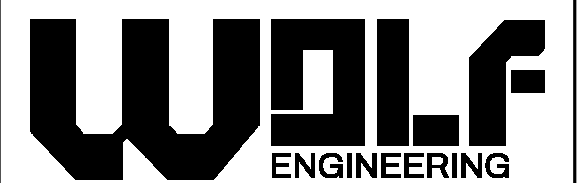


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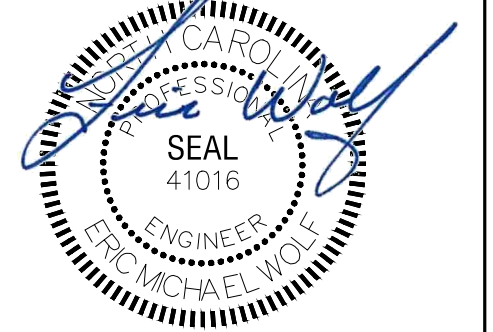
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COA:P-2368 05/16/2025

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PROJECT NO: 20240137.0  
TEMPLATE VERSION: 2401

REVISIONS  
REV. DATE DESCRIPTION  
01/10/2025 PERMIT / HEALTH REVIEW SET  
A 03/17/2025 ADDENDUM A  
C 04/29/2025 ADDENDUM C  
1 05/16/2025 IFC SET

HVAC SCHEDULES

M-300

SPLIT-SYSTEM HEAT PUMP SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, NOMINAL CAPACITY, SERVES, INDOOR UNIT (TOTAL CFM, OA CFM, FAN ESP, MOTOR HP, BACKUP HEAT), OUTDOOR UNIT (MODEL, COOLING (TOTAL, SENSIBLE, SEER2), HEATING (HIGH TEMP, HSPF2), V/PH/Hz, MCA/MOCP), REMARKS.

- REMARKS: 1. EQUIPMENT SHALL BE PROCURED THROUGH A DAIKIN NATIONAL ACCOUNT... 2. PROVIDE HIGH EFFICIENCY R32 CHLORINE-FREE REFRIGERANT TO UNIT... 3. ESP SHOWN DOES NOT INCLUDE PRESSURE DROP THROUGH FILTERS... 4. PROVIDE FACTORY INSTALLED THERMAL EXPANSION VALVE (TXV) AND TIME-DELAY RELAY... 5. PROVIDE INTERNAL DRAIN PAN AND DRAIN PLAN LEVEL SENSOR... 6. PROVIDE UNIT WITH FACTORY FURNISHED DISCONNECT... 7. PROVIDE DRAIN PAN AND DRAIN PLAN LEVEL SENSOR... 8. AUXILIARY HEATER RATING SHOWN AT 240 VOLTS... 9. INSTALL OUTDOOR UNIT ON 4" CONCRETE BASE WITH NEOPRENE PAD ISOLATORS... 10. PROVIDE HONEYWELL TH832 THERMOSTATS WITH LOCKABLE COVERS... 11. PROVIDE COMPRESSOR START ASSIST CAPACITOR AND RELAY... 12. PROVIDE WITH MIXING BOX AND FILTER BOX... 13. PROVIDE WITH DISCHARGE AIR TEMPERATURE DEVICE... 14. PROVIDE UNIT WITH 20 YEAR WARRANTY... \* CONFIRM ALL UNIT DIMENSIONS WITH MANUFACTURER AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DESIGNS.

AIR BALANCE SCHEDULE

Table with columns: MARK, (CFM) SUPPLY AIR, (CFM) RETURN, (CFM) OA, (CFM) EXHAUST, (CFM) TOTAL.

AIR DEVICE SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, DESCRIPTION, FACE SIZE, MATERIAL, MOUNTING STYLE, REMARKS.

- REMARKS: 1. COORDINATE BORDER TYPE AND FINISH WITH ARCHITECT PRIOR TO PURCHASING... 2. MATCH SNAPLOCK AND FLEXIBLE DUCT RUNOUT SIZES AS NOTED ON PLANS... 3. MODULE SIZE INDICATED INCLUDES NOMINAL BORDER SIZE... 4. PROVIDE OPPOSED BLADE MANUAL VOLUME DAMPER FOR AIRFLOW ADJUSTMENT ACCESSIBLE THROUGH GRILLE FACE... 5. PROVIDE FACTORY-FABRICATED TRANSITION BOOT FOR DUCT CONNECTIONS.

MINIMUM VENTILATION CALCULATIONS

Table with columns: UNIT NAME, OCCUPANCY CATEGORY, ZONE FLOOR AREA, ZONE POPULATION (RA), ZONE DENSITY (PZ / 1000 SF), OUTDOOR AIRFLOW RATE PER PERSON (AZ), OUTDOOR AIRFLOW RATE PER AREA (PZ), ZONE AIR DISTRIBUTION EFFECTIVENESS (EZ), BREATHING ZONE OUTDOOR AIRFLOW (VBZ), ZONE OUTDOOR AIR FLOW (VOZ).

