This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

CEILING DIFFUSER SCHEDULE

NOTES:	1. PERFORMANCE OF SA-SE BASED ON PRICE MODEL ASPD PLAQUE FACED DIFFUSER.
	2. PERFORMANCE OF SF BASED ON PRICE MODEL LFD LAMINAR FLOW DIFFUSER.
	3. ALL DIFFUSERS SHALL BE FURNISHED WITHOUT DAMPERS UNLESS OTHERWISE NOTED.
	4. ROUTE RUN-OUT SIZE TO GRILLE UNLESS OTHERWISE NOTED ON DRAWINGS.

SYMBOL	RUN OUT SIZE	NECK SIZE	FACE SIZE	MAX. NC	MAX. SP
SAA	6"∅	6"∅	12"x12"	-	.016
SA	6"∅	6"∅	24"x24"	-	.016
SB	8"∅	8"∅	24"x24"	-	.042
SC	10"∅	10"∅	24"x24"	-	.065
SD	12"∅	12"∅	24"x24"	15	.093
SE	14"∅	14"∅	24"x24"	18	.127
SF	10"∅	10"∅	48"x24"	17	.030"

REMARKS:

RETURN/EXHAUST GRILLE SCHEDULE

NOTES:	1. GRILLES BASED ON PRICE MODEL 80 0.5" GRID DESIGN.
	2. GRILLES TO BE FURNISHED WITHOUT DAMPER.
	3. FACE SIZE BASED ON LAY-IN CEILING. ADD 1.75" TO FACE SIZE FOR DRYWALL APPLICATIONS.
	4. PROVIDE SQUARE TO ROUND TRANSITION ON BACK OF GRILLE.

SYMBOL	RUN OUT SIZE	NECK SIZE	FACE SIZE	MAX. NC	MAX. SP
RA EA	6"∅	12"x12"	12"x12"	18	.02"
RB EB	8"∅	24"x24"	24"x24"	24	.03"
RC EC	10"∅	24"x24"	24"x24"	24	.03"
RD ED	12"∅	24"x24"	24"x24"	24	.03"
RE EE	14"∅	24"x24"	24"x24"	24	.03"
RF EF	18"∅	24"x24"	24"x24"	24	.03"
RG EG	24"x14"	24"x24"	24"x24"	24	.03"
RH EH	24"x16"	24"x24"	24"x24"	24	.03"

REMARKS:

TEST AND BALANCE

1. THIS WORK SHALL INCLUDE ALL HVAC SUPPLY, RETURN AND EXHAUST DUCT SYSTEMS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR TESTING AND BALANCING.
2. THE CLEANING, TESTING AND BALANCING DESCRIBED HEREIN ARE MINIMUM REQUIREMENTS AND SHALL BE PERFORMED BY AN INDEPENDENT TABB, NEBB OR AABC CERTIFIED TEST AND BALANCE CONTRACTOR. ADDITIONAL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION SHALL ALSO BE PERFORMED. TEST AND BALANCE CONTRACT SHALL BE HELD BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR.
3. AFTER COMPLETION OF THE INSTALLATION OF THE AIR CONDITIONING, HEATING, VENTILATING AND EXHAUST SYSTEMS, AND PRIOR TO ACCEPTANCE BY THE OWNERS, ALL AIR HANDLING SYSTEMS AND APPURTENANCES APPLICABLE TO THE ABOVE SYSTEM SHALL BE ADJUSTED AND BALANCED TO DELIVER THE AIR QUANTITIES AS SPECIFIED, INDICATED ON THE DRAWINGS, OR AS DIRECTED.
4. CONTRACTOR SHALL BALANCE SUPPLY, RETURN, AND EXHAUST AIR TO WITHIN PLUS OR MINUS 10% OF DESIGN. AIR BALANCE SHALL BE PERFORMED BY TABB, AABC OR NEBB CERTIFIED AIR BALANCE COMPANY AND THE PROCEDURE FOLLOWED AND FORMS USED SHALL AGREE WITH TABB, NEBB OR AABC STANDARDS.
5. TOTAL AIR QUANTITIES SHALL BE OBTAINED BY ADJUSTMENT OF FAN SPEEDS.
6. *BELT-DRIVEN FANS SHALL HAVE SHEAVES CHANGED AS REQUIRED TO OBTAIN DESIGN AIRFLOW QUANTITIES.
7. *MEDIUM PRESSURE DUCT SYSTEMS SHALL HAVE THE STATIC PRESSURE SETPOINT ADJUSTED THROUGH THE CONTROLS SYSTEM AS REQUIRED TO OBTAIN DESIGN AIRFLOW QUANTITIES.
8. BRANCH DUCT AIR QUANTITIES SHALL BE ADJUSTED BY VOLUME OR SPLITTER DAMPERS. DAMPERS SHALL BE PERMANENTLY MARKED AFTER AIR BALANCE IS COMPLETE SO THAT THEY CAN BE RESTORED TO THEIR CORRECT POSITION IF DISTURBED AT ANY TIME.
9. RECORD AND SUBMIT FOR EVALUATION AND APPROVAL THREE (3) COPIES OF THE COMPLETE AIR BALANCE REPORT. REPLACEMENT OF ADJUSTABLE PULLEYS, ADDITION OF BALANCING DAMPERS OR PRESSURE TAPS, REQUIRED TO EFFECT PROPER AIR BALANCE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. IF REQUESTED, ANY OR ALL OF THE ABOVE FIELD TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT'S REPRESENTATIVE.
10. IN ADDITION, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A TYPED, WRITTEN REPORT TO INCLUDE THE FOLLOWING:
    - A STATEMENT THAT ALL SYSTEMS HAVE BEEN TESTED, CHECKED OUT, BALANCED AND ARE OPERATING PROPERLY.
    - A STATEMENT THAT ALL FILTERS HAVE BEEN REPLACED
    - A STATEMENT, SIGNED BY THE OWNER, STATING THAT WRITTEN OPERATING PROCEDURES AND TRAINING HAVE BEEN RECEIVED.
11. AIR-SIDE TEMPERATURE AND OTHER READINGS FOR EACH A/C UNIT, INCLUDING:
    - OUTSIDE AIR TEMP (DB/WB)
    - RETURN AIR TEMP (DB/WB)
    - MIXED AIR TEMP (DB/WB)
    - SUPPLY AIR TEMP (DB/WB)
    - FAN RPM
    - TOTAL STATIC PRESSURE
    - PRESSURE DROP ACROSS COMPONENTS
    - CFM AT EACH SUPPLY, RETURN AND EXHAUST OUTLET
    - AIRFLOW AT EACH TERMINAL BOX FOR CALIBRATION PURPOSES ON NEW ELECTRONIC TERMINAL BOX CONTROLS
13. TERMINAL BOX HEATING COILS:
    - TEST, SET AND RECORD AIRFLOW AND WATER FLOW THROUGH TERMINAL BOX HEATING COIL.
14. ALL REPORTS BY THE CONTRACTOR SHALL INCLUDE BOTH THE DATE OF THE TEST AND THE NAMES OF ALL PERSONS PERFORMING AND WITNESSING THE TESTS.
15. IF, AFTER BALANCING TO THE REQUIREMENTS ABOVE, SOME ROOM TEMPERATURES DEVIATE MORE THAN 2 DEGREES F FROM THE THERMOSTATIC SET POINT FOR THE RESPECTIVE ZONE, THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN THE AIRFLOW TO MINIMIZE TEMPERATURE DEVIATIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL INCLUDE LINE ITEM COST FOR THIS/THESE TRIPS IN BID.
16. MECHANICAL CONTRACTOR SHALL MEASURE THE DIFFERENTIAL PRESSURE BETWEEN TUBES ON ALL DUCT MOUNTED SMOKE DETECTORS AND VERIFY COMPLIANCE WITH MANUFACTURER'S RANGE OF ACCEPTABLE DIFFERENTIAL PRESSURES.
17. IF A POSITIVE PRESSURE DIFFERENTIAL OF AT LEAST 0.01 INCHES W.C. CANNOT BE ACHIEVED IN O.R.s, C-SECTION ROOMS BASED ON THE VALUES SHOWN ON THE PLANS, THE BALANCE CONTRACTOR SHALL REDUCE THE RETURN AIR FLOW IN EACH ROOM AS NECESSARY TO ACHIEVE THE REQUIRED PRESSURE DIFFERENTIAL. THE CONTRACTOR SHALL INCREASE THE RETURN AIR IN THEIR RESPECTIVE ADJACENT CORRIDORS BY AN EQUAL AMOUNT. IF ISOLATION ROOMS AND ANTE ROOMS CANNOT ACHIEVE A MINIMUM 0.01 INCHES NEGATIVE PRESSURE DIFFERENTIAL, THE CONTRACTOR SHALL INCREASE THE EXHAUST AS NECESSARY TO ACHIEVE 0.01 INCHES W.C. DIFFERENTIAL. FOR PHARMACY AREAS THE SAME PRINCIPLE STATED ABOVE SHALL APPLY TO THE FOLLOWING VALUES: CHEMO - 0.01 INCHES W.C. TO 0.03 INCHES W.C. NEGATIVE; IV PREP AND ANTE ROOMS - 0.02 INCHES W.C. POSITIVE. ANTE TO PHARMACY - 0.02 INCHES W.C. POSITIVE.
18. CODE REQUIRED PRESSURE RELATIONSHIPS AS INDICATED ON THE PLANS SHALL BE MAINTAINED REGARDLESS OF ALLOWED 10% TOLERANCES.

