# MECHANICAL LEGEND

TERMINAL UNIT WITH REHEAT COIL

AIR DEVICE IDENTIFIER

SUPPLY AIR VOLUME TERMINAL UNIT IDENTIFIER

 $\langle X \rangle$ 

AIR DEVICE TYPE

XX

CFM

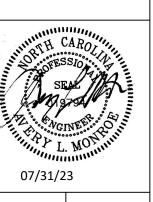
# GENERAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

	PIPING SYMBOLS	PIF	PING SYMBOLS		INOTE. THIS IS A STANDARD ADDRE	- v // ATTOM LIO	1. SOME ABBREVIATIONS MAY NOT APPEAR ON THE AC	COOM ANTIL	. CO DIGITATION.
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	A AAV	COMPRESSED AIR AUTOMATIC AIR VENT	FOT FOV	FUEL OIL TRANSFER FUEL OIL VENT	OED OS&Y	OPEN ENDED DUCT OUTSIDE STEM AND YOKE
CHS	CHILLED WATER SUPPLY CHILLED WATER RETURN	С———	PIPE DROP	ACV AD	AUTOMATIC CONTROL VALVE ACCESS DOOR, AREA DRAIN	FPM FPS	FEET PER MINUTE FEET PER SECOND	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
——————————————————————————————————————		<del></del>	PIPE RISE	AF AFF	ANTIFREEZE ABOVE FINISHED FLOOR	FS FT	FLOW SWITCH FOOT, FEET	PA PC	PLANT AIR PUMPED CONDENSATE
HR	HEATING WATER RETURN	_		AR	ARGON GAS	FWR	FEED WATER RETURN	PCR	PUMPED CONDENSATE RECIRCULATION
——HS——	HEATING WATER SUPPLY -		PIPE CAP	ATC	AUTOMATIC TEMPERATURE CONTROL	FWS	FEED WATER SUPPLY	PCHR PCHS	PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY
			BRANCH TAKE OFF	BAS	BUILDING AUTOMATION SYSTEM	G	NATURAL GAS	PCWR	PROCESS COOLING WATER RETURN
	EQUIPMENT DESIGNATIONS  -	<del></del>	PIPE DROP TEE	BBD BCWR	BOILER BLOWDOWN BEARING COOLING WATER RETURN	GHR GHS	GLYCOL HEATING RETURN GLYCOL HEATING SUPPLY	PCWS PD	PROCESS COOLING WATER SUPPLY PRESSURE DROP, PUMP DISCHARGE
SYMBOL	DESCRIPTION	_		BCWS	BEARING COOLING WATER SUPPLY	GPH	GALLONS PER HOUR	PGR	PROCESS GLYCOL WATER RETURN
<u>AHU-X</u>	AIR HANDLING UNIT DESIGNATION	<del></del>	PIPE RISE TEE	BDD BFP	BACKDRAFT DAMPER BACKFLOW PREVENTER	GPM GR	GALLONS PER MINUTE AUTOMOTIVE LUBRICATION PIPING	PGS PH	PROCESS GLYCOL WATER SUPPLY PHASE
EF-X		<b>─</b>	SHUTOFF VALVE	ВНР	BRAKE HORSEPOWER			PHR	PRIMARY HEATING RETURN
<u>OAL-X</u>	OUTSIDE AIR LOUVER DESIGNATION –		TWO WAY CONTROL VALVE	BMS BO	BUILDING MANAGEMENT SYSTEM BLOW OFF	H HB	HIGH HOSE BIBB	PHS PIV	PRIMARY HEATING SUPPLY POST INDICATING VALVE
	DUCTWORK SYMBOLS			BTU	BRITISH THERMAL UNIT	HED	HOSE END DRAIN VALVE	PPH	POUNDS PER HOUR
				BTUH	BRITISH THERMAL UNIT PER HOUR	HP HPR	HORSEPOWER HIGH PRESSURE STEAM RETURN	PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH
SYMBOL	DESCRIPTION	GENERAI	L SYMBOLS	°C	DEGREE(S) CELSIUS	HPS	HIGH PRESSURE STEAM SUPPLY	PSIG PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE
$\bigcirc$	THERMOSTAT			CA CBD	CONTROL AIR CONTINUOUS BLOWDOWN	HR HRR	HEATING WATER RETURN HEAT RECOVERY RETURN	RA	RETURN AIR, RELIEF AIR
4	AIR FLOW		LINETYPE SYMBOLS	CC	CAMPUS CONDENSATE	HRS	HEAT RECOVERY SUPPLY	RD	REFRIGERANT DISCHARGE
·		DECIONATION		CCMS CD	CENTRAL CONTROL AND MONITORING SYSTEM CONDENSATE DRAIN	HS HT	HEATING WATER SUPPLY HEIGHT	RH RHR	RELATIVE HUMIDITY REHEAT WATER RETURN
4 €FM	TRANSFER AIR FLOW (INDICATE CFM)	DESIGNATION	DESCRIPTION	CF	CHEMICAL FEED	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	RHS	REHEAT WATER SUPPLY
$\boxtimes$	SUPPLY AIR DIFFUSER		DEMOLITION WORK	CFM CHR	CUBIC FEET PER MINUTE CHILLED WATER RETURN	HTHS HW	HIGH TEMPERATURE HEATING WATER SUPPLY HOT WATER	RL ROR	REFRIGERANT LIQUID REVERSE OSMOSIS WATER RETURN
	-		EXISTING WORK NEW WORK	CHS	CHILLED WATER SUPPLY	HWR	HOT WATER RECIRCULATION	ROS	REVERSE OSMOSIS WATER SUPPLY
	RETURN AIR GRILLE			CO CO2	CLEANOUT CARBON DIOXIDE	HZ	HERTZ	RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION
	EXHAUST AIR GRILLE		REFERENCE SYMBOLS	CS	CLEAN STEAM	IA	INSTRUMENT AIR	RV	RELIEF VENT, REFRIGERANT VENT
	FIRE DAMPER	BEC:5:::		CW CWR	COLD WATER, CITY WATER CONDENSER WATER RETURN	ICW IHW	INDUSTRIAL COLD WATER INDUSTRIAL HOT WATER	RX	REMOVE EXISTING
— <u>—</u> ——————————————————————————————————		DESIGNATION	DESCRIPTION	CWS	CONDENSER WATER RETORN  CONDENSER WATER SUPPLY	IHR	INDUSTRIAL HOT WATER RECIRCULATION	SA	SUPPLY AIR
VD VD	VOLUME DAMPER		FLOOR PLAN NUMBER	D	DEEP, DRAIN WATER	IN INV EL	INCH, INCHES INVERT ELEVATION	SAN SCHR	SANITARY, SOIL, WASTE SECONDARY CHILLED WATER RETURN
<u></u>		XX	PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER	DB	DECIBEL, DRY BULB			SCHS	SECONDARY CHILLED WATER SUPPLY
	SMOKE DAMPER	XX	DETAIL = NUMBER	DDC DHR	DIRECT DIGITAL CONTROL DISTRIBUTION HEATING WATER RETURN	KW	KILOWATTS	SD SF	STORM DRAIN, SMOKE DETECTOR SQUARE FOOT
	SMOKE DETECTOR		SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN	DHS	DISTRIBUTION HEATING WATER SUPPLY	L	LONG, LENGTH	SHR	SECONDARY HEATING WATER RETURN
	FLEXIBLE CONNECTION		SHEET NUMBER WHERE PARTIAL PLAN,	DIR DIS	DEIONIZED WATER RETURN DEIONIZED WATER SUPPLY	LA LAT	LABORATORY AIR LEAVING AIR TEMPERATURE	SHS SL	SECONDARY HEATING WATER SUPPLY SOUND LINING
	HODIZONITAL ACCESS DOOD		ELEVATION OR DETAIL IS TAKEN FROM	DL	DOOR LOUVER	LBS	POUNDS	SP	STATIC PRESSURE
	HORIZONTAL ACCESS DOOR			DN DSP	DOWN DRY SPRINKLER PIPE	LBS/HR LN	POUNDS PER HOUR LIQUID NITROGEN	SPR SS	SPRINKLER LINE STAINLESS STEEL
	VERTICAL ACCESS DOOR		NORTH ARROW	DTR DTS	DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY	LP LPG	LIQUID PROPANE LIQUID PETROLEUM GAS	SQ FT SW	SQUARE FOOT SOFT WATER
	ELBOW WITH DOUBLE THICKNESS TURNING VANES	s ••	POINT OF CONNECTION TO EXISTING	DW	DISTILLED WATER	LPR	LOW PRESSURE STEAM RETURN		
<u> </u>	RECTANGULAR BRANCH TAKE-OFF		POINT OF DISCONNECTION	EA	EXHAUST AIR	LPS LV	LOW PRESSURE STEAM SUPPLY LABORATORY VENT, LABORATORY VACUUM	∆T TS	TEMPERATURE DIFFERENCE TAMPER SWITCH
				EAT	ENTERING AIR TEMPERATURE	LW	LABORATORY WASTE	TSP	TOTAL STATIC PRESSURE
	BELL MOUTH BRANCH TAKE-OFF			EJ EMS	EXPANSION JOINT ENERGY MANAGEMENT SYSTEM	LWT	LEAVING WATER TEMPERATURE	TWR TWS	TEMPERED WATER RETURN TEMPERED WATER SUPPLY
	ROUND BRANCH TAKE-OFF			ESP	EXTERNAL STATIC PRESSURE	MA	MEDICAL AIR	TW	TREATED WATER
$\bigcirc$	ROUND DUCT DROP OFF BOTTOM			ETC EVAC	ETCETERA GAS EVACUATION	MAV MBH	MANUAL AIR VENT THOUSAND BRITISH THERMAL UNITS PER HOUR	TYP	TYPICAL
	DUCT TRANSITION			EWT EX	ENTERING WATER TEMPERATURE EXISTING	MCC MO	MOTOR CONTROL CENTER MOTOR OIL PIPING	UCD UL	UNDERCUT DOOR UNDERWRITERS LABORATORIES
				Ľ۸		MOD	MOTOR OPERATED DAMPER	JL	
	SQUARE TO ROUND TRANSITION			°F F	DEGREE(S) FAHRENHEIT FIRE LINE	MPR MPS	MEDIUM PRESSURE STEAM RETURN MEDIUM PRESSURE STEAM SUPPLY	V VD	VACUUM, VOLTS VOLUME DAMPER
UP/DN	DUCTWORK CHANGE IN ELEVATION (UP OR DOWN)	)		FC FD	FIRE LINE FLEXIBLE CONNECTION FIRE DAMPER, FOUNDATION DRAIN	MV	MEDICAL VACUUM	VFD VPD	VARIABLE FREQUENCY DRIVE VACUUM PUMP DISCHARGE
	SUPPLY/OUTSIDE AIR DUCT RISER			FDV FF	FIRE DEPARTMENT VALVE FINISHED FLOOR	N NA	NITROGEN NOT APPLICABLE	VSD VTR	VACOUM FOR BISCHARGE  VARIABLE SPEED DRIVE  VENT THROUGH ROOF
	RETURN AIR DUCT RISER			FFE	FINISHED FLOOR ELEVATION	NC	NOISE CRITERIA, NORMALLY CLOSED		
	EXHAUST/RELIEF AIR DUCT RISER			FIN/FT FIN/INCH	FINS PER FEET FINS PER INCH	NFPA NO	NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN, NITROUS OXIDE	W WB	WATTS, WIDE WATER COLUMN
0	ROUND DUCT RISER (SMALLER THAN 12")			FM FMF	FLOWMETER FLOWMETER FITTING	NPSH	NET POSITIVE SUCTION HEAD	WC WG	WATER COLUMN WATER GAUGE
$\bigcirc$	ROUND DUCT RISER (12" AND LARGER)			FOF FOO	FUEL OIL FILL FUEL OIL OVERFLOW	O OA	OXYGEN OUTSIDE AIR	WH WWF	WALL HYDRANT WELDED WIRE FABRIC
				FOR	FUEL OIL RETURN	OD OD	OVERFLOW DRAIN	WWM	WELDED WIRE FABRIC WELDED WIRE MESH
	FLEXIBLE DUCT			FOS	FUEL OIL SUPPLY				
MAINTANENCE ACCESS AREA	TERMINAL UNIT WITH REHEAT COIL								



