LEGEND

ALL MAY NOT APPLY

- SUPPLY DIFFUSER
- OPTIONAL AIR DISTRIBUTION CORE STYLE (REFER TO MANUFACTURER FOR MORE OPTIONS) — 2-WAY, 3-WAY
- RETURN GRILLE
- EXHAUST GRILLE
- AIR HANDLING UNIT (VERTICAL/HORIZONTAL)
- CEILING RECESSED AIR HANDLER
- WALL MOUNT AIR HANDLER
- 1 OR 4-WAY CEILING MOUNT CASSETTE AIR HANDLER
- BCU-# — BC CONTROLLER
- CU/HP-# — CONDENSING UNIT HEAT PUMP
- EF-# — CEILING MOUNTED EXHAUST FAN
- MANUAL BALANCING DAMPER
- SD — DUCT MOUNTED SMOKE DETECTOR
- TS — DUCT MOUNTED TEMPERATURE SENSOR
- M — DUCT MOUNTED MOTORIZED DAMPER
- BD — DUCT MOUNTED BACKDRAFT DAMPER
- BARO — DUCT MOUNTED BAROMETRIC DAMPER
- DUCT CONTINUES UP
- THERMOMETER
- PRESSURE GAUGE
- H — DUCT HUMIDITY SENSOR
- DUCT FLOW METER
- M — MOTORIZED CONTROL VALVE
- BALANCING VALVE
- SHUT-OFF/ISOLATION VALVE
- SA/RA TAKE-OFF WITH FLEX TAKE-OFF W/ DAMPER
- SA/RA TAKE-OFF WITH RIGID DUCT TAKE-OFF W/ DAMPER
- SQUARE TO ROUND
- DEMOLITION HATCH INDICATION

EQUIPMENT, PIPE, DUCT, FITTINGS, ETC TO BE DEMOLISHED WILL BE INDICATED SPECIFICALLY OR BY HATCHED MARKING.

AIR DISTRIBUTION DEVICE TAG

A — DEVICE TAG
110 — AIRFLOW (CFM)
6x6 — DEVICE SIZE

SUPPLY/RETURN DUCT
FIRST DIMENSION = WIDTH
SECOND DIMENSION =HEIGHT — W x H

SUPPLY/RETURN DUCT
ROUND PIPE
D=INSIDE DIAMETER DIMENSION — DØ

- # — DEMOLITION KEYNOTE
- # — KEYNOTE
- CONNECT TO EXISTING AT THIS POINT
- DEMOLISH BACK TO THIS POINT
- ACCESS PANEL
- UNION
- FLEXIBLE CONNECTION
- CHECK VALVE
- STRAINER
- PUMP
- T — TEMPERATURE SENSOR
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- FD/SD — COMBINATION FIRE/SMOKE DAMPER
- C — CONDENSATE DRAIN PIPE
- C — CLEAN-OUT IN CD
- CD TRAP (REFER TO DETAIL)
- REF — INSULATED REFRIGERANT LINES
- T — THERMOSTAT
- S — SENSOR - ZONE SENSOR
- TS — TEMPERATURE SENSOR
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- DG / UC — DOOR GRILLE AND 1" UNDERCUT

ABBREVIATIONS

ALL MAY NOT APPLY

AHU	AIR HANDLING UNIT
BTU	BRITISH THERMAL UNIT
CD	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CRAH	COMPUTER ROOM AIR HANDLER
CRCU	COMPUTER ROOM CU
CHS	CONDENSING UNIT
CWS	CHILLED WATER SUPPLY
ΔP	DIFFERENCE IN PRESSURE
ΔT	DIFFERENCE IN TEMPERATURE
DB	DRY BULB TEMPERATURE (DEG. F)
DEG. F	DEGREES FAHRENHEIT
DDC	DISTRIBUTED DIGITAL CONTROLS
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE (In W.C.)
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
FD	FIRE DAMPER
FPI	FINS PER INCH
GPM	GALLONS PER MINUTE
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
HP	HEAT PUMP
HWS	HOT WATER SUPPLY
In W.C.	INCHES OF WATER COLUMN
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1,000 BTUS PER HOUR
MFG.	MANUFACTURER
OA	OUTSIDE AIR
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RND	ROUND
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SM	SURFACE MOUNTED
SS	STAINLESS STEEL
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
V/PZ	VOLT/PHASE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TERMPERATURE (DEG. F)

CODE REFERENCE (ALL MAY NOT APPLY)

ALL MAY NOT APPLY

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

IBC, BUILDING INTERNATIONAL BUILDING CODE 2024

IBC, MECHANICAL INTERNATIONAL BUILDING CODE 2024

IBC, EXISTING BUILDING INTERNATIONAL BUILDING CODE 2024

IBC, FUEL GAS INTERNATIONAL BUILDING CODE 2024

IBC, ENERGY CONSERVATION INTERNATIONAL BUILDING CODE 2024

FFPC INTERNATIONAL FIRE PREVENTION CODE, 2018

NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS

NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK

NFPA 54 NATIONAL FUEL GAS CODE

NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS

NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS

NFPA 101 LIFE SAFETY CODE

NFPA 101A GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

NFPA 101B CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES

NFPA 900 BUILDING ENERGY CODE

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE

ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ADA AMERICAN WITH DISABILITIES ACT

UL UNDERWRITERS LABORATORIES

THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT BE RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.

