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BUILD	ING AIR BALANCE SUMM	ARY		
FLOOR	EQUIPMENT NAME	AIRFLOW	SERVICE AREA	EQUIPMENT LOCATION
NUMBER	AND/OR SERVICE DESCRIPTION	(CFM)		
1	RTU-1 OUTSIDE AIR	200	OFFICES	ROOF
1	RTU-2 OUTSIDE AIR	250	LOUNGE	ROOF
1	RTU-3 OUTSIDE AIR	100	OFFICES	ROOF
1	EF-1 EXHAUST AIR	-75	RESTROOM	CEILING
1	EF-2 EXHAUST AIR	-75	RESTROOM	CEILING
1	EF-3 EXHAUST AIR	-75	JANITOR'S CLOSET	CEILING
1	EF-4 EXHAUST AIR	-150	BREAK ROOM	CEILING
	BUILDING TOTAL	175		

NOTE: FOR REFERENCE ONLY TO COMPLY WITH THE REQUIREMENTS OF 2020 FBC MECHANICAL - SECTION 508.1.2.

		ROOM AREA	OCCUPANCY	MECHANICAL VENTILATION SECTION 403 METHOD (1)(2)						
ROOM NUMBER	ROOM NAME	ROOM AREA	OCCUPANCY	AREA RATE, RA	PEOPLE RATE, RP	EFFECTIVENESS	TOTAL REQUIRED OA	PROVIDED OA	NOTE	
		(SF)	(PEOPLE)	(CFM/SF)	(CFM/PERSON)	(EZ)	(CFM)	(CFM)		
4	OFFICE	100	2	0.06	5	0.8	20	25		
5	OFFICE	100	2	0.06	5	0.8	20	25		
9	CORRIDOR	170	0	0.06	0	0.8	13	25		
13	COPIER	76	1	0.06	5	0.8	12	25		
15	BREAK ROOM	190	6	0.06	5	0.8	52	100		
2	LOUNGE	695	10	0.06	5	0.8	115	150		
16	TELLERS	305	5	0.06	5	0.8	54	100		
6	OFFICE	100	2	0.06	5	0.8	20	25		
7	OFFICE	100	2	0.06	5	0.8	20	25		
8	OFFICE	100	2	0.06	5	0.8	20	25		
17	TELLER WORK AREA	108	2	0.06	5	0.8	21	25		

(2) SCHEDULE IS FOR REFERENCE ONLY TO COMPLY WITH REQUIREMENTS OF 2020 FBC MECHANICAL.

2035 NW 13TH STREET GAINESVILLE, FL 32609 T: 352.672.6448 www.walker-arch.com AA26002009

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engineering MITCHELL GULLEDGE ENGINEERING, INC. 204 SW 4TH AVENUE GAINESVILLE, FL 32601 FL LICENSE EB-31501 T: 352.745.3991

www.mitchellgulledge.com MG# 22067

CA Lic. No: 5075

MILLER ENGINEERING, LLC STRUCTURAL ENGINEERING SERVICES 546 SE 3RD AVENUE MELROSE, FL 32666 PHONE: 904.322.1970 PE LIC. # 45319

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CONSTRUCTION DOCUMENTS 03/01/2023 DATE REVISION DESCRIPTION 1 1 1 1 1 1 

> 1659 W US HIGHWAY 90 LAKE CITY, FL 32055

KEY PLAN

DRAWING TITLE:

