MECHANICAL LEGE	ND & SYMBOLS				
SYMBOL	DESCRIPTION				
D	THERMOSTAT				
SD	DUCT MOUNTED SMOKE DETECTOR				
-/	DOOR UNDERCUT				
20x10	DUCTWORK (FIRST DIMENSION IS SIZE OF SIDE IN VIEW)				
	DUCT WITH CAPPED END				
	CONCENTRIC REDUCER				
	ECCENTRIC REDUCER				
	TRANSITION: RECTANGULAR TO ROUND				
	FIRE DAMPER (FD)				
	COMBINATION FIRE/SMOKE DAMPER (FS)				
	MANUAL VOLUME DAMPER				
	ULTRA LOW LEAKAGE MODULATING DAMPER (CORROSION RESISTANT CONSTRUCTION)				
AFMS	AIRFLOW MEASURING STATION				
\square	SUPPLY DUCT/OUTSIDE AIR DUCT IN SECTION				
	RETURN DUCT IN SECTION				
	EXHAUST DUCT IN SECTION				
	NEW EQUIPMENT				
() /	SUPPLY DIFFUSER				
	RETURN GRILLE				
	EXHAUST GRILLE				
	FLEXIBLE ROUND DUCT				
	AIR TERMINAL MARK				
	AIR TERMINAL (LETTER DESIGNATOR)				
3(A)300-	AIR FLOW (CFM)				
	QUANTITY IN ROOM (IF MORE THAN I)				

MECHANICA	L ABBREVIATIONS
SYMBOL	DESCRIPTION
A/E	ARCHITECT/ENGINEER
AC AD	AIR CONDITIONING ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECT, ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM AUTO	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AUTOMATIC AMERICAN WELDING SOCIETY
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CLNG COND	CEILING CONDENSER/CONDENSATE
CU	CONDENSING UNIT
DB	DRY BULB
DIM(S)	DIMENSION(S)
DN DP	DOWN DEW POINT
DWG	DRAWING
DX	DIRECT EXPANSION
E/A EA	EXHAUST AIR EACH
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
elec Elev	ELECTRICAL ELEVATION
ENGR	ENGINEER
EQPM	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
FD FL	FIRE DAMPER FLOOR
FMS	FLOW MEASURING STATION; FACILITY MANAGEMENT SYSTEM
FPM	FEET PER MINUTE
FMS GA	AIRFL <i>O</i> W MEASURING DEVICE GAGE
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HP HVAC	HORSEPOWER HEATING, VENTILATION, AIR CONDITIONING
IN WC	INCHES (WATER COLUMN)
КРА	KILOPASCAL
KW	
LAT MAX	LEAVING AIR TEMPERATURE MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR MIN	MANUFACTURER MINIMUM
NA, N/A	NOT APPLICABLE
NC	NORMALLY CLOSED; NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL PIPE STANDARD
NPS NTS	NOT TO SCALE
0/A	OUTSIDE AIR FOR NORMAL MODE
PSI	POUNDS PER SQUARE INCH
QTY R	QUANTITY RADIUS/RADII; THERMAL RESISTANCE
R/A	RETURN AIR
RH	RELATIVE HUMIDITY
RM RPM	ROOM REVOLUTIONS PER MINUTE
RTU	ROOFTOP DX PACKAGE UNIT
S/A	SUPPLY AIR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ SQ FT	SQUARE SQUARE FOOT
55, 55T	STAINLESS STEEL
T ¢ B	TEST AND BALANCE
TYP UL	TYPICAL UNDERWRITER'S LABORATORY
VAV	VARIABLE AIR VOLUME
VENT	VENTILATOR/VENTILATION
VFD	VARIABLE FREQUENCY DRIVE
W W/	WATT WITH
W/0	WITHOUT
WB	WET BULB
WG NOTE:	WATER GAGE
NOT ALL SYMBOLS A	AND ABBREVIATIONS LISTED APPLY TO THIS PROJECT. REFER
TO CONSTRUCTION L	OCUMENTS FOR SCOPE OF WORK.

D	ENTIFICATION & LABELING
	ALL EQUIPMENT SHALL BE IDENTIFIED WITH THE SAME DESIGNATION SHOWN ON THE DRAWINGS. IDENTIFICATION SHALL BE WITH ENGRAVED PLASTIC NAMEPLATES USING I" LETTERS ON EQUIPMENT HAVING CABINETS AND WITH BRASS TAGS WHERE CABINETS DO NOT EXIST. NAMEPLATES SHALL BE MINIMUM 2" X 4" SIZE FOR AIR HANDLING UNITS.

GENERAL NOTES

- I. THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT, PERMITS, FEES, INSPECTIONS, TEST, INSURANCE, ETC., REQUIRED FOR THE COMPLETION OF THE WORK DESCRIBED HEREIN.
- 2. DRAWINGS ARE DIAGRAMMATIC IN NATURE DRAWINGS DO NOT SHOW EVERY BEND, OFF-SET, ELBOW, OR OTHER FITTINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION IN THE SPACE ALLOCATED, OR FOR COORDINATION WITH OTHER TRADES.
- 3. DRAWINGS ARE NOT TO BE SCALED. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE SITE CONDITIONS SHALL GOVERN THE EXACT LOCATION OF MECHANICAL EQUIPMENT AND APPURTENANCES.
- 4. THE NATURE OF THIS CONTRACT INVOLVES REMODELING OF EXISTING FACILITIES. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF WORK.
- 5. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COORDINATION OF THE HVAC WORK AND TO DETERMINE SCOPE OF WORK.
- 6. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE AND SHALL COORDINATE WORK WITH ALL OTHER TRADES SUCH AS ELECTRICAL, STRUCTURAL, PLUMBING, FIRE SPRINKLERS, LIGHT FIXTURES, CEILING CONSTRUCTION AND SUPPORTS PRIOR TO ORDERING, FABRICATING AND INSTALLING DUCTWORK/EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL COORDINATION OF THIS WORK WITH THAT OF ALL OTHER TRADES. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING OF CONSTRUCTION.
- 7. ALL SERVICES INTERRUPTION AND ALL REMOVAL & DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED REPRESENTATIVE OF THE FACILITIES DEPARTMENT. MECHANICAL SYSTEMS SHALL REMAIN OPERATIONAL DURING BUILDING'S NORMAL HOURS OF OPERATION. COORDINATE DEMOLITION WORK TO CAUSE MINIMUM DOWNTIME OF ANY BUILDING SERVICE.
- 8. WORK CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK IN PROPER MANNER NOT SHOWN ON THE PLANS OR NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER IN WRITING FOR APPROVAL.
- 9. ANY EQUIPMENT OR DEVICE TO REMAIN THAT MIGHT HAVE TO BE DISCONNECTED BECAUSE OF THE REMOVAL OF ANY OTHER DEVICE MUST BE RECONNECTED AND TIED BACK TO THE EXISTING BUILDING SYSTEMS AND TESTED FOR CORRECT OPERATION.
- 10. PROTECT SURROUNDING UTILITIES, WALLS, FLOORS AND CEILING FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED DURING CONSTRUCTION.
- II. ALL FINISHES AND SURFACES TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION WORK OR AFFECTED BY THE REMOVAL, RELOCATION, INSTALLATION OF ANY PIECE OF EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- 12. WORK CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK IN PROPER MANNER NOT SHOWN ON THE PLANS OR NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER IN WRITING FOR APPROVAL.
- 13. SUBMIT A COMPLETE "AS-BUILT" RECORD SET TO OWNER.
- 14. CUT ALL OPENINGS, CHASES, TRENCHES, ETC. REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION AND REPAIR ALL WALLS, ROOF, ETC. DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THIS BUILDING.
- VERIFY ALL VOLTAGES WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.
 SUBMIT SHOP DRAWINGS OF ALL MATERIALS, DUCTWORK, PIPING AND EQUIPMENT FOR
- REVIEW BY ENGINEER PRIOR TO ORDERING, FABRICATION, AND/OR INSTALLATION. 17. <u>FLEXIBLE DUCTWORK</u>: FLEXIBLE DUCTS SHALL BE COMPLY WITH FBC SECTIONS 419.3.6.4 THROUGH 419.3.6.4.4 AND LISTED BY UNDERWRITERS LABORATORIES, INC., UNDER UL
- STANDARD 181 AS A CLASS I FLEXIBLE AIR DUCT AND COMPLYING WITH NFPA STANDARDS 90A AND 90B. A. DUCTS SHALL BE FACTORY MADE AND COMPOSED OF A CONTINUOUS METAL LINER DUCT
- (CPE LINER) PERMANENTLY BONDED TO A COATED SPRING STEEL WIRE HELIX, INSULATED WITH 2" THICK 3/4 LB. DENSITY FIBERGLASS INSULATING BLANKET (R-VALUE NOT LESS THAN 6.0), AND COVERED WITH LOW PERMEABILITY OUTER VAPOR BARRIER OF FIBERGLASS REINFORCED FILM LAMINATE. APPROVED MANUFACTURER & MODEL: THERMAFLEX M-KE, FLEXMASTER IM, OR APPROVED EQUAL.
- 18. ALL EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR THE PERIOD OF ONE YEAR.
- 19. ALL MECHANICAL EQUIPMENT SHALL BE ARI AND U.L. LISTED WHERE APPLICABLE AND RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, AND SHALL BE PROVIDED WITH ALL NECESSARY TRANSFORMERS, SEALS VALVES, CONTROLS, CONNECTIONS, GAUGES, ETC. TO FUNCTION PROPERLY.
- 20. ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR. ALL CONTROL WIRING SHALL RUN IN CONDUITS.
- 21. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE, SMACNA & NFPA.
- 22. ALL DUCTWORK SHALL BE LEAK TESTED AS PER LATEST FLORIDA BUILDING CODE. SEAL ALL DUCTS, JOINTS AN SEAMS IN AN APPROVED MANNER AND INSURE AGAINST LEAKAGE.
- 23. ALL DUCTWORK PENETRATIONS THRU RATED WALLS SHALL HAVE A FIRE DAMPER OR FIRE/SMOKE DAMPER, UNLESS INDICATED OTHERWISE TO MAINTAIN THE WALL RATING. ALL DUCTWORK PENETRATING SMOKE TIGHT PARTITIONS SHALL BE PROPERLY SEALED (SMOKE TIGHT).
- 24. ALL OUTSIDE AIR INTAKES SHALL BE AT 10'-0" MINIMUM DISTANCE FROM ANY EXHAUST DISCHARGE OR PLUMBING VENTS.
- 25. ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS, SMOKE DAMPERS AND SMOKE DUCT DETECTORS SHALL BE PROVIDED WITH AN ACCESS DOOR ON DUCTWORK (ULTRA LOW LEAKAGE INSULATED & GASKETED) OF ADEQUATE SIZE FOR INSPECTION AND SERVICEABILITY AS PER NFPA 90A, SEC. A-2-3.4.1 AND MECH-FBC SECTION 607.4. FIELD COORDINATE LOCATION / SIDE OF ACCESS DOOR ACCORDINGLY.
- 26. PROVIDE CEILING/WALL ACCESS PANELS WHERE INDICATED IN THE DRAWINGS AND WHERE REQUIRED TO ACCESS HVAC EQUIPMENT/DEVICES AS PER MECH-FBC SECTION 607.4. PANELS SHALL BE RECESSED TYPE, FIRE RATED IF IN FIRE RATED WALLS OR CEILINGS. LOCATIONS OF PANELS SHALL BE COORDINATED WITH ALL THE OTHER TRADES.
- 27. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. TURNING VANES SHALL BE OF SAME MATERIAL AS DUCTWORK, AND BE AIRFOIL TYPE, DOUBLE THICKNESS. REFER TO SPECIFICATIONS.
- 28. ALL WORK SHALL COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE WITH PROGRESS CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.