HVAC GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR IS REQUIRED TO REROUTE DUCTWORK AND PIPE, PROVIDE OFFSETS, 90 AND 45 DEGREE BENDS, CHANGE ASPECT RATIO OF DUCTWORK AS REQUIRED IN COORDINATION WITH OTHER TRADES AT NO ADDITIONAL COST TO THE PROJECT.
2. ALL THERMOSTATS WILL BE INSTALLED 45" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT TO MATCH LIGHT SWITCHES UNLESS OTHERWISE NOTED.
3. ROUTE NEW DUCTWORK ABOVE CEILING TIGHT TO STRUCTURE. RELOCATE OR OFFSET EXISTING PIPING, CONDUIT AND DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW WORK AT NO ADDITIONAL COST TO THE PROJECT. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. DO NOT ROUTE ANY DUCTWORK OR PIPING DIRECTLY ABOVE OR 42" IN FRONT OF ELECTRICAL SWITCHGEAR, PANELS OR TRANSFORMERS.
5. ALL LAY-IN DIFFUSERS, RETURN AND EXHAUST GRILLES SHALL BE 24"x24" OR 12"x12" FULL FACE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE DIFFUSER FRAMES WITH REFLECTED CEILING PLAN TO DETERMINE TYPE OF FRAME REQUIRED, GYP-BOARD MOUNTING OR LAY-IN TYPE.
6. FOR BRANCH DUCT SIZES AND GRILLE / DIFFUSER NECK SIZES REFER TO SCHEDULE DRAWINGS.
7. FLEXIBLE DUCT SHALL BE LIMITED TO A MAXIMUM LENGTH OF 5 FEET WITH NO MORE THAN 90 DEGREES OF ACCUMULATED BEND.
8. PROVIDE MANUAL VOLUME DAMPERS IN MAIN SUPPLY, RETURN AND EXHAUST TRUNKS WHERE SHOWN ON DRAWINGS FOR BALANCING AS INDICATED AND AT LOCATIONS REQUIRED BY INDEPENDENT TEST AND BALANCING AGENCY. SEE DETAIL FOR EXACT LOCATION REQUIREMENTS OF MANUAL VOLUME DAMPERS.
9. COORDINATE DIFFUSERS, RETURN AND EXHAUST GRILLES WITH LIGHTS AND ARCHITECTURAL REFLECTIVE CEILING PLANS.
10. ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR IN INCHES UNLESS OTHERWISE NOTED.
11. PROVIDE FLEXIBLE CONNECTION ON DUCTWORK AT ALL MECHANICAL EQUIPMENT.
12. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE SYSTEMS AND VERIFY DIMENSION CONDITIONS PRIOR TO INSTALLATION. PROVIDE MANUFACTURERS' RECOMMENDED CLEARANCE REQUIREMENTS ON ALL AC UNITS AND EQUIPMENT FOR SERVING CLEANING, COIL REMOVAL, AND FILTER CHANGING.
13. PROVIDE IDENTIFICATION STENCILING ON ALL CONCEALED ACCESS DOORS FOR FIRE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
14. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL FLOOR AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR PRIOR TO STEEL FABRICATION.
15. EXHAUST DUCTS TO BE UN-INSULATED GALVANIZED SHEET METAL CONSTRUCTED TO LATEST SMACNA STANDARDS.
16. INSTALL DRYER EXHAUST OUTLETS TO MAINTAIN AT LEAST 25 FEET CLEARANCE FROM FRESH AIR INTAKES ON AIR HANDLERS AND OPERABLE ROOM WINDOWS.
17. ALL NEW ROOF MOUNTED EQUIPMENT MUST BE LOCATED A MINIMUM 10 FEET FROM THE ROOF EDGE OR A PROTECTIVE RAILING OR PARAPET SHALL BE PROVIDED NO LESS THAN 42 INCHES ABOVE FINISHED ROOF IN ACCORDANCE WITH IMC.
18. HVAC HOT WATER PIPING 2" AND SMALLER TO TYPE "L" HARD DRAWN SEAMLESS ASTM B-88 COPPER. SEE SPECIFICATIONS.
19. HVAC HOT WATER PIPING 2-1/2" AND LARGER TO BE WELDED CARBON STEEL. SEE SPECIFICATIONS.
20. INSULATION FOR HEATING HOT WATER TO BE 1-1/2" THICK FOR 1-1/4 AND SMALLER PIPE, 2" THICK FOR 1-1/2" AND LARGER PIPE. SEE SPECIFICATIONS.
21. EACH SUBCONTRACTOR SHALL PERFORM CUTTING AND PATCHING OF PENETRATIONS FOR THEIR OWN DISCIPLINE.
22. UNLESS SPECIFICALLY NOTED OTHERWISE, NO T-DRILL FITTINGS OR TYPE M COPPER PIPING IS ALLOWED FOR ANY SERVICE.
23. INTERMEDIATE SUPPORTS SUCH AS ANGLES, UNISTRUT, ETC. NECESSARY FOR SUPPORT OF PIPING, DUCTWORK AND EQUIPMENT AS WELL AS ANGLE FRAMING FOR DAMPERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL DIVISION. STRUCTURAL OPENINGS REQUIRING FRAMING SHALL BE FURNISHED UNDER STRUCTURAL DIVISION.
24. MECHANICAL CONTRACTOR TO PROVIDE COORDINATION DRAWINGS DEVELOPED INDEPENDENTLY BY THEIR STAFF BIM COORDINATORS IN 3 DIMENSIONAL CAD SOFTWARE FOR MECHANICAL SYSTEMS AND SHALL COORDINATE WITH ALL TRADES INCLUDING STRUCTURAL, DUCTWORK, PIPING, ELECTRICAL, COMMUNICATION SYSTEMS, FIRE PROTECTION AND MECHANICAL PIPING PRIOR TO FABRICATION OR INSTALLATION OF SYSTEMS. DESIGN MODELS ARE DEVELOPED FOR CONSTRUCTION DOCUMENT PRINTS ONLY.
25. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE FEDERAL, STATE AND LOCAL CODES AND LAWS. SEE ARCHITECTURAL DRAWINGS FOR APPLICABLE CODES. CONTRACTOR SHALL PAY FOR FEES AND PERMITS.
26. ALL DUCTWORK SHALL BE SHEET METAL IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT DIMENSIONS ARE INSIDE CLEAR.
27. ALL SUPPLY DIFFUSERS SHALL BE PRICE MODEL ASPD AND RETURN GRILLS SHALL BE PRICE MODEL 80 ALUMINUM 1/2"X1/2" GRID OR APPROVED EQUAL OR AS OTHERWISE NOTED. INSULATE BACK OF DIFFUSERS SIMILAR TO DUCTWORK IF SYSTEM USES A DUCTED RETURN.
28. ALL ROUND TAPS ON LOW PRESSURE DUCT SHALL BE MADE USING STICK-ON METAL COLLARS WITH DAMPER (SOUTHWARK MODEL ATD OR EQUAL). NO SCOOPS ARE ALLOWED.
29. SEAL ALL DUCT (SUPPLY, RETURN, OUTSIDE AIR, EXHAUST) JOINTS WITH MEI EDS 44-55 OR 44-52; DESIGN POLYMERICS DP1010; IRON GRIP OR EQUAL. APPLY WHEN ENVIRONMENT IS BETWEEN 50 deg F TO 95 deg F.
30. ALL CONCEALED SUPPLY, RETURN, AND OUTSIDE AIR DUCT SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 1 PCF DENSITY, FLEXIBLE, MINIMUM INSTALLED (25% COMPRESSION) "R" VALUE OF 6.0. FACTORY-REINFORCED GLASS FIBER BLANKET WITH FOIL-FACED VAPOR BARRIER EQUAL TO KNAUF DUCT WRAP. INSULATE TOPS OF ALL SUPPLY DIFFUSERS WITH 2" THICK INSULATION. RETURN DUCT NEED NOT BE INSULATED UNLESS ON TOP FLOOR WITH ROOF ABOVE. EXHAUST DUCT NEED NOT BE INSULATED. DUCTWORK LOCATED IN ATTICS OR EXTREME TEMPERATURE LOCATIONS SHALL HAVE THE INSULATION THICKNESS INCREASED BY 1". SEAL ALL JOINTS WITH FSK TAPE.
31. REFRIGERANT PIPING TO BE ACR GRADE TYPE L HARD COPPER SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REFRIGERANT SUCTION LINES WILL BE INSULATED WITH 1" ARMAFLEX INSULATION. REFRIGERANT PIPING EXPOSED-TO-THE-WEATHER OUTSIDE BUILDING SHALL BE INSTALLED WITH MOISTURE AND UV-RESISTANT ARMAFLEX SHIELD OR APPROVED EQUAL, INCREASE THICKNESS TO 1-1/2".
32. CONDENSATE DRAIN PIPING INSIDE THE BUILDING SHALL BE TYPE M HARD COPPER WITH 1/2" ARMAFLEX INSULATION. EXTERIOR CONDENSATE DRAIN PIPING SHALL BE PVC WITH A UV RESISTANT COATING. ICE MAKER DRAINS SHALL ALSO BE EQUIPPED WITH 1/2" ARMAFLEX INSULATION.
33. PIPE HANGERS SHALL BE GRINNELL OR EQUAL WITH HANGER TYPE MATCHING THE REQUIREMENT. MAXIMUM ALLOWABLE SPACING SHALL BE AS FOLLOWS:

3/4" to 1-1/4"	dia. PIPE	6 FOOT ON CENTER SPACING
1-1/2" to 2-1/2"	dia. PIPE	10 FOOT ON CENTER SPACING
3" to 5"	dia. PIPE	12 FOOT ON CENTER SPACING
6" to 8"	dia. PIPE	14 FOOT ON CENTER SPACING

34. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. NEW COMPRESSORS SHALL HAVE A FIVE YEAR REPLACEMENT WARRANTY.
35. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN ON MECHANICAL DRAWINGS. CONNECTIONS TO EXISTING SERVICES ARE ENGINEERS BEST UNDERSTANDING BASED ON AVAILABLE INFORMATION. CONTRACTOR SHALL ROUTE DUCT AND PIPING AS NECESSARY TO MAKE CONNECTIONS TO EXISTING SERVICES AS THEY EXIST IN THE FACILITY REGARDLESS OF HOW THEY'RE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMMUNICATE ANY DEVIATION FOUND PRIOR TO CONSTRUCTION.

FIRE & FIRE/SMOKE DAMPER NOTES

1. DO NOT INSTALL FLEXIBLE DUCT WITHIN 5 FEET OF A ONE-HOUR PARTITION PENETRATION.
2. INSTALL SMOKE DAMPERS AT ALL DUCTWORK PENETRATIONS OF SMOKE-BARRIER WALLS WHEN DUCT HAS OPENINGS ON BOTH SIDES OF THE WALL.
3. FIRE DAMPERS TO BE UL555 DYNAMIC CURTAIN STYLE TYPE "C" WITH ZERO (0) PERCENT OBSTRUCTION TO AIRFLOW. AS MANUFACTURED BY GREENHECK, RUSKIN, OR LEADER INDUSTRIES.
4. PROVIDE SWITCH PACKAGE FIRE/SMOKE DAMPERS TO ALLOW FOR REMOTE INDICATION OF DAMPER BLADE POSITION. COORDINATE WITH CONTROLS CONTRACTOR.