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ABBREVIATIONS Part AND Improvements SYMBOLS Term Airline

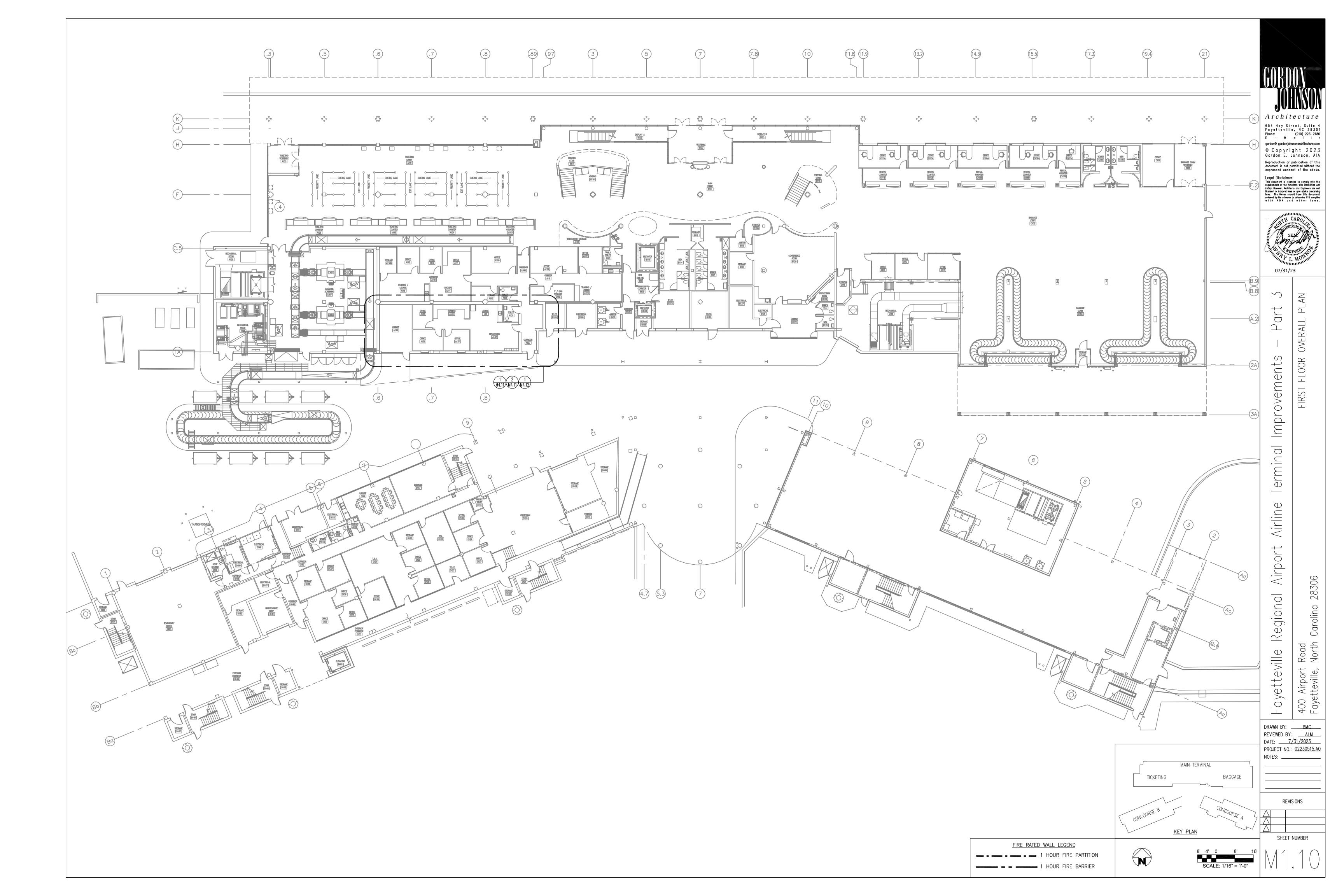
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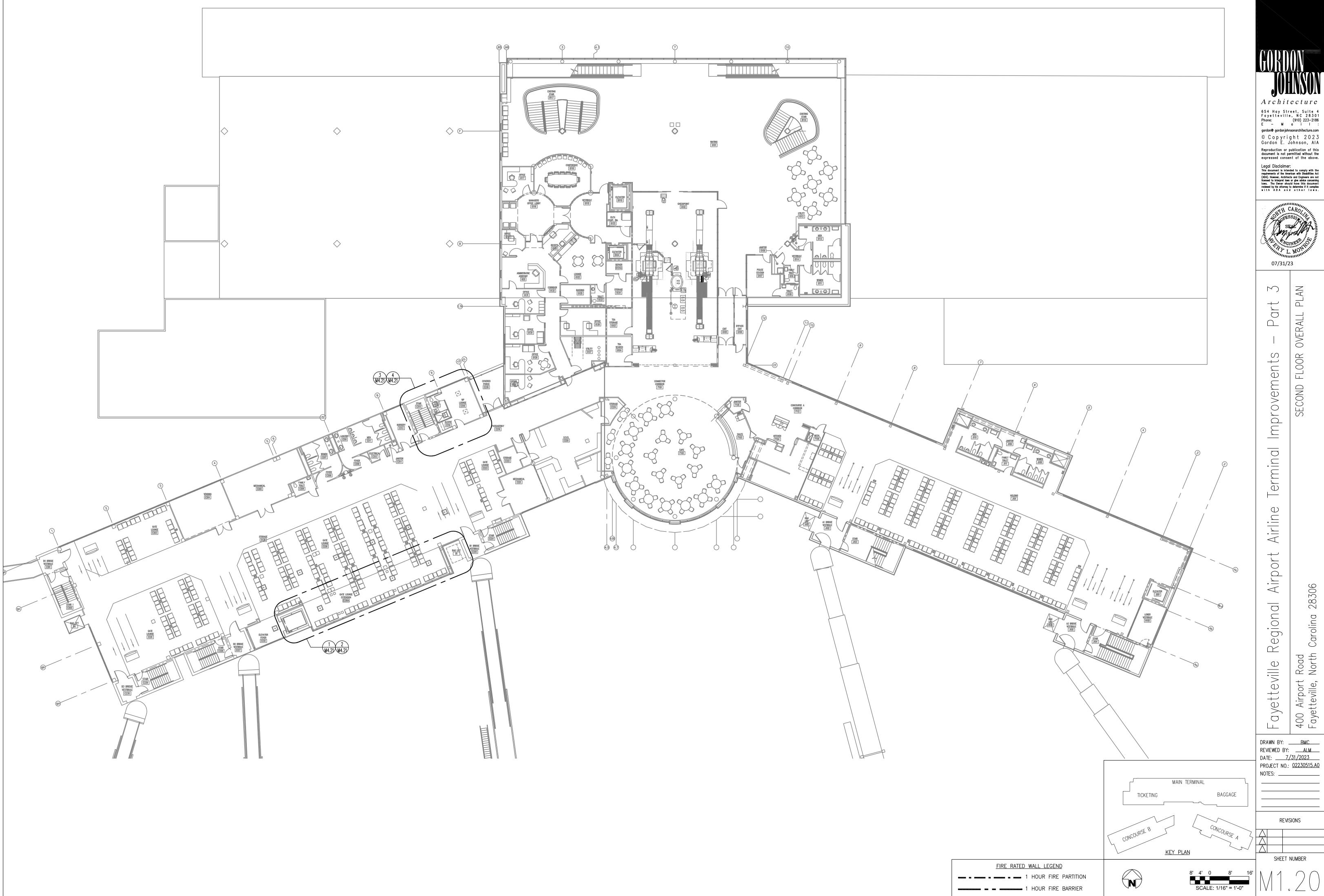
Airpor Regional Road North Fayetteville 400 Airport Fayetteville,

