LEGEND				
ALL MAY NOT APPLY				
SUPPLY DIFFUSER		DUCT FLOW METER	${\color{black}}$	CONNECT TO EXISTING
$ \begin{array}{c} \uparrow \\ \hline \\$		M MOTORIZED CONTROL VALVE		→ DEMOLISH BACK TO THIS POINT
(REFER TO MANUFACTURER FOR MORE OPTIONS) 2-WAY 3-WAY				ACCESS PANEL
RETURN GRILLE		SHUT-OFF/ISOLATION VALVE		UNION
		SA/RA TAKE-OFF WITH FLEX TAKE-OFF W/ DAMPER] +
AIR HANDLING UNIT (VERTICAL/HORIZONTAL)		SA/RA TAKE-OFF WITH RIGID DUCT TAKE-OFF W/ DAMPER	k	CHECK VALVE
CU/HP-#		SQUARE TO ROUND	(РИМР
	1		FD	FIRE DAMPER
			SD	SMOKE DAMPER
	TOI	JIPMENT, PIPE, DUCT, FITTINGS, ETC BE DEMOLISHED WILL BE INDICATED CIFICALLY OR BY HATCHED		-C CLEAN-OUT IN CD
	MAF	AIR DISTRIBUTION DEVICE TAG		CD TRAP (REFER TO D
		A DEVICE TAG	F	REF— INSULATED REFRIGER LINES
		110 AIRFLOW (CFM) 6x6	T	THERMOSTAT
THERMOMETER			S	/
		DIMENSION = WIDTH 2 W x H 2 ND DIMENSION =HEIGHT	vo	SENSOR
	ROUN	LY/RETURN DUCT	ĆĆ	CARBON MONOXIDE SENSOR
	#	DEMOLITION KEYNOTE		
	#	RENOVATION KEYNOTE	DG UC	$_{\rm eq}/^{\rm loc}$ door grille and 1" (
ABBREVIATIONS ALL MAY NOT APPLY				
AHU AIR HANDLING UNIT BTU BRITISH THERMAL UNIT	EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE	MBH MFG.	1,000 BTUS PER HOUR
CD CONDENSATE	EF	EXHAUST FAN	OA	MANUFACTURER OUTSIDE AIR
CFM CUBIC FEET PER MINUTE	ESP	EXTERNAL STATIC PRESSURE (In W.C.)	RA	RETURN AIR
CHWS CHILLED WATER SUPPLY	EWT	ENTERING WATER TEMPERATURE	RAG	RETURN AIR GRILLE
CHWR CHILLED WATER RETURN	EX	EXISTING	RND	ROUND
CRAH COMPUTER ROOM AIR HANDLER	FD	FIRE DAMPER	RPM	REVOLUTIONS PER MINUTE
CRCU COMPUTER ROOM CU	FPI	FINS PER INCH	SA	SUPPLY AIR
CHS CONDENSING UNIT	GPM	GALLONS PER MINUTE	SD	SMOKE DAMPER
CWS CHILLED WATER SUPPLY	HHWS	HEATING HOT WATER SUPPLY	SM	SURFACE MOUNTED
ΔP DIFFERENCE IN PRESSURE	HHWR	HEATING HOT WATER RETURN	SS	STAINLESS STEEL
ΔT DIFFERENCE IN TEMPERATURE	HP	HEAT PUMP	TSP	TOTAL STATIC PRESSURE
DB DRY BULB TEMPERATURE (DEG. F)	HWS	HOT WATER SUPPLY	UNO	UNLESS NOTED OTHERWISE
DEG. F DEGREES FAHRENHEIT	In W.C.	INCHES OF WATER COLUMN	V/PZ	VOLT/PHASE
DDC DISTRIBUTED DIGITAL CONTROLS			VFD	VARIABLE FREQUENCY DRIV
DN DOWN	LWT	LEAVING WATER TEMPERATURE	WB	WET BULB TERMPERATURE (
ι	<u> </u>	REFRIGERANT PIPING		
		1.BELOW FINISHED FLOOR: COPPER TUE JOINTS BELOW GRADE.	BING - TYPE	"K" SOFT ANNEALED TEMPER,

2.ABOVE FINISHED FLOOR: COPPER TUBING - TYPE "L"HARD DRAWN TEMPER WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS AT 1100 DEG F; FLUX MATERIAL NALLOWED.

3.SUCTION LINES SHALL BE INSULATED WITH MINIMUM 3/4" ARMAFLEX INSULATION V TAPED JOINTS. INSULATION SHALL ALWAYS COMPLY WITH FBC-EC 403.2.10. HANGER STRAPS OR SADDLES SHALL NOT COMPRESS INSULATION BELOW REQUIRED SIZE.

4.EXTERIOR PIPING INSULATION SHALL BE PROTECTED FROM UV RADIATION. COVE EXTERIOR REFRIGERANT LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WAT SECURED WITH STAINLESS STEEL BANDS 12" O.C.

5.SYSTEMS SHALL BE PLACED UNDER A VACUUM FOR REMOVAL OF NON-CONDENS, PRIOR TO BEING PUT INTO SERVICE.

6.SYSTEMS SHALL BE PRESSURE TESTED USING NITROGEN PRIOR TO BEING PUT I SERVICE.