QUALITY ASSURANCE

1. CONTRACTOR IS RESPONSIBLE TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES. SEE ARCHITECTURAL DRAWINGS FOR APPLICABLE CODES. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN DESIGN AND LOCAL CODES. CONTRACTOR'S PRICING TO REFLECT INSTALLATION IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
2. NOTIFY ENGINEER OF ANY CONFLICTS ON THE DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS. FAILURE TO NOTE CONFLICTS WILL RESULT IN ADDITIONAL COSTS BEING THE RESPONSIBILITY OF THE CONTRACTOR.
3. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WHICH PUBLISH STANDARDS FOR THE VARIOUS TRADES.
4. EMPLOY ONLY QUALIFIED JOURNEYMEN FOR THIS WORK.
5. ADDITIONAL INSTALLATION COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT REQUIRING ADDITIONAL WORK ON THE PART OF THIS CONTRACTOR OR OTHER SUBCONTRACTORS TO SATISFY THE MANUFACTURER'S INSTALLATION REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE SUBMITTING CONTRACTOR.
6. SUPERVISE ALL WORK BY COMPETENT MECHANIC SPECIFICALLY QUALIFIED IN HIS DISCIPLINE.
7. ANY UNIT EQUIPPED WITH FINAL FILTERS SHALL NOT BE OPERATED WITHOUT THE FINAL FILTERS IN PLACE. IF UNIT IS OPERATED WITHOUT FINAL FILTERS IN PLACE, THE ENTIRE SUPPLY AIR DUCT SYSTEM MUST BE CLEANED IN ITS ENTIRETY.
8. CONTRACTOR IS REQUIRED TO DEMONSTRATE COMPLETE FUNCTIONALITY OF ALL DESIGNED AND INSTALLED SYSTEMS TO DESIGN TEAM UPON COMPLETION OF TEST & BALANCE OR SUBSTANTIAL COMPLETION. CONTRACTOR IS TO HAVE ALL REQUIRED PERSONNEL ON HAND, INCLUDING, BUT NOT LIMITED TO; MECHANICAL, ELECTRICAL, TEST AND BALANCE AGENT, AND CONTROLS.
9. FACTORY START-UP SHALL BE PROVIDED FOR ALL NEW EQUIPMENT. ALL EQUIPMENT WITH COMPRESSORS AND/OR EQUIPMENT CONTROLLED BY MICRO-PROCESSORS IS TO BE STARTED, ADJUSTED, AND VERIFIED FOR PROPER OPERATION WITH RESPECT TO THIS PROJECT BY FACTORY TRAINED AND CERTIFIED TECHNICIAN. NO EXCEPTIONS WILL BE ALLOWED.

REQUIRED COORDINATION

1. VISIT SITE AND BE INFORMED OF CONDITIONS UNDER WHICH WORK MUST BE PERFORMED.
2. NO SUBSEQUENT ALLOWANCE WILL BE MADE BECAUSE OF ERROR OR FAILURE TO OBTAIN NECESSARY INFORMATION TO COMPLETELY ESTIMATE AND PERFORM ALL WORK INVOLVED.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL DEVIATIONS ON THE SHOP DRAWINGS FROM THE SPECIFIED ITEM AND REVIEW OF THE SHOP DRAWINGS WITH NO EXCEPTIONS TAKEN WILL NOT BE CONSIDERED ACCEPTANCE OF THE DEVIATION UNLESS IT'S BEEN EXPLICITLY IDENTIFIED.
4. CAREFULLY EXAMINE DRAWINGS AND SPECIFICATIONS TO BE THOROUGHLY FAMILIAR WITH ITEMS WHICH REQUIRE PLUMBING OR HVAC CONNECTIONS AND COORDINATION.
5. NOTIFY OTHER TRADES OF ANY DEVIATIONS OR SPECIAL CONDITIONS NECESSARY FOR INSTALLATION OF WORK.
6. RESOLVE INTERFERENCES BETWEEN WORK OF OTHER TRADES PRIOR TO INSTALLATION OR FABRICATION.
7. ADVISE OTHERS TRADES TO LEAVE PROPER CHASES AND OPENINGS. PLACE OUTLETS, ANCHORS, SLEEVES AND SUPPORTS PRIOR TO POURING CONCRETE OR INSTALLATION OF MASONRY WORK.
8. COORDINATE ALL NECESSARY POWER CONNECTIONS AS RECOMMENDED BY THE MANUFACTURERS OF INSTALLED EQUIPMENT WITH ELECTRICAL TRADESMAN.
9. SHOULD THIS COORDINATION BE NEGLECTED, ANY CUTTING AND/OR PATCHING REQUIRED TO BE DONE AT CONTRACTOR'S EXPENSE.

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Acadia Mt. Regis Expansion
Location:	Salem (Salem (city)), Virginia
Climate Zone:	4a
Project Type:	Addition

Construction Site:
125 Knotbreak Rd
Salem, VA 24153

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
1	AHU-1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 12.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 33 kBtu/h, Proposed Efficiency = 14.60 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1155 CFM, 0.5 motor nameplate hp, 1.0 fan efficiency grade
1	AHU-2 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 12.00 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 33 kBtu/h, Proposed Efficiency = 14.60 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1155 CFM, 0.5 motor nameplate hp, 1.0 fan efficiency grade

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design 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 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Graham Davis - Mechanical — Name - Title
Signature
07 / 11 / 2024 — Date

Project Title: Acadia Mt. Regis Expansion
Data filename: P:\2024 Projects\24091 Acadia Mt. Regis Expansion\1 Drawings\Mechanical\Support Files\2409COMcheck.cck
Report date: 07/11/24
Page 1 of 11

MECHANICAL PIPING LEGEND	
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
E.O.M.	END OF MAIN DRIP
P.R.V.	PRESSURE REDUCING VALVE
T	STEAM TRAP
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CONTROL VALVE
	STRAINER WITH HOSE END DRAIN CONNECTION
	STRAINER AND BLOWDOWN VALVE
	B&G CIRCUIT SETTER, OR EQUAL, BALANCING VALVE
	PLUG COCK (BALANCING VALVE)
	UNION
	COMPANION FLANGE
	CHECK VALVE
	GUIDE
	ANCHOR
	PIPE REDUCER/INCREASER
	GAUGE & GAUGE COCK
	THERMOMETER

MECHANICAL DUCTWORK LEGEND	
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER
HDS-H HDR-H HDE-H	DUCT MOUNTED SMOKE DETECTOR (SUPPLY, RETURN, EXHAUST)
SC 240	SUPPLY DIFFUSER & AIR QUANTITY (INDICATES 4-WAY BLOW)
SC 240	SUPPLY DIFFUSER & AIR QUANTITY (INDICATES 3-WAY BLOW)
RC 240	RETURN AIR GRILLE & AIR QUANTITY
EC 240	EXHAUST AIR GRILLE & AIR QUANTITY
T / Tc	THERMOSTAT (ADJUSTABLE) / T'STAT (CONCEALED /KEY OPER.)
H / H|si	HUMIDISTAT / HUMIDITY SENSOR
S	TEMPERATURE SENSOR
P	BUILDING PRESSURE SENSOR
CO2 / CO	CARBON DIOXIDE SENSOR / CARBON MONOXIDE SENSOR
	REDUCER / TRANSITION
	SUPPLY OR OA DUCT TURNING UP
	SUPPLY OR OA DUCT TURNING DOWN
	RETURN OR EXHAUST DUCT TURNING UP
	RETURN OR EXHAUST DUCT TURNING DOWN
	BOOT TAP CONNECTION
	CONICAL TAP CONNECTION
	DUCT WITH INTERNAL SOUND LINER
	REHEAT COIL
1-01	VAV BOX WITH CLEARANCE AND IDENTIFICATION
	SQUARE ELBOW WITH TURNING VANES
	POINT OF DEMOLITION
	POINT OF CONNECTION
A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
A.F.R.	ABOVE FINISHED ROOF
E.S.D.	EMERGENCY SHUT-DOWN BUTTON FOR AHU UNIT

MECHANICAL SHEET INDEX	
M0.01	MECHANICAL LEGEND, SCHEDULES, AND NOTES
M0.02	MECHANICAL SCHEDULES
M1.01A	MECHANICAL FIRST FLOOR NEW WORK PLAN - PART A
M1.01B	MECHANICAL FIRST FLOOR NEW WORK PLAN - PART B
M2.01A	MECHANICAL PIPING FIRST FLOOR NEW WORK PLAN - PART A
M2.01B	MECHANICAL PIPING FIRST FLOOR NEW WORK PLAN - PART B
M3.01	MECHANICAL DETAILS
M3.02	MECHANICAL DETAILS
M4.01	MECHANICAL CONTROLS

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

tel 615.837.0656
fax 615.837.0657

4551 Trousdale
Nashville, TN

David E. Johnson
Architect

DEJA

24 Bed Addition for

Acadia - Mount Regis Center

Salem, Virginia

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M0.01

MECHANICAL LEGEND, SCHEDULES, AND NOTES

The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

AHU SCHEDULE - DX SPLIT SYSTEM HEAT PUMP

ACCESSORIES AVAILABLE:		1 - PROVIDE HONEYWELL 7-DAY PROGRAMMABLE THERMOSTAT		
		2 - AUX. DRAIN PAN W/ FLOAT SWITCH		
		3 - 2" PRE-FILTER		
		4 - HANGING ISOLATORS		
		5 - SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK		
		6 - EVAPORATOR DEFROST CONTROL		
DESIGNATION		AHU 1	AHU 2	
MANUFACTURER		TRANE	TRANE	
INDOOR UNIT	MODEL NO.	TEM6A0C4H41	TEM6A0C4H41	
	NOMINAL TONNAGE	3.5	3.5	
	SERVICE	A - WING	B - WING	
	TOTAL COOLING CAPACITY (MBH)	33.1	33.0	
	SENSIBLE COOLING CAPACITY (MBH)	27.0	26.7	
	E.A.D.B./E.A.W.B. (°F)	77.6 / 63.7	77.6 / 63.7	
	L.A.D.B./L.A.W.B. (°F)	56.0 / 53.7	56.0 / 53.5	
	TOTAL CFM	1,155	1,130	
	O.A. CFM	235	235	
	HEATING SOURCE	HEAT PUMP	HEAT PUMP	
	CAPACITY @ 47°F (MBH)	32.0	32.0	
	E.A.T. / L.A.T.	54.0 / 77.7	54.0 / 78.0	
	AUX. HEAT SOURCE	HOT WATER	HOT WATER	
	E.S.P. (IN. H2O)	1.0	1.0	
	FAN H.P.	1 / 2	1 / 2	
	FAN VOLTAGE	208 / 1 / 60	208 / 1 / 60	
	FAN F.L.A. / M.C.A. / M.O.C.P.	4.3 / 5 / 15	4.3 / 5 / 15	
	WEIGHT (LBS.)	200	200	
CONDENSING UNIT	DESIGNATION	CU 1	CU 2	
	MODEL NO.	4TWR4036	4TWR4036	
	VOLTAGE	208 / 1 / 60	208 / 1 / 60	
	F.L.A./M.C.A./M.O.C.P.	14.8 / 18 / 30	14.8 / 18 / 30	
	WEIGHT (LBS.)	150	150	
ACCESSORIES SUPPLIED		1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	

REMARKS:
- DISCONNECT BY ELEC DIV. UNLESS NOTED OTHERWISE.
- FAN SHALL BE SET TO RUN CONTINUOUSLY TO PROVIDE FRESH AIR AT ALL TIMES.