CODE REFERENCES SHALL INCLUDE 2020 AND 2022 ADMENDMENTS TO CONFORM TO GEORGIA COMMUNITY AFFAIRS AND LOCAL GOVERNMENT REQUIREMENTS.

DUCTWORK SPECIFICATIONS

1.SHEET METAL DUCTWORK

1.1.DUCT MATERIAL CLASS "A" GALVANIZED STEEL OR ROLLED STEEL IN COMPLIANCE WITH SMACNA 205-3RD EDITION LOW/MEDIUM PRESSURE DUCT STANDARDS TABLE 1.1. DUCTS SHALL BE TESTED, VERIFIED AND RECORDED IN ACCORDANCE WITH ASHRAE 90.1-2013 REQUIREMENT BASED ON LEAKAGE RATE LESS THAN 4% PER 100SF OF DUCT.

1.2.SEALER: LOW VOC MASTIC PAINT.

2.GENERAL:

2.1.LINES SHALL BE RUN STRAIGHT, LEVEL, PLUMB, AND ROUTED AS INDICATED IN THESE DRAWINGS. ALL LABELED DUCT DIMENSIONS ARE INTERNAL SIZES AND INDICATE FULL INSIDE CLEAR FREE AREA.

2.2.MINOR MODIFICATIONS TO DUCT ROUTING DUE TO OBSTRUCTIONS OR COORDINATION WITH OTHER TRADES WILL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER. ANY CHANGES IN SIZE TO DUCTWORK MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.

2.3.ALL MITERED RECTANGULAR DUCT 90 DEGREE ELBOWS SHALL BE PROVIDED WITH TURNING VANES.

2.4.ALL SUPPLY, RETURN AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED UNLESS OTHERWISE NOTED. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE MICROLIGHT XL 2" THICK 0.75 PCF R6.0 OUT OF THE BOX WITH FSK VAPOR BARRIER. SEAL WITH FIRE RATED MASTIC SEAL PER UL-181A-M AT ALL JOINTS AND SEAMS; OR APPROVED ACRYLIC FOIL PRESSURE SENSITIVE TAPE PER UL-181A-P APPLIED USING SQUEEGEE APPROVED METHOD AT JOINTS AND SEAMS. RUBBER BASE TAPES ARE NOT ALLOWED.

2.5.DUCTBOARD IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD.

2.6.DUCTS SHALL HAVE MINIMUM INSULATION VALUES AS LISTED IN FBC-EC 403.2.9.1.

3.FLEXIBLE DUCTS:

3.1.DUCT TO AIR TERMINALS SHALL BE LIMITED IN LENGTH AS SHOWN IN DETAILS.

3.2.SHALL BE UL LISTED AS A CLASS 1 AIR DUCT COMPLYING WITH UL STANDARD 181, NFPA 90A & 90B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE DEVELOPMENT RATING NOT OVER 50.

3.3.SHALL HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT SHALL HAVE BEEN TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200° F UNDER CONTINUOUS OPERATION.

3.4.SHALL BE RATED FOR A MINIMUM AIR VELOCITY OF 5000 FPM.

3.5.INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS. SUPPLY DUCTS SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 4.2, BUT R-6 FOR SUPPLY DUCT IN ATTIC AND OUTDOOR SPACES. OUTER LINER SHALL BE A BI-DIRECTIONAL FIBERGLASS REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.

3.6.PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHERE REQUIRED. FLEXIBLE DUCT SHALL HAVE A FULL 10-YEAR WARRANTY.

3.7.INNER LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED SPRING STEEL WIRE HELIX (MIN. 041" THICK).

3.8.SHALL BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M OR EQUAL.

3.9.SHALL BE SUPPORTED SO THAT HORIZONTAL RUNS ARE STRAIGHT AND WITHOUT SAGS OR BENDS. SHEET METAL SADDLES SHALL BE PROVIDED AT ALL HANGERS FOR FLEX DUCTS TO PREVENT KINKING OF THE DUCTS AND EXCESSIVE COMPRESSION OF THE INSULATION.

MECHANICAL GENERAL NOTES

ALL MAY NOT APPLY

1.ONLY NEW EQUIPMENT SHALL BE PROVIDED UNLESS INDICATED AS EXISTING TO REMAIN.

2.ALL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE REGIONS FOR VIBRATION ISOLATION.

3.ALL EQUIPMENT SHALL BE LABELED SO THAT USERS CAN IDENTIFY EACH PIECE OF EQUIPMENT. LABELS SHALL BE CONSISTENT WITH EQUIPMENT TAGS THAT ARE LISTED IN THE SCHEDULES WITHIN THESE DOCUMENTS. ANY ABOVE CEILING EQUIPMENT SHALL HAVE A LABEL PROVIDED ON THE CEILING BELOW THE UNIT FOR EASE OF LOCATING BY MAINTENANCE PERSONNEL.