MECHANICAL LEGEND, NOTES, AND SCHEDULES

PROJECT NO.: 20056-00 DRAWN BY: EJD CHECKED BY: AM

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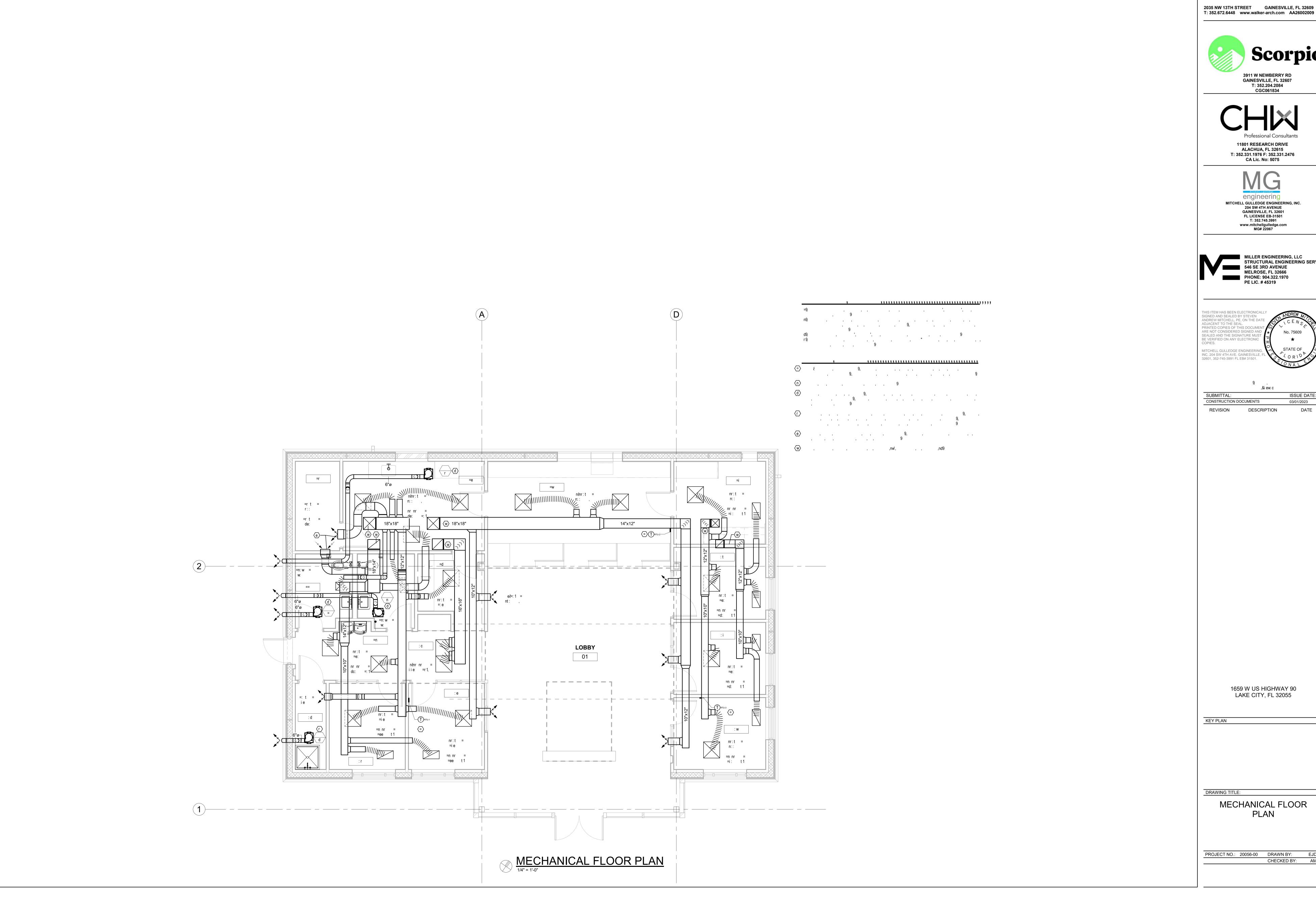
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CGC061834

Professional Consultants 11801 RESEARCH DRIVE ALACHUA, FL 32615 T: 352.331.1976 F: 352.331.2476

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engineering MITCHELL GULLEDGE ENGINEERING, INC. 204 SW 4TH AVENUE **GAINESVILLE, FL 32601** FL LICENSE EB-31501 T: 352.745.3991 www.mitchellgulledge.com MG# 22067