HOT WATER REHEAT COIL SCHEDULE

ACCESSORIES AVAILABLE:	1 - MODULATING 2-WAY CONTROL VALVE		
	2 - DIGITAL SPACE SENSOR		
DESIGNATION	HWC-1	HWC-2	
MANUFACTURER	TRANE	TRANE	
MODEL	W	W	
ROWS	1	1	
CFM	1,155	1130	
E.A.T. / L.A.T. (°F)	54 / 95.0	54 / 95.0	
G.P.M.	3.6	3.6	
MAX. WATER P.D.	5.0	5.0	
E.W.T. / L.W.T. (°F)	150.0 / 120.0	150.0 / 120.0	
ACCESSORIES SUPPLIED	1, 2	1, 2	

REMARKS:
- DUCT HEATER SIZE SHALL BE DETERMINED BY THE FINAL DUCT COORDINATION DRAWINGS.

VAV HOT WATER REHEAT BOX SCHEDULE

ACCESSORIES AVAILABLE:	1 - 24 VOLT TRANSFORMER				
	2 - DISCONNECT SWITCH				
	3 - 1 OR 2 ROW HEATING COIL				
	4 - DOUBLE-WALL CONSTRUCTION				
	5 - DDC CONTROLS SUPPLIED BY CONTROL CONTRACTOR - FACTORY INSTALLED				
DESIGNATION	1-32	1-33	1-34	1-35	
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	
MODEL NO.	VCWF	VCWF	VCWF	VCWF	
SIZE	10	10	10	10	
MAX. CFM	635	580	650	610	
MIN. CFM	360	355	365	375	
S.P. (IN. H2O)	0.25	0.25	0.25	0.25	
MAX. N.C.	25	25	25	25	
E.W.T. (°F)	150.0	150.0	150.0	150.0	
L.W.T. (°F)	120.0	120.0	120.0	120.0	
G.P.M.	1.2	1.2	1.2	1.2	
MAX. WATER P.D. (IN H2O)	10.0	10.0	10.0	10.0	
MAX. AIR P.D. (IN H2O)	0.25	0.25	0.25	0.25	
E.A.T. (°F)	55.0	55.0	55.0	55.0	
L.A.T. (°F)	100.0	100.0	100.0	100.0	
INLET DIAMETER	10"∅	10"∅	10"∅	10"∅	
VOLTAGE	120-1-60	120-1-60	120-1-60	120-1-60	
EMERGENCY POWER	YES	YES	YES	YES	
ACCESSORIES SUPPLIED	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	

REMARKS:
- BOXES ARE PRESSURE INDEPENDENT, WITH DDC VOLUME REGULATOR.
- IN ADDITION TO THE LISTED HEATING CAPACITIES, SELECT AND SUBMIT ALL BOX COILS TO SUPPLY 75° L.A.T. AT 110° E.W.T. FOR SUMMER OPERATION.

EXISTING ROOFTOP UNIT REBALANCE NOTE

1. AS A PART OF THIS PROJECT. THE EXISTING ROOFTOP UNIT 1 SHALL BE RE-BALANCED TO THE FOLLOWING CRITERIA:

   SUPPLY FAN - 15,225
   RETURN FAN - 12,180
   OUTSIDE AIR - 3,045

   CONTRACTOR IS RESPONSIBLE FOR REPLACING BELTS, MOTORS, SHEAVES, AND/OR PULLEYS IN ORDER TO OBTAIN NEW AIRFLOWS LISTED.

EXISTING EXHAUST FAN REBALANCE

REBALANCE AFFECTED EXISTING EXHAUST FANS TO ACHIEVE NEW AIRFLOWS LISTED.

EF-1 - 1,590 CFM
EF-2 - 1,590 CFM

DEJA
David E. Johnson Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

24 Bed Addition for
Acadia - Mount Regis Center
Salem, Virginia

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M0.02

MECHANICAL SCHEDULES

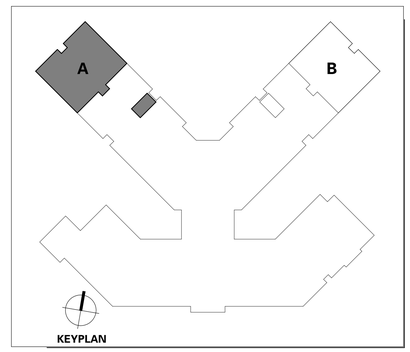
The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

MECHANICAL NEW WORK PLAN - PART A

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



KEYPLAN

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

WALL LEGEND

REFER TO W1.1 & W1.2 FOR ADDITIONAL INFO.
INC.USE = INCIDENTAL USE

SYMBOL	DESCRIPTION	DOOR/DAMPER	PRIORITY
	NON-RATED PARTITION	---	(-)
	SMOKE (RESISTIVE) PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE-IBC/HAZARDOUS-LSC)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR FIRE BARRIER (CORRIDOR)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR SMOKE BARRIER (SMOKE COMPARTMENT SEPARATION)	20 MIN, CLOSER, S DAMPERS	(1ST)

NEW WORK LEGEND

- NEW WORK
- EXISTING TO REMAIN
- POINT OF CONNECTION

GENERAL NOTES

A. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES
B. PROVIDE BALANCING DAMPER ON EACH TAP / RUNNOUT TO ALL DIFFUSERS
C. MOUNT ALL AIR HANDLING UNITS HORIZONTALLY, IN ATTIC BETWEEN TRUSSES ON EQUIPMENT PLATFORM.
D. PROVIDE REMOTE BALANCING DAMPER (PER DETAIL) FOR ANY MANUAL VOLUME DAMPERS LOCATED ABOVE HARD LID CEILING.

KEYED NOTES

1. REMOVE EXISTING CAP AT END OF DUCT RUN. CONNECT NEW DUCT.
2. 4" DRYER EXHAUST DUCT UP TO DRYER ROOF VENT EQUAL TO DRYERJACK ON ROOF. ROUTE DUCT SUCH THAT THE TOTAL EQUIVALENT LENGTH IS AS SHORT AS POSSIBLE. COORDINATE DRYER VENT REQUIREMENTS WITH GENERAL CONTRACTOR TO ENSURE DRYER VENT BOOSTER IS NOT REQUIRED FOR PURCHASED UNIT. ENSURE DISCHARGE IS A MINIMUM OF 25' FROM O.A. INTAKE.
3. PROVIDE RADIATION DAMPER AT PENETRATION THROUGH FIRE RATED CEILING PARTITION.
4. ROUTE DUCT OVER RATED CORRIDOR.

The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

DEJA
David E. Johnson Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

24 Bed Addition for

Acadia - Mount Regis Center

Salem, Virginia

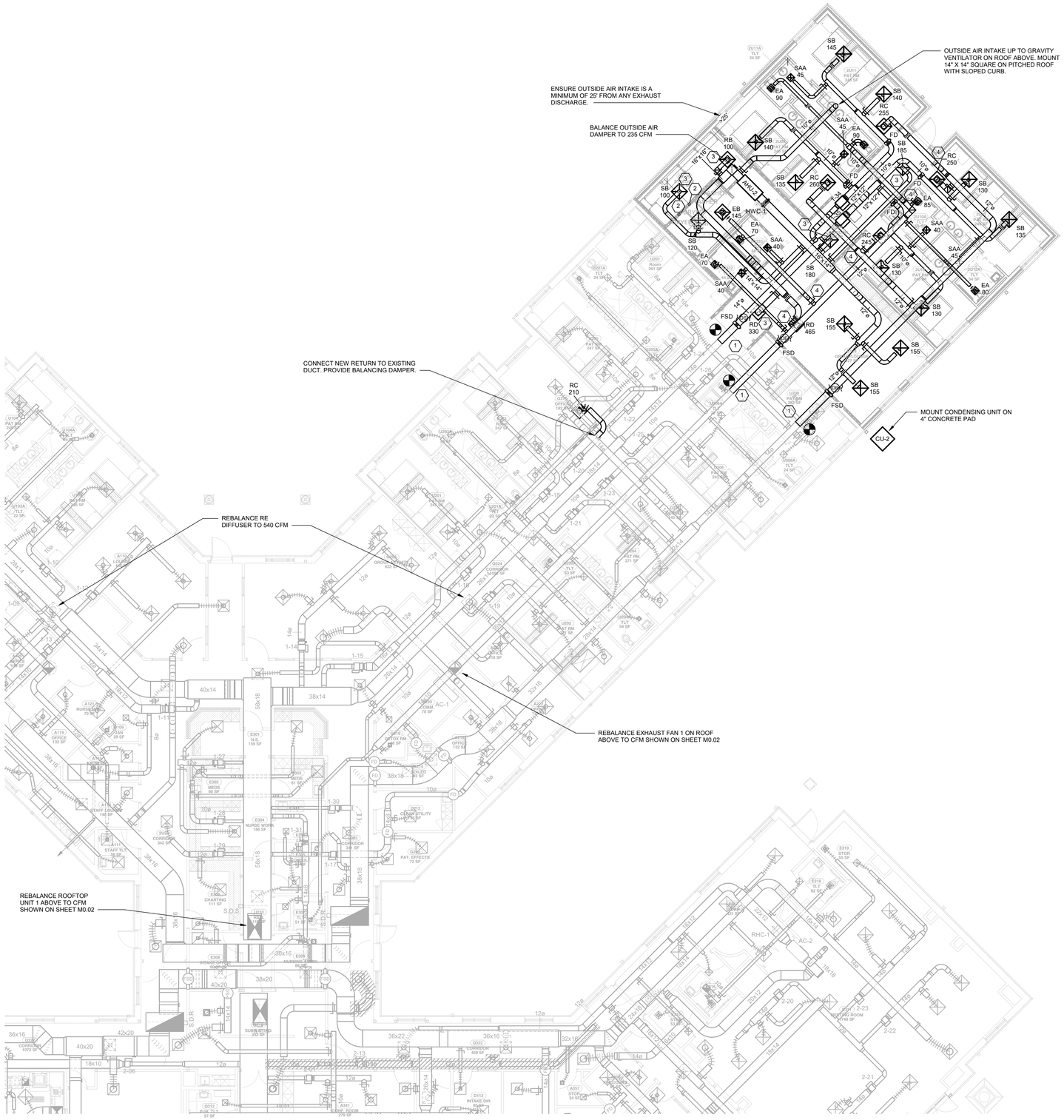
COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M1.01A