DRAWN BY: \_\_\_\_\_BMC\_\_\_ 

REVISIONS

SHEET NUMBER





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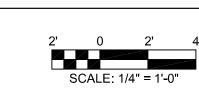
Gordon E. Johnson, AIA

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REVISIONS

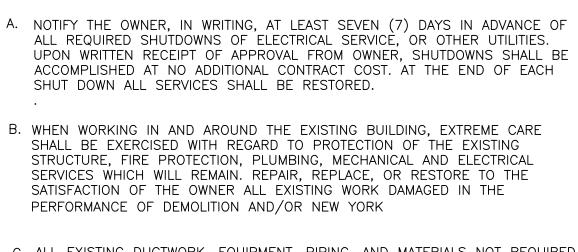
SHEET NUMBER



BAGGAGE

MAIN TERMINAL

<u>KEY PLAN</u>

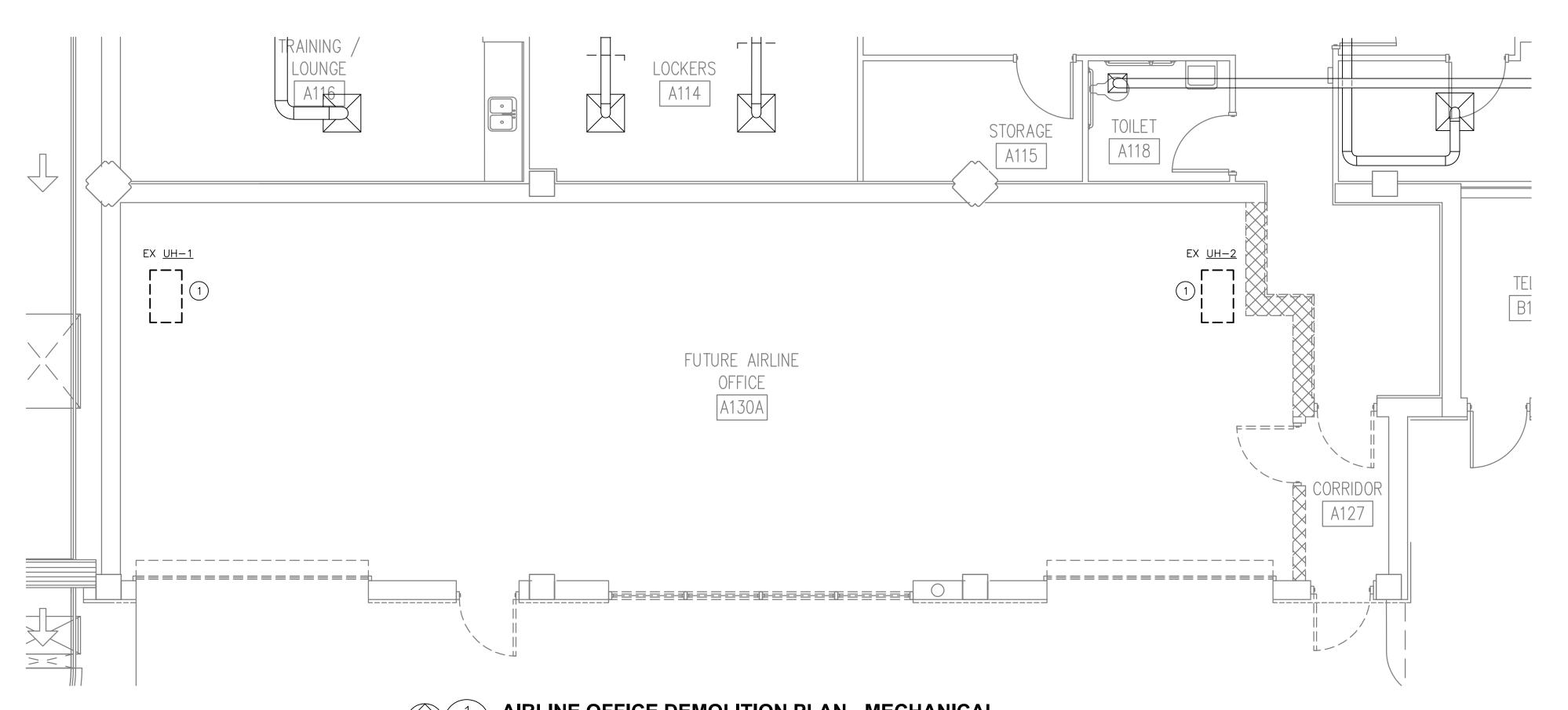


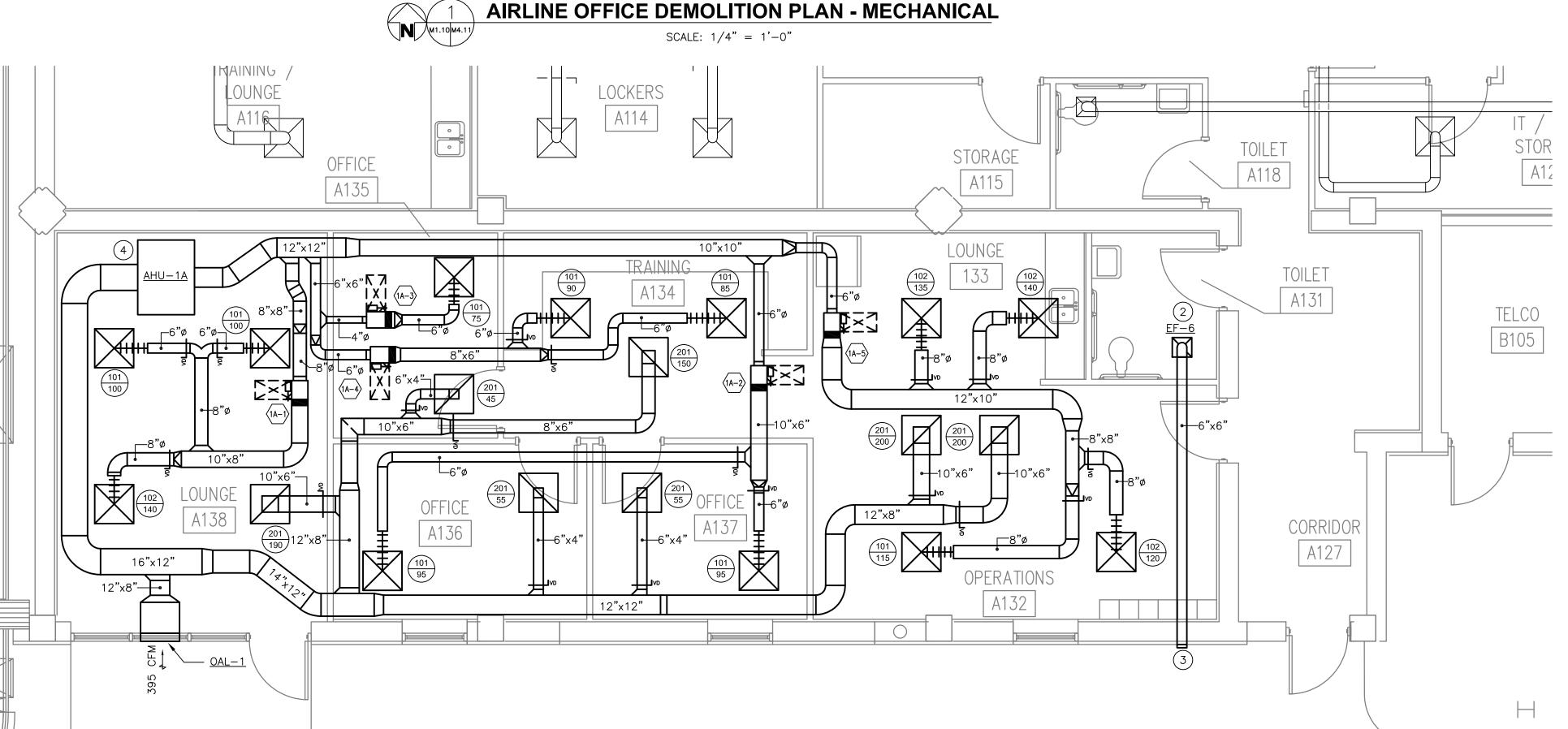
- C. ALL EXISTING DUCTWORK, EQUIPMENT, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
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- G. EXISTING DUCTWORK & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..
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- J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

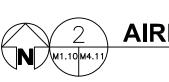
# DRAWING NOTES:

GENERAL NOTES:

- 1 REMOVE EXISTING ELECTRIC UNIT HEATER.
- $\bigcirc$  PROVIDE NEW EXHAUST FAN, <u>EF-6</u>. FAN SHALL OPERATE THROUGH AN OCCUPANCY SENSOR. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- TERMINATE EXHAUST DUCTWORK WITH A 45 DEGREE ELBOW DOWN OUTSIDE EXTERIOR WALL. PROVIDE BIRD SCREEN AT OPENING.
- (4) NEW AHU-1A SHALL BE INSTALLED ABOVE THE CEILING.







**AIRLINE OFFICE NEW WORK PLAN - DUCTWORK** 

SCALE: 1/4" = 1'-0"

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION 1 HOUR FIRE BARRIER

