\* OR APPROVED EQUAL

AHU CONTROL NOTE: PROVIDE FOR NEW SYSTEM (AHU-1/HP-1) AND EXISTING HEAT PUMP SYSTEM. FOR EACH SYSTEM PROVIDE "SIMPLE ENGINEERED SOLUTIONS" MODEL #HPDM-XX HEAT PUMP DEHUMIDIFICATION CONTROL MODULE. PROVIDE PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER AND HUMIDISTAT FUNCTION. THERMOSTAT SHALL BE COMPATIBLE WITH DEHUMIDIFICATION CONTROL MODULE. PURPOSE OF DEHUMIDIFICATION CONTROL MODULE IS TO INITIATE COOLING MODE WHEN HUMIDISTAT SENSES HUMIDITY OVER SETPOINT AND ENERGIZE AND CONTROL ELECTRIC HEAT TO MAINTAIN SPACE TEMPERATURE. CONTACT SIMPLE ENGINEERED SOLUTIONS FOR INFORMATION ON DEHUMIDIFICATION CONTROL MODULE: (910) 231-9929. email: jmsuggs@yahoo.com.

EXHAUST	FAN SCHEDULE	
EXHAUST FAN #1 (EF-1)	* CARNES MODEL# VCDD010C EXHAUST FAN, 93 CFM © 1/4" SP, 640 RPM, 1.1 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10"-0" FROM ANY INTAKES.	

\* OR APPROVED EQUAL

NOTE: RUN EXHAUST DUCTS HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" MINIMUM SEPARATION FROM ANY INTAKES.

MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SPAB224	SEE FLEXIBLE DUCT SCHEDULE	24" X 24"	STEEL	SUPPLY	LAY-IN CEILING, WHITE 4-WAY BLOW
В	CARNES	RTDBH	9" X 4"	11" X 6"	STEEL	SUPPLY	DUCT MOUNTED WHITE
С	CARNES	SPAB114	SEE FLEXIBLE DUCT SCHEDULE	12" X 24"	STEEL	SUPPLY	LAY-IN CEILING, WHITE 4-WAY BLOW
EX	EXISTING	NA	VARIES	EXISTING	STEEL	SUPPLY	EXISTING SUPPLY DIFFUSER
RA	CARNES	SPRB22	SEE FLEXIBLE DUCT SCHEDULE	24" X 24"	STEEL	RETURN	LAY-IN CEILING, WHITE
RB	CARNES	RSABH	12" X 12"	14" X 14"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED

\* OR APPROVED EQUAL

## GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- 8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 12. PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- 13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 14. PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

APPLICATION	SQUARE FOOTAGE	AREA OUTDOOR AIR FLOW RATE	PEOPLE OUTDOOR AIR FLOW RATE	OCCUPANCY DENSITY RATE (# PEOPLE/	OCCUPNCY	AREA OUTDOOR AIR FLOW	PEOPLE OUTDOOR AIR FLOW			
	(SF)	(CFM/SF)	(CFM/PERSON)		(# PEOPLE)		(CFM)	(CFM)		
FFICE	83	0.06	5	5	1	5	5	10		
STORAGE	569	0.12	_	-	-	68	· · · .	68		
SHOW ROOM / SALES **	1800	0.12	7.5	15	27	216	203	419		
TOTAL REQUIRED	-							497		
OUTDOOR AIR PROVIDED F  HVAC UNIT  AHU-EX (EXISTING)  AHU-1  TOTAL PROVIDED  APPLICATION  TOILETS				OUTDOOR AIR (CFM)  300 - 10" DIA. O.A. DUCT						
				200 - 8" DIA. O.A. DUCT						
				500						
				CFM						
				70 CFM/FLUSHING FIXTURE						

- \* SET OUTDOOR AIR DAMPER CONTROLS TO PROVIDE OUTDOOR AIR AS INDICATED IN THIS SCHEDULE.
- \*\* NET OCCUPIABLE FLOOR AREA (GROSS AREA PERMANENT SHELVING).