7. PIPES SHALL BE SIZED BY THE EQUIPMENT MFG.

	CODE RE		HVAC GENERAL NOTES
NG	THE LATEST E ORGANIZATIC IF THEY WERI	EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING DNS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS E FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION ITS EXCEPT WHERE OTHERWISE SPECIFIED:	 1.ONLY NEW EQUIPMENT SHALL BE PROVIDED UNLESS INDICATED AS EXISTING TO 2.ALL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE REGIONS FOR VIBRATION ISOLATION.
	FBC, FBC-M,	BUILDING FLORIDA BUILDING CODE 8TH EDITION MECHANICAL FLORIDA BUILDING CODE 8TH EDITION	3.ALL EQUIPMENT SHALL BE LABELED SO THAT USERS CAN IDENTIFY EACH PIECE O EQUIPMENT. LABELS SHALL BE CONSISTENT WITH EQUIPMENT TAGS THAT ARE LIS THE SCHEDULES WITHIN THESE DOCUMENTS. ANY ABOVE CEILING EQUIPMENT SHA A LABEL PROVIDED ON THE CEILING BELOW THE UNIT FOR EASE OF LOCATING BY MAINTENANCE PERSONNEL.
	FBC-EB, FBC-FG,	EXISTING BUILDING FLORIDA BUILDING CODE 8TH EDITION	4.ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCT AND RECOMMENDATIONS.
ON	FBC-EC,	ENERGY CONSERVATION FLORIDA BUILDING CODE 8TH EDITION	5.INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE CEILING.
	FFPC	FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION	6.COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT SO THAT THE REQUIRED CODE CLEARANCES TO ELECTRICAL EQUIPMI
	NFPA 13	STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS	MAINTAINED.
	NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK	7.DUCTWORK AND PIPING INSTALLATIONS SHALL ALLOW FOR EQUIPMENT RECOMMENDED MAINTENANCE CLEARANCES. CONVENIENT ACCESS FOR REMOVA
	NFPA 54	NATIONAL FUEL GAS CODE	OF FILTERS SHALL BE MAINTAINED. 8.MATERIALS INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIB
	NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS	9.COORDINATE THE PLACEMENT AIR DISTRIBUTION EQUIPMENT WITH THE CEILING
	NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS	LIGHTING LAYOUT. 10.THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
I PIPE	NFPA 101	LIFE SAFETY CODE	11.AT THE ONSET OF TEST AND BALANCE ACTIVITIES PROVIDE NEW FILTERS TO AL UNITS. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. SEAL A
	NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY	OPEN ENDED DUCTS DURING CONSTRUCTION.
DETAIL)	NFPA 101B	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES	12.ENSURE ALL EQUIPMENT HAS BEEN CLEANED AT THE END OF THE PROJECT.
RANT	NFPA 900		13.DO NOT LOCATE AIR INTAKES CLOSER THAN 10 FEET FROM ANY VENT OR EXHAU OUTLETS. ROUTE TOILET EXHAUST TO LOCATION SHOWN ON PLANS. WALL CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, BIRD AND INSEC
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN NATIONAL STANDARDS INSTITUTE	SCREENS.
ISOR	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	14.PROVIDE FIRE DAMPER IF SHOWN ON PLANS, WHERE DUCT PENETRATES FIRE-FICONSTRUCTION. ATTACH 1/2" OR LARGER TEXT LABELING THE DAMPER ACCESS
COMPOUND	ADA	AMERICAN WITH DISABILITIES ACT	LOCATION(S). 15.INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIVISION 26) IN SUF
	UL		AIR DUCT BEFORE ANY TAKE OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER.
NSOR	CONTRACTOR	AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE R SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, ND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.	16.WHERE FIRE, SMOKE, COMBINATION FIRE SMOKE DAMPERS CONTROL DAMPERS VALVES, COILS OR OTHER DEVICE NEEDING ACCESS ARE INSTALLED, PROVIDE DU ACCESS DOORS. WHERE INSTALLED IN INACCESSIBLE LOCATIONS, PROVIDE CEILING/WALL ACCESS PANELS. PANELS LOCATED IN RATED ASSEMBLIES SHALL BI RATING. COORDINATE LOCATION OF SUCH ACCESS WITH ARCHITECT PRIOR TO INSTALLATION.
" UNDERCUT	DUCTWO	RK SPECIFICATIONS	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
	1.SHEET MET	AL DUCTWORK	MORE GRILLES, WHETHER SHOWN ON THE PLANS OR NOT.
	WITH SMACN	ATERIAL CLASS "A" GALVANIZED STEEL OR ROLLED STEEL IN COMPLIANCE A 205-3RD EDITION LOW/MEDIUM PRESSURE DUCT STANDARDS TABLE 1.1. BE TESTED, VERIFIED AND RECORDED IN ACCORDANCE WITH ASHRAE QUIREMENT BASED ON LEAKAGE RATE LESS THAN 4% PER 100SF OF DUCT.	18.WHERE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCH TAKES PRECEDENCE. CONTROLLERS SHALL BE MOUNTED ADJACENT AND WITHIN 48" AFF.
	1.2.SEALEF	R: LOW VOC MASTIC PAINT.	19.EQUIPMENT AS PER SCHEDULED LIST OF ACCEPTABLE MANUFACTURERS: 19.1.SPLIT A/C EQUIPMENT: LENNOX, TRANE, CARRIER, DAIKIN
	_	SHALL BE RUN STRAIGHT, LEVEL, PLUMB, AND ROUTED AS INDICATED IN	19.2.AIR DISTRIBUTION: PRICE, METALAIRE, TITUS 19.3.FANS: PENNBERRY, GREENHECK, BROAN, PANASONIC, COOK
1	THESE DRAW FULL INSIDE (2.2.MINOR	INGS. ALL LABELED DUCT DIMENSIONS ARE INTERNAL SIZES AND INDICATE CLEAR FREE AREA. MODIFICATIONS TO DUCT ROUTING DUE TO OBSTRUCTIONS OR	
	THE OWNER.	ON WITH OTHER TRADES WILL BE FURNISHED WITHOUT ADDITIONAL COST TO ANY CHANGES IN SIZE TO DUCTWORK MUST BE APPROVED BY THE	
		RIOR TO FABRICATION AND INSTALLATION. TERED RECTANGULAR DUCT 90 DEGREE ELBOWS SHALL BE PROVIDED WITH	DESIGN CRITERIA
E	2.4.ALL SU	PPLY, RETURN AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED ERWISE NOTED. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE	BUILDING TYPE GROUP B, BUSINESS CLIMATE ZONE 2A, LEON COUNTY, FLORIDA
VE	WITH FIRE RA	XL 2" THICK 0.75 PCF R6.0 OUT OF THE BOX WITH FSK VAPOR BARRIER. SEAL TED MASTIC SEAL PER UL-181A-M AT ALL JOINTS AND SEAMS; OR APPROVED	OUTDOOR DESIGN CONDITIONS (SUMMER) 95 DEG Fdb, 77 DEG Fwb
E (DEG. F)	APPROVED M	. PRESSURE SENSITIVE TAPE PER UL-181A-P APPLIED USING SQUEEGEE IETHOD AT JOINTS AND SEAMS. RUBBER BASE TAPES ARE NOT ALLOWED. OARD IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER	OUTDOOR DESIGN CONDITIONS (WINTER) 20 DEG Fdb
	OF RECORD.	SHALL HAVE MINIMUM INSULATION VALUES AS LISTED IN	INTERIOR DESIGN CONDITIONS 75 DEG F COOLING, 72 DEG F HEATING
R, NO	FBC-EC 403.2		ENERGY COMPLIANCE METHOD; TOTAL BUILDING PERFORMANCE
TH AL NOT	3.FLEXIBLE DI 3.1.DUCT T	OCTS:	CONDENSATE PIPING
ON WITH	NFPA 90A & 90	BE UL LISTED AS A CLASS 1 AIR DUCT COMPLYING WITH UL STANDARD 181, 0B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE	1.CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD F
GERS ZE.	3.3.SHALL	IT RATING NOT OVER 50. HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT BEEN TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200°	2.ALL CONDENSATE DRAIN PIPE SYSTEMS SHALL HAVE A BUILT TRAP AT EACH PIEC EQUIPMENT PER DETAILS.
OVER ALL VATER AND	3.4. SHALL 3.5. INSULA DUCTS SHALL	NTINUOUS OPERATION. BE RATED FOR A MINIMUM AIR VELOCITY OF 5000 FPM. TION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS. SUPPLY HAVE INSULATION WITH A MINIMUM R-VALUE OF 4.2, BUT R-6 FOR SUPPLY	3.ALL LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX FROM EQUIPMENT TO APPR DISPOSAL POINT OR OUTSIDE AT GRADE IN COMPLIANCE WITH FBC-M 307.2.1. OUTS DISPOSAL AT EARTH SHALL BE MINIMUM 1 FOOT AWAY FROM BUILDING STRUCTUR FOUNDATION.
ENSABLES	FIBERGLASS	C AND OUTDOOR SPACES. OUTER LINER SHALL BE A BI-DIRECTIONAL REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE S STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT	4.TRAP AIR CONDITIONING CONDENSATE AND RUN TO LOCATION SHOWN ON PLAN
t into	3.6. PROVIE NECK WHERE 3.7. INNER I	IMPS OR OTHER AIR FLOW RESTRICTIONS. DE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE E REQUIRED. FLEXIBLE DUCT SHALL HAVE A FULL 10-YEAR WARRANTY. LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED	MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRST 12" OF CONDE PIPE, INCLUDING TRAP. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDENSATE PIPE AFTER 12" OF PIPE FROM THE UNIT, UP TO AND INCLUDING CON TERMINATION.
	3.8.SHALL 3.9.SHALL	EL WIRE HELIX (MIN. 041" THICK). BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M OR EQUAL. BE SUPPORTED SO THAT HORIZONTAL RUNS ARE STRAIGHT AND WITHOUT	5.COVER ALL EXTERIOR CONDENSATE LINES WITH ALUMINUM JACKET, INSTALLED WATER AND SECURED WITH STAINLESS STEEL BANDS 12" O.C.
		NDS. SHEET METAL SADDLES SHALL BE PROVIDED AT ALL HANGERS FOR FLEX REVENT KINKING OF THE DUCTS AND EXCESSIVE COMPRESSION OF THE	6.IF OTHERWISE UNSPECIFIED, TERMINATE CONDENSATE INTO STORM CONNECTIO ARCHITECT-APPROVED GRAVEL OR GREEN PATCH AT LEAST 12" AWAY FROM BUILI
			7.PROVIDE CONDENSATE SAFETY SWITCH AND UNIT SHUTOFF SEQUENCE IN THE E CONDENSATE OVERFLOW OR BACKUP.
			8. <u>CONDENSATE DRAIN SIZING</u> (PER FBC-M TABLE 307.2.2)
			UP TO 20 TONS 3/4" DIAMETER