AIRLINE OFFICE NEW WORK PLAN - HVAC PIPING SCALE: 1/4" = 1'-0"

### GENERAL NOTES:

- A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.
- B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK
- C. ALL EXISTING DUCTWORK, EQUIPMENT, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
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- F. WHEN EXISTING MECHANICAL WORK IS REMOVED, ALL DUCTWORK, PIPING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.
- G. EXISTING DUCTWORK & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..
- H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
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# DRAWING NOTES:

FIRE RATED WALL LEGEND

1 HOUR FIRE BARRIER

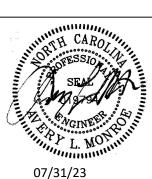
1 HOUR FIRE PARTITION

(1) ROUTE 3/4" CONDENSATE DRAIN PIPING FOR AHU-1A TO THE EXTERIOR OF THE BUILDING. PROVIDE CONCRETE SPLASH BLOCK.



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400 Airport Fayetteville,  $\Box$ DRAWN BY: \_\_\_\_\_BMC\_\_\_ REVIEWED BY: \_\_ALM\_\_ DATE: <u>7/31/2023</u> PROJECT NO.: 02230515.A0 NOTES: \_\_\_\_\_

REVISIONS SHEET NUMBER

<u>KEY PLAN</u>

MAIN TERMINAL

BAGGAGE

240

16"x16"

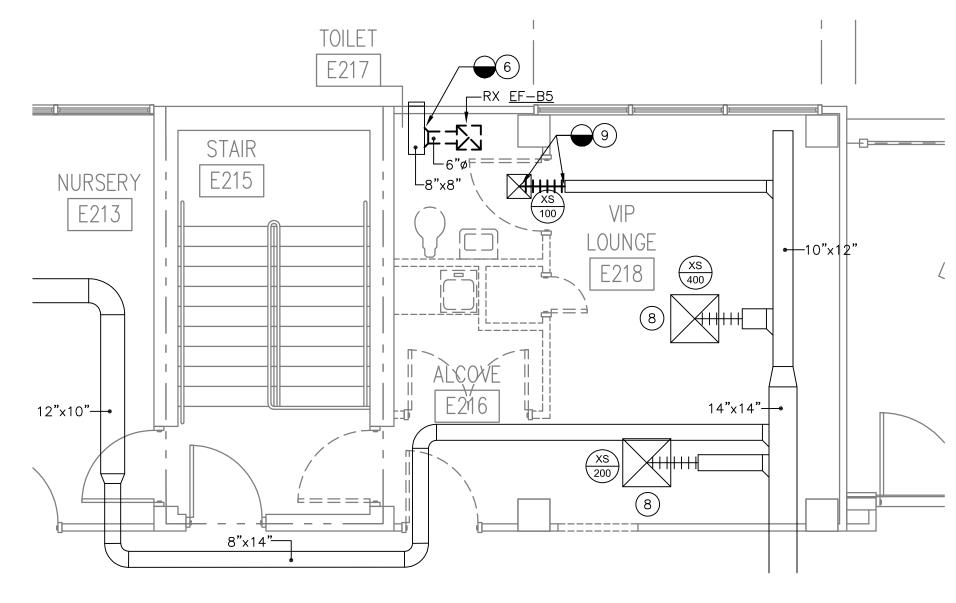
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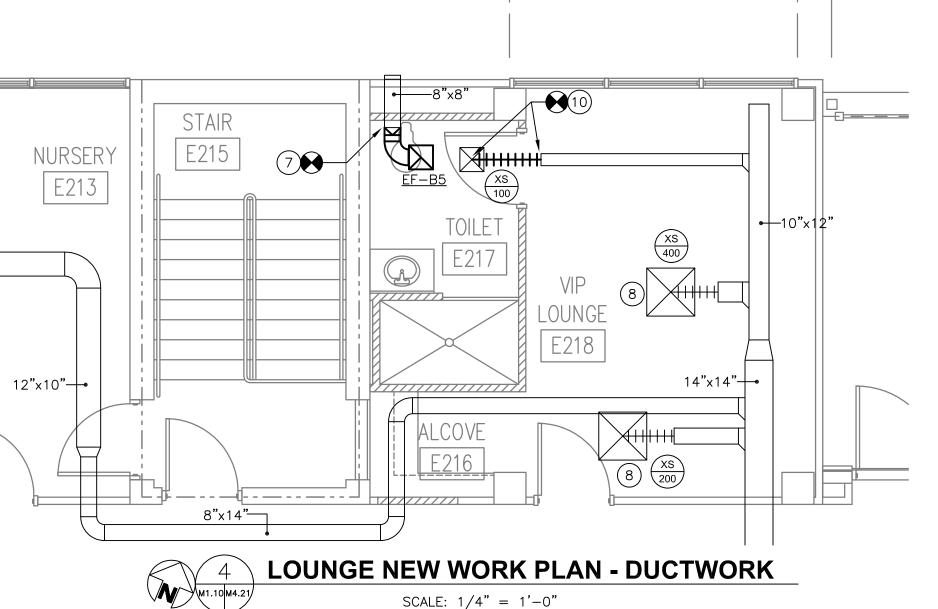
(XS)