- 29. COORDINATION DRAWINGS: THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. PRIOR TO COMMENCEMENT OF ORDERING MATERIAL, FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL DEVELOP AS REQUIRED DETAILED COORDINATION DRAWINGS SHOWING CLEARANCES WITH BUILDING STRUCTURE, CEILINGS HEIGHT AND OVERALL COORDINATION WITH ALL OTHER TRADES. WHENEVER THERE IS A CONFLICT, THE CONTRACTOR SHALL SHOW THE PROPOSED SOLUTION ON THE COORDINATION DRAWINGS. DUCTWORK, PIPING OFFSETS, RISES/DROPS, RE-ROUTING AND RE-DIMENSIONING SHALL BE SHOWN ON THE COORDINATION DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER.
- 30. ALL EQUIPMENT, PIPING & DUCTWORK SUPPORT COMPONENTS SHALL BE HOT-DIPPED GALVANIZED.
- 31. ALL ACTUATORS FOR AND DAMPERS SHALL HAVE THE CAPABILITY FOR FULL FEEDBACK.
- 32. PROVIDE NEW FILTERS FOR ALL HVAC EQUIPMENT BEFORE START-UP & TESTING. REPLACE FILTERS PRIOR TO FINAL ACCEPTANCE BY OWNER.
- 33. ALL EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MINIMUM. ALL METAL EXHAUST, MAKE-UP/OUTSIDE INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE INSULATED WITH R-8 MINIMUM.
- 34. ALL MECHANICAL EQUIPMENT INSTALLATION ON THE EXTERIOR OF THE BUILDING SHALL BE CAPABLE TO WITHSTAND HIGH VELOCITY WINDS AS REQUIRED BY FBC.
- 35. DUE TO DRAWINGS BEING DIAGRAMMATIC IN NATURE RISERS AND DROPS ARE NOT SHOWN -CONTRACTOR SHALL INCLUDE THESE IN THE BID - WHERE POSSIBLE ALL RISERS AND DROPS SHALL BE CONSTRUCTED USING 45 DEGREE OR LONG RADIUS ELBOWS.
- 36. PROVIDE AND INSTALL NECESSARY DUCTWORK TRANSITIONS INCREASERS/REDUCERS AS REQUIRED FOR EQUIPMENT CONNECTIONS. CONSULT MANUFACTURER'S DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTIONS SIZES, INCLUDING, BUT NOT LIMITED TO THOSE SHOWN.
- 37. PROVIDE MANUAL VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND GRILLES PROVIDE DAMPERS AS CLOSE AS POSSIBLE TO MAIN IN BRANCH CONNECTION. REFER TO DETAILS.
- 38. DO NOT BLOCK TUBE PULL OR SERVICE SPACE ON EQUIPMENT WITH PIPING, DUCTWORK, ETC 39. SCHEDULE SHUT DOWNS WITH THE OWNER A MINIMUM OF 72 HOURS IN ADVANCE. ALL SHUT
- DOWN NOTICES SHALL BE APPROVED BY THE FACILITY DEPARTMENT PRIOR TO COMMENCEMENT.
- 40. NO DUCTWORK SHALL BE INSTALLED UNTIL IT IS COORDINATED WITH ALL OTHER TRADES AFFECTED. PROVIDE ALL OFFSETS REQUIRED TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING CONDITIONS AND WITH THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN.
- 41. IF NO SIZE IS SHOWN FOR DUCT SERVING DIFFUSER OR GRILLES, USE SIZE SHOWN ON DIFFUSER AND GRILLE SCHEDULE.
- 42. ALL CONDUITS, PIPING, DUCTWORK ROUTED PARALLEL TO RATED WALLS (FIRE, FIRE/SMOKE, SMOKE OR CORRIDORS) SHALL BE INSTALLED WITH MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS AS PER FBC. CONTRACTOR SHALL PROVIDE 12" CLEARANCE WHERE POSSIBLE.
- 43. PROVIDE MINIMUM CLEARANCE OF 36" IN FRONT OF ALL 120/208V PANELS AND MINIMUM 42" IN FRONT OF 277/480V PANELS. PROVIDE ADEQUATE CLEARANCES PER N.E.C.
- 44. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL WORK NECESSARY TO PREPARE THE STRUCTURE FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS. AS PART OF DEMOLITION, ALL HOLES, OPENINGS AND ANY DAMAGED MATERIALS OR SURFACES SHALL BE REPAIRED AND FINISHED TO MATCH EXISTING.
- 45. ALL DEMOLITION WORK SHALL COMPLY WITH NFPA 241 AND THE REQUIREMENTS OF THE OWNER.
- 46. ALL DIFFUSERS/GRILLES IN SAME SPACE SHALL HAVE THE SAME FULL FACE SIZE USING LARGEST SIZE REQUIRED FROM DIFFUSER AND GRILLE SCHEDULE.
- 47. PROVIDE MANUFACTURER'S CERTIFIED DATA (FLORIDA APPROVAL) OR ENGINEERED CALCULATIONS ON ALL EXTERIOR MOUNTED EQUIPMENT DURING SUBMITTAL PHASE, WHICH INDICATES THAT THE EQUIPMENT CAN WITHSTAND A WIND LOAD REQUIRED BY THE FBC. IF EQUIPMENT DOES NOT HAVE FLORIDA APPROVAL, CONTRACTOR SHALL PROVIDE S&S CALCULATIONS OF EQUIPMENT & SUPPORTS DETAILS.
- 48. EXACT LOCATION OF CEILING DIFFUSER, GRILLED, REGISTERS, ETC. TO BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- 49. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
- 50. PROVIDE INSTRUMENTAL TEST HOLES IN DUCTWORK WHEREVER VOLUME DAMPERS ARE REQUIRED.
- 51. EXACT LOCATIONS OF THERMOSTATS TO BE COORDINATED WITH ALL OTHER TRADES & ARCHITECT BEFORE ROUGH-IN OR INSTALLATION.
- 52. ALL EXPOSED EQUIPMENT (REGISTERS, GRILLES, DIFFUSERS, LOUVERS ETC.) SHALL HAVE COLORS SELECTED BY THE ARCHITECT UNLESS OTHERWISE NOTED.
- 53. COORDINATE ALL MOTOR, STARTER, VFD OR DISCONNECT REQUIREMENTS WITH ELECTRICAL DRAWINGS FOR ALL EQUIPMENT REQUIRING SAME. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH STARTED UNLESS A VFD IS SPECIFIED.
- 54. ALL DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- 55. PROVIDE ALL DUCT CONNECTIONS TO EQUIPMENT INDICATED ON THE ARCHITECTURAL DRAWINGS AND FOR EQUIPMENT FURNISHED NEW BY THE OWNER OR EQUIPMENT RELOCATED FROM EXISTING FACILITY AREAS. COORDINATE REQUIREMENTS WITH ARCHITECT, OWNER ¢ CONSTRUCTION MANAGER. REVIEW ALL DRAWINGS FOR THESE REQUIREMENTS AND ASCERTAIN THE EXACT SCOPE IN THE FIELD PRIOR TO SUBMITTING BIDS.
- 56. REINSULATE EXISTING PIPING AND DUCTWORK WITHIN 10'-0" OF POINT OF CONNECTED NEW SYSTEMS.
- 57. THE HVAC CONTRACTOR, IN CONJUNCTION WITH THE CONSTRUCTION MANAGER, AND OR THE GENERAL CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT THE EXISTING HVAC EQUIPMENT DURING CONSTRUCTION.
- 58. DUCTWORK AND PIPING TO BE INSTALLED ON THIS PROJECT SHALL BE TRANSPORTED TO THE SITE IN AN ENCLOSED TRUCK. DUCTWORK AND PIPING TO BE STORED ON SITE SHALL BE KEPT OFF THE FLOOR IN A CLEAN, DRY LOCATION WITH ALL ENDS SEALED WHILE STORED. AS INSTALLATION PROGRESSES ALL DUCTWORK AND PIPING ENDS SHALL BE KEPT SEALED.
- 59. REFER TO BOOK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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CODE COMPLIANCE