MILLER ENGINEERING, LLC
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546 SE 3RD AVENUE
MELROSE, FL 32666
PHONE: 904.322.1970
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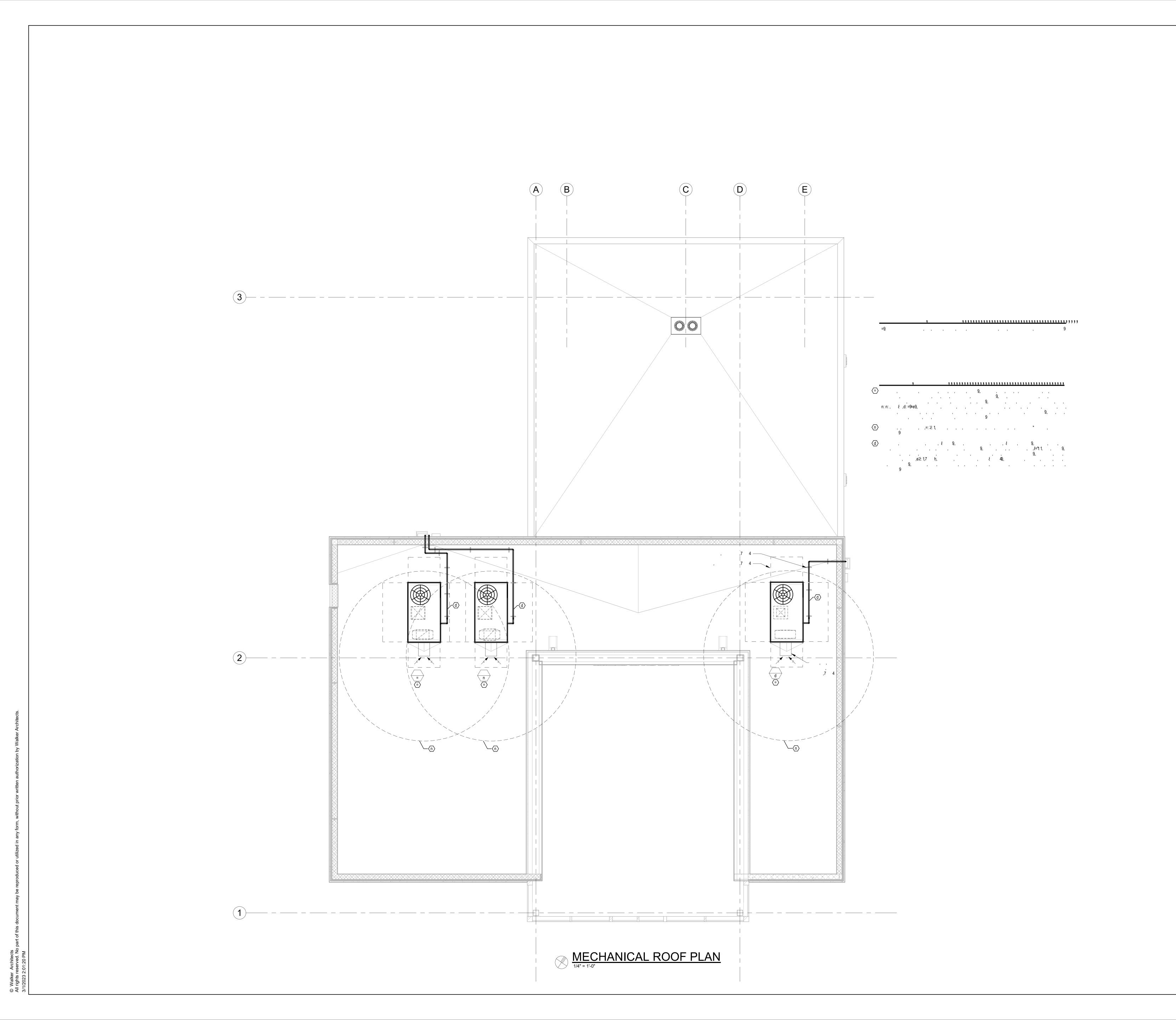
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CONSTRUCTION DOCUMENTS 03/01/2023 REVISION DESCRIPTION

> 1659 W US HIGHWAY 90 LAKE CITY, FL 32055

DRAWING TITLE: MECHANICAL FLOOR

PROJECT NO.: 20056-00 DRAWN BY: EJD CHECKED BY: AM





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MILLER ENGINEERING, LLC
STRUCTURAL ENGINEERING SERVICES
546 SE 3RD AVENUE
MELROSE, FL 32666
PHONE: 904.322.1970
PE LIC. # 45319

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CONSTRUCTION DOCUMENTS 03/01/2023