WALK-IN COOLER REFRIGERANT CALCULATIONS

Table with rows: CODE: NORTH CAROLINA MECHANICAL CODE 2018, ADOPTS WITH AMENDMENTS: IMC 2015; VOLUME: 928 CU FT; REFRIGERANT TYPE: R448A; REFRIGERANT CLASSIFICATION: A1; REFRIGERANT CHARGE: 9 LBS; HORSEPOWER: 1.5 HP; LOCATION: ON COOLER; SPECIFIED REFRIGERANT DENSITY: 9.7 LBS / 1000 CU FT; MAX. REFRIG. DENSITY PER CODE: 24 LBS / 1000 CU FT; DETECTOR REQUIRED: NO.

EXHAUST FAN SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, TYPE, SERVES, AIRFLOW RATE, ESP, MOTOR (POWER, RPM, DRIVE), MAXIMUM SONES, VOLTAGE, PHASE, FLA, MCA, MOCP, WEIGHT, REMARKS.

- REMARKS: 1. FAN SHALL BE AMCA CERTIFIED AND UL LISTED FOR SOUND AND PERFORMANCE... 2. PROVIDE WITH 3 AMP FAN MOUNTED SPEED CONTROL FOR AIRFLOW ADJUSTMENT... 3. PROVIDE WITH VAV PACKAGE WITH MANUAL CONTROL (VFD FACTORY MOUNTED)... 4. PROVIDE SPRING/NEOPRENE ISOLATION HANGERS... 5. PROVIDE UNIT WITH NAME PLATE TO INCLUDE DESIGNATION AND AREA SERVED BY FAN... 6. PROVIDE MANUFACTURER'S 2 YEAR WARRANTY... 7. INSTALL PER MANUFACTURER'S INSTRUCTIONS... 8. PROVIDE WITH BACKDRAFT DAMPER... 9. PROVIDE WITH ADAPTERS AS NECESSARY TO MAKE DUCT CONNECTIONS... 10. EQUIPMENT SHALL BE PROCURED THROUGH A CAPTIVEAIRE NATIONAL ACCOUNT... TEAM - CONTACT KEVIN BOEHM - REG40@CAPTIVEAIRE.COM

TYPE II HOOD SCHEDULE

Table with columns: MARK, BASIS OF DESIGN (MANUFACTURER, MODEL), TYPE, DESIGN CFM, V/P/H, MAX CFM, SUPPLIER/INSTALLER, WEIGHT (LBS), REMARKS.

- REMARKS: 1. SEE PLANS FOR DUCT SIZE AND ROUTING... 2. HOOD SHALL BE TYPE II, FOR SMELLS, HEAT, AND MOISTURE, INSTALLED BY GC... 3. PROCURED THROUGH NATIONAL ACCOUNT - CONTACT CAPTIVEAIRE FOR INFORMATION - NATIONAL ACCOUNT CONTACT KEVIN BOEHM, AT REG\_40@CAPTIVEAIRE.COM.

CONDENSING UNIT SCHEDULE

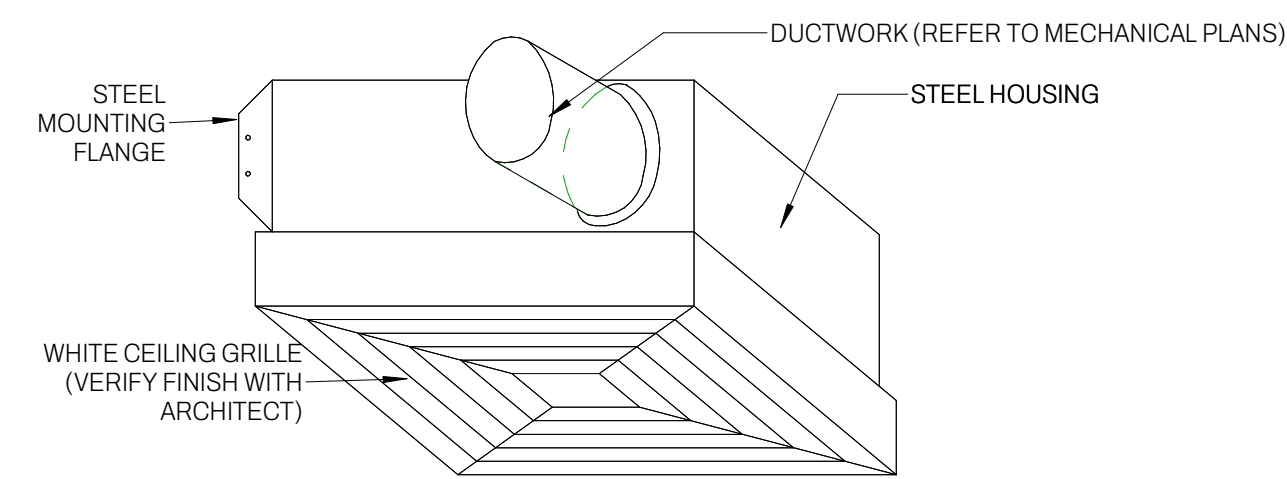
Table with columns: MARK, DESCRIPTION, COMPRESSORS, FURNISHED BY, INSTALLED BY, MANUFACTURER, REMARKS.