4.ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

5.INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE CEILING.

6.COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT SO THAT THE REQUIRED CODE CLEARANCES TO ELECTRICAL EQUIPMENT IS MAINTAINED.

7.DUCTWORK AND PIPING INSTALLATIONS SHALL ALLOW FOR EQUIPMENT RECOMMENDED MAINTENANCE CLEARANCES. CONVENIENT ACCESS FOR REMOVAL OF FILTERS SHALL BE MAINTAINED.

8.MATERIALS INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE.

9.COORDINATE THE PLACEMENT AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND LIGHTING LAYOUT.

10.THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.

11.AT THE ONSET OF TEST AND BALANCE ACTIVITIES PROVIDE NEW FILTERS TO ALL UNITS. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. SEAL ALL OPEN ENDED DUCTS DURING CONSTRUCTION.

12.ENSURE ALL EQUIPMENT HAS BEEN CLEANED AT THE END OF THE PROJECT.

13.DO NOT LOCATE AIR INTAKES CLOSER THAN 10 FEET FROM ANY VENT OR EXHAUST OUTLETS. ROUTE TOILET EXHAUST TO LOCATION SHOWN ON PLANS. WALL CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, BIRD AND INSECT SCREENS.

14.PROVIDE FIRE DAMPER IF SHOWN ON PLANS, WHERE DUCT PENETRATES FIRE-RATED CONSTRUCTION. ATTACH 1/2" OR LARGER TEXT LABELING THE DAMPER ACCESS LOCATION(S). EQUIVALENT APPLIES FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER.

15.INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIVISION 26) IN SUPPLY AIR DUCT BEFORE ANY TAKE OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER.

16.WHERE FIRE, SMOKE, COMBINATION FIRE SMOKE DAMPERS CONTROL DAMPERS, VALVES, COILS OR OTHER DEVICE NEEDING ACCESS ARE INSTALLED, PROVIDE DUCT ACCESS DOORS. WHERE INSTALLED IN INACCESSIBLE LOCATIONS, PROVIDE CEILING/WALL ACCESS PANELS. PANELS LOCATED IN RATED ASSEMBLIES SHALL BEAR A UL RATING. COORDINATE LOCATION OF SUCH ACCESS WITH ARCHITECT PRIOR TO INSTALLATION.

17.PROVIDE MEANS OF TEST AND BALANCE IN ALL TAKE OFF FITTINGS OF SUPPLY EXHAUST, RETURN SYSTEMS AND AT EACH POINT WHERE A BRANCH SERVES TWO OR MORE GRILLES, WHETHER SHOWN ON THE PLANS OR NOT.

18.WHERE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCH TAKES PRECEDENCE. CONTROLLERS SHALL BE MOUNTED ADJACENT AND WITHIN 48" AFF.

19.PRODUCE MANAFACTURER'S INSTALLATION INSTRUCTION AT INSPECTION PER FBC-M304.1:

19.1.SPLIT A/C EQUIPMENT: LENNOX, TRANE, CARRIER, DAIKIN
19.2.ROOFTOP A/C EQUIPMENT: LENNOX, TRANE, CARRIER, YORK, DAIKIN
19.3.DOAS -HIGH % OA A/C EQUIPMENT: AAON, ADDISON, DESERT AIRE, COMPUAIRE
19.4.AIR DISTRIBUTION: PRICE, METALAIRE, TITUS
19.5.FANS: PENNBERRY, GREENHECK, BROAN, PANASONIC, COOK
19.6.LOUVERS: GREENHECK, RUSKIN, POTTORFF

DESIGN CRITERIA

BUILDING TYPE GROUP A-3, ASSEMBLY

CLIMATE ZONE 2A, LEON COUNTY, FLORIDA

OUTDOOR DESIGN CONDITIONS (SUMMER)95 DEG Fdb, 76 DEG Fwb

OUTDOOR DESIGN CONDITIONS (WINTER)26 DEG Fdb

INTERIOR DESIGN CONDITIONS75 DEG F COOLING, 72 DEG F HEATING

ENERGY SYSTEMS - GENERAL

1.PROVIDE A TEST AND BALANCE OF THE SYSTEM IN COMPLIANCE WITH FBC-EC SECTION 408.2.2 IN ACCORDANCE WITH THE LATEST NEBB, ASHRAE, OR EQUIVALENT GUIDELINES FOR SUCH WORK. TAB CONTRACTORS SHALL BE PRE APPROVED BY THE ENGINEER OF RECORD.

2.ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH MINIMUM R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND MINIMUM R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. WITHIN THE BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR, UNCONDITIONED SPACES, OR EXEMPT SPACES BY A MINIMUM R-8 INSULATION. DUCTS AND PLENUMS LOCATED WITHIN EQUIPMENT OR WHERE THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F ARE EXEMPT.

3.HVAC DUCTS AND PLENUMS ARE TO BE SEALED BASED ON STATIC PRESSURE AND LOCATION AS OUTLINED IN FBC CHAPTER 4, C403.2.9 AND ITS SUB-SECTIONS.