UP TO 20 TONS 21 TO 40 TONS 41 TO 90 TONS 3/4" DIAMETER 1"DIAMETER 1 1/4"DIAMETER 91 TO 125 TONS 1 1/2" DIAMETER 126 TO 250 TONS 2" DIAMETER

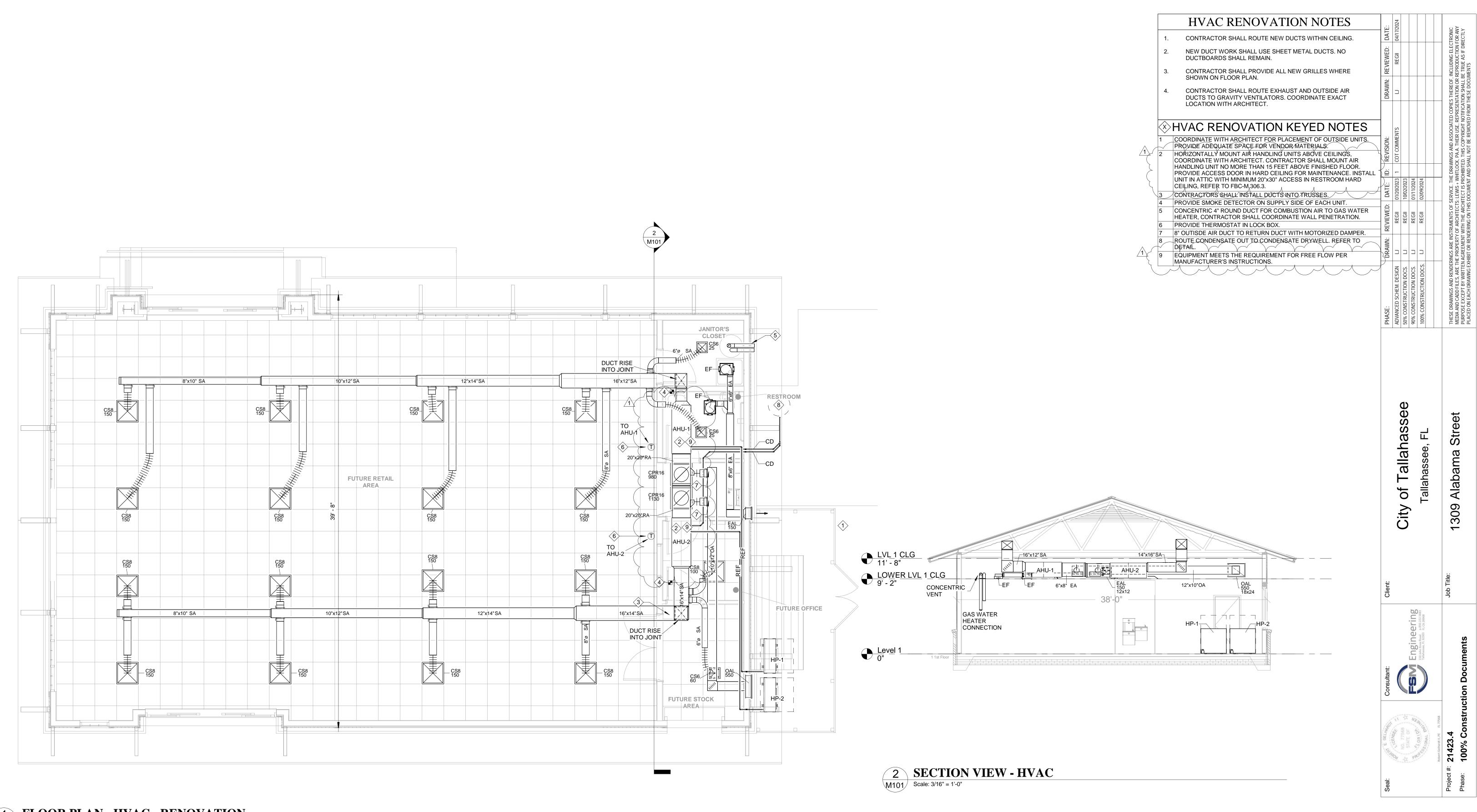
251 AND ABOVE SIZED BASED ON ACTUAL FLOW

TO REMAIN.		EER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR	/ED: DATI				3 ELECTRO CTION FOF S IF DIREC
FOR		NTATION OF THIS SET OF DOCUMENTS. ACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT	REVIEWED:				NCLUDING EPRODUC E TRUE AS MENTS
CE OF LISTED IN SHALL HAVE BY	CONDITIONS SERVICES. CI	. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND HANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS JECT CONDITIONS.	DRAWN:				ES THEREOF, I ENTATION OR R ATION SHALL BI THESE DOCUN
UCTIONS	CONSTRUCTI DRAWINGS A GIVEN DISCIP	F DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF ON DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE ND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE PLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED NIC COPIES.	REVISION:				THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF, INCLUDING ELECTRONIC MEDIA AND CADD FILES, ARE THE PROPERTY OF ARCHITECTS: LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODUCTION FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS
NL PMENT IS	SHALL BE RE THE AUTHOR	BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE ITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN ROM THE ENGINEER OF RECORD.	ID: REVIS		4	4	HE DRAWINGS A WHITLOCK, PA.A ROHBITED. THIS T AND SHALL NC
OVAL STIBLE.	PROVIDED TO	ICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND O THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD D. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE F RECORD.	ED: DATE:	01/20/2023		02/02/2024	OF SERVICE. TI ECTS: LEWIS + V ARCHITECT IS PI THIS DOCUMEN
NG AND	6.PRIOR TO I	NSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL EVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL	N: REVIEWED:	REGII	REGII	REGII	INSTRUMENTS INSTRUMENTS RTY OF ARCHIT ENT WITH THE A RENDERING ON
ED. ALL AL ALL	OF THE WOR	DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE K TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL OR ALL DIMENSIONS.	DRAWN:	S. LJ		CS.	UDERINGS ARE RE THE PROPE TEN AGREEMI S EXHIBIT OR F
HAUST	ALL REQUIRE	E SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, D OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE NO ADDITIONAL COST.		SCHEM. DESIGN	CONSTRUCTION DOCS.	RUCTION DOCS.	INGS AND REN ADD FILES, AR CEPT BY WRIT CCH DRAWINC
S SECT RE-RATED	TO ENSURE T DIMENSIONS THE CONTRA	ACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. CTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.	PHASE:	ADVANCED SCHEM. I 50% CONSTRUCTION	90% CONSTF	100% CONSTRUCTI	THESE DRAW MEDIA AND C PURPOSE EX PLACED ON E
SUPPLY	INSTALLING E	RACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT					
ERS, DUCT	EXPERIENCE	E PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY D TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS FO THE PROJECT.					
L BEAR A UL	12.ALL WORK GUIDELINES.	SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND		Ċ,			
LY WO OR	REGULARLY	RACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK DRMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE OF THE JOB, BEFORE FINAL PAYMENT IS MADE.		asse)		Street
AT		BLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR S.		allahas	5	assee,	Alabama \$
		ATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR DE OWNER A FULL CONSTRUCTION SCHEDULE.			•	allaha	lab
		TOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE NG SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN VICATED.		itv of		Ца	309 A
	EQUIPMENT /	RACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED Y TO THE AREA ALLOTTED BY THE OWNER.		C)		~
	18.ALL ITEMS FREE OF DEF	INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND ECTS.					
	THE CONTRA TERMS, THEN	IG CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY CTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON ITHE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF MAKING NECESSARY CHANGES.	Client:				Job Title:
		S, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION RDERLY APPEARANCE.			50		
	21.ALL ROOF LOAD.	EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 130 MPH WIND			eerin	c.222.028968	
	22.PROTECT	THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.			ngin	hhn Knox Koad iassee, FL 32303	ents
D FITTINGS. PIECE OF	SPECIAL LIST ACOUSTICAL	TOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A ING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE AND OTHER UL WALL OR CEILING ASSEMBLIES.	Consultant:			Tallal	Docum
PROVED UTSIDE	SHALL BE AP	RAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM PROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND G APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND Y THE CONTRACTOR.			Ľ.		uction
URE AND ANS. NDENSATE	YEAR FROM	TOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO ITIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.	ELINARD	5	of	BS/ONAL ELL	.4 .6 Construction Documents
ALL CONDENSATE		GINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING		ons	PRO	CSS I ONI	
ED TO SHED			Seal:				Project #: Phase:
TION, OR UILDING.		MECHANICAL SHEET INDEX	S				Ъ Ч
IE EVENT OF	SHEET NUMBER	SHEET NAME					
	M001 M101	HVAC ABBREVIATIONS, SYMBOLS & LEGENDS FLOOR PLAN - HVAC					
	M501 M502	HVAC DETAILS HVAC DETAILS					M