1659 W US HIGHWAY 90 LAKE CITY, FL 32055

KEY PLAN

DRAWING TITLE: MECHANICAL ROOF PLAN

PROJECT NO.: 20056-00 DRAWN BY: EJD CHECKED BY: AM

MARK	IT SCHEDULE RTU-1	RTU-2	RTU-3
UNIT TYPE	PACKAGED	PACKAGED	PACKAGED
MANUFACTURER	LENNOX	LENNOX	LENNOX
MODEL NAME	HUMIDITROL	HUMIDITROL	HUMIDITROL
MODEL NUMBER	LCT060	LCT060	LCT036
SERVICE	WEST OFFICES, BREAK ROOM, RESTROOMS	LOUNGE AND TELLERS	EAST OFFICES, WORK AREA
LOCATION	ROOF	ROOF	ROOF
ORIENTATION	DOWNFLOW	DOWNFLOW	DOWNFLOW
SUPPLY AIR (MAX COOLING) (CFM)	1,600	1,800	700
SUPPLY AIR (HEATING) (CFM)	1,600	1,800	700
OUTSIDE AIR (CFM)	200	250	100
SUPPLY FAN	ECM DIRECT DRIVE	ECM DIRECT DRIVE	ECM DIRECT DRIVE
SUPPLY TSP (IN WC)	0.93	0.97	0.78
EXTERNAL SP (IN WC)	0.75	0.75	0.75
COIL EAT (DB/WB DEG F)	77.5/65	77.8/65.3	77.9/65.4
COIL LAT (DB/WB DEG F)	55/55	55/55	55/55
TOTAL CAPACITY (BTUH)	58,200	59,800	33,800
SENSBILE CAPACITY (BTUH)	41,200	44,200	22,400
NUMBER OF COOLING STAGES	TWO	TWO	TWO
DESIGN CONDITIONS			
SUMMER OUTDOOR TEMP DB/WB (DEG F)	96/80	96/80	96/80
SUMMER INDOOR DB/WB (DEG F)	75/63	75/63	75/63
WINTER OUTDOOR TEMP (DEG F)	30	30	30
WINTER INDOOR (DEG F)	68	68	68
EFFICIENCY (EER)	12.7	12.7	13.3
SEASONAL ENERGY EFFICIENCY RATIO (SEER)	17.1	17.1	17.8
SUPPLY FAN BRAKE HORSEPOWER (BHP)	0.85	0.77	0.32
SUPPLY FAN MOTOR SIZE (HP)	1.0	1.5	0.5
ELECTRICAL (VOLTS-PHASE)	208-3	208-3	208-3
SYSTEM MCA (AMP)	49	45	25
SYSTEM MOCP (AMP)	50	45	25
MINIMUM SHORT CIRCUIT RATING (SCCR)	65,000	65,000	65,000
HOT GAS REHEAT CAPACITY (MBH)	15.4	31.5	21.9
ELECTRIC HEAT CAPACITY (KW)	15	15	7.5
ELECTRIC HEAT STAGES	SCR	SCR	SCR
WEIGHT (LBS)	762	762	762
SCHEDULE NOTES		1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)	

(1) PROVIDE FACTORY MOUNTED POWER DISCONNECT AND SINGLE POINT POWER

(2) PROVIDE MOTORIZED OUTDOOR AIR DAMPER AND WEATHER HOOD

(3) PROVIDE PHASE PROTECTION

(4) PROVIDE HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL (5) PROVIDE PROGRAMMABLE THERMOSTAT WITH 7-DAY SCHEDULING AND HUMIDITY SENSOR (BOD: LENNOX COMFORT SENSE)

(6) PROVIDE 18" ROOF CURB (7) PROVIDE DIRECT DRIVE MULTI SPEED INDOOR FAN FOR VARIABLE FLOW OPERATION

(8) PROVIDE CORROSION RESISTANT DRAIN PAN

(9) PROVIDE DUAL INDEPENDENT REFRIGERANT CIRCUITS

(10) PROVIDE 2" MERV 13 FILTER (11) PROVIDE HINGED ACCESS DOORS

(12) PROVIDE TWO STAGED COMPRESSORS FOR SINGLE-ZONE VAV APPLICATION

(13) PROVIDE 12 MONTH MANUFACTURER WARRANTY PLUS 24 MONTH EXTENDED WARRANTY TO COVER PARTS.