MECHANICAL FIRST FLOOR NEW WORK PLAN - PART A

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect



MECHANICAL NEW WORK PLAN - PART B

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

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

WALL LEGEND

REFER TO W1.1 & W1.2 FOR ADDITIONAL INFO.
INC.USE = INCIDENTAL USE

SYMBOL	DESCRIPTION	DOOR/DAMPER	PRIORITY
	NON-RATED PARTITION	...	(-)
	SMOKE (RESISTIVE) PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE-IBC/HAZARDOUS-LSC)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR FIRE BARRIER (CORRIDOR)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR SMOKE BARRIER (SMOKE COMPARTMENT SEPARATION)	20 MIN, CLOSER, S DAMPERS	(1ST)

NEW WORK LEGEND

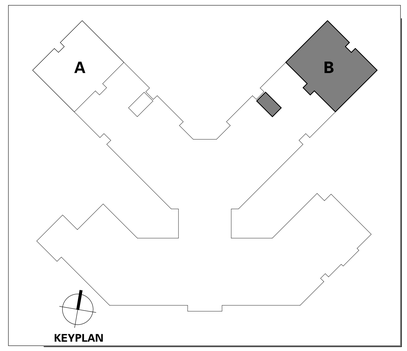
- NEW WORK
- EXISTING TO REMAIN
- POINT OF CONNECTION

GENERAL NOTES

A. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES
B. PROVIDE BALANCING DAMPER ON EACH TAP / RUNNOUT TO ALL DIFFUSERS
C. MOUNT ALL AIR HANDLING UNITS HORIZONTALLY, IN ATTIC BETWEEN TRUSSES ON EQUIPMENT PLATFORM.
D. PROVIDE REMOTE BALANCING DAMPER (PER DETAIL) FOR ANY MANUAL VOLUME DAMPERS LOCATED ABOVE HARD LID CEILING.

KEYED NOTES

1. REMOVE EXISTING CAP AT END OF DUCT RUN. CONNECT NEW DUCT.
2. 4" DRYER EXHAUST DUCT UP TO DRYER ROOF VENT EQUAL TO DRYERJACK ON ROOF. ROUTE DUCT SUCH THAT THE TOTAL EQUIVALENT LENGTH IS AS SHORT AS POSSIBLE. COORDINATE DRYER VENT REQUIREMENTS WITH GENERAL CONTRACTOR TO ENSURE DRYER VENT BOOSTER IS NOT REQUIRED FOR PURCHASED UNIT. ENSURE DISCHARGE IS A MINIMUM OF 25' FROM O.A. INTAKE.
3. PROVIDE RADIATION DAMPER AT PENETRATION THROUGH FIRE RATED CEILING PARTITION.
4. ROUTE DUCT OVER RATED CORRIDOR.



The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

DEJA

24 Bed Addition for

Acadia - Mount Regis Center

Salem, Virginia

David E. Johnson
Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

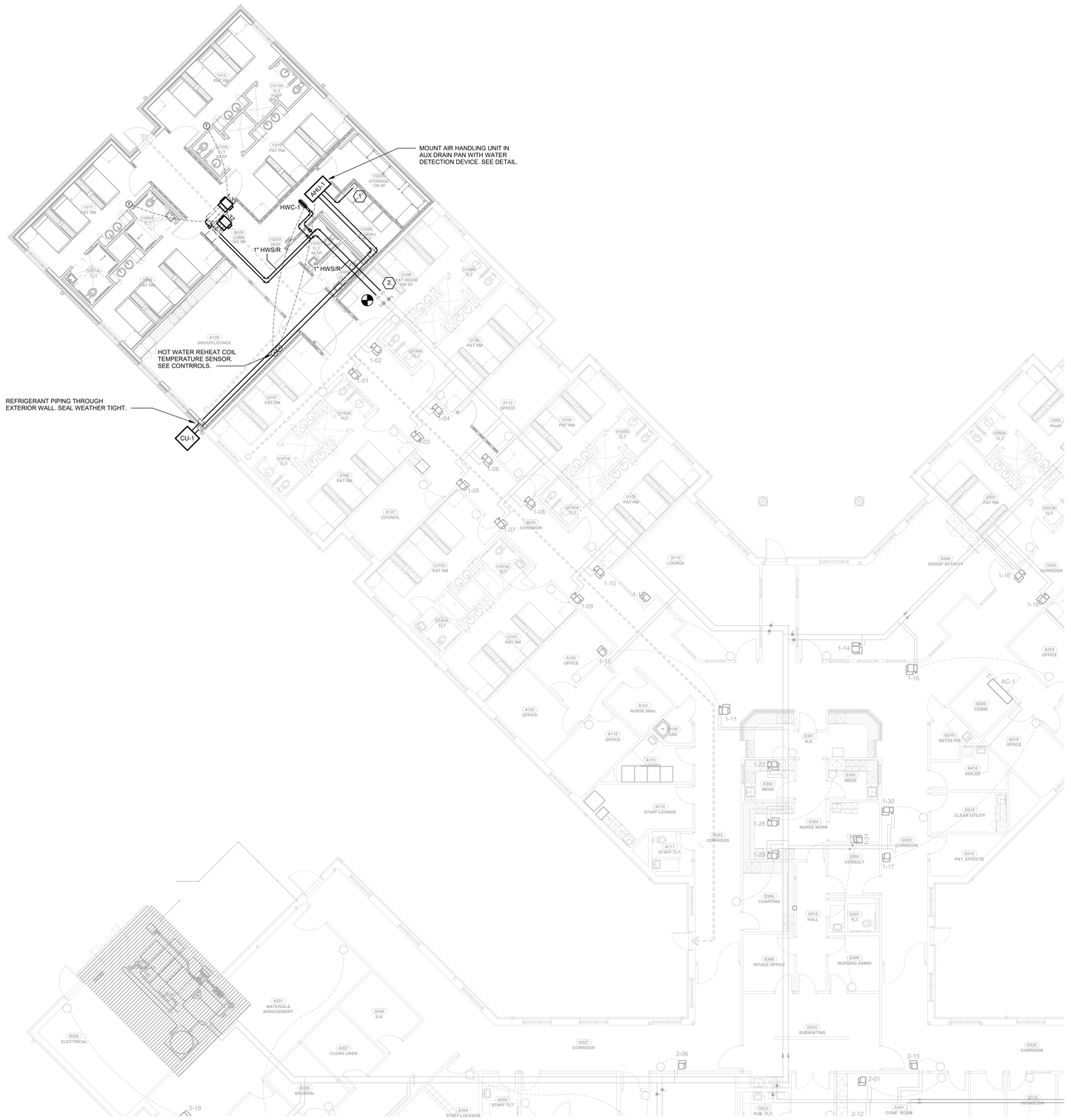
COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M1.01B

MECHANICAL FIRST FLOOR NEW WORK PLAN - PART B

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect



WALL LEGEND

REFER TO W1.1 & W1.2 FOR ADDITIONAL INFO.
INC.USE = INCIDENTAL USE

SYMBOL	DESCRIPTION	DOOR/DAMPER	PRIORITY
	NON-RATED PARTITION	...	(-)
	SMOKE (RESISTIVE) PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE-IBC/HAZARDOUS-LSC)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR FIRE BARRIER (CORRIDOR)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR SMOKE BARRIER (SMOKE COMPARTMENT SEPARATION)	20 MIN, CLOSER, S DAMPERS	(1ST)

NEW WORK LEGEND

	NEW WORK
	EXISTING TO REMAIN
	POINT OF CONNECTION

GENERAL NOTES

A. ROUTE REFRIGERANT PIPING AND TO CORRESPONDING CONDENSING UNIT. SIZE AND ROUTE PER MANUFACTURERS RECOMMENDATIONS.

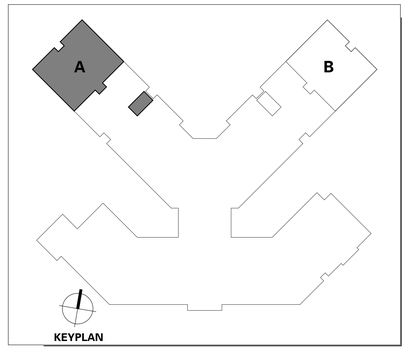
B. ALL HOT WATER PIPE RUNNOUTS TO BE 3/4" UNLESS OTHERWOSE NOTED.

KEYED NOTES

1. ROUTE CONDENSATE PIPING DOWN TO CONDENSATE BOX IN LAUNDRY ROOM. SEE PLUMBING FOR EXACT LOCATION.
2. REMOVE EXISTING CAP AT END OF PIPING RUN. CONNECT NEW PIPE.