4.PROVIDE SUPPLY AIR OUTLETS AND ZONE TERMINAL DEVICES WITH AIR BALANCING MEANS IN ACCORDANCE WITH CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. FANS WITH MOTORS OF 1HP OR LESS ARE EXEMPT.

5.HVAC AND SERVICE WATER-HEATING CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED AND ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

GENERAL NOTES

ALL MAY NOT APPLY

1.THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2.THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.

3.THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

4.CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

5.ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.

6.PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7.PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.

8.DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

9.THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10.THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.

11.ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.

12.ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND GUIDELINES.

13.THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14.REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR PEDESTRIANS.

15.COORDINATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE OWNER A FULL CONSTRUCTION SCHEDULE.

16.CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17.THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.

18.ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.

19.IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20.SUPPORTS, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.

21.ALL ROOF EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 120 MPH WIND LOAD.

22.PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.

23.CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.

24.STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

25.CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

26.VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.

MECHANICAL SHEET INDEX

PHASE:	DRAWN:	REVIEWED:	DATE:	ID:	REVISION:	EDITED:	REVIEWED:	DATE:
CONCEPT SCHEM. DESIGN	REGII	REGII	08/28/2024					
ADVANCED SCHEM. DESIGN	BK	REGII	12/17/2024					
DESIGN DEVELOPMENT	BK	REGII	12/17/2024					
CONSTRUCTION DOCS 90%	BK	REGII	07/22/2025					
CONSTRUCTION DOCS 100%	BK	REGII	08/14/2025					
PERMIT DOCS								

Client:
Celebration Baptist Church
3300 Shamrock St. E,
Tallahassee, FL 32309

Project Title:
Canopy and Corridor Improvements

Consultant:
Civil
Plainsman Engineering
904-382-2286 5404 Appledore LaneTallahassee, FL 32309

Consultant:
MEP
FSM Engineering
150 John Knox Road p.850.222.5683
Tallahassee, FL 32303 FL CA 28968

Consultant:
Structural
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1624 Metropolitan Blvd
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Kever Mckee Engineering

Architect:
Hays Layerd Architecture
1221 Summer Haven Cr.
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IN COLLABORATION WITH J. HUGHES DESIGN
HAYS LAYERD ARCHITECTURE

Seal:
ROBERT E. GELHARDT II LICENSED PROFESSIONAL ENGINEER STATE OF FLORIDA
NOT FOR CONSTRUCTION
Robert E. Gelhardt II,
PE#77568

HVAC

DRAWING NAME
MECHANICAL NOTES & LEGENDS

Sheet No.
M001

MECHANICAL DEMOLITION GENERAL NOTES

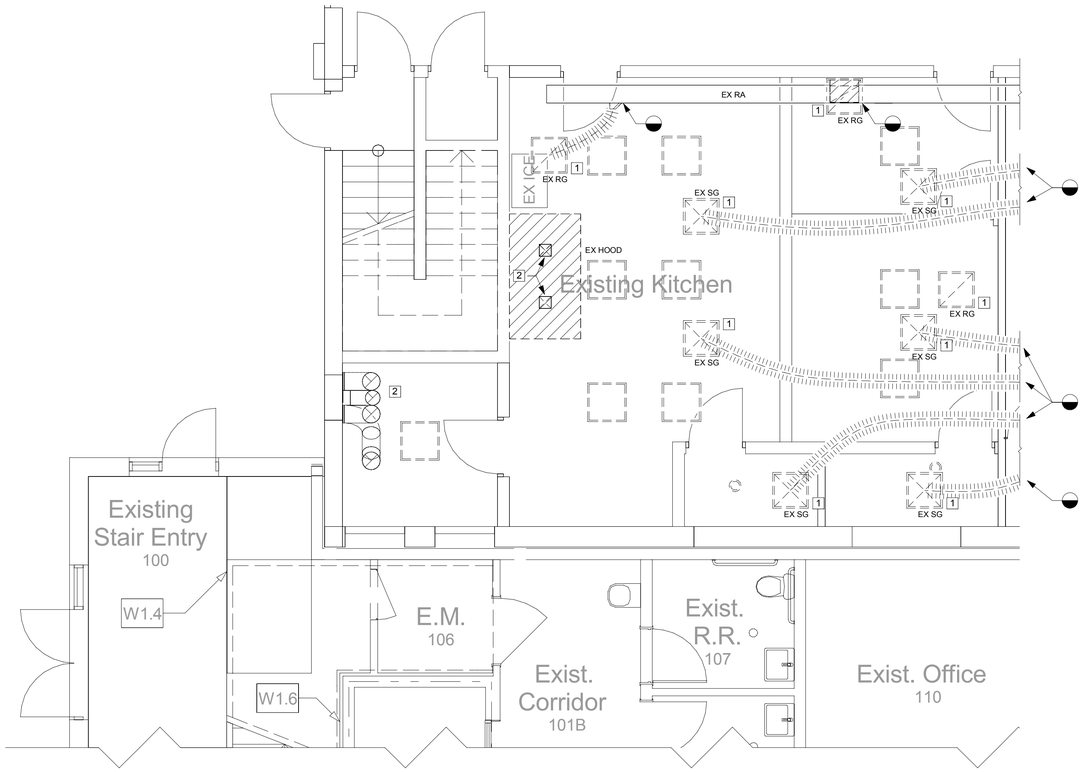
1. UNLESS NOTES OTHERWISE, ALL EXISTING SYSTEMS SHALL REMAIN TO BE REUSED. REPORT ANY SYSTEM MALFUNCTIONS TO CLIENT AND EOR IMMEDIATELY.