- REMARKS: 1. FURNISHED WITH THE WALK-IN COOLER. (BY OTHERS)

EXTERIOR WALL LOUVER SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, DESCRIPTION, NOMINAL SIZE, DEPTH, DESIGN AIRFLOW RATE, DESIGN FREE AREA VELOCITY, MIN. FREE AREA, MAX. PRESSURE DROP, REMARKS.

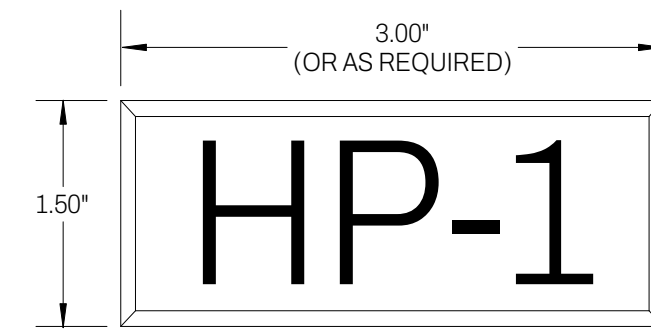
- REMARKS: 1. PROVIDE WITH MINIMUM OF 24" DEEP PLENUM WITH FULL SIZED LOUVER CONNECTION.



**GENERAL NOTES:**

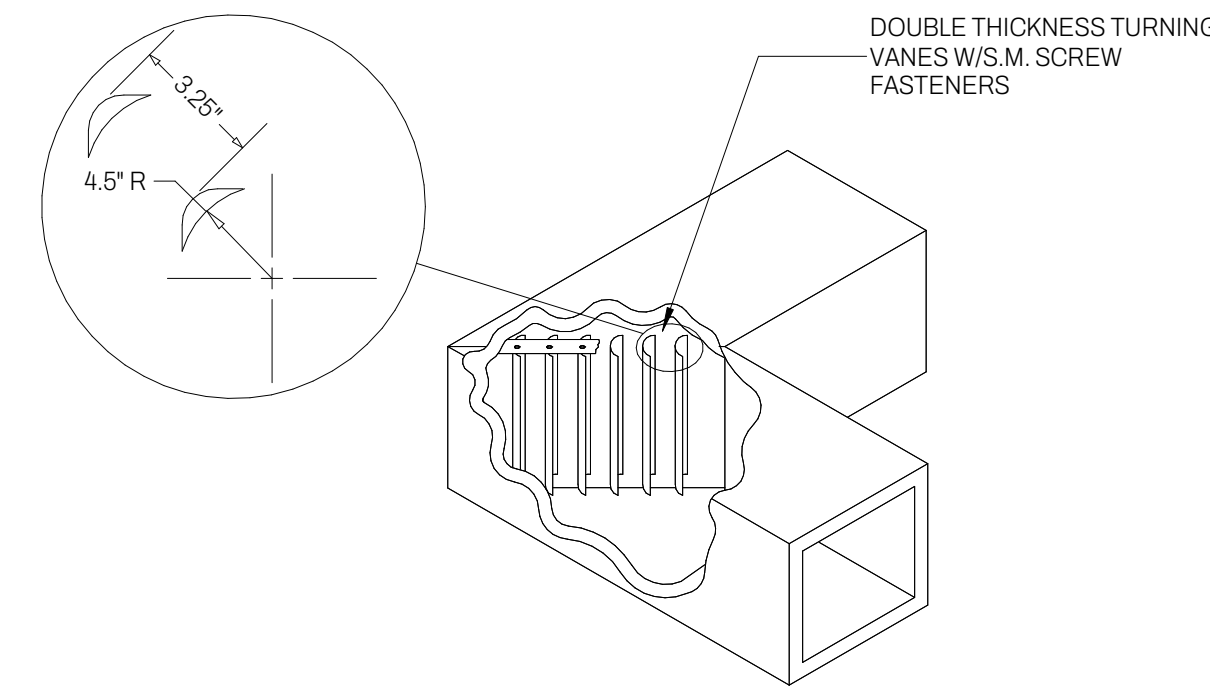
1. PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN.
2. FLASH AND SEAL WALL/ROOF CAP.
3. PROVIDE INTERNAL ISOLATION AND SOUND INSULATION.
4. SUPPORT FAN FROM STRUCTURE.
5. REFER TO FAN SCHEDULE FOR FAN CONTROL.