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Description: HVAC ABBREVIATIONS, SYMBOLS & LEGENDS Sheet No.:





1 FLOOR PLAN - HVAC - RENOVATION

M101 Scale: 1/4" = 1'-0"

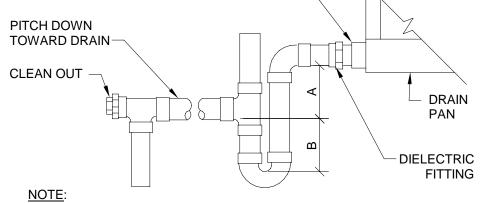


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Description: FLOOR PLAN -HVAC



DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN PIPING SHALL BE RIGID COPPER TYPE L OR TYPE M UNLESS NOTE BELOW IS MET-



1.CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS. 2.DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED. 3. TERMINATE AT CODE ALLOWED GREEN SPACE INTO GRAVEL PIT MINIMUM 12" FROM BUILDING.

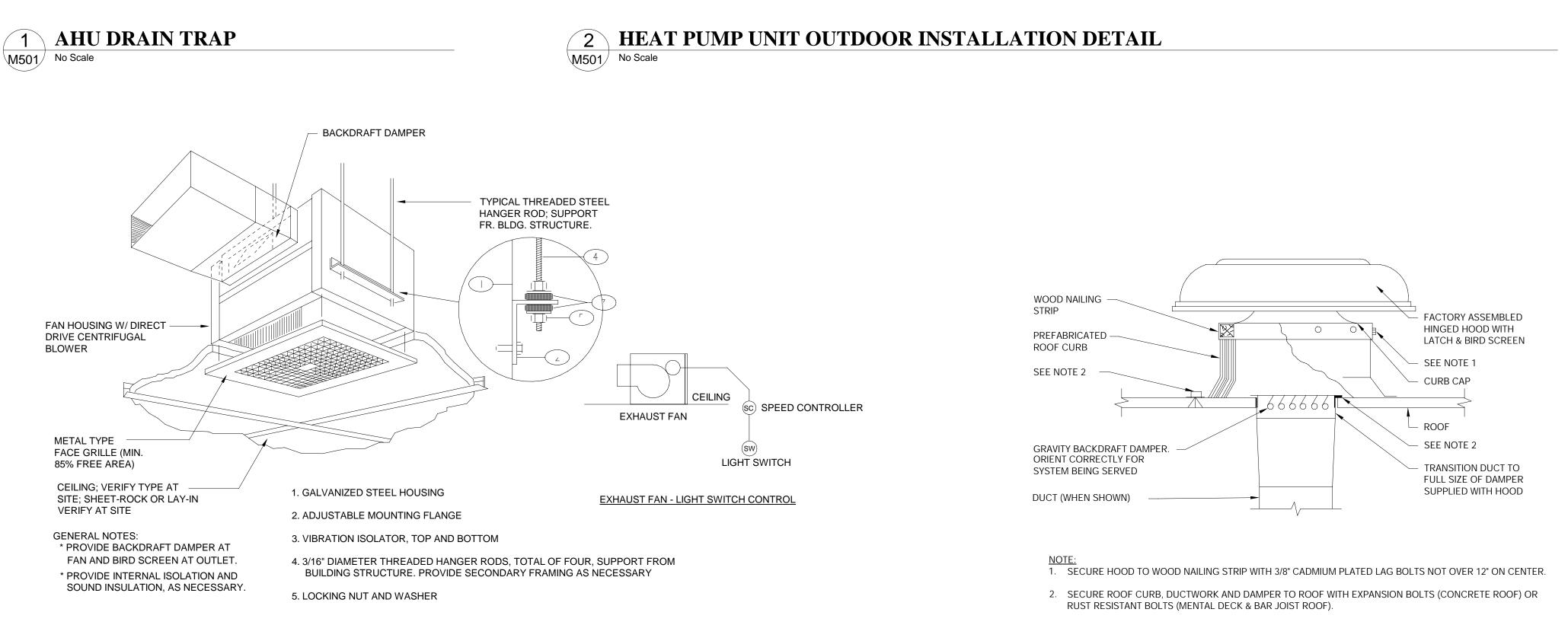
UNIT TYP	E	А	В
DRAW TH	รบ	2" PLUS X	х
BLOW TH	ิรบ	1" MINIMUM	2X
WHERE X =	STATI	C PRESSURE I	N PAN

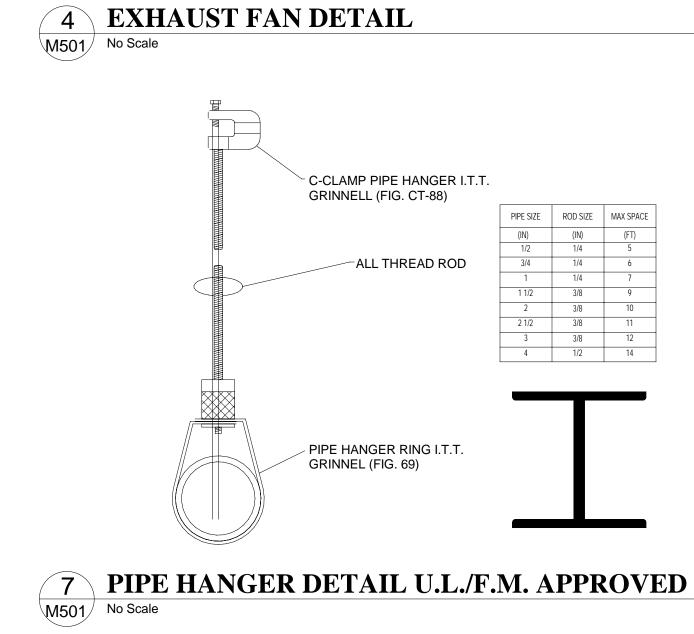
AIR-TO-AIR REMOTE HEAT PUMP OR CONDENSING UNIT

BOLT 2-1/2"x2-1/2" ANGLE TO UNIT. (MINIMUM (4) BOLTS PER SIDE) PAINT WITH RUST-PROOF PAINT SECURE TO SLAB WITH GALVANIZED "RM CLIPS" AS MANUFACTURED BY R.M. ENTERPRISES