MECHANICAL PIPING NEW WORK PLAN - PART A

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



The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

DEJA

David E. Johnson Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

24 Bed Addition for Acadia - Mount Regis Center

Salem, Virginia

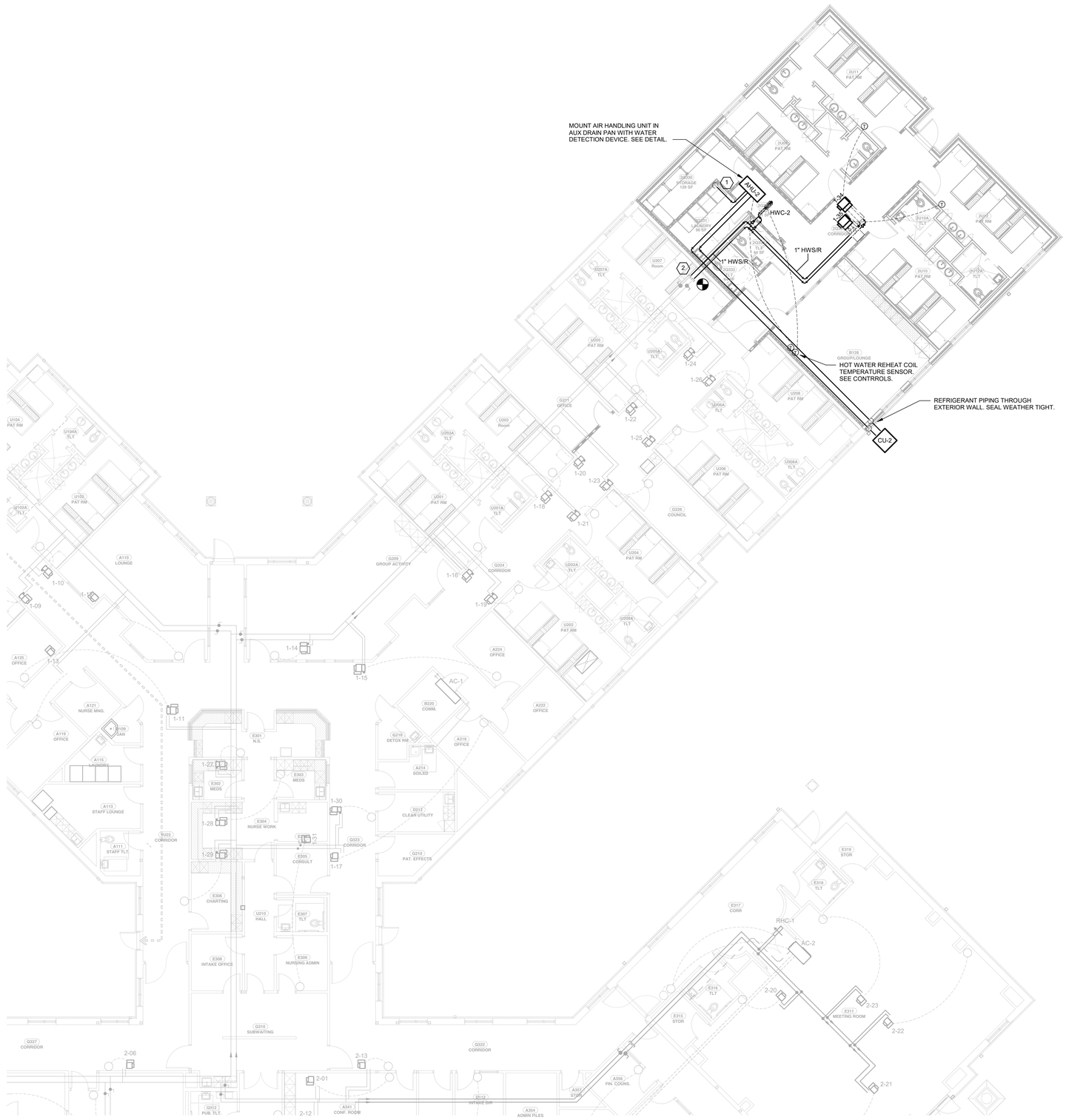
COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M2.01A

MECHANICAL PIPING FIRST FLOOR NEW WORK PLAN - PART A

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect



MECHANICAL PIPING NEW WORK PLAN - PART B

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

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

WALL LEGEND

REFER TO W1.1 & W1.2 FOR ADDITIONAL INFO.
INC.USE = INCIDENTAL USE

SYMBOL	DESCRIPTION	DOOR/DAMPER	PRIORITY
	NON-RATED PARTITION	...	(-)
	SMOKE (RESISTIVE) PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE-IBC/HAZARDOUS-LSC)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR FIRE BARRIER (CORRIDOR)	POSITIVE LATCH, 45 MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	1-HOUR SMOKE BARRIER (SMOKE COMPARTMENT SEPARATION)	20 MIN, CLOSER, S DAMPERS	(1ST)

NEW WORK LEGEND

- NEW WORK
- EXISTING TO REMAIN
- POINT OF CONNECTION

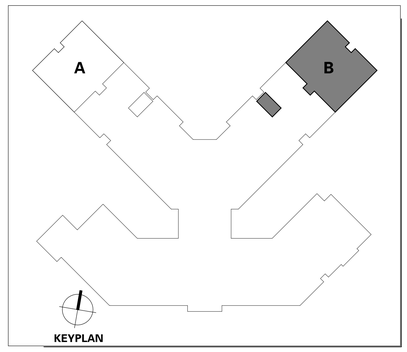
GENERAL NOTES

A. ROUTE REFRIGERANT PIPING AND TO CORRESPONDING CONDENSING UNIT. SIZE AND ROUTE PER MANUFACTURERS RECOMMENDATIONS.

B. ALL HOT WATER PIPE RUNNOUTS TO BE 3/4" UNLESS OTHERWOSE NOTED.

KEYED NOTES

1. ROUTE CONDENSATE PIPING DOWN TO CONDENSATE BOX IN LAUNDRY ROOM. SEE PLUMBING FOR EXACT LOCATION.
2. REMOVE EXISTING CAP AT END OF PIPING RUN. CONNECT NEW PIPE.



The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

DEJA

24 Bed Addition for

Acadia - Mount Regis Center

Salem, Virginia

David E. Johnson
Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M2.01B

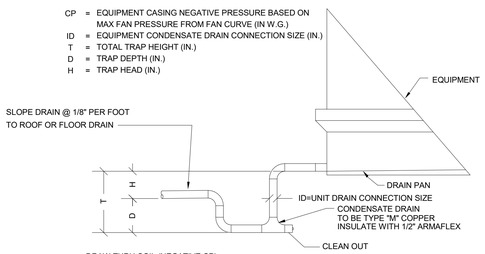
MECHANICAL PIPING FIRST FLOOR NEW WORK PLAN - PART B

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

DEJA
David E. Johnson Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

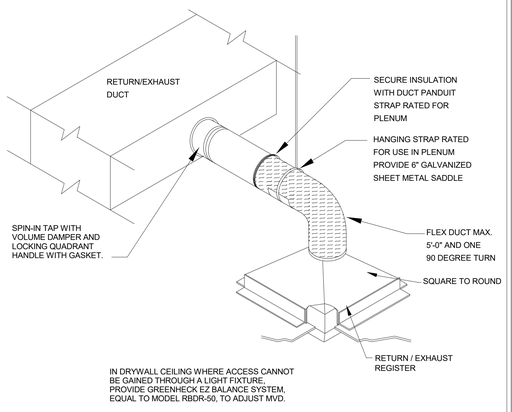
CP = EQUIPMENT CASING NEGATIVE PRESSURE BASED ON MAX FAN PRESSURE FROM FAN CURVE (IN W.G.)
ID = EQUIPMENT CONDENSATE DRAIN CONNECTION SIZE (IN.)
T = TOTAL TRAP HEIGHT (IN.)
D = TRAP DEPTH (IN.)
H = TRAP HEAD (IN.)



DRAW THRU COIL (NEGATIVE CP)
H = CP + 1
D = (1/2 x H) + ID
T = D + H

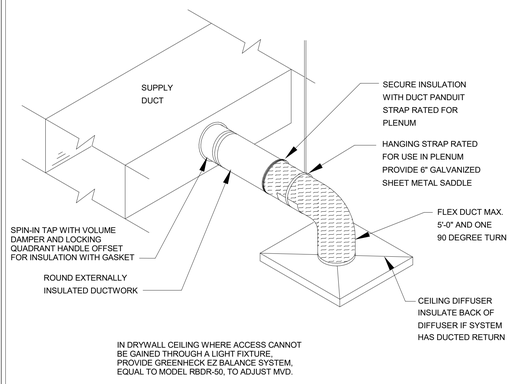
CONDENSATE DRAIN DETAIL

NOT TO SCALE



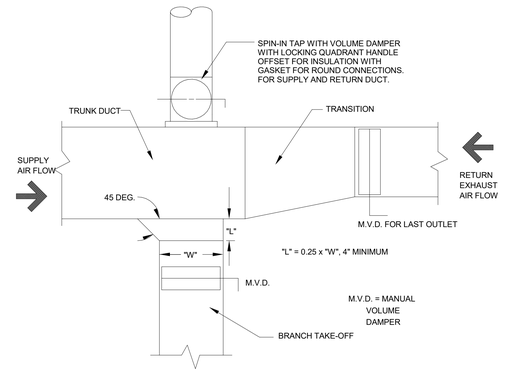
TYPICAL RETURN/EXHAUST CONNECTION DETAIL

NOT TO SCALE



TYPICAL SUPPLY DIFFUSER RUNOUT DETAIL

NOT TO SCALE

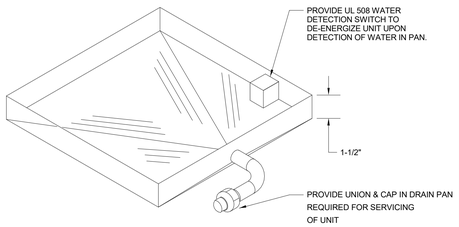


RECT. L.P. MAIN DUCT BRANCH TAKE-OFF DETAIL

NOT TO SCALE

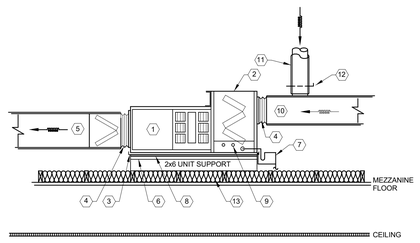
DRAIN PAN NOTES:

1. DRAIN PAN TO BE 20 GA. GALVANIZED SHEET METAL WITH SOLDERED JOINTS.
2. BOTTOM OF PAN TO BE CROSS-BROKEN IN SUCH A MANNER AS TO DIRECT THE WATER FLOW TOWARD THE OUTLET.
3. LOCATE OUTLET FOR EASY VISIBILITY AND ACCESS.
4. MIN. SIZE OF PAN = 6" GREATER THAN UNIT SIZE.