7 CABINET CEILING EXHAUST FAN  
M-400 NOT TO SCALE

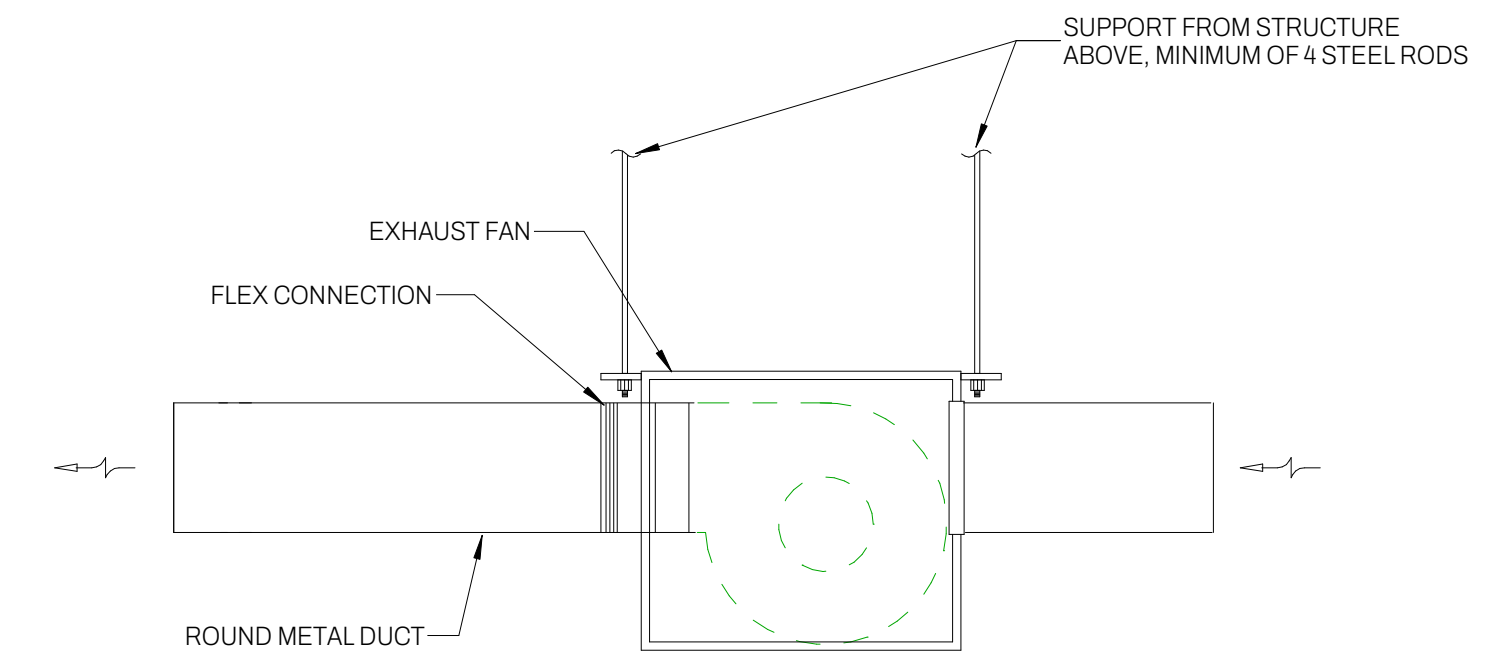


ENGRAVED PLASTIC TAG WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT, WATERPROOF DOUBLE SIDED TAG TAPE AT VISIBLE LOCATION ON MECHANICAL EQUIPMENT. LABEL ALL INDOOR AND OUTDOOR UNITS WITH NOTATION SHOWN ON PLANS.