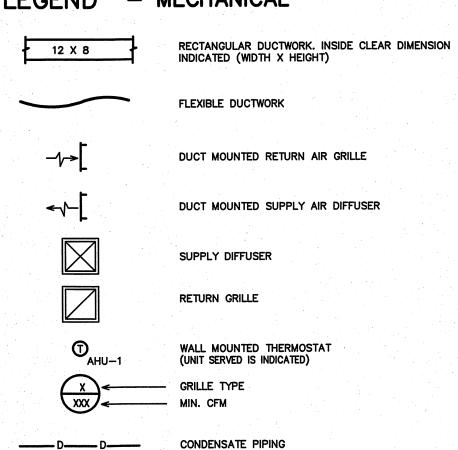
### FLEXIBLE DUCTWORK SIZES MAXIMUM CFM'S RETURN SUPPLY SIZES 100 100 175 175 250 250 10" 350 400 500 900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

# FLEXIBLE DUCTWORK NOTES

- I) INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
- 2) DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
- 3) DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- 4) DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- 5) USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
- (a) EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
- 1) SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

# LEGEND - MECHANICAL



REFRIGERANT PIPING

## APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

> MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
> MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

## Thermal Zone

winter dry bulb 93F summer dry bulb

Interior Design Conditions

summer dry bulb relative humidity

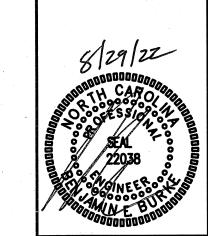
47,000 BTU/hr **Building Heating Load** (Tenant space only) 64,300 BTU/hr

**Building Cooling Load** (Tenant space only) Mechanical Spacing Conditioning System

> Unitary - The tenant space is served the following systems: (1) Existing 5 Ton split system heat pump unit (1) New 2.5 Ton split system heat pump unit

Boiler - Not applicable to this project. Chiller - Not applicable to this project.

> Efficiencies and outputs are listed on equipment schedules - See drawings.



Coastal

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DDITION

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HYAC SCHEDULES

21036

SSUED: **8/22/2022** OWG BY: CLS CKD BY: **BEB** 

REVISIONS

SHEET NO.