MECHANICAL WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS & CODES AS APPLICABLE:

- 2020 FLORIDA BUILDING CODE (7TH EDITION) 2020 FBC MECHANICAL CODE (7TH EDITION) 2020 FLORIDA FIRE PREVENTION CODE 7TH EDITION BASED ON * NFPA I FIRE CODE - 2018 EDITION
- * NFPA IOI LIFE SAFETY CODE 2018 EDITION

LATEST ASHRAE STANDARDS AND NFPA

- 2018 NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS 2020 USPS STANDARD DESIGN CRITERIA, HANDBOOK AS-503
- SYSTEM COMMISSIONING & T&B REQUIREMENTS.
- A: SYSTEM COMMISSIONING
- SYSTEM COMMISSIONING SHALL COMPLY WITH SECTION C408 OF THE LATEST FLORIDA ENERGY CONSERVATION CODE (2020 7TH EDITION). APPROVED AGENCY SHALL DEVELOP A COMMISSIONING PLAN TO INCLUDE THE FOLLOWING ITEMS:
- 1. A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
- 2. A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCE OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
- 3. FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND ECONOMIZER CONTROLS.
- 4. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL AFFIRM
- WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS.
- 5. MEASURABLE CRITERIA FOR PERFORMANCE.
- B: UPON COMPLETION OF WORK:
 - A. CONTRACTOR SHALL RETAIN THE SERVICE OF AN INDEPENDENT CERTIFIED AIR BALANCE FIRM TO PERFORM A TEST & BALANCE OF SYSTEMS TO PROVIDE INDICATED AIRFLOW QUANTITIES, WATERFLOWS, PRESSURE, TEMPERATURE, PERFORMANCES, ETC.
 - B. ANY DEFICIENCIES SHALL BE REPORTED AND SHALL BE CORRECTED BY THE CONTRACTOR RESPONSIBLE FOR THAT WORK. T&B SHALL ALSO TEST CONTROLS SYSTEM COMPLIES WITH SEQUENCE OF OPERATIONS NOTED ON SHEET
 - C. TEST & BALANCE SHALL BE PERFORMANCE BY A NEEB CERTIFIED INDEPENDENT T&B AGENCY PRIOR TO ANY SPACE OCCUPIED
 - ** REFER TO T&B SPECIFICATIONS.

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR	Х	
FIRE DAMPER(S)	Х	
FIRE/SMOKE DAMPER(S)		Х
FIRE RATED ENCLOSURE		Х
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		Х
FIRE STOPPING		Х
SMOKE CONTROL		Х

NOTE TO CONTRACTOR:

ALL DUCTWORK CROSSING FIRE RATED WALLS AND/OR FLOORS WITH A I-HOUR OR MORE RATING SHALL BE FURNISHED WITH A FIRE DAMPER AS REQUIRED BY THE 2017 FLORIDA MECHANICAL CODE, SECTION 607.

PIPE SUPPORT SPACING							
PIPE MATERIAL	MAX. HORIZONTAL SPACING (FT.)	MAX. VERTICAL SPACING (FT.)					
COOPER	6	10					
PVC	8	10					
STEEL	12	15					

NOTE:

MAXIMUM SPACING AS PER SCHEDULE UNLESS OTHERWISE NOTED OR INDICATED ON PLANS. REFER TO STRUCTURAL DRAWINGS.

MECF	ANICAL DRAWINGS LIST
M0.0.1	MECHANICAL ABBREVIATIONS & LEGEND
M0.02	MECHANICAL SCHEDULES
M2.01	MECHANICAL GROUND FLOOR - DUCTWORK
M2.02	MECHANICAL ROOF PLAN
M3.01	MECHANICAL - SEQUENCE OF OPERATION
M4.01	MECHANICAL DETAILS
M4.02	MECHANICAL DETAILS