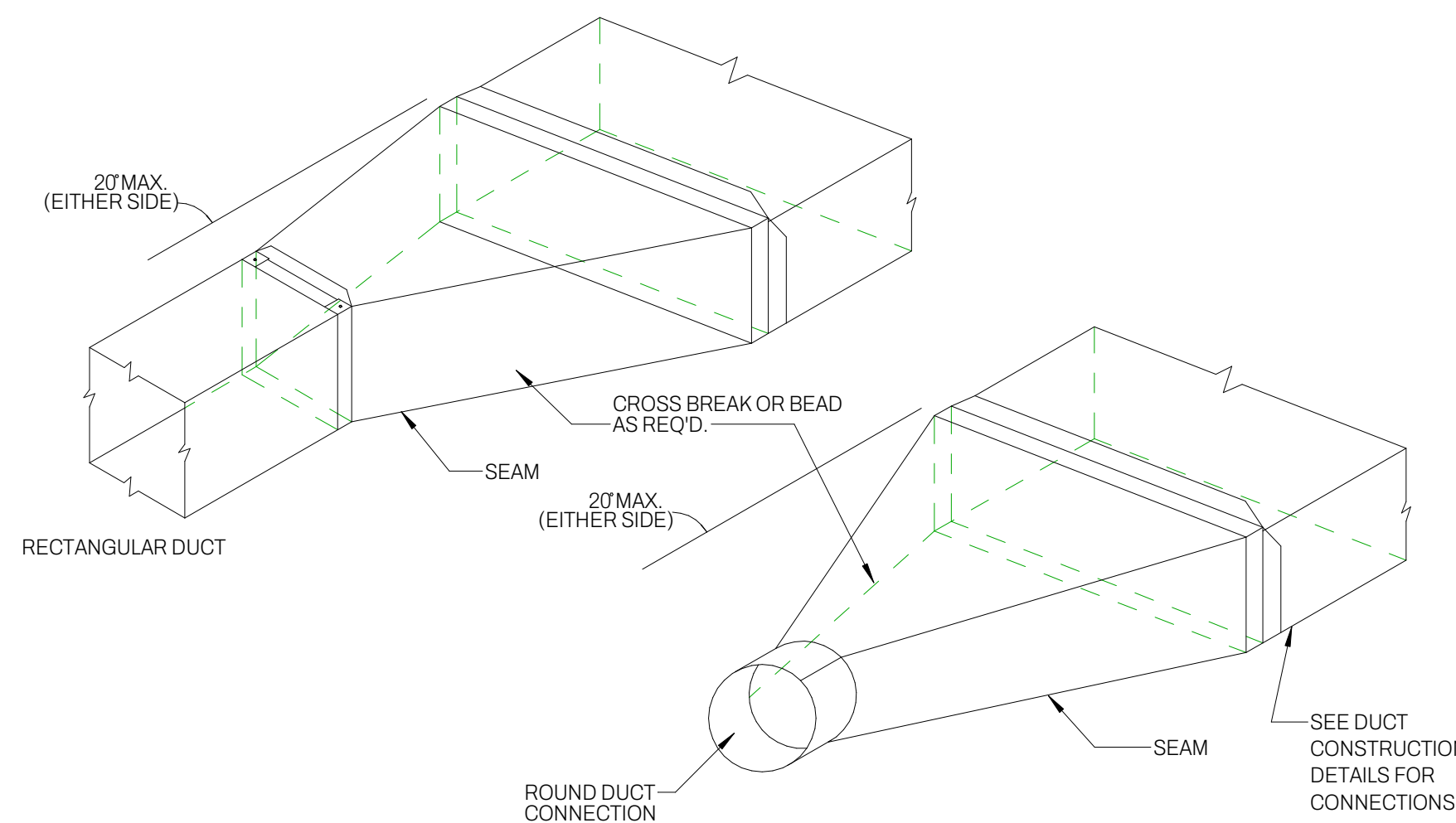
8 TYPICAL ENGRAVED TAG DETAIL  
M-400 NOT TO SCALE



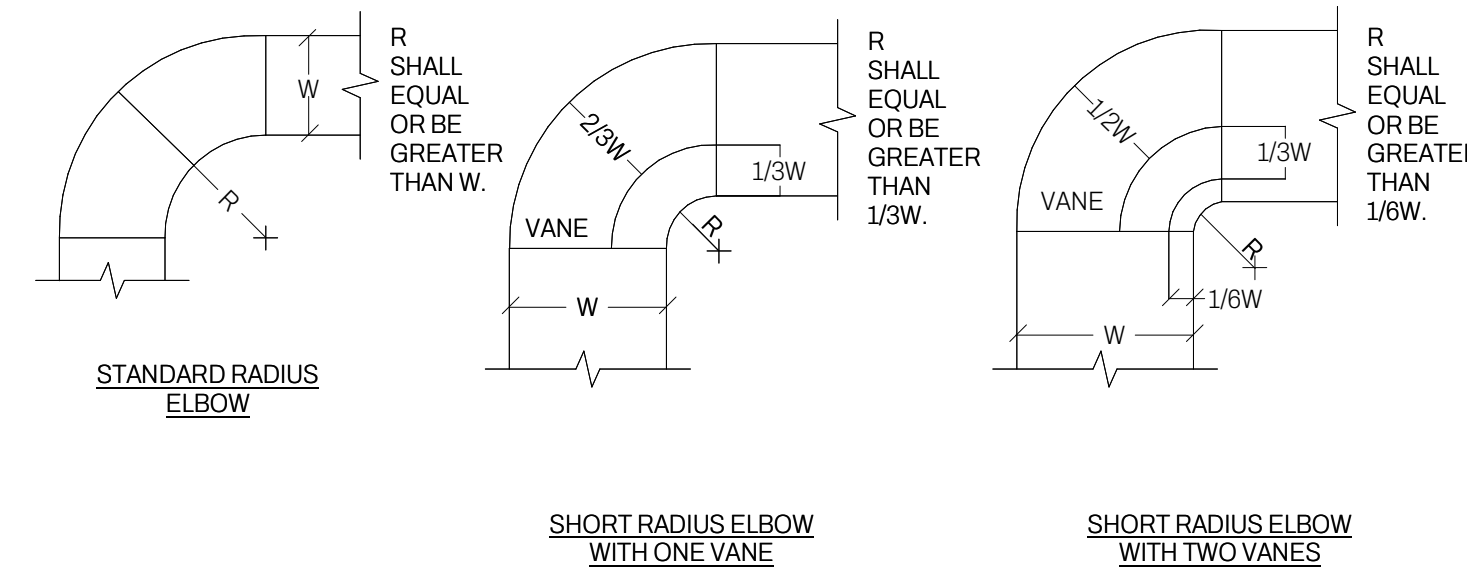
9 TURNING VANE DETAIL  