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- DRAWING NOTES:
- $(\ 1\ )$ REMOVE CONTINUOUS LINEAR SLOT DIFFUSER. PATCH OPENING IN THE CEILING TO MATCH EXISITNG
- REMOVE CONTINUOUS SLOT DIFFUSER BACK TO THIS POINT. CAP OPEN END OF SUPPLY PLENUM ABOVE THE CEILING.
- (3) EXISTING CONTINUOUS SLOT DIFFUSER TO REMAIN.
- (4) DISCONNECT LINEAR SLOT DIFFUSER SUPPLY DUCTWORK FROM THE MAIN AND CAP.
- (5) CONNECT NEW SUPPLY DUCTWORK TO EXISTING MAIN.
- (6) REMOVE EXISTING EF-B5. MAINTAIN EXISTING 8"x8" DUCTWORK.
- 7 PROVIDE NEW EXHAUST FAN <u>EF-B5</u>. CONNECT NEW 8" $\phi$  DUCTWORK TO THE EXISTING 8"x8" DUCTWORK. EXTEND DUCTWORK AS NEEDED TO MAKE FINAL CONNECTION. NEW FAN SHALL OPERATE THROUGH AN OCCUPANCY SENSOR. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- (8) EXISTING SUPPLY DIFFUSER TO REMAIN.
- (9)disconnect existing supply diffuser and relocate to align with the new ceiling grid in toilet e217.
- (10) RELOCATE EXISTING SUPPLY DIFFUSER TO ALIGN WITH THE NEW CEILING GRID IN TOILET E217. EXTEND FLEX DUCTWORK AS NEEDED. DO NOT EXCEED 5'-0" OF FLEX DUCTWORK. REBALANCE AIRFLOW BACK TO THE EXISTING VALUE SHOWN.
- (11) BLANK OFF NEW LINEAR SLOT DIFFUSER. PLENUM BOX IS NO REQUIRED.







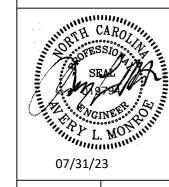
FIRE RATED WALL LEGEND

MAIN TERMINAL BAGGAGE TICKETING 

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Airlin Airpor Regional Road North Fayetteville

REVIEWED BY: \_\_ALM\_\_ DATE: <u>7/31/2023</u> PROJECT NO.: 02230515.A0

REVISIONS

SHEET NUMBER

<u>L</u>=====

SCALE: 1/4" = 1'-0"

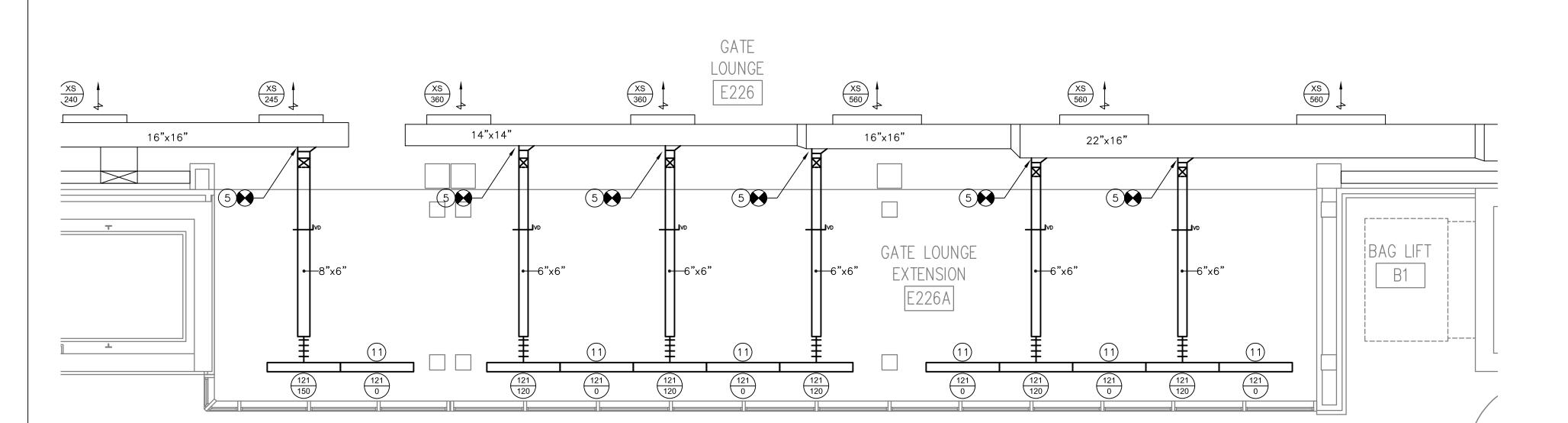
NORMAL THICKNESS OF FINISHED MATERIAL.

GATE LOUNGE E226 XS 560 XS 560 16"x16" 22"x16" =====

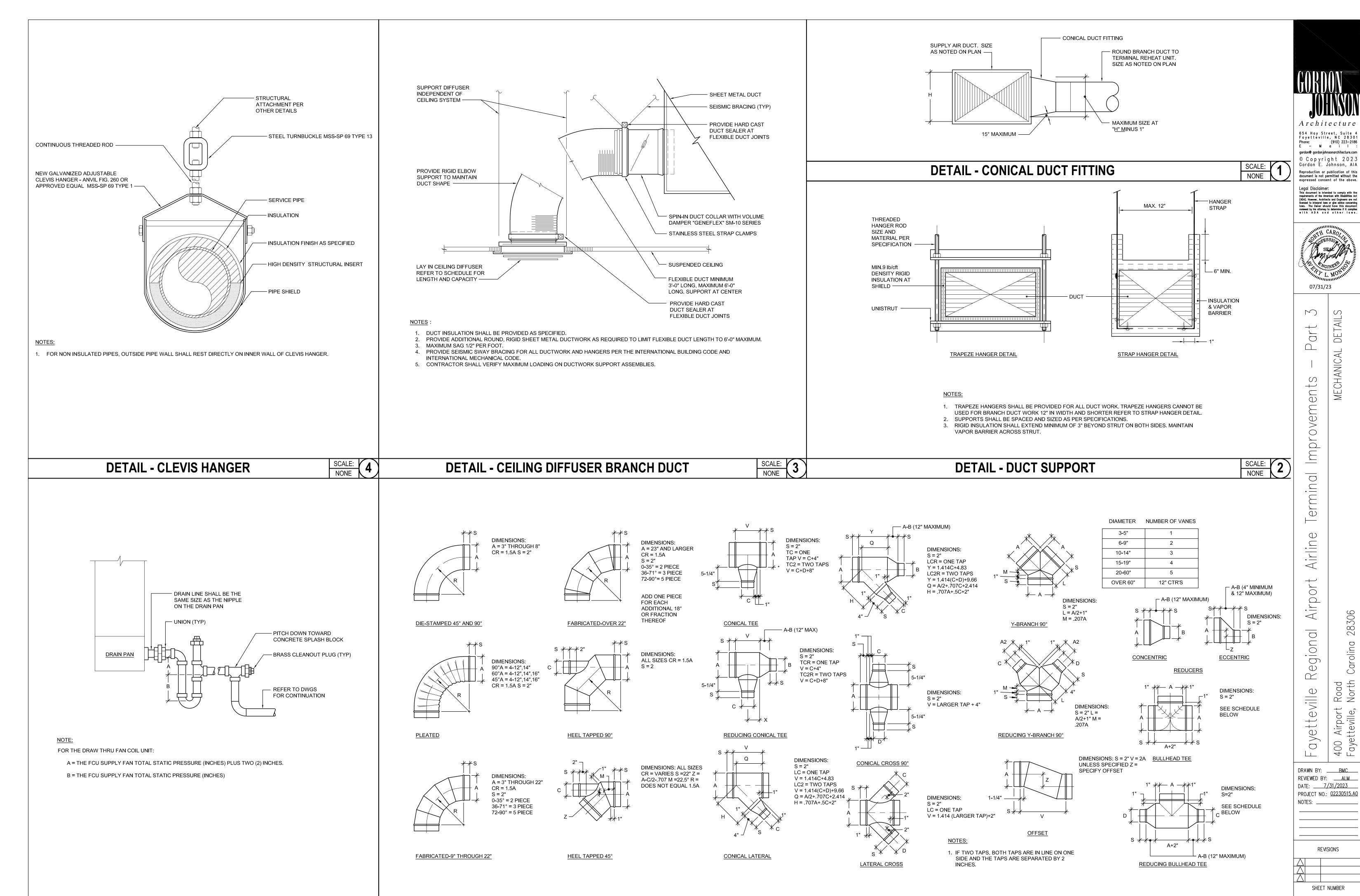
14"×14"