> 6" MIN. OR AS —---OTHERWISE NOTED

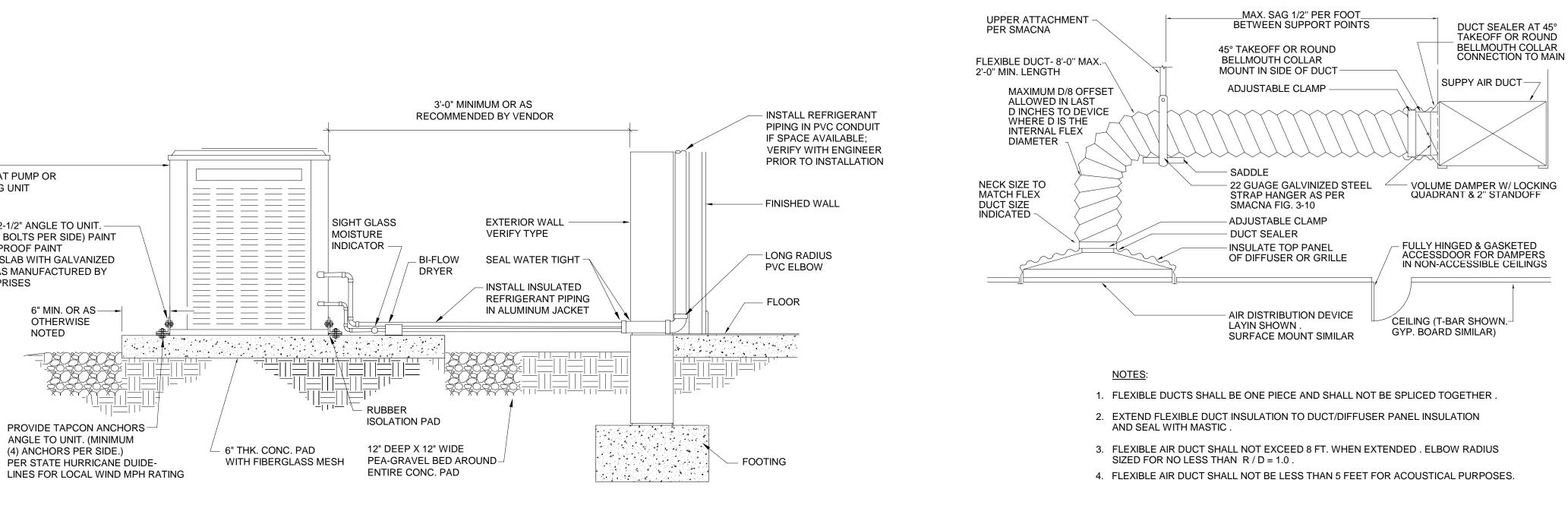
PROVIDE TAPCON ANCHORS -ANGLE TO UNIT. (MINIMUM (4) ANCHORS PER SIDE.) PER STATE HURRICANE DUIDE-







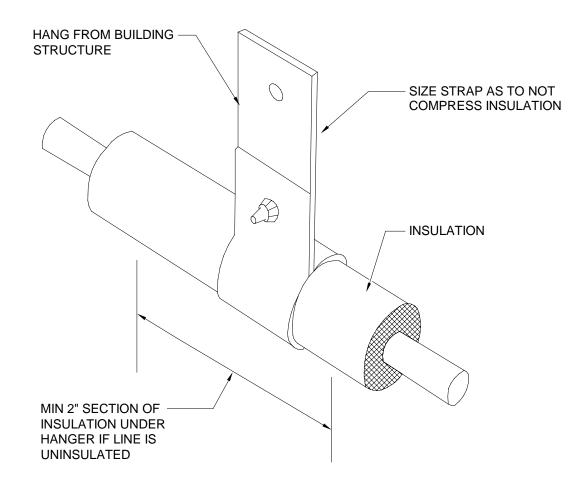
M501 No Scale





ROOFTOP GRAVITY VENTILATOR

3 FLEXIBLE DUCT TAKEOFF DETAIL





REFRIGERANT PIPE HANGER DETAIL M501 No Scale

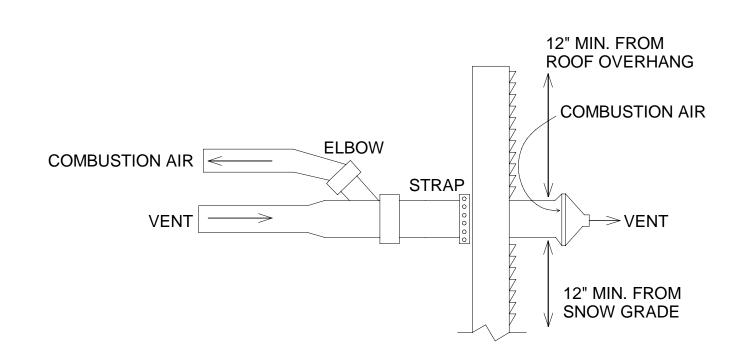
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Description: HVAC DETAILS

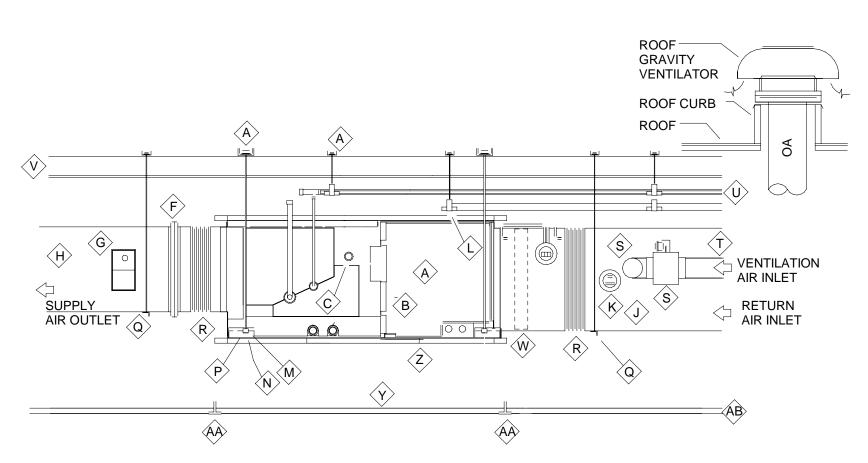




NEVER HAVE COMBUSTION AIR BELOW HORIZONTAL.

NOTE: SECURING STRAP MUST BE FIELD INSTALLED TO PREVENT MOVEMENT OF TERMINATION KIT INSIDE WALL

EXHAUST FAN DETAIL M502 No Scale



A. DUCTED DX TYPE FAN-COIL UNIT WITH UL APPROVED FACTORY OR FIELD INSTALLED ELECTRICAL DISCONNECT. UNIT TO BE SUPPORTED AS INDICATED IN DETAIL PER FACTORY INSTALLATION INSTRUCTIONS.