AUXILIARY DRAIN PAN DETAIL

NOT TO SCALE



KEY NOTES:

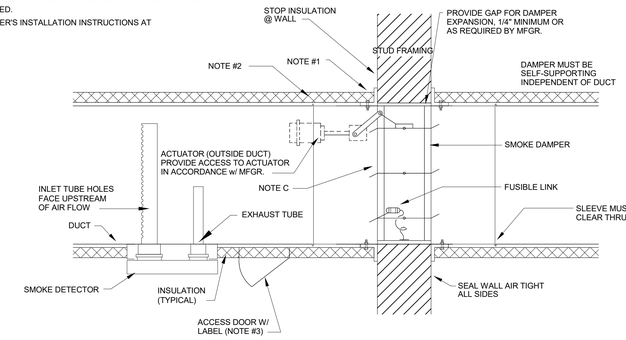
1. ELECTRIC AIR HANDLING UNIT.
2. DX COOLING COIL SECTION.
3. GALVANIZED SHEET METAL AUXILIARY DRAIN PAN UNDER COMPLETE UNIT.
4. FLEXIBLE CONNECTION.
5. SUPPLY DUCT SHALL BE INSTALLED ABOVE RATED TUNNEL IN ATTIC.
6. PLYWOOD BOARD UNIT SUPPORT.
7. CONDENSATE DRAIN. ROUTE TO CONDENSATE BOX AS INDICATED ON DRAWING.
8. 1" CORK VIBRATION ISOLATION PAD.
9. REFRIGERANT LINE CONNECTIONS. SIZE LINES PER MANUFACTURER'S RECOMMENDATIONS.
10. RETURN AIR DUCTWORK INSTALLED ABOVE RATED TUNNEL IN ATTIC.
11. OUTSIDE AIR DUCT.
12. MANUAL VOLUME DAMPER. REFER TO DRAWING FOR CFM.
13. INSULATION.

TYPICAL AIR HANDLING UNIT INSTALLATION IN ATTIC DETAIL

NOT TO SCALE

FIRE AND SMOKE DAMPER NOTES:

1. RETAINING ANGLES, RETAINING ANGLES MUST LAP STRUCT. OPENING 1" MIN. & COVER CORNERS OF OPENINGS.
2. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY JOINTS AS REQUIRED BY THE MANUFACTURER.
3. INSTALL ACCESS DOOR OR PANEL (12"X12" MINIMUM) WITH LABEL FOR SERVICE & INSPECTION.
4. THE FIRE/SMOKE DAMPER MANUFACTURER'S INSTALLATION DETAILS & INSTRUCTIONS AS TESTED & APPROVED BY UL MUST BE USED.
5. PROVIDE A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT THE FINAL INSPECTION.



FIRE CAULKING IS NOT ALLOWED AT THE ANGLES FOR FIRE OR FIRE/SMOKE DAMPER INSTALLATIONS. FIRE DAMPERS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE SMACNA FIRE DAMPER GUIDE WITH PROPER DRYWALL GAPS AND DRYWALL INSTALLATION (NOT MUD OR TAPE TO FILL THE EXCESS GAP). ANY UL TESTED DAMPER ASSEMBLY OR DAMPER MANUFACTURER'S INSTRUCTIONS THAT HAVE FIRE CAULKING AS PART OF THE INSTALLATION WILL BE ACCEPTED AS LONG AS THE CAULKING IS DONE EXACTLY PER THE PROCEDURES.
IF THE LOCAL OR STATE FIRE OFFICIALS REQUIRE FIRE CAULKING, THEN A LETTER FROM THESE OFFICIALS WILL BE REQUIRED STATING THAT THE FIRE CAULKING IS REQUIRED, WHAT MATERIAL IS TO BE USED AND HOW IT IS TO BE APPLIED.

ALL FIRE DAMPERS ARE TO BE INSTALLED IN FRAMED OPENINGS IN THE RATED PARTITION. THE FRAMED OPENINGS SHALL HAVE EXPANSION GAPS ON ALL FOUR SIDES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FRAME TOP, BOTTOM, AND BOTH SIDES.

NOTES:

A. SEE MECHANICAL SPECIFICATIONS FOR TYPE OF DAMPERS.

B. DAMPER SHALL BE TESTED IN ACCORDANCE WITH "UL 555S" AND BEAR U.L. LABEL.

C. PROVIDE AIRFOIL BLADE DESIGN FOR ALL MEDIUM PRESSURE DUCT INSTALLATIONS

D. SMOKE DETECTOR SHALL BE PROVIDED WITHIN 5'-0" OF DAMPER w/ NO OUTLETS OR INLETS BETWEEN DETECTOR & DAMPER UNLESS LOCATED IN A CORRIDOR WALL WHICH HAS AN AREA SMOKE DETECTOR IN IT. DETECTOR TO BE PROVIDED BY ELECTRICAL / FIRE ALARM CONTRACTOR TO ENSURE PROPER FIRE ALARM INTEGRATION.

COMBINATION FIRE/SMOKE DAMPER DETAIL "UL 555S"

NOT TO SCALE

24 Bed Addition for
Acadia - Mount Regis Center
Salem, Virginia

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M3.01

MECHANICAL DETAILS

The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

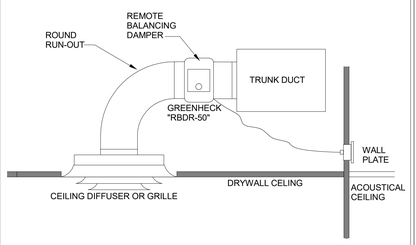
Construction Documents

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

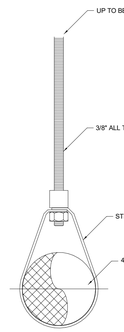
enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091

DEJA
David E. Johnson Architect
4551 Trousdale Nashville, TN
tel 615.837.0656
fax 615.837.0657

24 Bed Addition for
Acadia - Mount Regis Center
Salem, Virginia

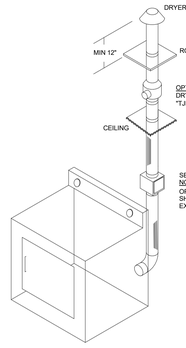


REMOTE BALANCING DAMPER DETAIL
NOT TO SCALE

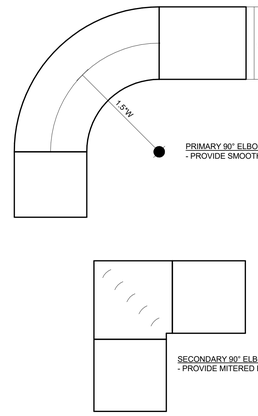


PIPE HANGER DETAIL
NOT TO SCALE

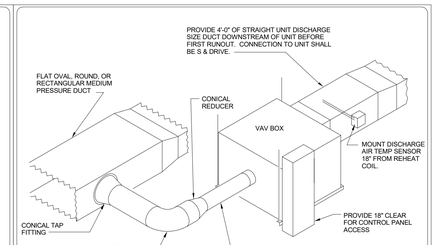
NOTE:
INSTALL DRYER VENT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL LINT TRAP AND BOOSTER FAN IF ACTUAL TOTAL DEVELOPED LENGTH EXCEEDS MANUFACTURER'S ALLOWABLE LENGTH. SEE PLANS FOR OVERALL DRYER VENT LENGTH.



DRYER VENT DETAIL
NOT TO SCALE



90° BEND IN DUCTWORK DETAIL
NOT TO SCALE

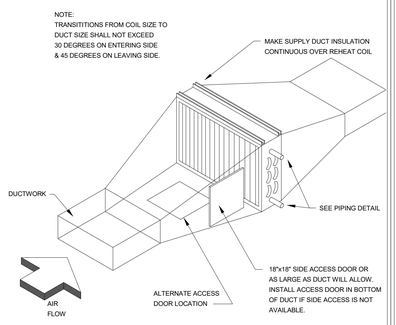


NOTES:

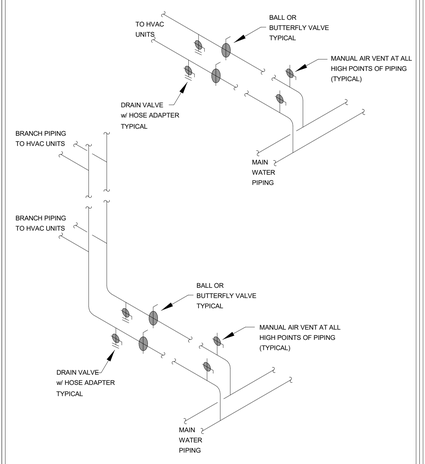
1. CENTER LINE OF BOX INLET MUST ALIGN WITH CENTER LINE OF MEDIUM PRESSURE DUCT WITH NO MORE THAN A 15 DEGREE OFFSET.
2. TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45 DEGREE ENTRY, SIZED PER SMACNA RECOMMENDATIONS, AND THEN TRANSITION TO ROUND.
3. MEDIUM PRESSURE ROUND OR FLAT OVAL TRUNK DUCT TO HAVE CONICAL TEE FITTING, OR SADDLE TAP WITH OTHER REQUIREMENTS AS SHOWN.
4. BOXES 1,400 CFM OR SMALLER TO BE SUPPORTED WITH 1-1/2" x 1/8" GALVANIZED BAND IRON ON FOUR CORNERS. BOXES GREATER THAN 1,400 CFM SHALL HAVE TRAPEZE SUPPORT OF REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
5. COORDINATE REQUIREMENTS FOR CEILING ACCESS PANELS.
6. ALL TERMINAL BOXES ARE TO BE DOUBLE WALL CONSTRUCTION.

VAV BOX DETAIL
NOT TO SCALE

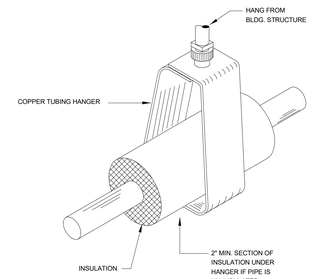
NOTE:
TRANSITIONS FROM COIL SIZE TO DUCT SIZE SHALL NOT EXCEED 30 DEGREES ON ENTERING SIDE & 45 DEGREES ON LEAVING SIDE.