M-400 NOT TO SCALE



10 MECHANICAL - IN-LINE EXHAUST FAN  
M-400 N.T.S.



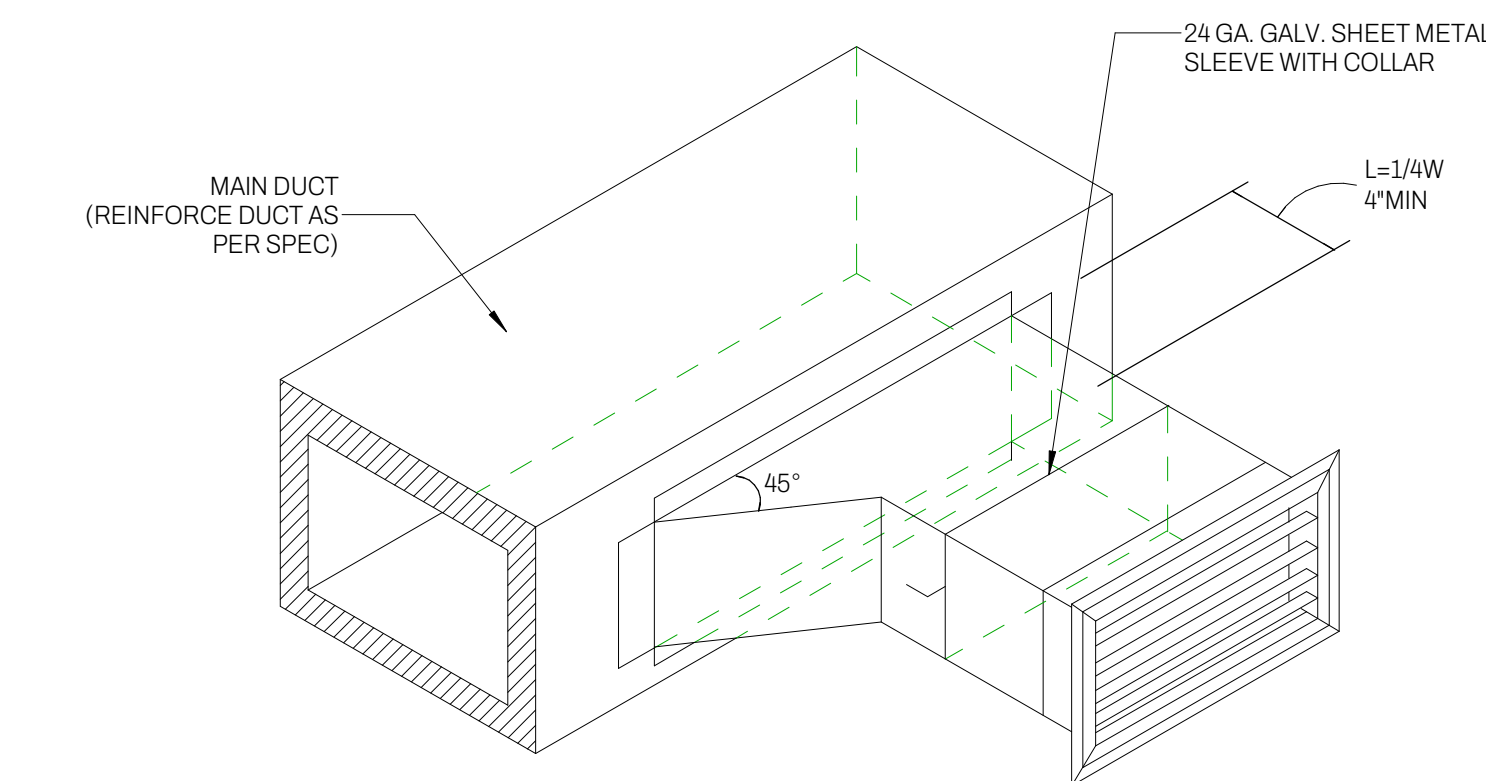
4 TRANSITION DETAIL  
M-400 NOT TO SCALE