**GATE EXTENSION DEMOLITION PLAN - DUCTWORK** 

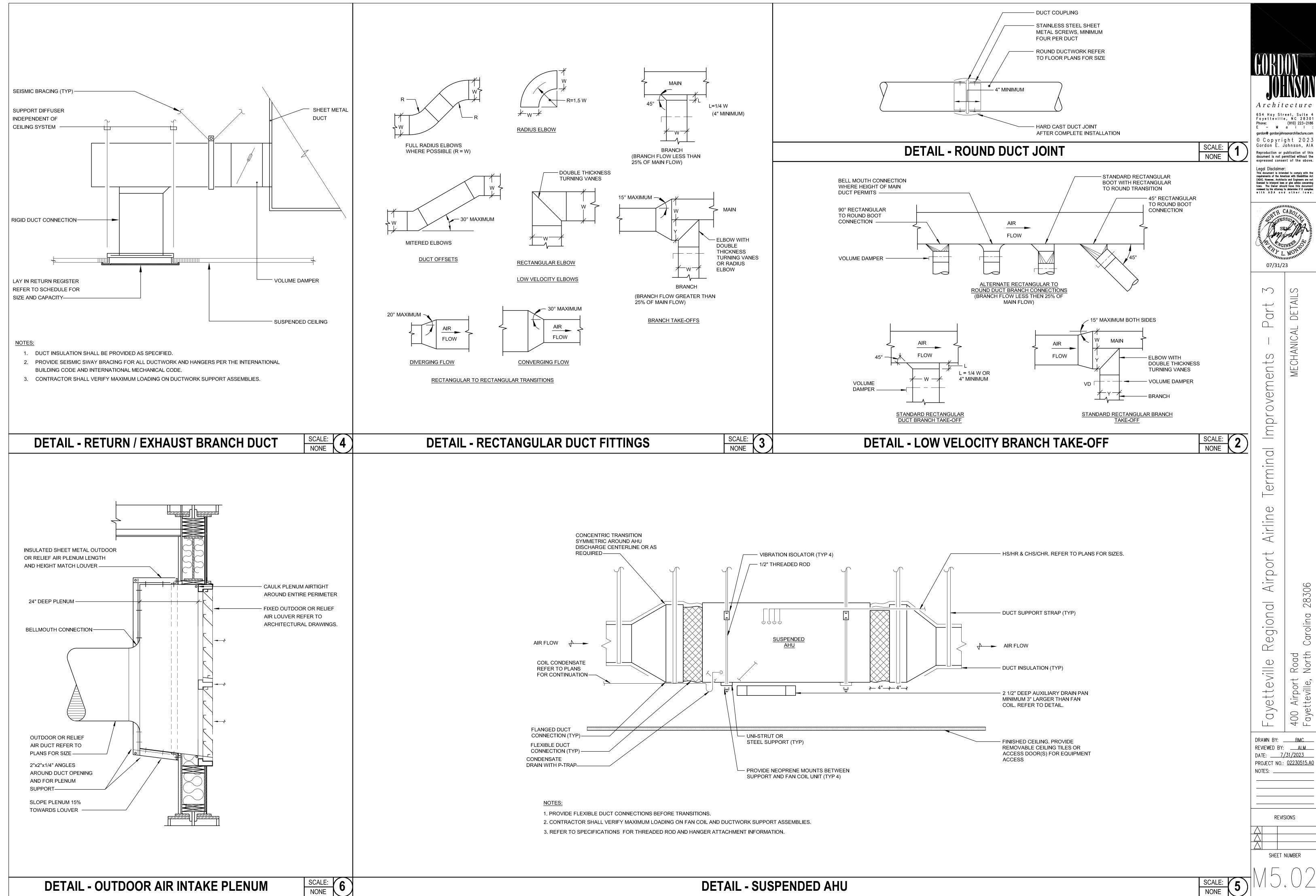
SCALE: 1/4" = 1'-0"

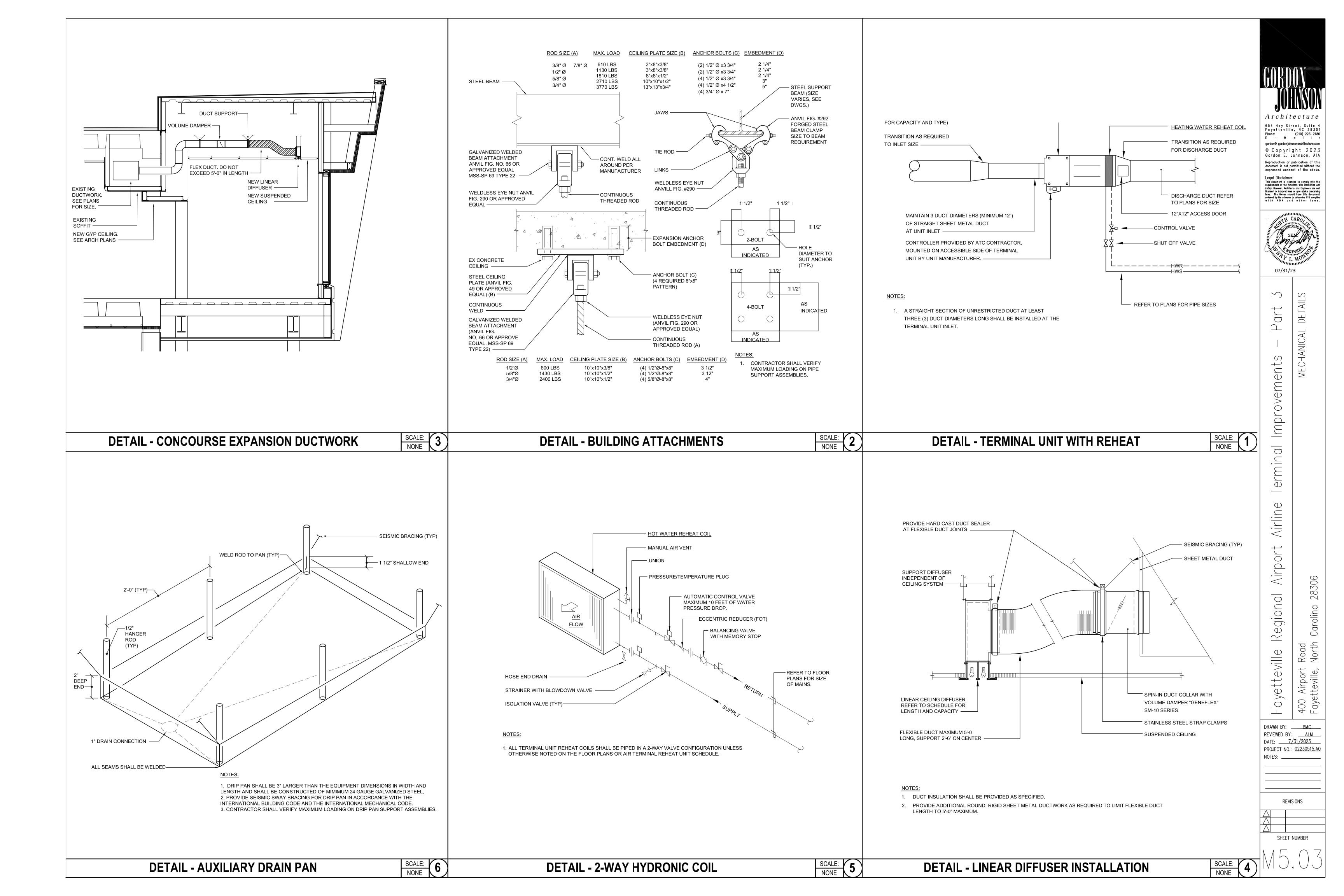


**GATE EXTENSION NEW WORK PLAN - DUCTWORK** 



SCALE: 6





### RTU-1 SEQUENCE OF OPERATION

# <u>GENERAL:</u>

- A. SEE PLANS FOR LOCATIONS OF ALL ROOM THERMOSTATS, DAMPERS, VALVES, AND EQUIPMENT; WHERE SUCH DEVICES ARE NOT INDICATED, BUT ARE REQUIRED BY THE SEQUENCES, THEY SHALL BE PROVIDED AND LOCATED IN THE FIELD BY THE ENGINEER.
- B. OUTSIDE AIR DAMPER SHALL BE NORMALLY CLOSED AND SHALL BE OPENED WHEN THE SUPPLY FAN IS ENERGIZED.
- C. ALL TEMPERATURE, HUMIDITY, PRESSURE, AND TIME SET POINTS SHALL BE FULLY ADJUSTABLE FROM THE BMS.