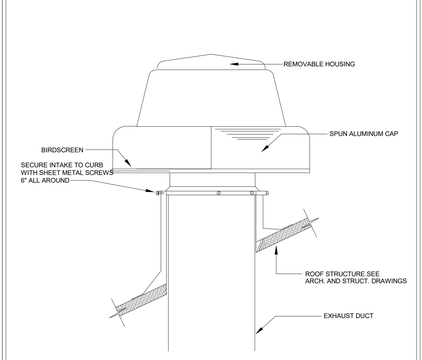
DUCT MOUNTED REHEAT COIL DETAIL
NOT TO SCALE



BRANCH SYSTEM PIPING DETAIL
NOT TO SCALE



REFRIGERANT PIPE HANGER DETAIL
NOT TO SCALE



ROOF INTAKE VENT DETAIL
NOT TO SCALE

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M3.02

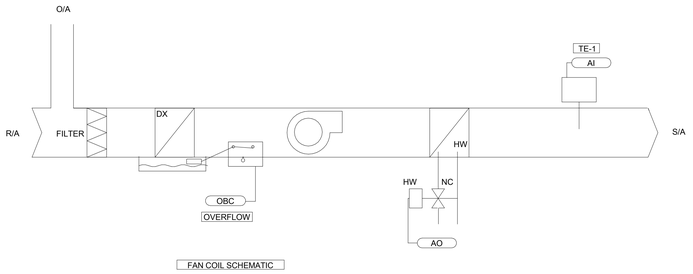
MECHANICAL DETAILS

The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

This drawing shall not be reproduced, published, stored in an electronic retrieval system, or used in any way without written permission of the Architect. Copyright © 2024 David E. Johnson Architect

enfinity engineering
CityPark Building 6
214 Centerview Drive, Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 24091



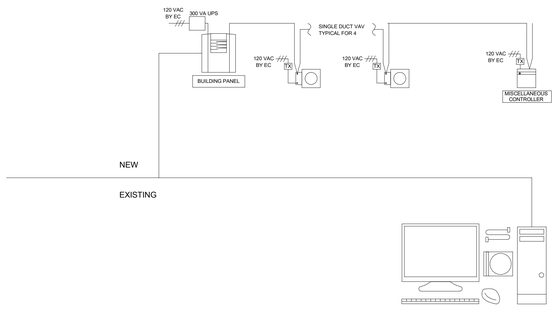
FAN COIL SCHEMATIC

HEAT PUMP CONTROL

CONTROLS SEQUENCE OF OPERATION

1. THE HEAT PUMP SHALL BE CONTROLLED BY THE LOCAL 7-DAY PROGRAMMABLE THERMOSTAT.
2. TEMPERATURE SENSOR IN THE SPACE SHALL SEND A SIGNAL TO THE CONTROLLER. IF THE SPACE TEMPERATURE RISES ABOVE THE SPACE COOLING SETPOINT, THE CONTROLLER SHALL ACTIVATE COOLING, TO MAINTAIN SPACE COOLING SET POINT. WHEN THE SPACE TEMPERATURE HAS BEEN SATISFIED THE COOLING COMMAND SHALL STOP. IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE HEATING SETPOINT, THE CONTROLLER SHALL ACTIVATE HEAT PUMP MODE, TO MAINTAIN SPACE HEATING SET POINT. WHEN THE SPACE TEMPERATURE HAS BEEN SATISFIED THE HEAT PUMP CYCLE SHALL STOP.
3. HEATING WATER REHEAT COIL CONTROL - IF SPACE TEMPERATURE IS BELOW SETPOINT FOR 5 MINUTES WITH HEAT PUMP ACTIVE IN HEATING MODE, THE CONTROL VALVE SHALL MODULATE OPEN TO SATISFY ROOM HEATING SETPOINT. VALVE SHALL MODULATE CLOSED WHEN SPACE TEMPERATURE SETPOINT IS SATISFIED.
4. SUPPLY FAN CONTROL

   THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED MODE. THE SUPPLY FAN SHALL CYCLE UPON A CALL FOR COOLING/HEATING IN THE UNOCCUPIED MODE.

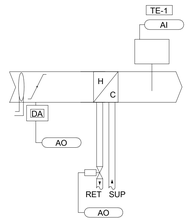


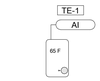
CONNECT TO NEW EQUIPMENT AND MAP THROUGH ALL POINTS AND ALARMS TO EXISTING DDC CONTROLS.
UPDATE GRAPHICS TO REFLECT NEW FLOOR PLAN AND EQUIPMENT.

BUILDING AUTOMATION SYSTEM RISER DIAGRAM

SMOKE DAMPER CONTROL

GENERAL: ALL SMOKE DAMPERS ARE TO BE POWERED OPEN. SMOKE DAMPERS ARE TO CLOSE ON LOSS OF POWER, OR BY THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL SHUT DOWN AHUS AND CLOSE SMOKE DAMPERS IN THE SMOKE COMPARTMENT IN WHICH A DUCT SMOKE DETECTOR IS ACTIVATED AND IN ALL ADJACENT SMOKE COMPARTMENTS. ALL DAMPERS SHALL CLOSE ON A LOSS OF POWER TO THE AIR HANDLER/ROOFTOP UNIT. END SWITCHES SHALL BE MONITORED ON EACH DAMPER AND SHALL REPORT TO THE FRONT END SYSTEM TO ALERT BUILDING STAFF THAT DAMPER IS CLOSED.





WALL MOUNTED TEMPERATURE SENSORS WITH DIGITAL DISPLAY

VAV BOX WITH HOT WATER REHEAT

GENERAL

ALL CAV/VAV TERMINAL REHEAT BOXES HAVE A MODULATING AIR VALVE TO CONTROL THE VOLUME OF AIR FLOWING TO THE DIFFUSERS SERVED BY THAT BOX USING PID BASED CONTROL ALGORITHMS. IN VARIABLE AIR VOLUME (VAV) APPLICATIONS, THE AIR VOLUME IS MODULATED BETWEEN A MAXIMUM AND MINIMUM SET POINT (ADJUSTABLE). IN CONSTANT AIR VOLUME APPLICATIONS (CAV), THE AIR VOLUME IS MAINTAINED AT A CONSTANT SET POINT (ADJUSTABLE).

COOLING OPERATION-VAV

AT 0% CALL FOR COOLING (SPACE TEMPERATURE = SET POINT), THE AIR VALVE IS MODULATED TO MAINTAIN THE MINIMUM AIR FLOW SET POINT. AS THE SPACE TEMPERATURE RISES ABOVE THE SET POINT, THE AIR VALVE IS MODULATED TO THE MAXIMUM AIR FLOW SET POINT.

COOLING OPERATION-CAV

THE AIR VALVE IS MODULATED TO MAINTAIN THE AIR FLOW SET POINT.

HEATING OPERATION-VAV

AS SPACE TEMPERATURE DROPS BELOW SET POINT, THE AIR VALVE IS MODULATED TO THE MINIMUM AIR FLOW SET POINT AND THE HEATING WATER VALVE IS MODULATED OPEN USING PID BASED CONTROL ALGORITHMS. AT 0% CALL FOR HEATING (SPACE TEMPERATURE = SET POINT), THE AIR VALVE IS MODULATED TO MAINTAIN THE MINIMUM AIR FLOW SET POINT AND THE HEATING WATER VALVE IS CLOSED USING PID BASED CONTROL ALGORITHMS.

SYSTEM POINTS LIST FOR VAV BOXES

SYSTEM POINT DESCRIPTION VAV BOXES	ANALOG INPUT: TEMPERATURE	ANALOG INPUT: CFM	ANALOG INPUT: -	ANALOG OUTPUT: DDC (4-20 ma, 0-10 vdc)	ANALOG OUTPUT: SETPOINT ADJUSTMENT	ANALOG OUTPUT: -	BINARY INPUT: PNEUMATIC TRANSDUCER	BINARY INPUT: STATUS ON/OFF	BINARY INPUT: TIMED OVERRIDE	BINARY INPUT: -	BINARY OUTPUT: OPEN/CLOSE	BINARY OUTPUT: LOCK OUT	BINARY OUTPUT: -	SYSTEM FEATURES: ALARMS: HIGH ANALOG	LOW ANALOG	BINARY	PROOF	SENSOR FAIL	FLOW FAIL	COMMUNICATION FAIL	LOCKOUT	DIAGNOSTICS	-	SYSTEM FEATURES: PROGRAMS: TIME SCHEDULING	OPTIMUM START/STOP	DEMAND LIMITING	RESET	EVENT PROGRAM	DDC	ALARM	MAINT WORK ORDER	RUN TIME	TOTALIZING	TIMED OVERRIDE	SET BACKSET UP	NIGHT PURGE	TREND LOG	-	NOTES
ZONE TEMPERATURE	X													X	X			X		X																	
HEATING SETPOINT				X	X																																
COOLING SETPOINT				X	X																																
CFM		X		X															X																		
MAXIMUM CFM					X																																
MINIMUM CFM					X																																
HEATING MINIMUM CFM					X																																
ZONE HEAT STATUS								X																													
LEAVING TEMPERATURE	X													X	X			X																			
WATER VALVE				X																																	
LOCKOUT FAN																																					
LOCKOUT HEAT												X																									
TIMED OVERRIDE REQUEST									X																												
NOTES:																																					

THE POINTS LISTED ABOVE ARE NOT NECESSARILY REPRESENTATIVE OF ALL REQUIRED POINTS FOR THIS PROJECT. THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED POINTS TO ACCOMPLISH THE SEQUENCES OF OPERATION LISTED ON THE CONTROLS SHEETS FOR THIS PROJECT.

The Design Professional's electronic or digital seal or signature is effective only as to the version of this document as originally published by the Design Professional. The Design Professional is not responsible for any subsequent modification, corruption, or unauthorized use of such document. To verify the validity or applicability of the seal or signature, contact the Design Professional.

Construction Documents

DEJA
David E. Johnson Architect
4551 Trousdale
Nashville, TN
tel 615.837.0656
fax 615.837.0657

24 Bed Addition for
Acadia - Mount Regis Center
Salem, Virginia

COMMONWEALTH OF VIRGINIA
RYAN P. CLEARY
Lic. No. 0402063473
7/25/24
PROFESSIONAL ENGINEER

PROJECT
24054.00
DAT
7/25/2024

M4.01

MECHANICAL CONTROLS