UNIT N		RTU-I	RTU-2	GYME	30L & USE	TYPE	
LOCATI	ION	ROOF	ROOF		~~ + UJE		
AREA	SERVED	NORTH AREA	SOUTH AREA		SUPPLY	LOUVERED FACE	
	BASIS MANUFACTURER	CARRIER	CARRIER			ADJUSTABLE	
	TING WEIGHT (LBS.)	3,121	2,984			LAY-IN TYPE	
MODEL		50LCEA20A3N5-ICIA0	50LCDA17A4N5-ICIA0				
	ERANT TYPE	R-410A	R-410A				
	RICAL DATA MCA/MOP (AMPS) RICAL SERVICE AVAILABLE (V/PH)	180 / 200 208 / 3	208 / 3		SUPPLY	LOUVERED FACE	
EER	NCAL SERVICE AVAILABLE (V/I H)	12.2	12.6				
	JURATION	VERTICAL SUPPLY / VERTICAL RETURN	VERTICAL SUPPLY / VERTICAL RETURN				
CONTIG	TOTAL SUPPLY AIR (CFM)	(VARIABLE VOLUME) 5,250	(VARIABLE VOLUME) 4,500	(B)	RETURN	PERFORATED	
	MINIMUM SUPPLY AIRFLOW (%)	77%	94%				
	OUTSIDE AIR (CFM)	1,105	945				
	EXTERNAL STATIC PRESSURE (IN W.G.)	, I.94	1.94	\bigcirc	RETURN	LOUVERED GRILLE	
FAN	FAN RPM	I,030	1,012		T/A	SINGLE DEFLECTION	
	TYPE / DRIVE	CENTRIFUGAL / BELT	CENTRIFUGAL / BELT			½" BLADE SPACING	
	MOTOR BRAKE HORSEPOWER (BHP)	4.05	3.48				
	ELECTRICAL SERVICE AVAILABLE (V/PH)	208 / 3	208 / 3		EXHAUST	LOUVERED GRILLE	
	VARIABLE FREQUENCY DRIVE	YES	YES			½" BLADE SPACING	
	TOTAL LOAD CAPACITY (MBH)	207.09	186.23				
coll	SENSIBLE LOAD CAPACITY (MBH)	132.2	122.4				
NG C	DESIGN AIRFLOW (CFM)	5,250	4,500		EXHAUST	LOUVERED GRILLE	
COOLING	FACE VELOCITY (FPM) MAX	500	500			½" BLADE SPACING	
J	ENTERING AIR TEMP DB/WB (*F)	79.7 / 67.8	79.9 / 67.2				
	LEAVING AIR TEMP DB/WB (°F) (COIL)	56.8 / 56.2	55.9 / 55.4				
۵⁄		ELECTRIC	ELECTRIC				
HEATER	CAPACITY (KW)	27.0	15.5	(E)	SUPPLY	ROUND DIFFUSER	
Ŧ	ENTERING AIR TEMPERATURE (°F) ELECTRICAL SERVICE AVAILABLE (V/PH)	38.0 208 / 3	38.0		JUTTLI	NUTER NUTER	
	LLUTNICAL JENVILE AVAILADEE (V/M)						
REHEAT	ТҮРЕ	MODULATING HOT GAS REHEAT	MODULATING HOT GAS REHEAT	(F)	SUPPLY	LOUVERED SIDE WALL	. GRILLF
RE						DOUBLE DEFLECTION	
ERS	TYPE & THICKNESS	MERV 8 / 4 IN	MERV 8 / 4 IN			3/4" BLADE SPACING	
FILTERS	FACE VELOCITY (FPM) MAX EFFICIENCY (%)	500 30-35	500 30-35				
	TYPE OF FAN	30-35 PROPELLER	90-35 PROPELLER	(*) GT	יסוח חסגחוג ו	ECTION OF FLOW IS 4-WA	
SER	AMBIENT AIR TEMP DB (°F)	91.0	91.0	NOTES:		ECTION OF FLOW 13 4-MA	AT UNLES
CONDENSER	TYPE OF COMPRESSOR	SCROLL	SCROLL	I. CC	ORDINATE M	NTH ARCHITECTURAL REF	
<u>C</u> O	ELECTRICAL SERVICE AVAILABLE (V/PH)	208 / 3	208 / 3			SHALL BE WHITE, UNLESS XES SHALL BE <u>ALL ALUMI</u>	
		2007 0					
	НЕІСНТ	AS PER MANUFACTURER	AS PER MANUFACTURER	4. NC	ISE CRITERI	A AND VELOCITY PRESSU	IRES WE
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TYPENECK SIZE (INCHES)CFM RANGENOISE CRITERIA (NC) MAX.ACCESSORIALOUVERED FACE6φ0 - 12524x24 MODULEADJUSTABLE8φ130 - 28019PANEL MOUNTED (3PA ROUND NECK ADAPTO INSULATED BACKPANLAY-IN TYPE10φ285 - 35015ROUND NECK ADAPTO INSULATED BACKPANLOUVERED FACE6φ0 - 1251512x12 MODULE ROUND NECK ADAPTO INSULATED BACKPANLOUVERED FACE6φ0 - 12512x12 MODULE ROUND NECK ADAPTO INSULATED BACKPANPERFORATED14x140 - 35024x24 MODULE	OR TITUS APPROVE EQUAL
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LOUVERED FACE 60 0 - 125 80 130 - 205 ROUND NECK ADAPTO INSULATED BACKPAN	R
8φ 130 - 205 ROUND NECK ADAPTO INSULATED BACKPAN	
INSULATED BACKPAN	ASPD
	R
14X14 U - 330 Z4X24 HODOLE	10A
18x18 355 - 620 PANEL MOUNTED (3PA	A)
LOUVERED GRILLE 18x12 330 - 530 25 WALL MOUNTED	635-L-N
SINGLE DEFLECTION (30-40 REQ'D) BLADES PARALLEL TO	0
1/2" BLADE SPACING LONG DIMENSION	
NARROW BORDER (I")	
LOUVERED GRILLE 8x8 0 - 145 15 24x24 MODULE	635FF
½" BLADE SPACING 10x10 150 - 235 (30-40 REQ'D) NARROW BORDER (1")	
12x12 240 - 350 SERVICEABLE HINGED	-TAB
14x14 360 - 480	
LOUVERED GRILLE 6x6 0 - 100 15 12X12 MODULE	635FF
105 - 175 (30-40 REQ'D) SURFACE MOUNTED	
NARROW BORDER (I")	
SERVICEABLE HINGED	-TAB
2" FILTER FRAME (SE	E NOTE 9)
ROUND DIFFUSER 140 0-450 15 140 MODULE	RPD
ADJUSTABLE	
LOUVERED SIDE WALL GRILLE IO x 6 0 - 110 25 WALL MOUNTED	620-L-N
DOUBLE DEFLECTION 16 x 8 115-490 (30-40 REQ'D) BLADES PARALLEL TO	
3/4" BLADE SPACING	
NARROW BORDER (I")	

OUTSIDE AIR RE	EQUIREMENTS FOR VENTILATION										
		OCCUPAN	CY			VEN	FILATION				
UNIT	TYPE OF OCCUPANCY	FLOOR AREA (FT²)	PERSONS PER 1000 FT ²	TOTAL PERSONS	CFM/PERSON	CFM/FT ²	CFM REQUIRED	CFM PROVIDED			
	WORK ROOMS	10,115	7	70	7.5	0.12	1,739				
RTU-I,	CORRIDOR	DR 1,010 -		0	0	0.06	61.0				
RTU-2, AC-1			5	5 I		0.06	14.0				
	BREAKROOM	495	5	2	5	0.06	40.0				
	SUB-TOTAL										

NOTES I. TOTAL PERSONS IS BASED ON MAXIMUM NUMBER OF OCCUPANTS EXPECTED TO BE CURRENTLY IN ALL ZONES SERVED BY THE SYSTEM. 2. CIO ROOM OUTSIDE AIR PROVIDED IS BASED ON CORRESPONDING PERCENTAGE OF OUTSIDE AIRFLOW TO TOTAL SUPPLY AT RTU-2 SERVING WORKROOM, STORAGE AREAS AND BREAKROOM. (21.5% O/A)

BUILDING AIR PRESSURIZATION								
OUTSIDE AIR (CFM) EXHAUST AIR (CFM) PRESSURIZATION (CI								
+2,050	+1,050							

DIRECTION OF FLOW IS 4-WAY UNLESS AS NOTED ON FLOOR PLAN.

ATE WITH ARCHITECTURAL REFLECTED CEILING PLANS DRAWINGS FOR DIFFUSER/GRILLE LOCATION.

DLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED. SUBMIT COLOR CHART TO ARCHITECT FOR SELECTION.

DEVICES SHALL BE ALL ALUMINUM CONSTRUCTION, INCLUDING ACCESSORIES, UNLESS OTHERWISE NOTED. ITERIA AND VELOCITY PRESSURES WERE CONSIDERED FOR EACH CFM RANGE WITH ITS CORRESPONDING NECK SIZE. NC VALUES SHALL NOT HOSE LISTED ABOVE.

VOLUME DAMPERS SHALL BE LOCATED ON DUCT TAP AS SHOWN IN DETAILS ON ALL BRANCHES (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR FOR SYSTEM BALANCING). COORDINATE WITH SHEET METAL CONTRACTOR AND ACCESS LOCATIONS PRIOR TO INSTALLING. REMOTE VOLUME DAMPER CONTROLLER (YOUNG REGULATOR) FOR ALL AREAS WITH HARD CEILINGS WITHOUT ACCESS PANELS AND/OR

CES SHALL BE ORDERED WITH APPROPRIATE BORDER TYPE. COORDINATE WITH ARCHITECTURAL DRAWINGS CEILING TYPE.