2. PATCH AND SEAL UNUSED DUCT TAPS.

3. SEE ELECTRICAL FOR LIGHTING DEMO SCOPE.

4. DEMOLISH EXISTING KITCHEN HOOD AND ASSOCIATED COMPONENTS.

X	MECHANICAL DEMOLITION KEYED NOTES
1	DEMOLISH EXISTING DIFFUSER AND ASSOCIATED DUCTWORK BACK TO DUCT TRUCK. CLEAN AND STORE INDICATED DIFFUSER FOR POTENTIAL REUSE BY OWNER.
2	CAP DEMOLISHED KITCHEN MAKEU AIR PENETRATION AND CAP DEMOLISHED KITCHEN EXHAUST PENETRATIONS, WEATHER-PROOF AND WATER TIGHT. ALL NON-KITCHEN PENETRATIONS SHALL REMAIN TO BE REUSED.



1 MECHANICAL DEMOLITION FLOOR PLAN
M101 Scale: 1/4" = 1'-0"

MECHANICAL RENOVATION GENERAL NOTES

1. EXISTING UNIT, CONDENSATE DISPOSAL, AND REFRIGERANT ROUTING SHALL REMAIN TO BE REUSED. REPAIR OR REPLACE LIKE-FOR-LIKE IF ANY COMPROMISES ARE DETECTED. CONFIRM SYSTEM OPERATION, CAPACITY, AND INTEGRITY BEFORE COMMENCEMENT OF WORK. BRING ANY ISSUES TO THE EOR'S ATTENTION IMMEDIATELY. OFFSET PROPOSED DUCTWORK AS REQUIRED BY SITE CONDITIONS.

2. PATCH, SEAL, AND INSULATE ALL EXISTING DUCTWORK WITH NOTICABLE DEFECTS OR DEFICIENCIES. SEE FRONT PAGE NOTES.

3. CLEAN EXISTING DUCTS AND GRILLES, SEE NOTES.

4. SUSPEND OR MUD-IN AIR DEVICES AS REQUIRED PER SPACE, SEE ARCHITECTURAL PLANS FOR CEILING TYPES.

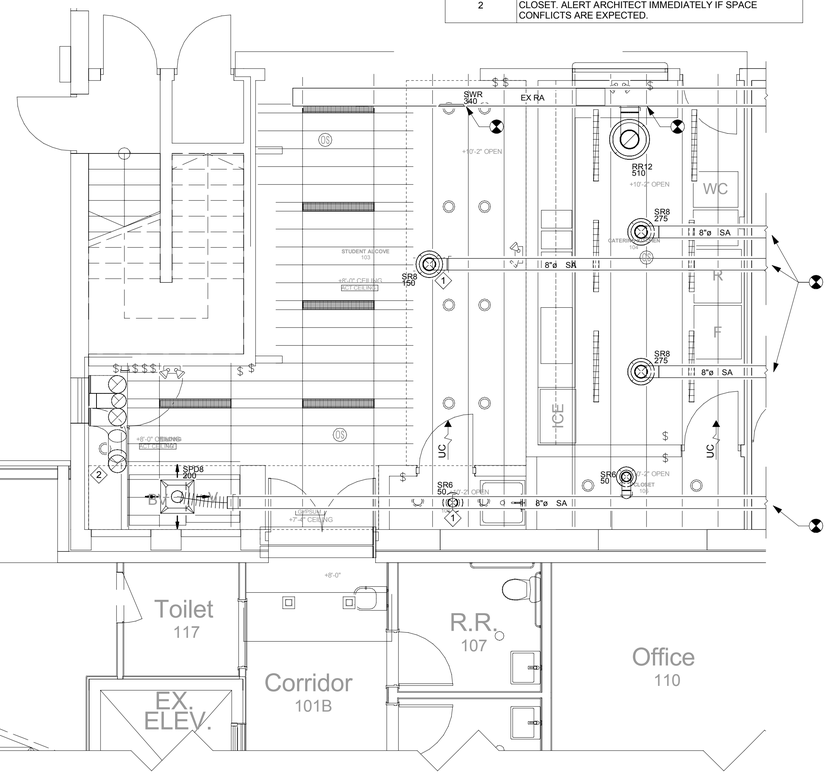
5. SUBMIT EXISTING CONDITION DRAWINGS AND FINAL AS-BUILTS TO OWNER AND EOR BY PROJECT COMPLETION.

6. INSTALL NEW TAPS ON EXISTING SYSTEMS FOR NEW SUPPLY AND RETURNS SHOWN. THE NEW TAPS SHOULD BE IN THE SAME APPROXIMATE LOCATION AS THE PREVIOUSLY DEMO'ED TAPS. INSTALL EACH NEW TAP WITH BALANCING DAMPER.