#### AIR HANDLING UNIT CONTROL:

- A. THE BMS SHALL DETERMINE THE "OCCUPIED, UNOCCUPIED AND WARMUP" MODES OF OPERATION. WHEN THE UNIT IS DE-ENERGIZED, THE SUPPLY FAN SHALL BE OFF. THE OUTSIDE AIR DAMPER  $\underline{D-1}$ , AND RETURN AIR DAMPER  $\underline{D-2}$  SHALL CLOSE.
- B. SUPPLY FAN CONTROL:

WHEN THE UNIT IS COMMANDED ON EITHER LOCALLY OR VIA THE BMS, THE OA DAMPER,  $\underline{D-1}$ , AND RA DAMPER  $\underline{\mathsf{D-2}}$  SHALL OPEN. ONCE  $\underline{\mathsf{D-1}}$  IS PROVEN OPEN BY THE RESPECTIVE END SWITCH, THE SUPPLY FAN SHALL START AT LOW SPEED AND SLOWLY RAMP UP TO SCHEDULED AIRFLOW

OAT (DB)

#### D. OA SYSTEM VENTILATION OPTIMIZATION

- 1. THE AHU OUTDOOR-AIR DAMPER SHALL BE CONTROLLED TO DELIVER REQUIRED OUTDOOR AIRFLOW AT ALL LOAD CONDITIONS. THE OUTDOOR AIRFLOW SETPOINT SHALL BE DETERMINED PER THE REQUIRED AIRFLOW SHOWN ON THE AIR HANDLING UNIT SCHEDULE AND SET VIA THE OUTDOOR AIR
- 2. WHEN THE SYSTEM(S) ARE IN OCCUPIED MODE THE OA SYSTEM VENTILATION OPTIMIZATION SEQUENCE SHALL BE INCORPORATED.
- 3. PRIOR TO FINAL SYSTEM ACCEPTANCE, A CONTRACTOR SHALL PROVIDE A TREND LOG OF ACTUAL SYSTEM OPERATION TO THE ENGINEER AND OWNER. OPERATING CONDITIONS TO BE LOGGED INCLUDE: HIGHEST ZONE OUTDOOR-AIR FRACTION, TOTAL SYSTEM PRIMARY AIRFLOW, CALCULATED OUTDOOR AIRFLOW SETPOINT FOR THE SYSTEM, AND THE ACTUAL MEASURED OUTDOOR AIRFLOW. THESE CONDITIONS MUST BE LOGGED AT 15-MINUTE INTERVALS OVER A TYPICAL 48-HOUR PERIOD.

### E. UNOCCUPIED MODE:

1. IN UNOCCUPIED MODE THE OUTSIDE AIR DAMPER, D-1, AND RETURN AIR DAMPER, D-2, SHALL BE FULLY CLOSED. SUPPLY FAN SHALL BE OFF. IF ANY ZONE CALLS FOR HEATING OR COOLING BASED ON THEIR UNOCCUPIED SPACE TEMPERATURE SETPOINT OF 85°F (ADJ) COOLING MODE / 60°F (ADJ) IN HEATING MODE, THE SUPPLY FAN SHALL START UNDER ITS NORMAL SEQUENCE. OUTSIDE AIR DAMPER D-1 SHALL REMAIN CLOSED. CHILLED WATER COOLING SYSTEM, AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF  $55^{\circ}$ F (ADJ) AS SENSED BY  $\overline{11}-3$ . ONCE SPACE TEMPERATURES HAVE BEEN SATISFIED DAMPERS, CONTROL VALVES AND FANS SHALL RETURN TO THEIR RESPECTIVE POSITIONS AND FAN STATUS OFF.

### F. WARMUP MODE:

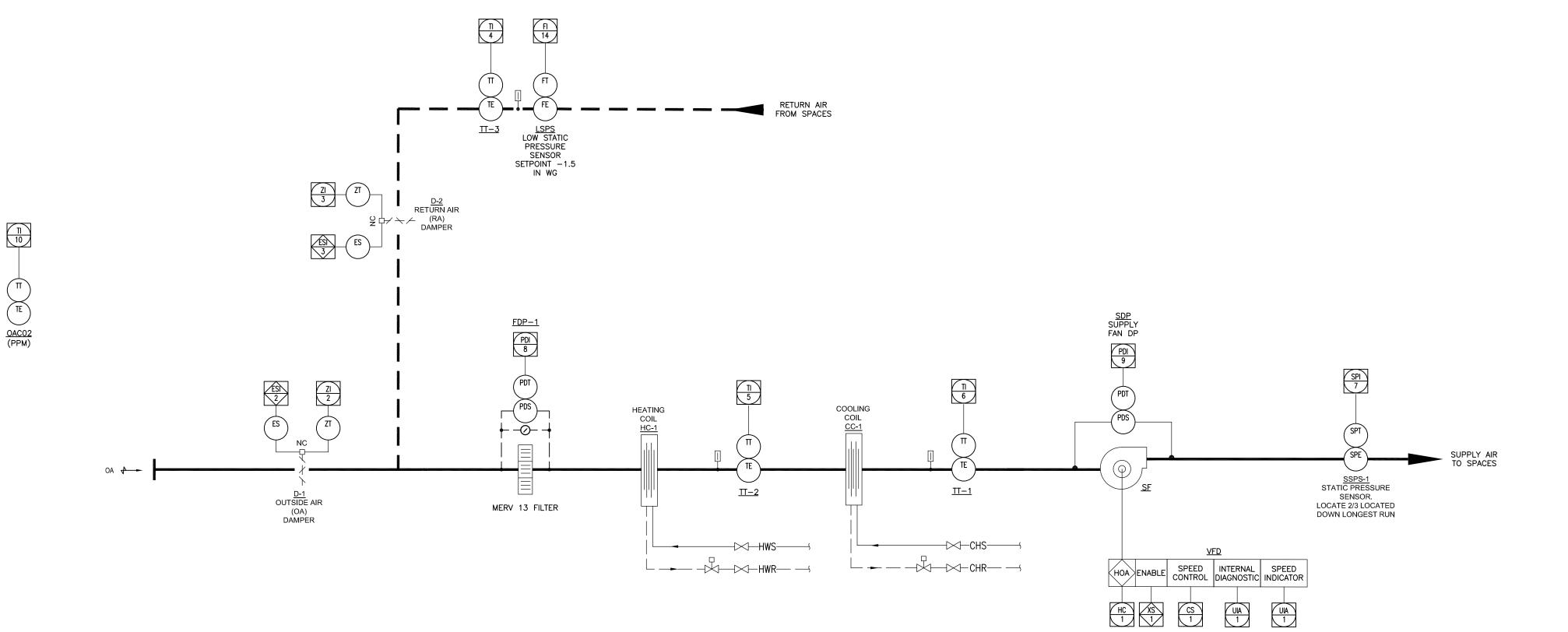
- 1. 60 MINUTES (ADJ) PRIOR TO CHANGE OVER FROM UNOCCUPIED MODE TO OCCUPIED MODE THE SUPPLY FAN SHALL START UNDER ITS RESPECTIVE SEQUENCE. CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY  $\underline{\text{TT}-3}$ . OUTSIDE AIR DAMPER  $\underline{\text{D}-1}$  SHALL REMAIN CLOSED. DEHUMIDIFICATION MODE SHALL BE INOPERATIVE. ONCE RETURN AIR TEMPERATURE AS SENSED BY TT-4 REACHES 70°F (HEATING MODE) OR 74°F (COOLING MODE) THE UNIT SHALL TRANSFER TO OCCUPIED MODE OPERATION.
- G. OCCUPIED MODE:
- 1. IN OCCUPIED MODE DAMPERS  $\underline{\mathsf{D}} = 1$  &  $\underline{\mathsf{D}} = 2$  SHALL OPEN AND SUPPLY FAN SHALL OPERATE PER THEIR FAN CONTROL SEQUENCES. OUTSIDE AIR DAMPER  $\underline{\mathsf{D}}-1$  SHALL OPEN TO OBTAIN THE CALCULATED OA FLOW RATE. OUTSIDE AIR DAMPER  $\underline{\mathsf{D}}-1$  SHALL MODULATE OPEN PER THE ECONOMIZER CONTROL SEQUENCE. CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY  $\overline{11}-3$ . DEHUMIDIFICATION SHALL BE OPERATIVE.