5 AND GRILLES SHALL BE PROVIDED WITH MANUFACTURER'S INSULATED BACKPAN, OR SHALL BE EXTERNALLY FIELD INSULATED (MIN.

TED RETURN AND EXHAUST GRILLES SHALL BE PROVIDED WITH HINGED-TAB FOR SERVICEABILITY. THESE GRILLES SHALL NOT BE PROVIDED TER MEDIA; FILTERS ARE LOCATED AT THE AIR HANDLING UNIT.

8														DESIGN	BASIS: GREENHECK
FAN PERFORMANCE MOTOR						MOTOR			ACCESSO	RIES					
LOCATION	AREA SERVED	TYPE	CFM	BHP	E.S.P. (IN WG)	FAN RPM	DRIVE TYPE	HP	VOLT/PH	VFD	BACKDRAFT DAMPER	OTHER	MODEL	FLORIDA PRODUCT APPROVAL / NOA	FAN INTERL <i>O</i> CKING
ROOF	TLT / LOCKERS / BREAKROOM	CENTRIFUGAL UPBLAST	1,000	0.19	0.5	1,549	DIRECT (varigreen)	1/4	208 / 1	SPEED DIAL	YES	SEE BEL <i>O</i> W	CUE-101-VG	#FLI3225.1 / NOA:21-0318.05	RTU-I / RTU-2

WITH HI-PRO POLYESTER COATING - DARK GRAY AND I" LINER.

6. HINGED BRACKET KIT 7. FOAM CURB SEAL.

8. TIE DOWN POINTS - SET OF 4

DISCONNECT SWITCH, TOGGLE TYPE RATED 120V, 9. CORROSION RESISTANT FASTENERS (STAINLESS STEEL) -BOX WITH WEATHERPROOF COVER. FURNISHED \$ 10. ALUMINUM BIRDSCREEN.

FINAL CONNECTION BY ELECTRICAL.

11. WIRING PIGTAIL, INTERNAL UDING 24" ROOF CURB AND DAMPER SHALL BE 5. ROOF CURB RATED FOR HIGH VELOCITY WINDS (COATED) 13 FAN COMPLETE ASSEMBLY SHALL BE RATED FOR HIGH

VELOCITY WINDS.

14. UL/cUL 705 LISTED - POWER VENTILATORS. 15. STARTER WITH ON / OFF.

REP CONTACT INFORMATION: CORS-AIR - ANTONIO BRAVO ABRAV0@CORS-AIR.COM

(954) 456-4300

DX	SPLIT AC UNIT SCHEDULE	(CASSETTE)
UNIT I	DESIGNATION	AC-I
LOCAT	ION / AREA SERVED	CIO OFFICE
DESIG	N MANUFACTURER	CARRIER
MODEL	- NO. (AC / CU)	40MBCQ093 / 38MARBQ09AA3
OPERA	ATING WEIGHT AC (LBS.)	41
INDOO	R UNIT DIMENSION (W x D x H)IN	23 x 23 x II
OUTDO	DOR UNIT DIMENSION (W x D x H)IN	32 x 13 x 22
SEER	/ EER	20.5 / 13
REFRIC	GERANT TYPE	R-410A
CONFIC	GURATION	CEILING MOUNTED (CASSETTE)
	TOTAL AIR (CFM)	250
FAN	MCA	0.2
	ELECTRICAL SERVICE AVAILABLE (V/PH)	230 / 1
	TOTAL LOAD CAPACITY (MBH)	4.9
٦٢	SENSIBLE LOAD CAPACITY (MBH)	4.6
COOLING COIL	DESIGN AIRFLOW (CFM)	250
NITO	COIL TYPE	DX
ω	ENTERING AIR TEMP DB/WB (°F)	73.0 / 59.5
	LEAVING AIR TEMP DB (°F)	55.0 / 52.4
FILTERS	TYPE	MERV 8
FILT	QUANTITY	
Ē	UNIT DESIGNATION	CU-1
AIR COOLED CONDENSING UNIT	LOCATION	ROOF
NSINC	TYPE OF FAN & NO. OF FANS	PROPELLER / 1
IDDEI	AMBIENT AIR TEMP DB (°F)	91.0
D CC	NO. OF COMPRESSORS	
DILEI	MCA / MOCP	15 / 15
R CC	ELECTRICAL SERVICE AVAILABLE (V/PH)	240 / 1
AI	OPERATING WEIGHT (LBS.)	74.1
NOTES	2	

. PROVIDE 7-DAY PROGRAMMABLE CONTROLLER/THERMOSTAT (WIRED) CAPABLE TO CONTROL BOTH INDOOR UNIT AND CONDENSING UNIT (ON/OFF, OPERATION MOD, TEMPERATURE SET-POINTS, FAN SPEED, AIRFLOW DIRECTION, € PROGRAMMABLE) AND CAPABLE TO BE MONITORED AT THE BMS - COORDINATE

WITH CONTROLS CONTRACTOR. 2. ALL REFRIGERANT PIPING SHALL BE ORDERED AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. SIZE AS REQUIRED TO COMPENSATE FOR LINES LOSS WITH MINIMUM CAPACITY REDUCTION. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.

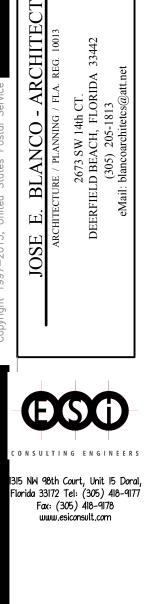
3. NEW CONDENSING UNIT SHALL BE SECURED IN COMPLIANCE WITH THE WIND LOADING REQUIREMENTS OF CHAPTER 16 (HIGH VELOCITY HURRICANE ZONE). REFER TO STRUCTURAL DRAWING FOR SUPPORTS.

4. PROVIDE FLOAT SWITCH FOR UNIT SHUT-DOWN.

5. PROVIDE INLINE CONDENSATE REMOVAL PUMP FACTORY MOUNTED. 6. DX SPLIT UNIT SHALL BE INSTALLED AND PROVIDED WITH ALL REQUIRED

ACCESSORIES (FILTER, PORTS, ETC) PER MANUFACTURER RECOMMENDATIONS. 7. PROVIDE ANTICORROSION TREATMENT TO THE CONDENSER COIL.

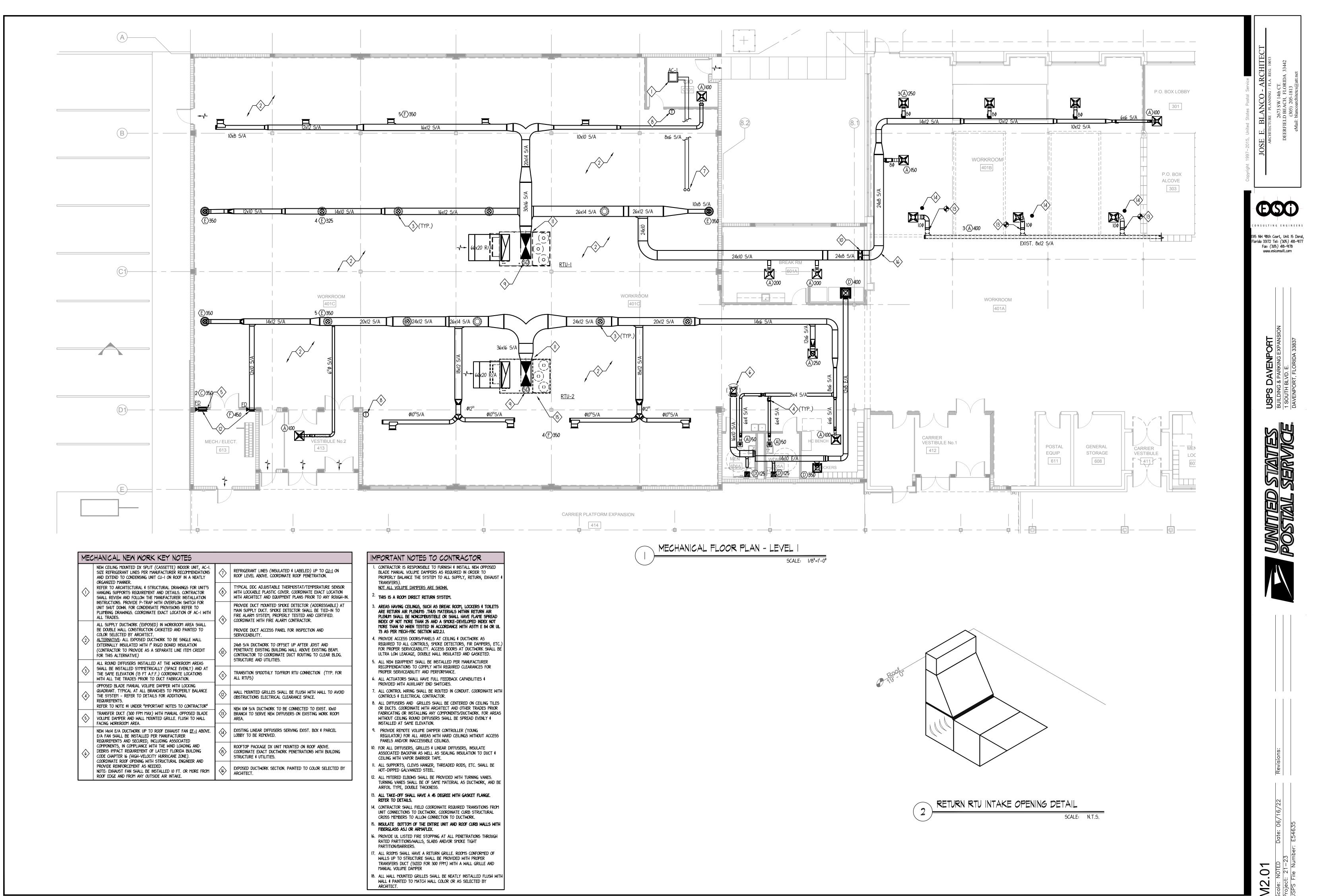
8. PROVIDE OUTDOOR AIR SENSOR.