7. BALANCE AIR DEVICES AS SHOWN, AND OUTSIDE AIR RATES AS SCHEDULED, FOR THIS RENOVATION PORTION OF THE EXISTING SYSTEMS. PROPORTIONALLY ADJUST SUPPLY AIR RATES AS NEEDED, BASED ON OTHER SPACES' COOLING NEEDS AND EXISTING SYSTEM CAPACITY.

8. NEW EXPOSED CIRCULAR DUCT SHALL BE DOUBLE-WALL, INSULATED, PAINTED MATTE BLACK. PAINT EXISTING EXPOSED DUCT MATTE BLACK TO MATCH.

X	MECHANICAL RENOVATION KEYED NOTES
1	COORDINATE CEILING TYPES WITH ARCHITECTURAL PLANS. PROVIDE WITH MEANS FOR THROUGH-FACE FLOW BALANCING WHERE MAIN DUCTWORK MANUAL DAMPERS ARE MISSING, VCR9 OR EQUIV, TYPICAL FOR ALL.
2	CONTAIN EXISTING DUCTWORK WITHIN ARCHITECTURAL CLOSET. ALERT ARCHITECT IMMEDIATELY IF SPACE CONFLICTS ARE EXPECTED.



2 MECHANICAL RENOVATION FLOOR PLAN
M101 Scale: 1/4" = 1'-0"

PHASE:	DRAWN:	REVIEWED:	DATE:
CONCEPT SCHEM. DESIGN	REGII	REGII	08/28/2024
ADVANCED SCHEM. DESIGN	BK	REGII	12/17/2024
DESIGN DEVELOPMENT	BK	REGII	12/17/2024
CONSTRUCTION DOCS 80%	BK	REGII	01/22/2025
CONSTRUCTION DOCS 100%	BK	REGII	02/14/2025
PERMIT DOCS.			

ID:	REVISION:	EDITED:	REVIEWED:	DATE:

Client:
Celebration Baptist Church
3300 Shamrock St. E.
Tallahassee, FL 32309

Project Title:
Canopy and Corridor Improvements

Consultant: Civil
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IN COLLABORATION WITH J. HUGHES DESIGN
HAYS LAYERD ARCHITECTURE

Seal:
Robert E. Gelhardt II, PE#77568

HVAC
DRAWING NAME
HVAC FLOOR PLAN

Sheet No.
M101

PRICE AIR TERMINAL SCHEDULE

MARK	COUNT	MFG	MODEL	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	FINISH	ACCESSORIES
RR12	1	PRICE	RCD	RETURN	12"ø	27" Ø	ALUMINUM	WHITE	MANUAL BALANCING
SPD8	1	PRICE	SPD	SUPPLY	8"ø	24 x 24	ALUMINUM	WHITE	MANUAL BALANCING
SR6	2	PRICE	RCD	SUPPLY	6"ø	13 1/2" Ø	ALUMINUM	WHITE	VCR9 OR EQUIV
SR8	3	PRICE	RCD	SUPPLY	8"ø	18" Ø	ALUMINUM	WHITE	VCR9 OR EQUIV
SWR	1	PRICE	635	RETURN	16"x10"	-	ALUMINUM	WHITE	MANUAL BALANCING

RENOVATION PRESSURIZATION TABLE

MARK	TOTAL CFM	RA CFM	EA CFM	OA CFM	AIR BALANCE
EX-AHU	1000	850	0	150	150
TOTAL	1000	850	0	150	150

SINGLE ZONE VENTILATION SCHEDULE

RENOVATION PORTION OF EX-AHU

Space No. Name	Zone Area, Az (ft²)	Zone Population, Pz (People)	People Outdoor Airflow Rate, Rp (CFM/Person)	Area Outdoor Airflow Rate, Ra (CFM/ft²)	Unoccupied Zone Outdoor Airflow Rate (CFM)	Breathing Zone Outdoor Airflow Rate, Vbz (CFM)	Zone Outdoor Airflow Rate, Voz (CFM)
VENDING	90	1	5	0.06	7	10	13
ALCOVE	200	0	0	0.06	15	12	15
ALCOVE	170	3	5	0.06	13	25	32
CATERING KITCHEN	235	4	7.5	0.12	35	58	73
CLOSET	50	0	5	0.06	4	3	4
Max	235	4	7.5	0.12	35	58	73
Totals	745	8			74	109	136
OUTDOOR AIR INTAKE FLOW RATE, Vot (CFM):						136	

Notes:

Ventilation calculations are formatted to satisy FBC Mech Section 403. Refer to Section 403 for more details.

Equation 4-1: Vbz = Rp*Pz + Ra*Az

Equation 4-2: Voz = Vbz/Ez — Zone Effectiveness, Ez: 0.8

Ceiling supply of warm air and ceiling return has an Ez of 0.8. Refer to Table 403.1.1.1.2 for Zone Effectiveness Values.