BURICE DESIGN GROUP

3305-109 DURHAM DRIVE

RALEIGH, NC 27603

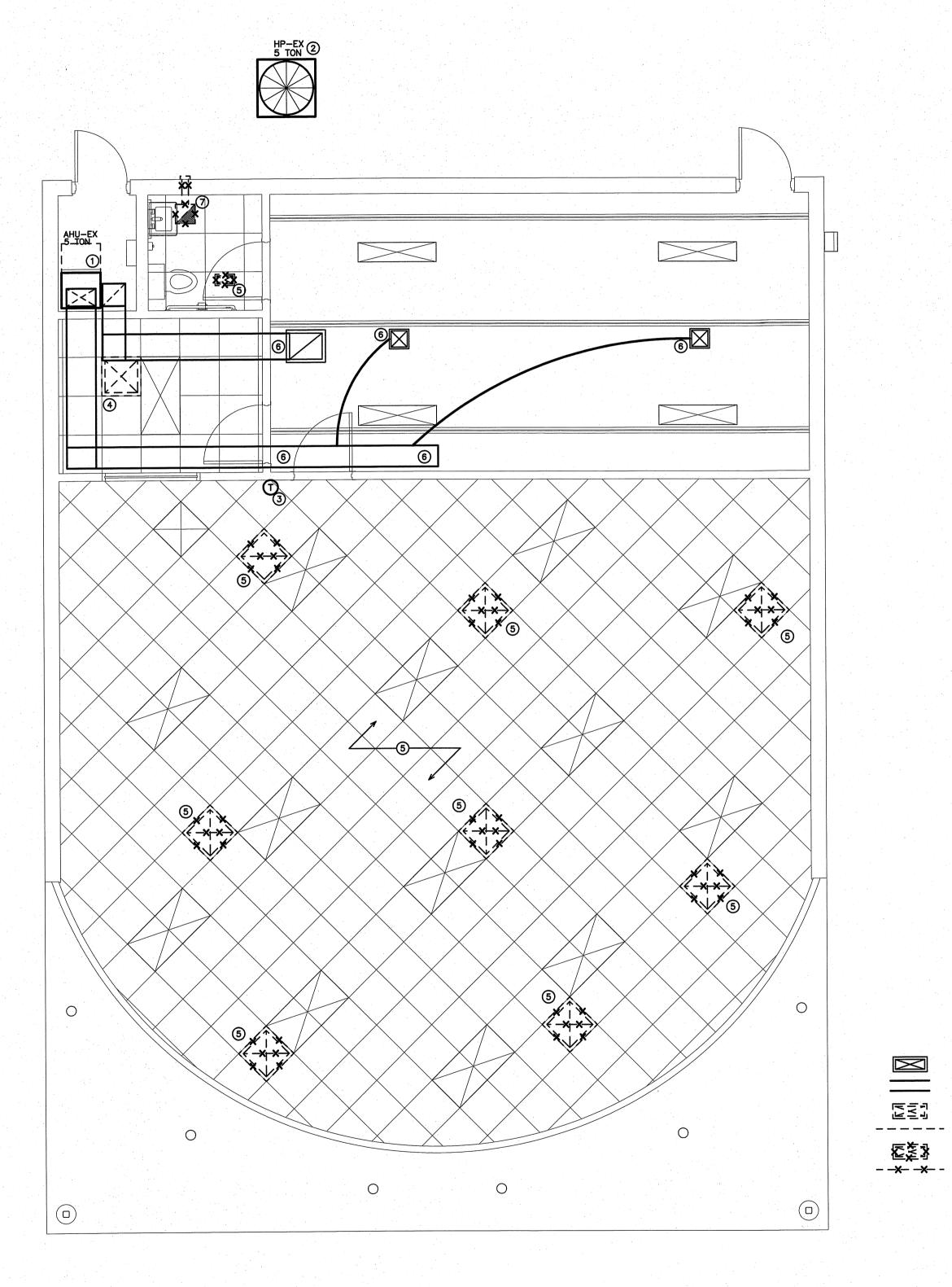
PHONE: (919) 771-1916

FAX: (919) 779-0826

email: ben@bdg-nc.com
Corp. License # C-2652

ENGINEER

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION. THE CONTRACTOR
IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.



1) EXISITNG HVAC PLAN
SCALE 1/4"=1'-0"



ALL EXISTING MECHANICAL ITEMS TO REMAIN IN PLACE.

ALL EXISTING MECHANICAL ITEMS TO BE RELOCATED SEE SHEET M3 FOR ADDITIONAL INFORMATION.

ALL EXISTING MECHANICAL ITEMS TO BE REMOVED AND DISCARDED. REPAIR ANY DAMAGED WALL OR CEILING, AND PATCH OR RE-USE DUCT CONNECTION.

KEY NOTES FOR M2

- 1 EXISTING AIR HANDLING UNIT MOUNTED VERTICAL IN UTILITY CLOSET, LOCATION UNDETERMINED FROM FIELD INVESTIGATION. MC TO VERIFY MECHANICAL DUCTWORK ABOVE OFFICE CEILING. SEE DETAIL 1/M4.
- 2 EXISTING OUTDOOR HEAT PUMP UNIT MOUNTED ON EXISTING CONCRETE PAD.
- 3 EXISTING THERMOSTAT TO REMAIN.
- 4 RE-LOCATE EXISTING SUPPLY DIFFUSER.
- REMOVE ALL EXISTING GRILLES AND DIFFUSERS, RIGID AND FLEXIBLE DUCT OVER EXISTING SALES AREA AND BATHROOM. REMOVE DUCT BACK TO REAR SALES WALL.
- 6 EXISTING GRILLES AND DIFFUSERS, RIGID AND FLEXIBLE DUCT OVER EXISTING STORAGE AREA TO REMAIN.
- 7 REMOVE EXISTING EXHAUST FAN, DUCT AND EXHAUST CAP.