B. LOW VOLTAGE TO AHU SECONDARY DRAIN LEVEL SENSOR IN PAN WITH CONTROLLER & ALARM PANEL TO DISENGAGE FAN-COIL UNIT WHEN HIGH WATER IS DETECTED IN CONDENSATE DRAIN PER VENDOR.

C. 3/4" SCHEDULE 80 CPVC CONDENSATE DISCHARGE LINE WITH 3/4" ARMAFLEX UNICELLULAR CLOSED CELL FOAM; LINE TO BE SLOPED AT 1/8" PER FOOT. SEE P-TRAP DETAIL.

F. "DUCTMATE" GASKET TYPE FITTING FOR RECTANGULAR DUCTS SIZED AT 24" AND UP. DUCT MAY BE SUPPORTED FROM THIS FITTING PER VENDOR & 2005 SMACNA REQUIREMENTS.

G. UL APPROVED IN-LINE SMOKE DETECTOR IN SUPPLY; DEVICES ARE REQUIRED IN FREE PULLING AIR PLENUMS WHEN ALL UNITS EXCEED 2000 CFMS TOTAL AIR CAPACITY OR SINGLE AHU AT 2000 CFMS AND HIGHER. SEE SPEC'S FOR ADDITIONAL INFORMATION. CONNECT TO BUILDING FIRE ALARM PANEL.

H. SUPPLY AIR GALVANIZED METAL DUCT PER 2005 SMACNA DUCT STANDARDS BASED ON GAUGE THICKNESS IN COMPLIANCE WITH SCHEDULES; DUCT SHALL BE WRAPPED WITH INSULATED BLANKET PER SPECS, MECHANICAL MATERIAL SCHEDULES & DETAILS.

J. SAME AS NOTE ABOVE FOR RETURN AIR DUCT.

L. TYPICAL CLEVIS HANGER WITH THREADED ROD, STEEL CHANNEL & METAL SADDLE UNDER INSULATED LINE AS SHOWN. SEE DETAILS FOR ADDITIONAL INFORMATION.

M. NEOPRENE COMPRESSOR MOUNT BY MASON INDUSTRIES; TYPICAL FOR EACH UNIT BRACKET SHOWN.

N. FLAT STEEL WASHER SIZED BASED ON NEOPRENE ISOLATOR.

P. LOCKING NUT FOR ADJUSTMENT; TYPICAL FOR ALL NUTS USED FOR HANGING OR UNIT SUPPORT.

Q. SUPPORT "L" STEEL SIZED PER 2005 SMACNA DUCT STANDARDS WITH ALL THREAD ROD, STEEL FLAT WASHER & LOCKING UNIT. R. UL 181 APPROVED FLEXIBLE DUCT CONNECTOR WITH SUPPORT FLANGE & SEALED CONNECTION; DEVICE TO BE PROPERLY

SEALED AIR TIGHT AS REQUIRED PER SPECS.

´ 4 ∖

M502 No Scale

S. VENTILATION DUCT CONNECTION TO MIXED AIR PLENUM WITH BACKDRAFT DAMPER

T. OPPOSED BLADE AIR BALANCING DAMPER AS INDICATED.

U. ROUTE REFRIGERANT LINES TO OUTDOOR UNIT AS REFLECTED IN PIPING SCHEMATIC DRAWING IN COMPLIANCE WITH VENDOR INSTALLATION INSTRUCTIONS.

V. ROOF OR STRUCTURE SUPPORT; VERIFY EXACT TYPE, LOCATION, MATERIAL COMPONENT, HEIGHT FROM FINISHED FLOOR, ETC.

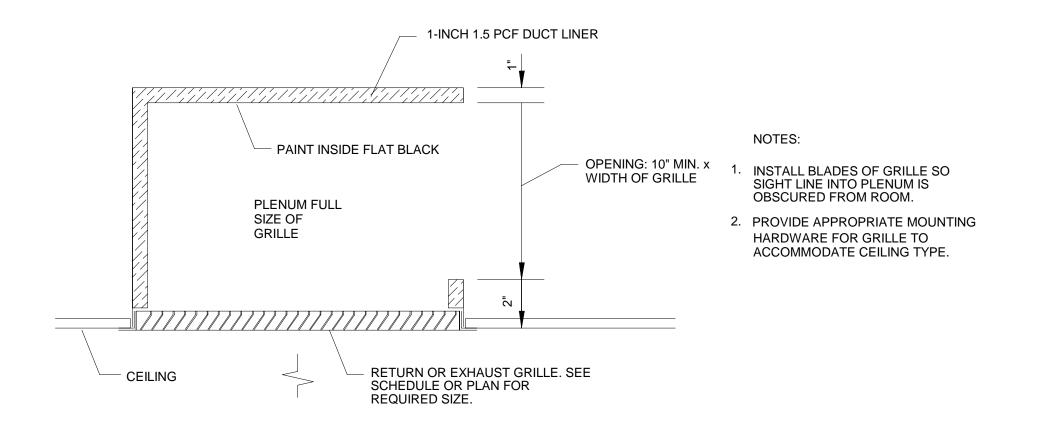
W. UNIT AIR FILTER RACK RATED AT MERV 7 WITH ACCESSIBLE GASKET DOOR.

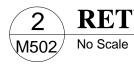
Y. FAN-COIL OR AIR-HANDLING-UNIT ACCESS VIA APPROVED LAY-IN CEILING TILE AS SHOWN; IF HARD SHEET-ROCKTYPE CEILING APPLIED CONTRACTOR MUST USE FIXED TYPE HINGED ACCESS DOOR WITH VANISHING HINGE & LATCH-SCREWS; HATCH MUST BE PAINTED TO MATCH SURROUNDINGS; ACCESSIBLE HATCH TO BE SIZED BASED ON UNIT DIMENSIONS REQUIRED SERVICE REQUIREMENTS; COORDINATE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

Z. FAN-COIL UNIT TO BE LOCATED ABOVE FINISHED CEILING BASED ON AVAILABLE SPACE & OTHER TRADES; BOTTOM OF UNIT SHALL NOT EXCEED 14'-0" AFF FOR ACCESSIBLE SERVICE ACCESS.

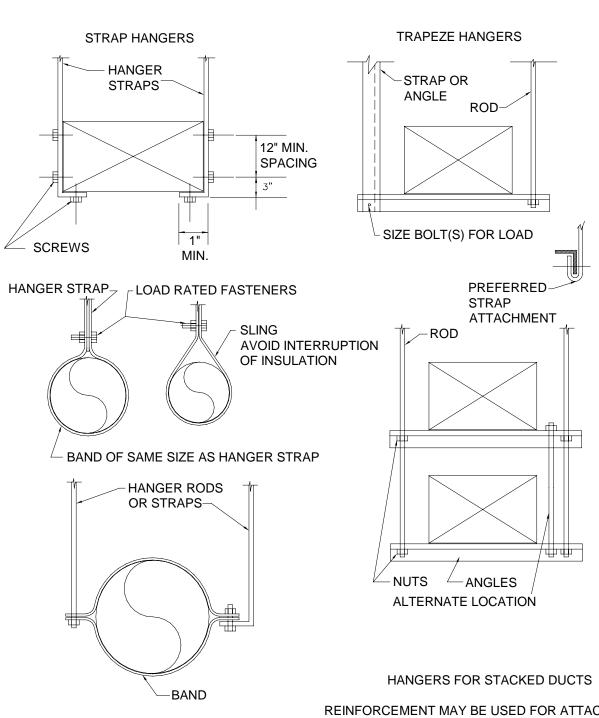
AA. TYPICAL LAY-IN CEILING GRID (BY OTHERS) OR SUPPORT FOR FIXED CEILING; VERIFY ACTUAL CONDITIONS PRIOR TO EFFORT. AB. FINISHED CEILING MATERIAL; SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENTS.