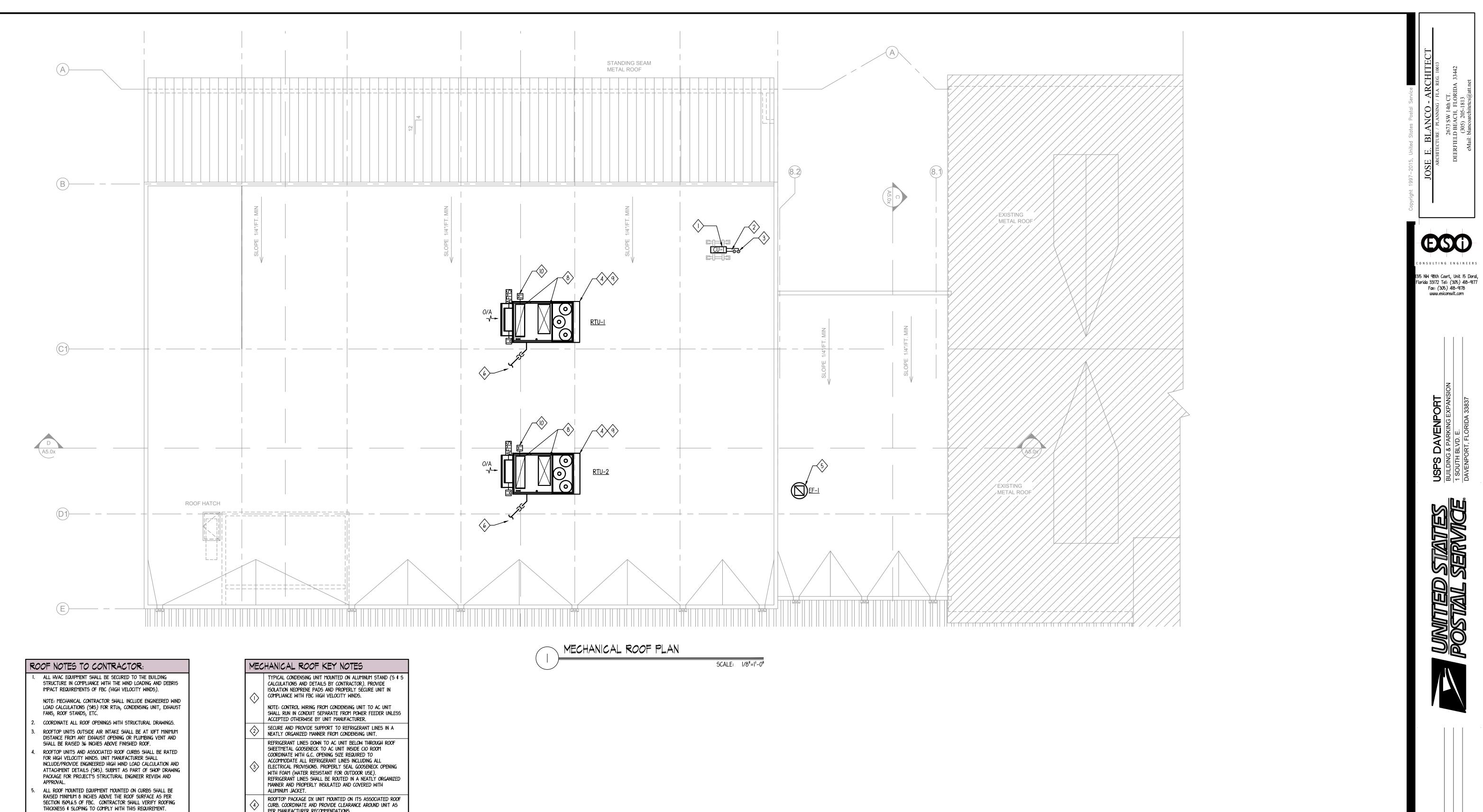




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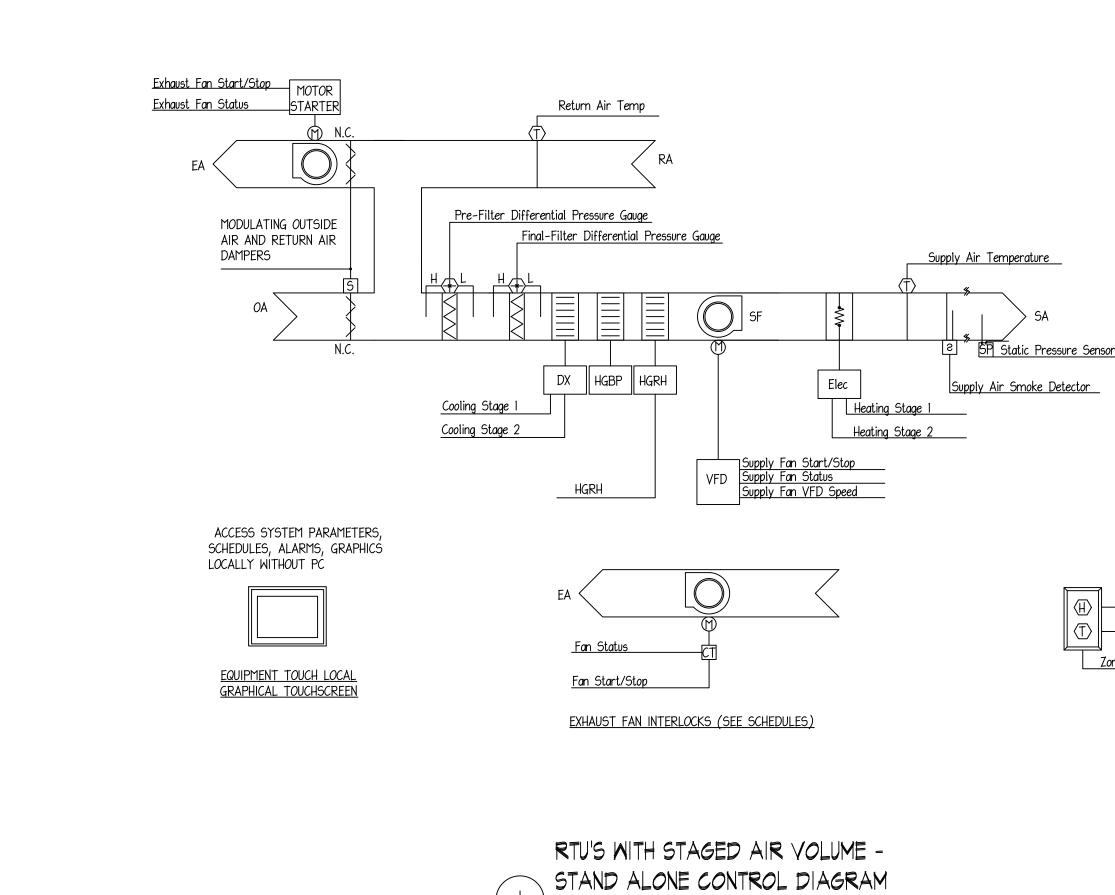