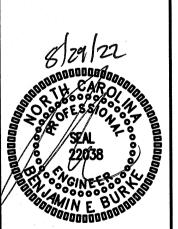
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ADDITION TO
ABC NEWPORT
NEWPORT, NORTH CAROLINA



EXISTING HVAC PLAN

21036 ISSUED: **8/22/2022**DWG BY: **CLS** 

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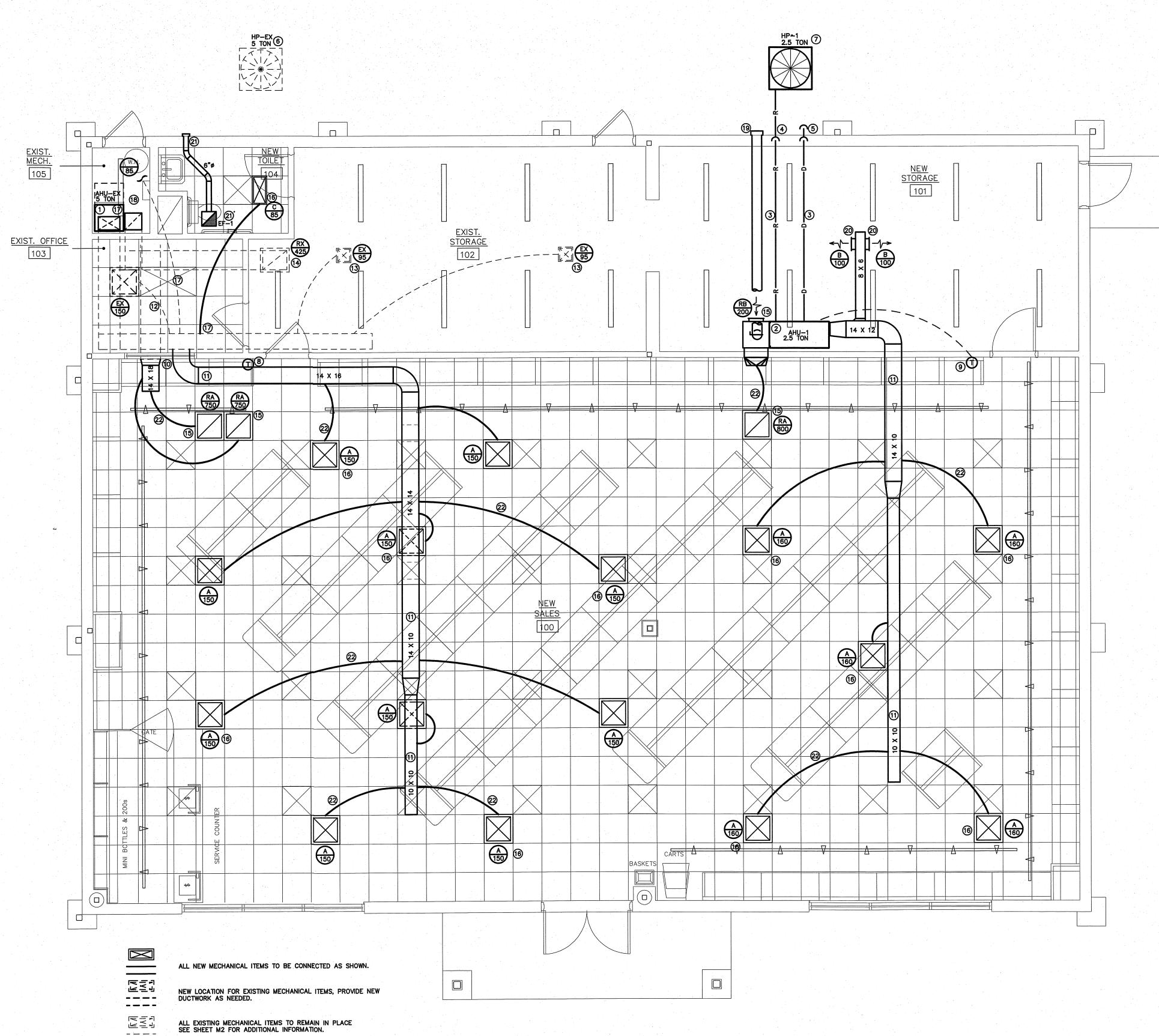
email: ben@bdg-nc.com