Equation 4-3: Vot = Voz

HVAC REMEDIATION & CLEANING REQUIREMENTS

1.CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, SUPERVISION, AND NECESSARY EQUIPMENT TO PERFORM THE WORK LISTED BELOW. THESE SPECIFICATIONS ARE BASED ON LIMITED FIELD INSPECTION OF HVAC SYSTEM. AS-BUILT MECHANICAL HVAC DRAWINGS PART OF THE PROJECT SPECIFICATIONS FOR LOCATION AND EXTENT OF HVAC SYSTEMS.

2.ALL REMEDIATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) STANDARD - NADCA ACR 2021 – "ASSESSMENT CLEANING AND RESTORATION OF HVAC SYSTEMS; AND SPECIFICATIONS.

3.REMEDIATION OF CONTAMINATION OF INTERNAL SURFACE OF ANY REMAINING COMPONENTS; SUPPLY AND RETURN DUCTS, REMOVAL, AND REPLACEMENT OF SUPPLY FLEX DUCTS. REMEDIATION OF ALL INTERIOR SURFACES SUPPLY DUCTS, SUPPLY DIFFUSERS, RETURN DUCTS, RETURN GRILLES FOR ALL HVAC SYSTEMS. REMOVAL OF ALL SUPPLY FLEX DUCTS AND REPLACEMENT WITH NEW SIMILAR TYPE AND SIZE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND STANDARDS.

4.COORDINATE WITH THE OWNER AND THE PROJECT CONSULTANT FOR APPROVAL OF ALL CHEMICALS, CLEANING METHODS AND MATERIALS USED IN THE PERFORMANCE OF THIS PROJECT.

5.ALL WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

6.CONTRACTOR QUALIFICATIONS

6.1.ALL WORK SHALL BE PERFORMED BY FLORIDA LICENSED MECHANICAL CONTRACTOR WITH AT LEAST FIVE YEARS OF EXPERIENCE IN HVAC AND MICROBIAL REMEDIATION PROJECTS WITH SIMILAR SCOPE OF WORK.

7.CHANGE ORDERS

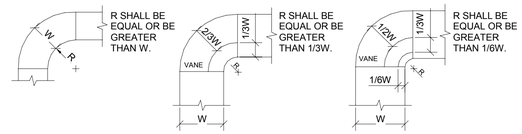
7.1.THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE LOCATION AND QUANTITY OF WORK PRIOR TO BID. LACK OF KNOWLEDGE OF THE FACILITY, SCOPE OF WORK, SPECIFICATION REQUIREMENTS WILL NOT CONSTITUTE A CHANGE ORDER. FOR UNFORESEEN WORK OR ALTERATIONS IN SPECIFICATIONS WHICH COULD NOT REASONABLY HAVE BEEN CONTEMPLATED OR FORESEEN IN THE ORIGINAL PLANS AND SPECIFICATIONS; NOTIFY IN WRITING TO PROJECT CONSULTANT AND THE OWNER'S PROJECT MANAGER PRIOR TO ANY ADDITIONAL WORK.

8.SAFETY REQUIREMENTS

8.1.THE CONTRACTOR MUST COMPLY WITH APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ANY STANDARD THERE UNDER. THE SPECIFIED SAFETY REGULATIONS WILL BE ENFORCED DURING THE PERFORMANCE OF CONTRACT.
8.2.HEALTH AND SAFETY PROGRAMS: THE CONTRACTOR, IN COORDINATION WITH TENANT AND THE PROJECT CONSULTANT, SHALL DEVELOP A PLAN FOR ASSURING SAFE OPERATION OF THE BUILDING DURING PERIODS WHEN THE DETECTION EQUIPMENT IS OFF-LINE OR DISABLED AND SUBSEQUENT REACTIVATION OF THE SYSTEMS. THE SAFETY PLAN SHALL CONFORM TO LOCAL FIRE SAFETY REGULATIONS AND BE APPROVED BY CITY AND LOCAL FIRE MARSHAL. THE PLAN SHALL DEFINE THE RESPONSIBILITIES OF EACH ORGANIZATION INVOLVED WITH EXECUTING THE PLAN FOR THE DURATION OF THE AIR HANDLING UNIT REMEDIATION.
8.3.CONTRACTOR SHALL PROVIDE A STATEMENT, SIGNED BY AN OFFICER OF THE COMPANY, CONTAINING THE FOLLOWING INFORMATION:
8.3.1.ASSURANCE THAT THE COMPANY IS IN COMPLIANCE WITH AND HAS ESTABLISHED APPLICABLE HEALTH AND SAFETY PROGRAMS AND PRACTICES AS DESCRIBED IN OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR GENERAL INDUSTRY 29 CFR PART 1910 AND 1926.
8.3.2.THE CONTRACTOR HAS IMPLEMENTED A COMPREHENSIVE PERSONAL PROTECTIVE EQUIPMENT (PPE) PROGRAM THAT INCLUDES A RESPIRATORY PROTECTION PROGRAM (SEE 29 CFR 1910, SUBPART 1, SECTIONS 132 TO 139, AS AMENDED APRIL 8, 1998).
8.4.THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND WILL PROVIDE COPIES UPON REQUEST OF WRITTEN PROGRAMS TO ADDRESS
8.4.1.CONTROL OF HAZARDOUS ENERGY: LOCKOUT/TAG OUT (29 CFR 1910.147)
8.4.2.PERMIT-REQUIRED CONFINED SPACES (29 CFR 1910.146)
8.4.3.FALL PROTECTION (29 CFR 1926 SUBPART M)
8.4.4.HAZARD COMMUNICATION (29 CFR 1910.1200)
8.5.APPROPRIATE ENVIRONMENTAL ENGINEERING CONTROLS SHALL BE EMPLOYED TO MAINTAIN A SAFE BUILDING ENVIRONMENT AND TO CONTROL ADVERSELY EFFECTED EQUIPMENT DURING HVAC SYSTEM REMEDIATION PROCESSES.