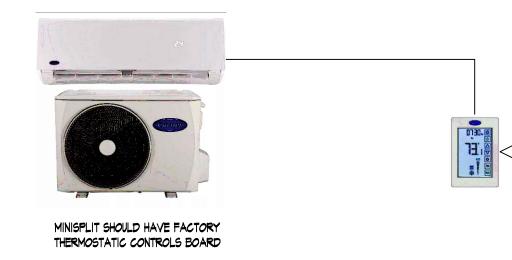


- THICKNESS & SLOPING TO COMPLY WITH THIS REQUIREMENT. CONTRACTOR SHALL COORDINATE IN DETAIL ALL ROOF WORK WITH
- ROOFING CONTRACTOR, STRUCTURAL DRAWINGS AND ARCHITECT TO MAINTAIN ROOF INTEGRITY. HVAC EQUIPMENT SHALL BE INSTALLED MORE THAN 10 FT AWAY
- FROM THE ROOF EDGE.
- . PROVIDE <u>UL</u> LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH ROOF. . ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER
- RECOMMENDATIONS TO COMPLY WITH REQUIRED CLEARANCES FOR PROPER SERVICEABILITY AND PERFORMANCE. IO. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT. COORDINATE WITH CONTROLS & ELECTRICAL CONTRACTOR.
- EXHAUST FANS SHALL BE INSTALLED MORE THAN 10 FT AWAY FROM THE BUILDING EDGE, MORE THAN 10 FT ANY FROM ANY AIR
- INTAKES. 2. ALL ROOF SUPPORTS AND ASSOCIATED COMPONENTS SHALL BE ALL ALUMINUM CONSTRUCTION.
- 3. ALL EQUIPMENT SHALL BE LABELED WITH ENGRAVED PLASTIC SIGN WITH NAMING CONVENTION NOTED HEREIN OR AS DIRECTED BY FACILITY PM.
- 4. All roof mounted equipment shall be raised to have a minimum Clearance above finish roof in compliance with table 1522.3 of

MECHANICAL ROOF KEY NOTES			
\diamondsuit	TYPICAL CONDENSING UNIT MOUNTED ON ALUMINUM STAND (S $\&$ S CALCULATIONS AND DETAILS BY CONTRACTOR). PROVIDE ISOLATION NEOPRENE PADS AND PROPERLY SECURE UNIT IN COMPLIANCE WITH FBC HIGH VELOCITY WINDS.		
	NOTE: CONTROL WIRING FROM CONDENSING UNIT TO AC UNIT SHALL RUN IN CONDUIT SEPARATE FROM POWER FEEDER UNLESS ACCEPTED OTHERWISE BY UNIT MANUFACTURER.		
$\langle 2 \rangle$	SECURE AND PROVIDE SUPPORT TO REFRIGERANT LINES IN A NEATLY ORGANIZED MANNER FROM CONDENSING UNIT.		
3	REFRIGERANT LINES DOWN TO AC UNIT BELOW THROUGH ROOF SHEETMETAL GOOSENECK TO AC UNIT INSIDE CIO ROOM COORDINATE WITH G.C. OPENING SIZE REQUIRED TO ACCOMMODATE ALL REFRIGERANT LINES INCLUDING ALL ELECTRICAL PROVISIONS. PROPERLY SEAL GOOSENECK OPENING WITH FOAM (WATER RESISTANT FOR OUTDOOR USE). REFRIGERANT LINES SHALL BE ROUTED IN A NEATLY ORGANIZED MANNER AND PROPERLY INSULATED AND COVERED WITH ALUMINUM JACKET.		
$\langle \! \! \rangle$	ROOFTOP PACKAGE DX UNIT MOUNTED ON ITS ASSOCIATED ROOF CURB. COORDINATE AND PROVIDE CLEARANCE AROUND UNIT AS PER MANUFACTURER RECOMMENDATIONS.		
\$	EXHAUST FAN MOUNTED ON ASSOCIATED ROOF CURB. COMPLETE ASSEMBLY SHALL BE PROPERLY SECURED IN COMPLIANCE WITH FBC HIGH VELOCITY.		
\diamond	NEW CONDENSATE LINE FROM RTU'S WITH OVERFLOW SWITCH. PROVIDE P-TRAP AND RUN PIPE SLOPING AT 1/4 ¹ PER FT. TO DISCHARGE INDIRECTLY INTO DOWNSPOUT. REFER TO PLUMBING FOR CONTINUATION. NOTE: INSULATE WITH I ¹ ARMAFLEX AND PROTECTED WITH		
	ALUMINUM JACKETING.		
$\langle \rangle$	RTU'S O/A INTAKE HOOD WITH FACTORY MOUNTED MOTORIZED MODULATING AIR DAMPER CORROSION RESISTANT OB (OPPOSED BLADE ACTION) AND WITH AIRFLOW MEASURING STATION. DAMPER SHALL BE INTERLOCK WITH R/A MOTORIZE DAMPER.		
8>	COORDINATE EXACT S/A AND R/A DUCT PENETRATION BELOW UNIT WITH ACTUAL APPROVED SUBMITTAL. REFER TO MECHANICAL GROUND FLOOR FOR CONTINUATION. TRANSITION SMOOTHLY WITHIN CURB TO UNIT'S OPENING.		
٩	PROVIDE ROOF INSULATION BELOW RTU UNITS. CONTRACTOR SHALL ALSO INSULATE ROOF CURB INTERIOR WALLS AND BOTTOM OF UNIT. COORDINATE WITH ROOFING CONTRACTOR SEQUENCING OF WORK.		
	FACTORY MOUNTED MODULATING R/A CONTROL DAMPER (24VAC). CONTROL CONTRACTOR SHALL WIRE AND CONTROL DAMPER IN CONJUNCTION WITH O/A CONTROL DAMPER AND ASSOCIATED AFMS. REFER TO CONTROL SEQUENCE OF OPERATION. NOTE: RTU SHALL BE EQUIPPED WITH OPTION POWER EXHAUST. ALL ASSOCIATED DAMPERS FOR ECONOMIZER MODE SHALL BE INCLUDED FOR UNITS TO GO ONTO ECONOMIZER MODE. REFER TO SEQUENCE OF OPERATIONS.		