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**ENGINEER** 

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

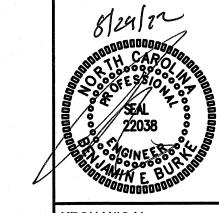
\_ \_ \_ \_ \_ \_\_\_\_\_



1 NEW HVAC PLAN
SCALE 1/4"=1'-0"

KEY NOTES FOR M3

- 1 EXISTING AIR HANDLING UNIT SUSPENDED FROM STRUCTURE ABOVE CEILING. SEE 1/M2.
- 2 NEW AIR HANDLING UNIT SUSPENDED FROM STRUCTURE ABOVE CEILING. SEE DETAIL 1/M4.
- RUN PIPING TIGHT TO UNDERSIDE OF STRUCTURE. (TYPICAL).
- RUN REFRIGERANT PIPING DOWN CONCEALED IN EXTERIOR WALL.
- FUN CONDENSATE PIPING DOWN CONCEALED IN EXTERIOR WALL TO 6" ABOVE FINISH GRADE. TERMINATE IN ELBOW TURNED DOWN.
- 6 EXISTING OUTDOOR HEAT PUMP UNIT MOUNTED ON EXISTING CONCRETE PAD.
- 7 NEW OUTDOOR HEAT PUMP UNIT MOUNTED ON NEW CONCRETE PAD.
- 8 EXISTING THERMOSTAT, TO REMAIN.
- 9 NEW THERMOSTAT LOCATION, MOUNT AT 48" AFF. 10 CONNECT NEW DUCT TO EXISTING DUCT ABOVE OFFICE.
- 11) NEW RECTANGULAR RIGID DUCT MOUNTED TO STRUCTURE ABOVE NEW CEILING. SEE DETAIL 1/M-4.
- REUSE EXISTING FLEXIBLE DUCT TO RELOCATE EXISTING SUPPLY DIFFUSER.
- 13 EXISTING SUPPLY DIFFUSERS TO REMAIN.
- (4) EXISTING RETURN AIR GRILLE TO REMAIN.
- 15) NEW RETURN AIR GRILLE. (TYP)
- 16 NEW SUPPLY DIFFUSERS. (TYP)
- MC SHOULD FIELD VERIFY ACTUAL DUCT LAYOUT ABOVE THE EXISTING OFFICE AND ANY MECHANICAL SYSTEMS IN THE UTILITY ROOM, THAT WAS INACCESSIBLE AT THE TIME IF THE FIELD INVESTIGATION.
- MC SHOULD FIELD VERIFY THE EXISTENCE OF MAKE UP AIR DUCT TO THE EXISTING AHU, AND PROVIDE DUCT AND CAP IF ABSENT. SEE SHEET M-1 AND DETAIL 1/M-4 FOR ADDITIONAL INFORMATION.
- WALL MOUNTED OUTSIDE AIR INTAKE HOOD TO 8" DIA. RIGID DUCT SUPPLYING AHU—1. AIR INTAKE SHALL BE 10'—0" MIN.FROM ANY OUTSIDE EXHAUST DISCHARGE. SEE DETAIL 1/M—4 FOR ADDITIONAL INFORMATION.
- 20 NEW DUCT MOUNTED SUPPLY AIR REGISTER.
- 21 NEW EXHAUST FAN, 6"Ø DUCT AND EXHAUST WALL CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
- 22 NEW FLEXIBLE DUCT. (TYP)



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NORTH C

**ADDITION** 

ABC

MECHANICAL PLAN

ISSUED: **8/22/2022** DWG BY: CLS CKD BY: **BEB** REVISIONS

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SHEET NO. M-3

### DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

### 1.1 DESCRIPTION OF THE WORK

Condensate piping.

- Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- Heating, ventilation, and air conditioning equipment. Ductwork. Grilles and diffusers. Controls and control wiring.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards
  - ASHRAE Guide
    National Electric Code.
    2018 NC State Building Code: Mech Code.
- The Electrical Specifications for this project.
   SMACNA HVAC Duct Construction Standards.
- All local codes and ordinances. 7. ARI rating.
  8. 2018 NC State Building Code: Energy Conservation Code.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require,
- D. The HVAC Contractor shall be licensed in North Carolina and have all local licenses required for the work.

A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

### 1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
- Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.
- C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this

### 1.4 SHOP DRAWINGS

- Shop drawings shall be submitted for all major items of equipment, These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to
  - All equipment and accessories. Grilles and diffusers. Unit sizes and requirements

## PART 2 -PRODUCTS

## 2.1 EQUIPMENT

A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.

## 2.3 DUCTWORK

- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, deflectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.
- B. Seal all sheet metal joints with fiber impregnated mastic. C. Support from building structure on strap hangers not over 8 feet apart.
- D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
- E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.
- F. Round runouts, where used, shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning INL-25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik—set) and is not to be mounted in side take—off.

### 2.4 DUCT INSULATION (LOW PRESSURE)

- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke developed rating of not more than 50, exposed exterior piping.
- B. All duct insulation shall comply with Section 604, of the N. C. Building Code: Mechanical Code
- C. All supply and return ductwork shall be completely insulated, either internally or externally.
- D. Rectangular ductwork shall be lined with two-inch thick 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.
- As an alternative to duct liner rectangular duct may be wrapped with Class I 2", 3/4 lb. density
   (R-6.5) thick reinforced foil back fiberglass insulation, Owens-corning Series ED or equal. Tape shall be Kraft
- F. Exhaust air duct does not require insulation, unless otherwise noted on the plans.
- G. Insulation shall be held inplace with adhesive and welding
- H. Duct dimensions shown on the drawings are Net Inside Dimensions
- 2.5 THERMOSTATS
- A. Provide programmable electronic thermostats.

### B. Submit proposed thermostats for approval. 2.6 ROOF PENETRATIONS

A. Provide pre-manufactured roof flashings compatible with equipment served. B. Coordinate roof work with roof system used. Provide proper flashing as required.

### C. Provide 1 year warranty on all roof work performed.

A. Duct detectors are not required since units air flows are 2000 cfm or less per NCSBC: Mechanical Code, Section 606.2.

### PART 3 - EXECUTION

2.7 DUCT SMOKE DETECTORS

- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to
- B. The HVAC Contractor shall paint all exterior refrigerant piping. with UV resistant paint as recommended by the closed cell insulation
- C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.

### 3.2 ELECTRICAL WORK

- The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
- HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.
- C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as—built wiring diagram prepared showing all connections and colors of wiring and
- D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

## 3.3 CLEAN UP

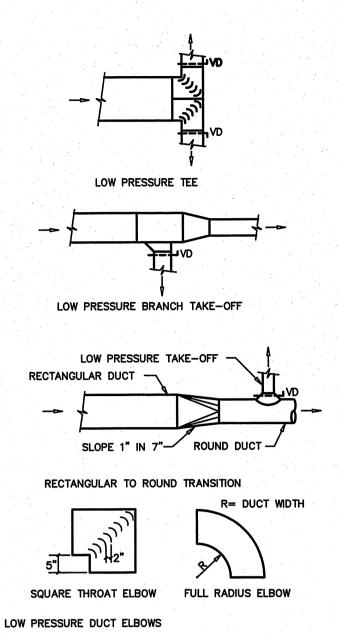
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