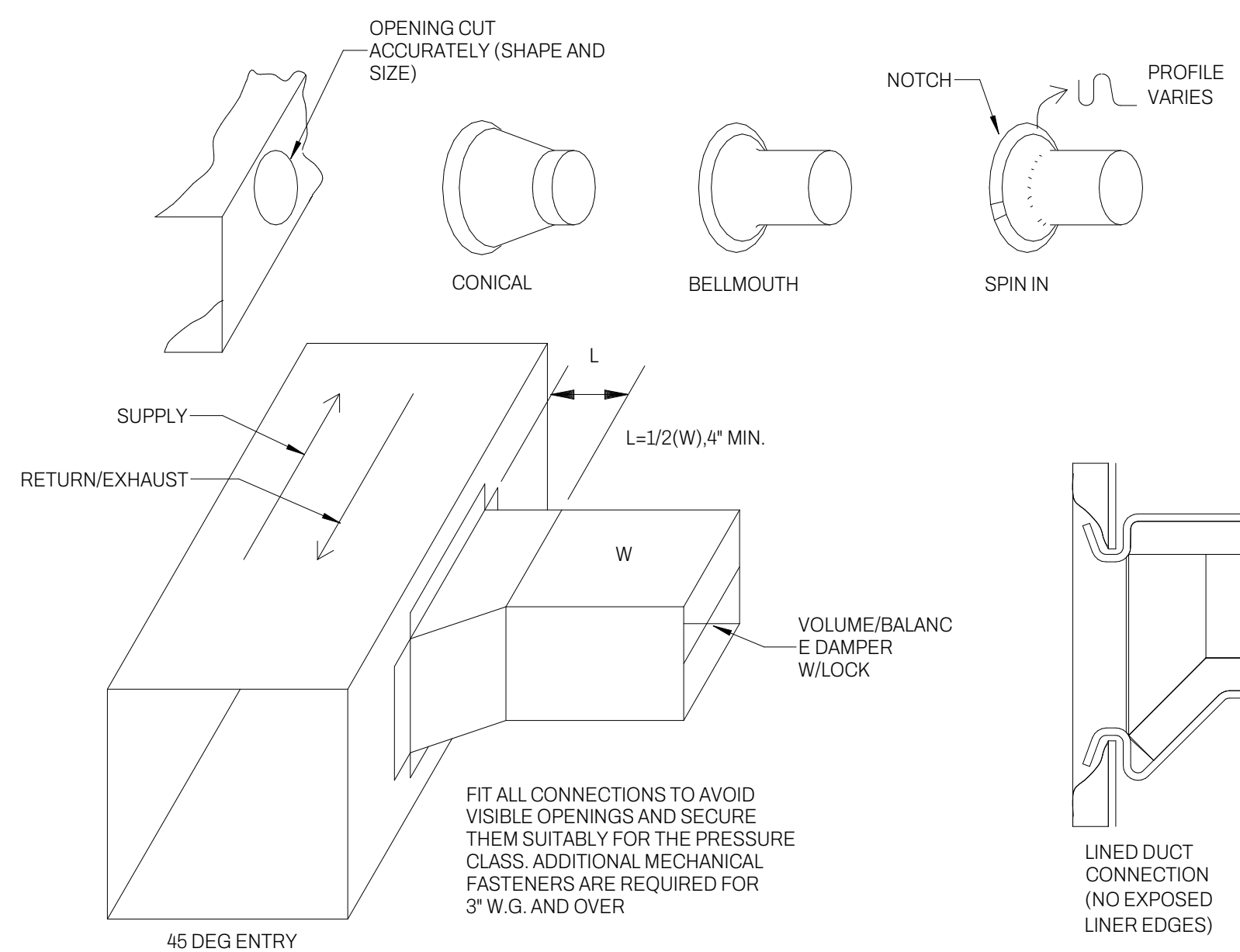
**GENERAL NOTE:**

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED, AND FASTENED AS RECOMMENDED BY SMACNA.