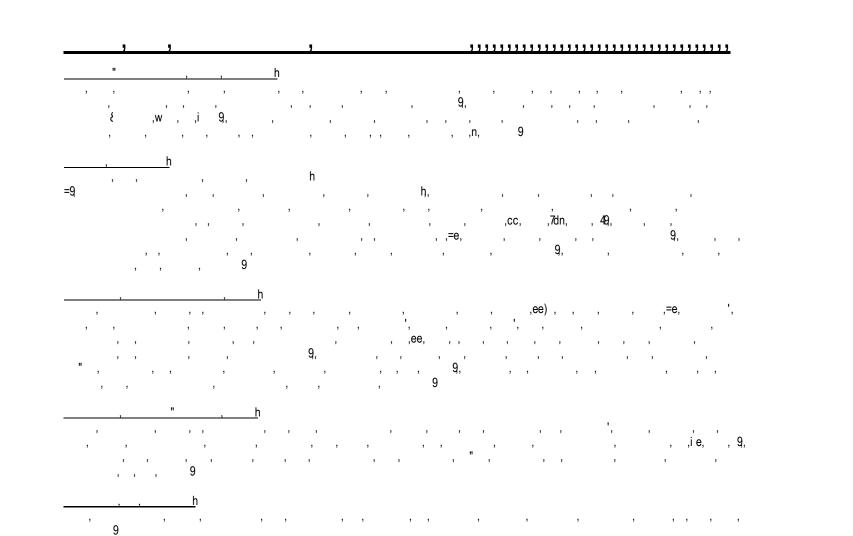
FAN SCHEDULE				
MARK	EF-1	EF-2	EF-3	EF-4
UNIT TYPE	CEILING	CEILING	CEILING	CEILING
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	CSP-B110	CSP-B110	CSP-B110	CSP-B200
SERVICE	RESTROOM	RESTROOM	JANITOR	BREAKROOM
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
AIRFLOW (CFM)	75	75	75	150
EXTERNAL STATIC PRESSURE (IN WC)	0.5	0.5	0.5	0.5
FAN SPEED (RPM)	950	950	950	1040
FAN POWER (WATTS OR FLA)	91 WATTS	91 WATTS	91 WATTS	179 WATTS
MOTOR SIZE (HP)	FRACTIONAL	FRACTIONAL	FRACTIONAL	FRACTIONAL
VOLTS-PHASE	120-1	120-1	120-1	120-1
SOUND DATA				
FIRST OCTIVE BAND (dB)	59	59	59	59
SECOND OCTIVE BAND (dB)	71	71	71	67
THIRD OCTIVE BAND (dB)	56	56	56	44
SCHEDULE NOTES	(1)(2)(3)(4)(5)	(1)(2)(3)(4)(5)	(1)(2)(3)(4)(5)	(1)(2)(4)(5)

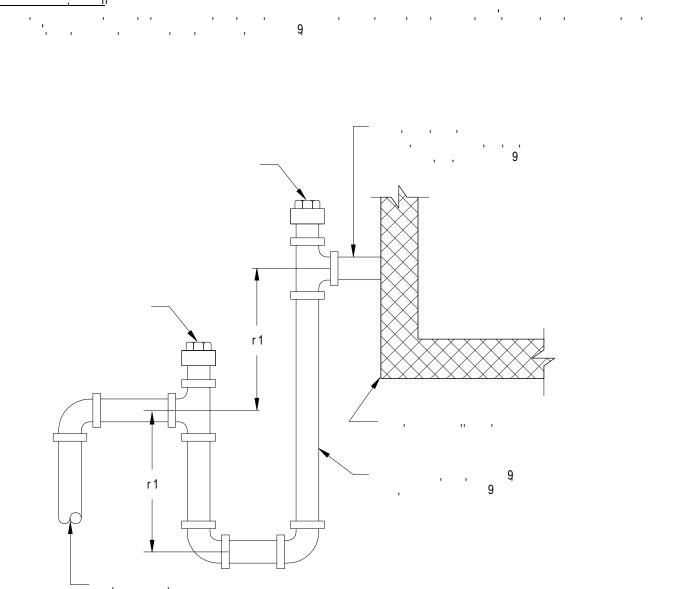
(1) PROVIDE DISCONNECT SWITCH

(2) PROVIDE DIRECT DRIVE WITH SPEED CONTROLLER (3) PROVIDE TIMECLOCK. FAN SHALL RUN CONTINOUSLY DURING SCHEDULED OCCUPIED HOURS.

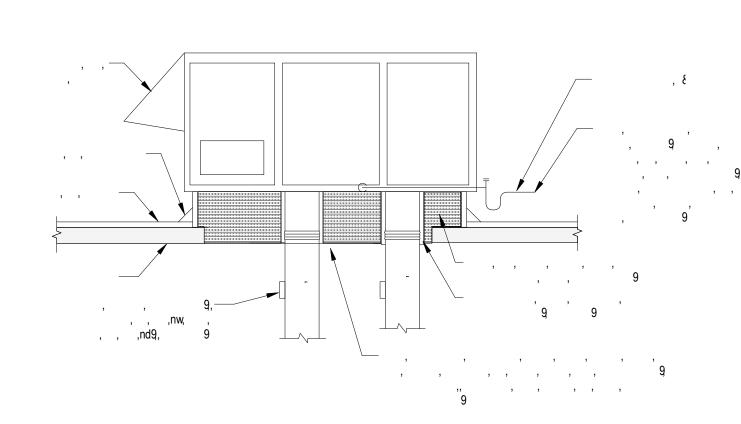
(4) PROVIDE THERMAL OVERLOAD.