9.WARRANTY - THE CONTRACTOR MUST PROVIDE TO OWNER A ONE (1) YEAR WRITTEN WARRANTY FOR ALL LABOR AND MATERIALS, IN ADDITION TO THE WARRANTY ISSUED FOR SPECIFIC PRODUCTS OR EQUIPMENT. THE WARRANTY PERIOD MUST BEGIN ON THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY CITY OF EACH HVAC SYSTEM COMPLETED. CONTRACTOR MUST WARRANTY FOR ONE (1) YEAR THAT ANY RECURRING FUNGAL CONTAMINATION OF CLEANED AND TREATED SURFACES WITHIN THE HVAC SYSTEM SHALL BE RE-CLEANED WITHOUT COST TO THE OWNER, OR THE PROJECT CONSULTANT.

10.EXCLUSION OF OWNER FROM LIABILITY INDEMNIFICATION:
10.1.TO THE FULLEST EXTENT PERMITTED BY LAW, THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE CLIENT AND ITS AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THIS CONTRACT, PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSE (1) IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OF DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THERE FROM, AND (2) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUINDER. SUCH OBLIGATION SHALL NOT BE CONSTRUED TO NEGATE, ABRIDGE, OR OTHERWISE REDUCE ANY OTHER RIGHT TO OBLIGATION OF INDEMNITY WHICH WOULD OTHERWISE EXIST AS TO ANY PARTY OR PERSON DESCRIBED IN THE CONTRACT.



STANDARD RADIUS OR LONG RADIUS ELBOW | SHORT RADIUS ELBOW WITH ONE VANE | SHORT RADIUS ELBOW WITH TWO VANES

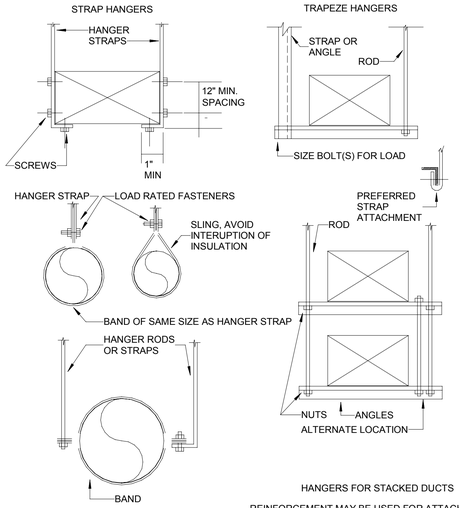
NOTE:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

1 M601 DUCTWORK RADIUS ELBOW DETAIL

SCALE: NTS

DUCT HANGER DETAILS



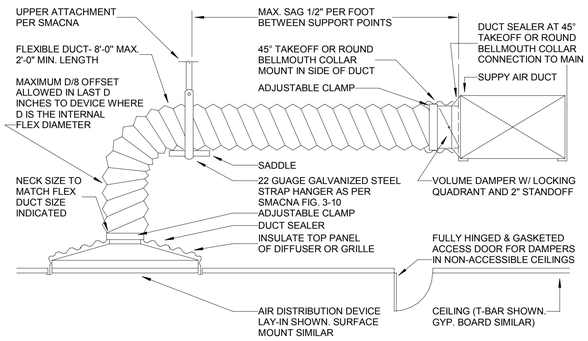
HANGERS FOR STACKED DUCTS

REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUCTS

DO NOT EXCEED LOAD RATING FOR METHOD USED.

2 M601 HANGER DETAILS

SCALE: NTS



NOTES:

1. FLEXIBLE DUCTS SHALL BE IN ONE PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. FLEXIBLE AIR DUCT SHALL NOT EXCEED 8 FT. WHEN EXTENDED. ELBOW RADIUS SIZED FOR NO LESS THAN R/D = 1.0.
4. FLEXIBLE AIR DUCT SHALL NOT BE LESS THAN 5 FEET FOR ACOUSTICAL PURPOSES.

3 M601 FLEXIBLE DUCT TAKEOFF DETAIL

SCALE: NTS

	DATE:	REVISION:	ID:
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REVIEWED:			
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DESIGN DEVELOPMENT			
CONSTRUCTION DOCS 90%			
CONSTRUCTION DOCS 100%			
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HAYS LAYERD ARCHITECTURE

Seal:
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NOT FOR CONSTRUCTION
Robert E. Gelhardt II, PE#77568

HVAC

DRAWING NAME
HVAC SCHEDULES

Sheet No.
M601