M2.02







	CONTROLS SEQUENCE OF OPERATIONS	
	I. <u>RTU'S (SINGLE ZONE VAV):</u>	• FIRE
	UNIT CONTROLS: • PROVIDE STAND ALONE CONTROLLER CAPABLE TO CONTROL UNIT BASED ON SEQUENCE OF OPERATIONS HEREIN AND HAVE ALL SAFETIES, FIRE ALARM SHUT-DOWN, INTERLOCKING WITH EXHAUST FAN, ETC. INCLUDING CONTROLS FOR PART LOAD CONDITIONS - STAGING.	SHALI SMOK AND COMM PROV TIED-
150r Locate ¾ Down Longest Run Setpoint To Be Verified by	 STARTING AND STOPPING OF EQUIPMENT SHALL BE ACCOMPLISHED THROUGH A VFD/CONTROLLER. THE UNIT SHALL BE STARTED AUTOMATICALLY BY STAND ALONE DDC SYSTEM AND ALL CONTROLS ACTIVATED SUBJECT TO FIRE ALARM RELAY, SAFETIES AND OVERLOADS. THE UNIT OCCUPANCY SCHEDULE SHALL BE SCHEDULED AS OCCUPIED 24HR/DAY/7 DAY/WEEK. THE SUPPLY FAN AND ALL DDC HARDWARE CONTROL LOOPS ARE SUBJECT TO PROOFS AND SAFETIES. 	RELAY: PROV ON DI PROV DUCT ECONOMIZER / THE I
Test & Balance Contractor To Ensure All VAV Boxes Have Sufficient Pressure To Operate At Design CFMs	DEHUMIDIFICATION: • EACH UNIT CONTROLLER SHALL MONITOR HUMIDITY LEVEL IN ZONE AND ENTER A SUBCOOLING OR REHEAT MODE TO DEHUMIDIFY SUPPLY AIR. TO MAINTAIN A SUPPLY AIR TEMPERATURE IN RANGE TO MEET ZONE TEMPERATURE SETPOINTS, THE CONTROLLER SHALL MODULATE THE HGRH VALVE.	THE I RUN 4 THE I RUN 4 THE I ON DI FACTO THE C THE C TEMP
Zone Humidity Zone Temp	 SUPPLY FAN: THE RTU WILL BE FACTORY SUPPLIED WITH A DIRECT DRIVE SUPPLY FAN WITH VFD. THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. ALL ALARMS SHALL BE LOCAL. NOTE THE AIR HANDLING UNIT CANNOT GO BELOW MINIMUM AIRFLOW ACCEPTED BY MANUFACTURER - REFER TO SCHEDULE AND APPROVED SUBMITTAL. 	TEMP OUTSI 2. <u>EXHAUST F</u> A. EXHAUST • FAN S VERSI
Zone Setpoint Adjust	OUTSIDE AIR DAMPER CONTROL: • THE AUTOMATIC OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE - BASED ON A SIGNAL FROM THE OUTSIDE AIR FLOW MEASURING STATION (AFMS - REFER TO SHEET M0.02) - TO MAINTAIN A CONSTANT OUTSIDE AIR FLOW RATE. IF THE OUTSIDE AIR DAMPER REACHES FULL OPEN AND OUTSIDE AIR VOLUME IS NOT SATISFIED, THEN THE AUTOMATIC CONTROL DAMPER IN THE RETURN AIR DUCT SHALL MODULATE CLOSED TO MAINTAIN SCHEDULED OUTSIDE AIRFLOW. UPON FAILURE, THE OA DAMPER SHALL BE NORMALLY CLOSED. WHENEVER THE AHU OPERATES DURING UNOCCUPIED MODE OR IT IS DE-ENERGIZED, THE OA DAMPER SHALL REMAIN CLOSED.	3. <u>DX SPLIT</u> A. THE SPL COOLING B. UNIT THE 0N \$ SUPPO 5AFE C. ALARMS: PROV COND
	COOLING: DISCHARGE AIR CONTROL: IN THE COOLING MODE, THE UNIT CAPACITY SHALL BE MODULATED TO MAINTAIN A CONSTANT COOLING DISCHARGE AIR SET POINT OF 55°F (MAX). THE COOLING DAT SET POINT SHALL BE ADJUSTABLE AT THE UNIT CONTROLLER. THE RTU SHALL EQUIPPED WITH HOT GAS BYPASS OR RAWAL TO OPERATE AT PART LOAD CONDITIONS. UNIT CAPACITY SHALL HAVE A MINIMUM OF (2) STAGES FOR VARYING ITS COOLING CAPACITY.	4. <u>FIRE ALAR</u> ** REFER TO ** F.A. CONTE SCOPE OF A. RELAYS RELAYS B. WIRING: /
	 HEATING: THE CONTROLLER WILL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE WILL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE WILL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE HEATING WILL BE ENABLED WHENEVER: OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.). AND THE SUPPLY AIR TEMPERATURE IS BELOW HEATING SETPOINT. AND THE COOLING (IF PRESENT) IS NOT ACTIVE. AND THE SUPPLY FAN STATUS IS ON. DUCT SMOKE DETECTOR / EMERGENCY SHUT-DOWN: 	C. RTU ₅ , SF SEQUENC D. SMOKE D • DO NO DIFFU • REMO DUCT • PROV • PROV OVER
	ALL SAFETIES REQUIRED MANUAL RESET TO RESTART RTU.	

BACNET COMM TO IVU

SCALE: N.T.S.

 (\mathbb{H}) \Box

BASIS OF DESIGN CARRIER

RE ALARM: WHEN A FIRE ALARM DEVICE WITHIN THE ZONE IS TRIGGERED, THE RTU IALL SHUT-DOWN AND ALL ASSOCIATE DAMPERS SHALL CLOSE. 10KE DUCT DETECTION: WHEN A SMOKE DUCT DETECTORS IS TRIGGERED; A SIGNAL ID ALARM SHALL BE SENT TO THE F/A SYSTEM SO THAT ALL ROOFTOP UNIT IS MMANDED TO SHUT-DOWN. ALL ASSOCIATED DAMPERS SHALL CLOSE. UNIT SHALL BE ROVIDED WITH A SMOKE DUCT DETECTOR AT THE SUPPLY DUCTWORK AND BE ED-IN TO F.A. SYSTEM.

ROVIDE REQUIRED RELAYS FOR INTERLOCKING WITH EXHAUST FAN AS PER SCHEDULE I DRAWING M-0.2.

ROVIDE REQUIRED RELAYS FOR INTERLOCKING WITH FIRE ALARM SYSTEM AND/OR ICT SMOKE DETECTOR. R / POWER EXHAUST MODE:

E INTEGRAL POWER EXHAUST FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO N & THE SUPPLY FAN RUN STATUS IS PRESENT, UNLESS SHUTDOWN ON SAFETIES. E EXHAUST AIR DAMPER SHALL BE OPENED PROM TO POWER EXHAUST COMMANDED V DURING OCCUPIED / ECONOMIZER MODE. ECONOMIZER CONTROL SHALL BE A CTORY CONTROL OPTION. THE SYSTEM SHALL GO INTO ECONOMIZER MODE WHENEVER E OUTDOOR DRY-BULB TEMPERATURE AS SENSED BY THE OUTDOOR AIR EMPERATURE SENSOR IS BELOW (58°F-ADJ.). WHENEVER THE OUTDOOR DRY-BULB MPERATURE IS ABOVE (60°F-ADJ.) THE POWER EXHAUST SHALL SHUTDOWN \$ ITSIDE AIR DAMPER SHALL GO TO ITS NORMAL/OCCUPIED MINIMUM POSITION.

<u>T FAN(S)</u>:

JST FAN (EF-1) SHALL BE INTERLOCKED WITH ITS CORRESPONDING ROOFTOP UNIT. N SHALL CONTINUOUSLY RUN EVERY TIME THE UNIT IS COMMAND TO RUN OR VICE ERSA WHEN IT IS DE-ENERGIZED.

T AC UNITS (SERVING CIO ROOM)

SPLIT UNIT SHALL RUN CONTINUOUSLY (AUTO-MODE) AND SHALL MAINTAIN A NG SET-POINT OF 74°F (ADJUSTABLE). THERMOSTAT/CONTROLLER SHALL BE CAPABLE TO:

l¢OFF

IPPORT SCHEDULE SETTINGS WITH SELECTABLE WEEKLY PATTERN OPTIONS. FETIES

ROVIDE A FLOAT-SWITCH AT UNIT'S CONDENSATE LINE. UPON AN DETECTION OF HIGH NDENSATE LEVEL, THE SPLIT DX UNIT SHALL SHUT DOWN.

_ARM COORDINATION & REQUIREMENTS

TO FIRE ALARM DRAWINGS FOR ADDITIONAL REQUIREMENTS. NTRACTOR SHALL COORDINATE WITH MECHANICAL AND CONTROLS CONTRACTORS OF WORK PRIOR TO BIDDING OR PROVIDING PROPOSAL - NOT ADDS ALLOWED. YS & CONTACTS: F.A. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED IS AND CONTACTS AS NEEDED TO ACCOMPLISH SEQUENCE OF OPERATIONS. A: ALL WIRING SHALL RUN IN CONDUIT. THIS IS A SPACE DIRECT AIR SYSTEM. SPLIT UNITS SHALL INTERLOCK WITH F.A. SYSTEM - REFER TO CONTROLS ENCE OF OPERATIONS. E DETECTORS:

O NOT LOCATE DETECTOR IN DIRECT AIR OR CLOSED THAN 3 FEET FROM SUPPLY AIR FFUSERS.

MOTE TEST SWITCH WITH STATUS/ALARM INDICATORS SHALL BE PROVIDED FOR ICT SMOKE DETECTORS. ROVIDE ADDRESSABLE DUCT SMOKE DETECTORS.

ROVIDE DUCT SMOKE DETECTORS ON THE SUPPLY AIR SIDE OF AIR HANDLING UNITS /ER 2,000 CFM AS REQUIRED BY NFPA AND MECH-FBC

CHITH REG. 10013 - AR ANCO 2673 SW 1² LD BEACH, (305) 205ä ESO NSULTING ENGINEERS 315 NW 98th Court, Unit 15 Doral, Florida 33172 Tel: (305) 418-9177 Fax: (305) 418-9178 www.esiconsult.com 0 DAVENP О. Н ທ BUILUIN 1 SOUTH DAVENE TRATES ERVICE SK **POSTAL** $\overline{}$ M3.0⁻