(5) PROVIDE WALL CAP, BACKDRAFT DAMPER, AND BIRD SCREEN.

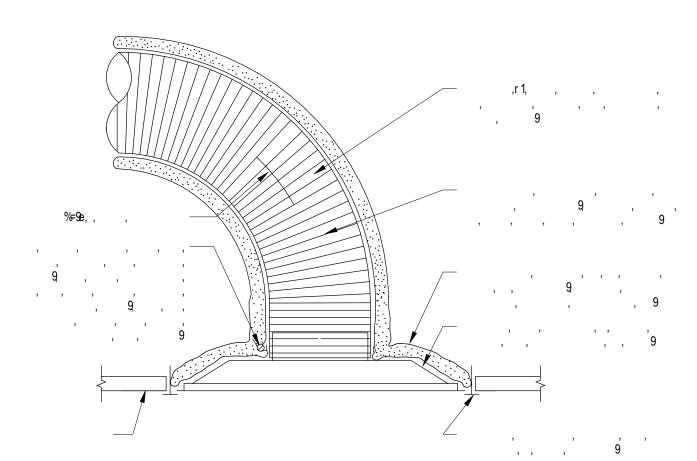




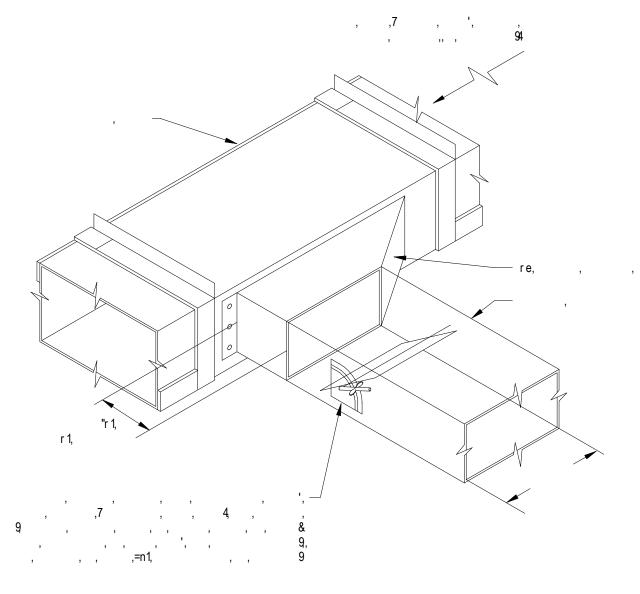
**EQUIPMENT CONDENSATE TRAP** 



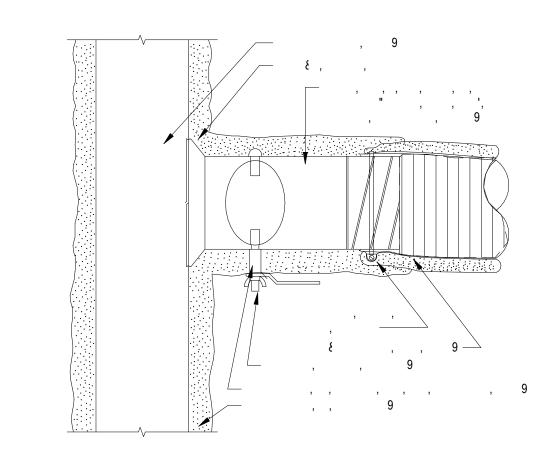
PACKAGED RTU



CEILING DIFFUSER



BRANCH DUCT TAKEOFF



FLEXIBLE DUCT TAKEOFF



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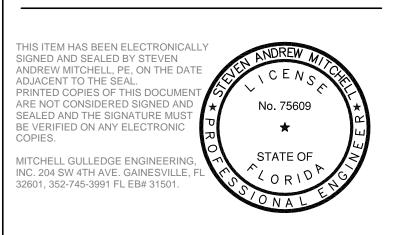




CA Lic. No: 5075







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SUBMITTAL:	ISSUE DATE:				
CONSTRUCTION D	03/01/2023				
REVISION	DESCRIPTION	DATE			

1659 W US HIGHWAY 90 LAKE CITY, FL 32055

KEY PLAN

DRAWING TITLE:

MECHANICAL SCHEDULES & DETAILS

PROJECT NO.: 20056-00 DRAWN BY: EJD CHECKED BY: AM