## 3.4 OPERATOR'S MANUAL AND DIAGRAM

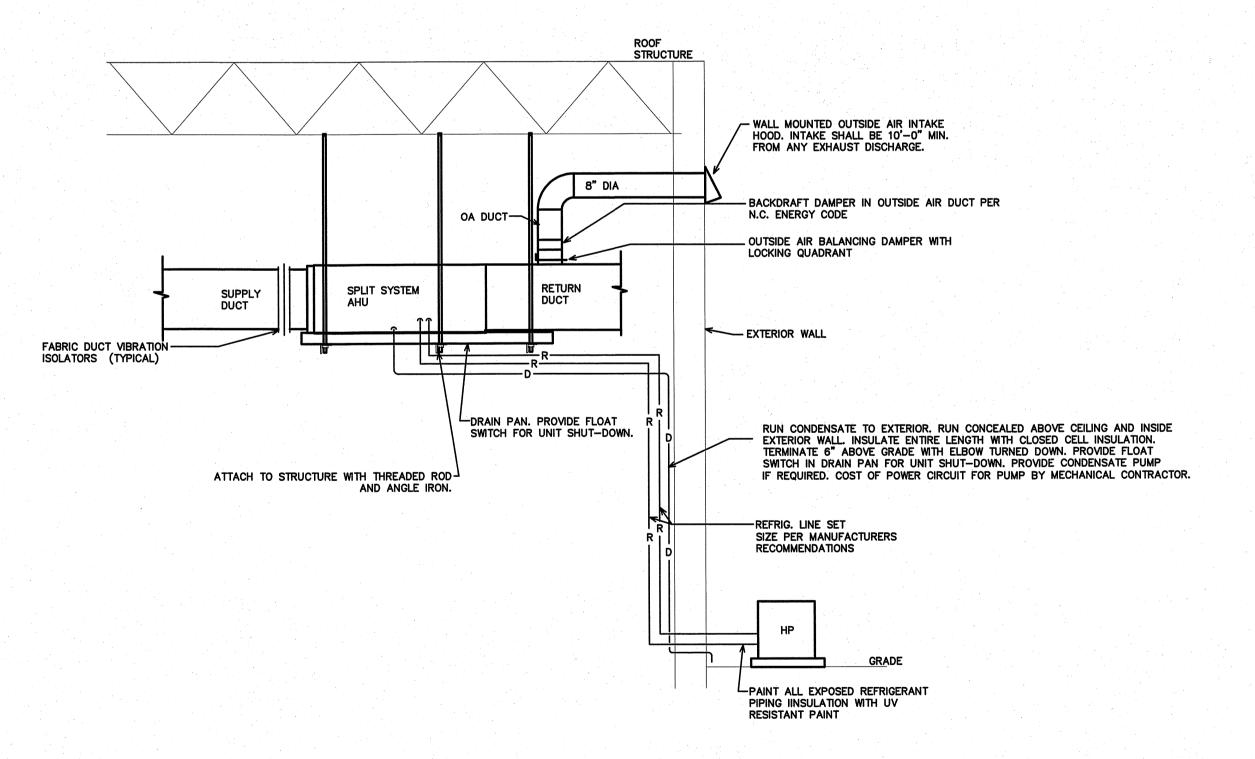
- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
- B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.
- C. Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

## 3.5 GUARANTEE

- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the
- B. All air flows must be measured and balanced to within 10% of design airflows. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close—out
  Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats themostats if required for occupancy comfort.



**DUCT CONSTRUCTION DETAIL** 



AIR HANDLING UNIT DETAIL

Coastal

Planning



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AROLINA DDITION

8/29/22

HYAC SPECIFICATIONS

SSUED: **8/22/2022** DWG BY: CLS CKD BY: BEB

REVISIONS

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