HORIZONTAL DX TYPE FAN-COIL UNIT DETAIL





RETURN REGISTER BOOT DETAIL



DUCT HANGER DETAILS

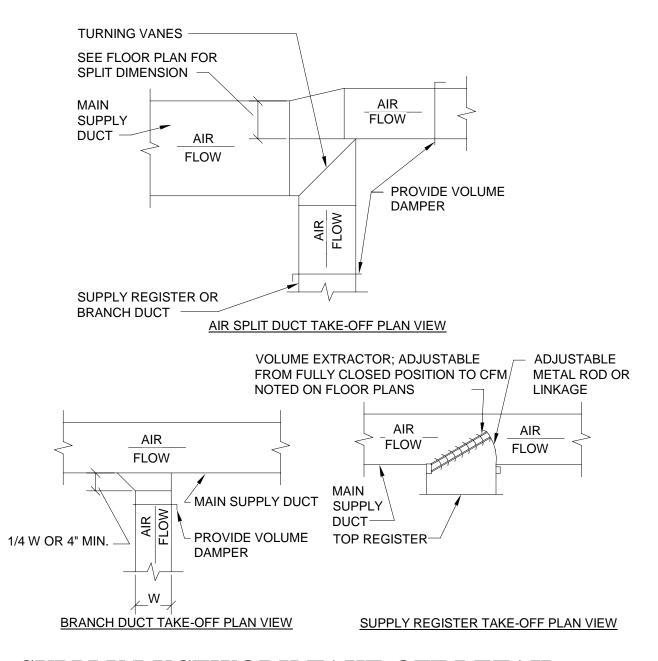
HANGER DETAILS

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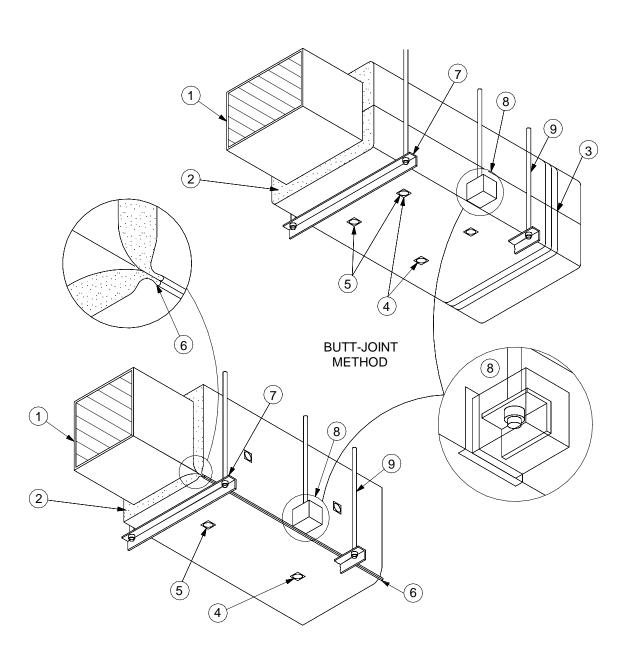
REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES. DO NOT EXCEED LOAD RATING FOR METHOD USED.

3

M502 No Scale







STAPLE-STITCHING METHOD

NOTES:

- (1) GALVANIZED METAL DUCT WITH SEALED SEAMS AND JOINTS USING PS-S POLY TYPE NO.P-301 PRODUCT.
- (2) BLANKET INSULATION WITH FACTORY-APPLIED VAPOR-RETARDER JACKET, 2" THICK R-6, 3/4 LB. CU. FT. DENSITY.
- (3) FACTORY LAP ALL SEALS (SEALED WITH ADHESIVE AND/OR STAPLES AND VAPOR-RETARDER TAPE). TAPE ALL JOINTS WITH FASON (SMANCA) ALUMINUM REINFORCED PRESSURE SENSITIVE TAPE; COAT EDGES, SEAMS, AND JOINTS WITH INSUL-COUSTIC PRODUCT BY "SURE-COAT" M1-110" PRODUCT FIRE RESISTANT MASTIC.
- (4) MECHANICAL FASTENERS SUPPORTING INSULATION ON UNDERSIDE OF DUCTS OVER 24" WIDE (SPACED 3" MAXIMUM FROM THE BUTT JOINT).
- (5) VAPOR-RETARDER TAPE OVER TEARS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET TO KEEP AIR TIGHT CONDITION.
- (6) ALTERNATE METHOD OF LAP SEAL LONGITUDINAL JOINT LAPPED AND FOLDED, THEN STAPLED SECURELY IN PLACE.
- (7) HANGER ON EXTERIOR OF INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
- (8) HANGER EMBEDDED IN INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
- (9) COMPLETELY ENCAPSULATE HANGER ROD AND ANGLE. SEAL TOP PENETRATION. ENCAPSULATE AND SEAL STRAP HANGERS IN A SIMILAR MANNER.