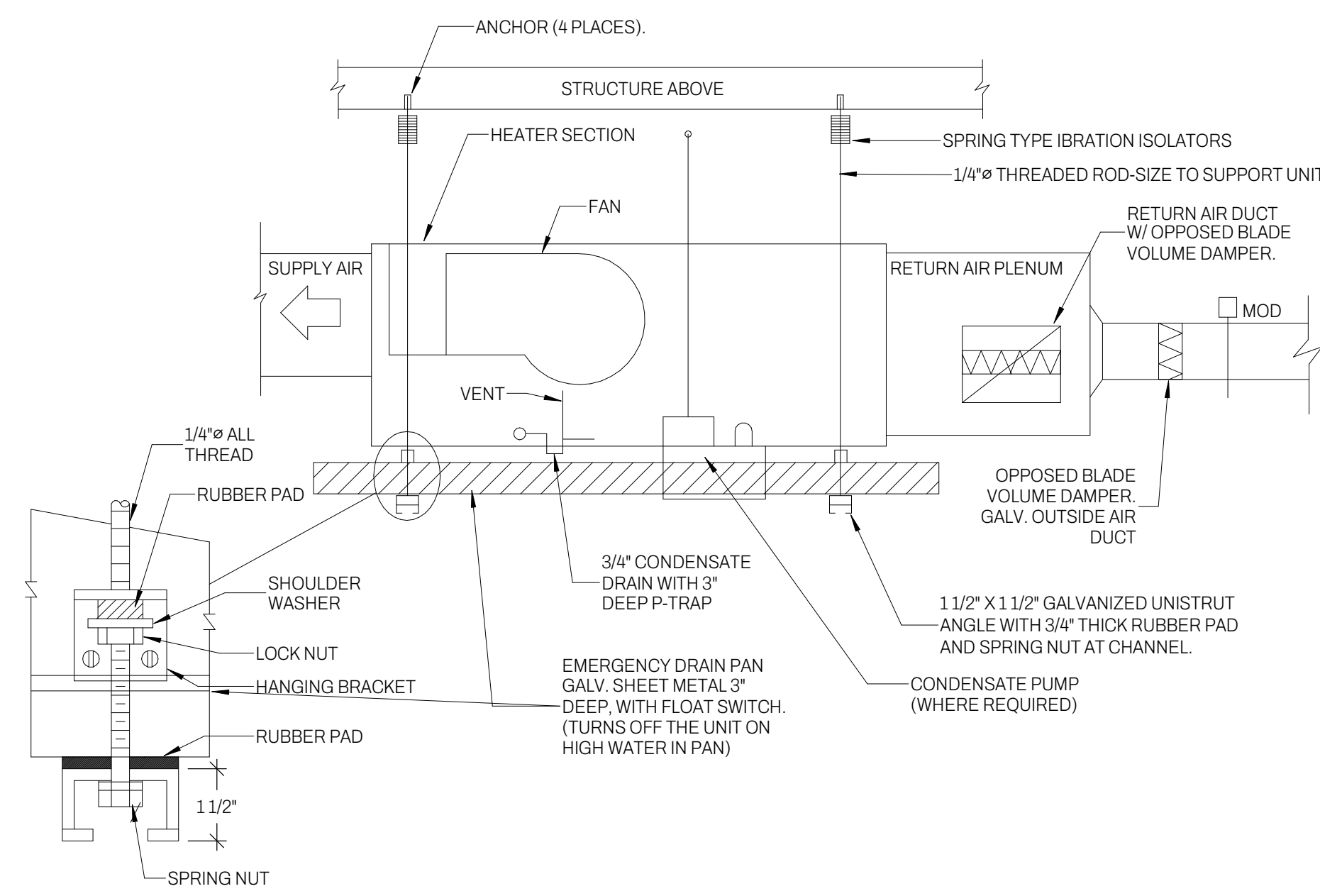
5 TYPICAL RADIUS ELBOW DETAIL  
M-400 NOT TO SCALE



6 MECHANICAL - SIDEWALL REGISTER DETAIL  
M-400 N.T.S.



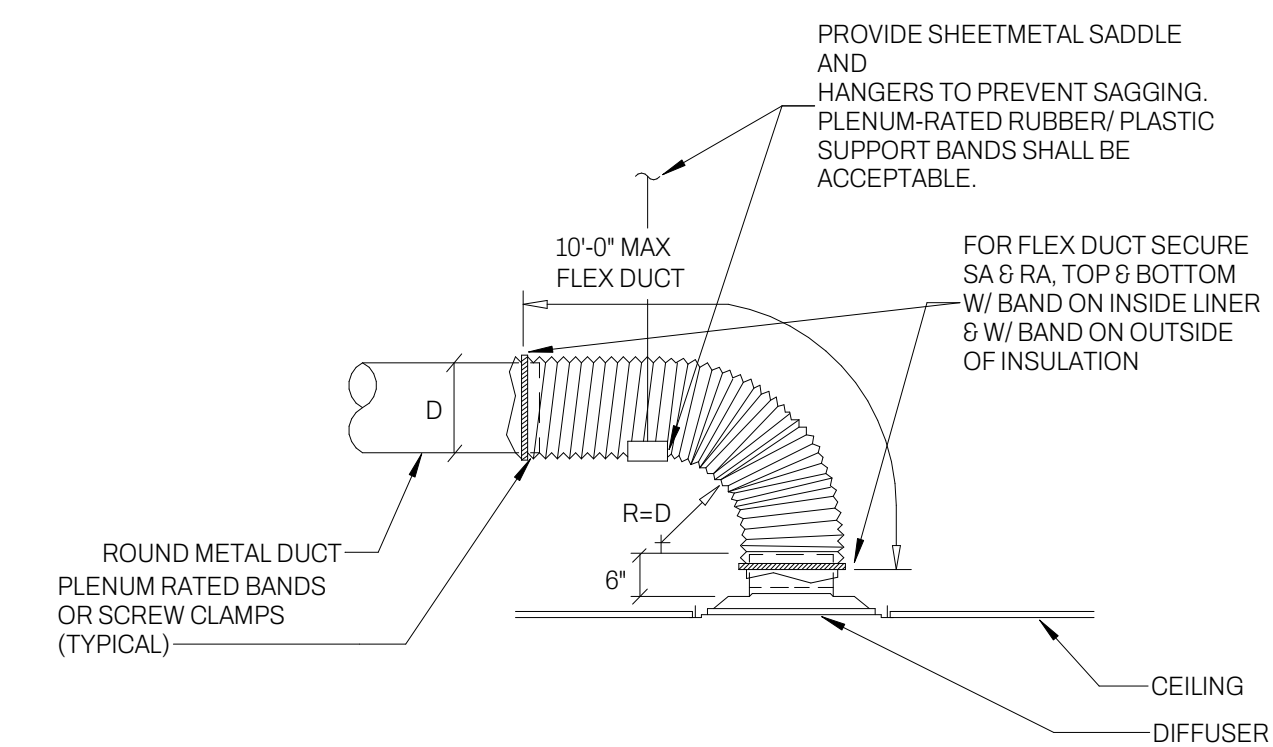
1 DUCT BRANCH CONNECTION DETAIL  
M-400 NOT TO SCALE



**GENERAL NOTES:**

1. GLASS FAB AND MASTIC SUPPLY & RETURN DUCT FOR 4 FEET FROM UNIT CONNECTION DUCT TAPE ALL SUPPLY SIDE JOINTS ON UNIT.
2. MOTORIZED OUTSIDE AIR DAMPER (MOD) TO BE RUSKIN CD-50 WITH BELIMO LF24-SR, ELECTRIC PROPORTIONAL DAMPER ACTUATOR, INTERLOCKED WITH AHU'S FAN. PROVIDE MANUAL VOLUME DAMPER FOR OUTDOOR AIR BALANCING.

2 MECHANICAL - HORIZONTAL AIR HANDLING UNIT DETAIL  
M-400 N.T.S.



3 DIFFUSER CONNECTION DETAIL  
M-400 NOT TO SCALE