# J. SAFETIES:

- THE FOLLOWING SAFETIES SHALL DE-ENERGIZE THE SUPPLY FAN, CLOSE DAMPERS TO OUTSIDE AIR AND RELIEF AIR, ACTIVATE CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM, AND GENERATE AN ALARM THE BMS SYSTEM:
- a. DISCHARGE HIGH STATIC PRESSURE SWITCH @ 4" W.C. (ADJ). b. FAN FAILURE.
- ALL SAFETIES REQUIRE MANUAL RESET FROM THE BMS.

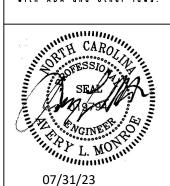
## K. ADDITIONAL ALARMS:

1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR FILTER LOADING AND GENERATE AN ALARM UPON ACTIVATION.





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Fayetteville 400 Airport Fayetteville, DRAWN BY: \_\_\_\_BMC REVIEWED BY: ALM

DATE: 7/31/2023

PROJECT NO.: 02230515.A0

REVISIONS

NOTES: \_\_\_\_\_

SHEET NUMBER

			AIR HANDLING	UNIT SCHEDULE	
DESIGNATION	SERVICE	FAN SECTION  MIN. ESP MOTOR EAT °F  OA INCH CFM H <sub>2</sub> O NO. HP DB WB	COOLING SECTION  LAT 'F  TOTAL SENS GPM @ MAXIMUM MIN TOTAL MAXIMUM A MAXIMUM MIN TOTAL MAXIMUM MIN TOTAL MAXIMUM A MIN TOTAL	HEATING SECTION  MIN EAT LAT @180°F @30°F H2O PD AIR PD FACE FACE VEL ROWS  F EWT AT FT H2O IN H2O AREA (SF) FPM ROWS	ELECTRICAL  APPROX WEIGHT (LBS)  REMARKS
AHU-1A	AIRLINE OFFICES	1,290   395   1.20   1   1.5   81.6   67.14	52.77 51.69 57 39 10.0 8.0 — 490	4 40 60 28 1.85 2.0 0.1 - 490 1	480/3/60   2.5   3.13   15.0   221.9   1, 2, 3, 4, 5, 6

- 1. PROVIDE FIELD MOUNTED VFD W/DISCONNECT & BYPASS W/BACNET INTERFACE.
- 2. SEE SPECIFICATION 237313 FOR EQUIVALENT MANUFACTURERS.
- 3. SUPPORT AHU FROM STRUCTURE ABOVE
- 4. PROVIDE 2" PLEATED MERV 13 FILTER
- 5. BASIS OF DESIGN: TRANE BCHE054
- 6. PROVIDE OVERFLOW DRAIN PAN THAT DISABLES THE UNIT AND SENDS A SIGNAL TO THE BAS WHEN WATER IS DETECTED.

	FAN SCHEDULE													
DESIGNATION	SERVICE	CFM	SP INCH H₂O	APPROX RPM	BHP	HP (MOTOR SIZE)	DRIVE	ELE( V/PH/Hz	CTRIC <i>A</i>	AL MCA	MOP	APPROX WEIGHT (LBS)	BASIS OF DESIGN (GREENHECK)	REMARKS
EF-6	TOILET A131	75	0.5	773	0.01		DIRECT	, ,	0.29			8	SP-LP0511-1	1, 3, 4
EF-B5	TOILET E217	150	0.5	825	0.07	_	DIRECT	115/1/60	0.46	0.6	15	23	CSP-A200	2, 3, 4

- 1. PROVIDE UL LISTING, DISCONNECT SWITCH, HANGING SPRING ISOLATORS AND 45 DEGREE DISCHARGE WITH BIRD SCREEN AND BACKDRAFT DAMPER.
- PROVIDE UL LISTING, DISCONNECT SWITCH AND HANGING SPRING ISOLATORS.
- 3. FAN SHALL BE OPERATED BY OCCUPANCY SENSOR.
- 4. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.

	AIR DEVICE SCHEDULE											
No CFM	SERVICE	CFM	SIZE	BLOW	BASIS OF DESIGN	REMARKS						
101	SUPPLY	0-115	24"x24"	4-WAY	PRICE - SPD	6"Ø NECK						
102	SUPPLY	116-205	24"x24"	4-WAY	PRICE - SPD	8"ø NECK						
121	SUPPLY	0-190	6"Wx4'-0"L	_	PRICE - SDS75	6" Ø NECK, 3 SLOTS, 3/4" SLOT SPACING OPPOSED, TECH ZONE						
201	RETURN	0-1600	24"x24"	_	PRICE — SMDA	24"x24" NECK						

- 1. LINEAR SLOT DIFFUSER SHOULD BE SUPPLIED WITH A PLENUM BOX.
- 2. PROVIDE INSULATION FOR ALL DIFFUSERS AND GRILLES WITH PLENUM BOXES. 3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY DIFFUSERS, RETURN, AND EXHAUST GRILLES.
- 4. SEE SPECIFICATION 233713 FOR EQUIVALENT MANUFACTURERS.

	VARIABLE AIR VOLUME TERMINAL REHEAT UNIT SCHEDULE															
DESIGNATION			COOLIN	IG CFM	HFATIN	IG CFM			N A I N I I N A I I N A	MAXIMUM	HEAT	NG CO	L PERFOR	MANCE		
No	SERVICE	TYPE	- COOLII		112/1111	10 01 1	INLET	OUTLET	MINIMUM INLET SP	NC VALUE	EAT	LAT	MBH	GPM	BASIS OF	REMARKS
(10)			MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	SIZE	SIZE	INCH WG	@1.0 INCH WG INLET SP	°F	°F	@180°F EWT	@30°F   △T	DESIGN	
1A-1	LOUNGE A138	VAV	340	105	170	105	6"	10"x10"	1	30	53	100	8.26	0.8	NAILOR - D30RW	1, 2
1A-2	OFFICE A136 & A137	VAV	190	60	145	60	6"	10"x10"	1	30	53	100	7.05	0.7	NAILOR - D30RW	1, 2
1A-3	OFFICE A135	VAV	75	35	35	35	4"	10"x10"	1	30	53	100	1.70	0.2	NAILOR - D30RW	1, 2
1A-4	TRAINING A134	VAV	175	90	90	90	6"	10"x10"	1	30	53	100	4.37	0.4	NAILOR - D30RW	1, 2
1A-5	OPERATIONS A132 & LOUNGE 133	VAV	510	315	315	315	8"	12"x12"	1	30	53	100	15.31	1.5	NAILOR - D30RW	1, 2

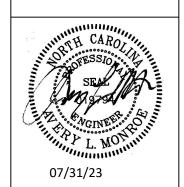
- 1. SEE SPECIFICATION 233600 FOR EQUIVALENT MANUFACTUERS.
- 2. MOUNT TERMINAL UNITS NO MORE THAN 24" ABOVE CEILING.

	OUTSIDE AIR LOUVER SCHEDULE											
DESIGNATION			DIMEN	ISIONS	GROSS	FREE AREA	MAX VELOCITY (FT/MIN)					
	SERVICE	TYPE	LENGTH	HEIGHT	AREA							
OAL-1	AHU-1A	DRAINABLE COMBINATION MOROTRIZED LOUVER DAMPER	24"	12"	2 SF	0.79	500					



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Regional Road Fayetteville

400 Airport Fayetteville, DRAWN BY: \_\_\_\_BMC REVIEWED BY: ALM

DATE: 7/31/2023

PROJECT NO.: <u>02230515.A0</u>

REVISIONS

SHEET NUMBER