6 BLANKET FIBERGLASS INSULATION DETAIL

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Description: HVAC DETAILS

M502

					I	AIR HANDLE	R SCHEDUL	.E		
MARK	MODEL	MATCHING UNIT	TOTAL CFM	OA CFM	EXT. SP (IN WG)	MOTOR HP	VOLTAGE/ PHASE	EAT (DB/WB)	LAT (DB/WB)	AUX HEAT
AHU-1	DV36FECC14	DZ17VSA361	1250	220	0.50 in-wg	3/4 3/4	208 V/1	80 °F/67 °F	56 °F/55 °F	8000 W
AHU-2 REMARH	DV36FECC14	DZ17VSA361	1360	230	0.50 in-wg	3/4	208 V/1	80 °F/67 °F	56 °F/55 °F	8000 W
1. AIR HAI 2. provie 3. inclue 4. provie	NDLER BASED O DE SINGLE POIN E 8 KW ELECTR DE SMOKE DETE	T POWER CONN IC HEAT KIT. CTOR IN SUPPL	NECTION WITH IN LY DUCT. RMOSTAT AND E			н.				
					HEAT PL	JMP UNIT SC	HEDULE			
MARK	MODEL	MATCHING	NOMINAL TON	TOTAL	SEER(EER)	SENSIBLE	TOTAL	HSPF(COP)	VOLTAGE/	MCA
HP-1	NUMBER DZ17VSA361	UNIT DV36FECC14	3	COOLING 36000.0 Btu/h	. ,	COOLING 28800.0 Btu/h	HEATING 36000.0 Btu/h	11(3.2)	PHASE 208 V/1	22.7 A
HP-1	DZ17VSA361	DV36FECC14 DV36FECC14	3	36000.0 Btu/h	16(14) 16(14)	28800.0 Btu/h	36000.0 Btu/h	11(3.2)	208 V/1 208 V/1	22.7 A
REMAR									I	1
4. SEE TC	DASHED OUTLI		2 PLAN FOR MINI	MUM CLEARAN		NII.				
ENERGY	SYSTEMS -	GENERAL								
			STEM IN COMPL TAB CONTRACT						EBB, ASHRAE, C	DR
			ERATIONS AND I , WHICHEVER CO		MANUALS FOR	ALL COOLING A	ND VENTILATIO	ON EQUIPMENT	WITHIN 90 DAYS	SOF
3.HVAC EQUI	MENT EFFICIEN	ICY MUST BE VI	ERIFIED PER TAE	BLES C403.2.3(1	-11) UNDER FB	C CHAPTER 4, C	403.2.3.			
4.PROVIDE M EXHAUST SYS		RAVITY DAMPE	RS MEETING LE	AKAGE REQUIR	EMENTS OUTL	INED IN FBC CH	APTER 4, C403.:	2.4.3 ON ALL OU	TDOOR AIR ANI	D
			R SHALL BE PRO ON TO THE PIPIN							
AND MINIMUM SEPARATED F WITHIN EQUIF	R-8 INSULATION	N WHERE LOCA	PLENUMS SHAL TED OUTSIDE T , UNCONDITIONE TEMPERATURE	HE BUILDING. V ED SPACES, OR	VITHIN THE BUI REXEMPT SPAC	LDING ENVELOF ES BY A MINIMU	PE ASSEMBLY, ⁻ JM R-8 INSULAT	THE DUCT OR PI	LENUM SHALL E D PLENUMS LO	BE CATED
7.HVAC DUCT SECTIONS.	S AND PLENUMS	S ARE TO BE SE	EALED BASED ON	N STATIC PRES	SURE AND LOC	ATION AS OUTL	INED IN FBC CH	IAPTER 4, C403.2	2.9 AND ITS SU	В-
			TERMINAL DEVI 1HP OR LESS A		BALANCING ME	ANS IN ACCORD	ANCE WITH CH	IAPTER 6 OF TH	E INTERNATION	IAL
	D EQUIPMENT, A		ONS MUST PROV LIANCE WITH AD							
	S, MANUALS, ANI OF OCCUPANCY		ANCING REPORT	S SHALL BE PR	ROVIDED TO TH	e Building owi	NER WITHIN 90	DAYS OF THE R	ECEIPT OF TH	E
	TIME OF THE HV		PROVIDED FOR ORDER TO BRIN							
			ELECTRIC RESIS					G DEFROST, PRE	EVENT	
13. ZONE CON CHAPTER 4, C		IMIT SIMULTAN	EOUS COOLING	AND HEATING,	AND SEQUENC	E HEATING AND	COOLING TO E	EACH ZONE IN A	CCORDANCE V	VITH FBC
SYSTEMS AR	E CALIBRATED A	ND ADJUSTED	NTROL SYSTEMS AND OPERATE II MENT THEY OPE	N ACCORDANC	E WITH APPRO	VED PLANS AND	SPECIFICATIO	NS. SEQUENCE		
15.HVAC PER	FORMANCE EFF	ICIENCYAND LI	GHTING SYSTEM	I EFFICIENCY S	HALL BE CONS	STENT WITH WI	HAT IS SHOWN	IN THE APPROV	ED PLANS.	

HEATER	MCA	MOCP	REMARKS
000 W	43 A	45 A	1-5
000 W	43 A	45 A	1-5

ИСА	MOCP	REMARKS
2.7 A	25 A	1-4
2.7 A	25 A	1-4

ENERGY SYSTEMS - THERMOSTATS

1. HEATING AND COOLING TO EACH ZONE MUST BE CONTROLLED INDIVIDUALLY BY A THERMOSTAT CONTROL. AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL ALSO BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

2.THERMOSTATIC CONTROLS THAT CONTROL BOTH HEATING AND COOLING SHALL HAVE A DEADBAND OF 5° F MINIMUM WHERE WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.

3.ZONES NOT CONTINUOUSLY OPERATED OR WITH FULL HVAC LOAD DEMAND EXCEEDING 6800 BTU/HR (2 KW) SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. THE SETBACK CONTROLS SHALL BE IN ACCORDANCE WITH FBC CHAPTER 4, C403.2.4.2.

4.INSTALL THERMOSTAT WITHIN 48" A.F.F., AND ADJACENT TO LIGHT SWITCHES WHERE POSSIBLE.

ENERGY SYSTEMS - FANS

1.FOR EACH FAN, THE SELECTED FAN MOTOR SHALL BE SIZED WITHIN ALLOWABLE LIMITS AS DICTATED BY FBC CHAPTER 4, C403.2.12.2.

			AIR DISTR	BUTION DE	VICE SCHEI	DULE	
TAG	SERVICE	MFG	MODEL	CFM RANGE	NECK SIZE	FACE SIZE	DETAILS
CPR16	RETURN	PRICE	APDDR	750-1200	16"ø	2' - 0"x2' - 0"	LAYIN OR SURFACE MOUNTED; ALUMINUM MATERIAL; PERFORATED FACE; DUCTED RETURN;
CS6	SUPPLY	PRICE	SCD	0-100	6"ø	1' - 0"x1' - 0"	4 WAY DIRECTIONAL; LAYIN OR SURFACE MOUNTED DIFFUSER;ALUMINUM
CS8	SUPPLY	PRICE	SCD	100-250	8"ø	2' - 0"x2' - 0"	4 WAY DIRECTIONAL; LAYIN OR SURFACE MOUNTED DIFFUSER; ALUMINUM

BUILDING PRESSURIZATION TABLE

				1		
Mark	TOTAL CFM	RA CFM	EA CFM	OA CFM	AIR BALANCE	POSITIVE PRESSURE
main	101/12 01 11		2/10/11	0/10/11	,	
AHU-1	1250	980	150	220	70	5.6%
			150	_	_	
AHU-2	1360	1130	0	230	230	16.9%
Grand total	2610	2110	150	450	300	

MARK	MANUFACTURER	MODEL NUMBER	CFM	AREAS SERVED	DRIVE TYPE	MOTOR HP	STATIC PRESSURE	UNIT WEIGHT	VOLTS/PHASE	NOTES
EF	LAUREN COOK	GC-166	75	RESTROOM/ JAN.	DIRECT	FRACTIONAL	0.13 in-wg	25	115/1	1-2
REMARK	S									

1. EXHAUST FANS FUNCTION WITH LIGHT SWITCH. 2. COORDINATE INSTALLATION IN CEILING ON-SITE, REFER TO ARCH FOR COLOR MATCH.

				HEDULE	
TAG	SERVICE	MFG	MODEL	NECK SIZE	DETAILS
EAL	EXHAUST	RUSKIN	EME520MD	12"x12"	HURRICANE RATED, 0.05 PRESSURE DROP, 0.28 FREE AREA FT^2, 28% FREE AREA
OAL	INTAKE	RUSKIN	EME520MD	24"x18"	HURRICANE RATED, 0.05 PRESSURE DROP, 1.09 FREE AREA FT^2, 36% FREE AREA

	SI	NGLE ZONE	VENTILATION	SCHEDUL	E		
			AHU-1	1	I	1	I
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)
RETAIL B	996	15	7.5	0.06	75	172	215
JAN CLOSET	47	0	0	0	0	0	0
RESTROOM	46	0	0	0	0	0	0
Мах	996	15	8	0	75	172	215
Totals	1089	15			75	172	215
	OUTDOOR AI	R INTAKE FLOW	RATE, Vot (CFM):			21	5
Notes: Ventilation calculations are for Equation 4-1: Vbz = Rp*Pz +	-	3C Mech Section	403. Refer to Section	403 for more d	etails.		
Equation 4-2: Voz = Vbz/Ez					Zone E	ffectiveness, 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

			AHU-2				
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)
RETAIL A	1050	15	7.5	0.06	79	175	219
FUTURE OFFICE	57	1	5	0.06	4	8	11
FUTURE STOCK	84	0	0	0	0	0	0
Мах	1050	15	8	0	79	175	219
Totals	1192	16			83	184	230
	OUTDOOR AII	R INTAKE FLOW	RATE, Vot (CFM):			23	0

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

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

EXHAUST FAN SCHEDULE

SINGLE ZONE VENTILATION SCHEDULE

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Description: **HVAC SCHEDULES**

