MECHANICAL ABBREVIATIONS

ABBREVIATION	DEFINITION
A/C	ABOVE CEILING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECT
B/F	BELOW FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BD	BACKDRAFT DAMPER
BEL	BELOW
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONVECTOR
CAP	CAPACITY
CD	CEILING DIFFUSER
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	CONDENSATE DRAIN
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DG	DOOR GRILLE
DIA	DIAMETER (Ø)
DIFF	DIFFUSER
DN	DOWN
DWGS	DRAWINGS
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENG	ENGINEER
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXTG	EXISTING
FA	FREE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FOD	FACE OPERATED DAMPER
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
FT	FEET
GAL	GALLON(S)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRILLE
HD	HEAD (FT WC)
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
KW	KILOWATT
L&S	LOUVER & SCREEN
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LBS.	POUNDS
LD	LINEAR DIFFUSER
LDR	LINEAR DIFFUSER RETURN
LF	LINEAR FEET
LSD	LINEAR SLOT DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MD	MANUAL DAMPER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MOV	MOTOR OPERATED VALVE
MTD	MOUNTED
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPSHA	NET POSITIVE SUCTION HEAD AVAIL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTERS
OPNG	OPENING
PH	ELECTRICAL PHASE
PIU	POWERED INDUCTION UNIT
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQ. IN. ABSOLUTE
PSIG	POUNDS PER AQ. IN. GAUGE
R	REFRIGERANT PIPING
R/H	RELATIVE HUMIDITY
RA	RETURN AIR
RD	ROUND DIFFUSER
REG	REGISTER
RG	RETURN AIR GRILLE
RL	REFRIGERANT LIQUID
RPM	ROTATIONS PER MINUTE
RR	RETURN AIR REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SP	STATIC PRESSURE (IN. W.G.)
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STR	STRUCTURAL
TAB	TEST AND BALANCE
TE	TOILET EXHAUST
TG	TRANSFER GRILLE
THRU	THROUGH
TOD	TOP OF DUCT
TRANS	TRANSITION
TSTAT	THERMOSTAT
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GUAGE
°F	DEGREES FAHRENHEIT
ΔP	PRESSURE DROP

NOTE: THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY, VENTILATION, OUTSIDE AIR DUCTWORK SECTION
	RETURN OR TRANSFER AIR DUCTWORK SECTION
	EXHAUST OR RELIEF AIR DUCTWORK SECTION
	EXISTING DUCTWORK
	EXISTING DUCTWORK TO BE DEMOLISHED
	NEW DUCTWORK
	LINED DUCTWORK
	DUCTWORK END CAP
24"x24"	RECTANGULAR DUCTWORK DIMENSIONS
24"Ø	ROUND DUCTWORK DIMENSIONS
24"/24" FO	OVAL DUCTWORK DIMENSIONS
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	FLEXIBLE DUCT
	MITERED ELBOW (W/ TURNING VANES)
	RADIUS ELBOW
T	THERMOSTAT
H	HUMIDISTAT
S	SENSOR
MD	MANUAL / VOLUME DAMPER
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER
FSD	MOTOR OPERATED FIRE SMOKE DAMPER
SD	SMOKE DAMPER
SD	DUCT SMOKE DETECTOR
10"Ø / CD 200	AIR DISTRIBUTION TAG; SIZE, DEVICE TYPE, CFM

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

PIPING SYMBOLS

SYMBOL	DESCRIPTION
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
D	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
R	REFRIGERANT LINE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	STRAINER
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	GAUGE COCK
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE CONNECTION AT BOTTOM OF MAIN
	PIPE CAP
	PIPE UNION
	PIPE FLANGE
	PETES PLUG
	THERMOMETER
	PRESSURE GAUGE
	PUMP
	EXISTING PIPING
	NEW PIPING
	PIPING TO BE DEMOLISHED

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL SYMBOLS

N	CONNECT TO EXISTING
N	NORTH ARROW
1	DRAWING REVISION TAG
1	KEYED NOTE
1 / S-1	PLAN OR DETAIL NUMBER / SHEET NUMBER

SHEET LIST

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL GENERAL
M-002	MECHANICAL DETAILS
M-003	MECHANICAL DETAILS
M-004	MECHANICAL SCHEDULES
M-141A	MECHANICAL PLAN - FIRST FLOOR - AREA A
M-141B	MECHANICAL PLAN - FIRST FLOOR - AREA B
M-142A	MECHANICAL PLAN - SECOND FLOOR - AREA A
M-142B	MECHANICAL PLAN - SECOND FLOOR - AREA B
M-143A	MECHANICAL PLAN - THIRD FLOOR - AREA A
M-143B	MECHANICAL PLAN - THIRD FLOOR - AREA B
M-144A	MECHANICAL PLAN - FOURTH FLOOR - AREA A
M-144B	MECHANICAL PLAN - ROOF - AREA B
M-145A	MECHANICAL PLAN - ROOF - AREA A
M-470	MECHANICAL PLAN - UNIT A
M-471	MECHANICAL PLAN - UNIT A1
M-472	MECHANICAL PLAN - UNIT B
M-473	MECHANICAL PLAN - UNIT B1
M-474	MECHANICAL PLAN - UNIT C
M-475	MECHANICAL PLAN - UNIT D
M-476	MECHANICAL PLAN - UNIT D1
M-477	MECHANICAL PLAN - UNIT D2
M-478	MECHANICAL PLAN - UNIT E
M-479	MECHANICAL PLAN - UNIT E1
M-480	MECHANICAL PLAN - UNIT E2
M-481	MECHANICAL PLAN - UNIT F
M-482	MECHANICAL PLAN - UNIT G

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: Waterford Ph2 IL
Location: Juno Beach, Florida
Climate Zone: 1a
Project Type: New Construction

Construction Site:
601 Universe Blvd.
Juno Beach, Florida 33408

Designer/Contractor:
Jake Hooper
Salas O'Brien
3200 Windy Hill Rd, SE, Suite 200E
Atlanta, Georgia 30339
4048815300
Jake.Hooper@salasobrien.com

Mechanical Systems List

Quantity	System Type & Description
1	DOAS-A (Multiple-Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 270 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Heat Recovery System Proposed Efficiency = 11.00 EER, Required Efficiency = 10.00 EER Proposed Part Load Efficiency = 20.40 IEER, Required Part Load Efficiency = 11.60 IEER Fan System: DOAS-A -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 1 Supply, Constant Volume, 2960 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
1	DOAS-B (Multiple-Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 61 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 171 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Heat Recovery System Proposed Efficiency = 12.10 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 18.00 IEER, Required Part Load Efficiency = 12.40 IEER Fan System: DOAS-B -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 2 Supply, Constant Volume, 1830 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
2	RTU-A & B (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 25 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 35 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 18.00 , Required Part Load Efficiency = 0.00 Fan System: RTU-A & B -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 3 Supply, Constant Volume, 1160 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
3	FCU-A (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 20 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 23 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FCU-A -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 4 Supply, Constant Volume, 800 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
32	FCU-A1 THRU F (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FCU-A1 THRU F -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 5 Supply, Constant Volume, 950 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
4	FCU-G (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 33 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FCU-G -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 6 Supply, Constant Volume, 1150 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
1	FCU-1A-1 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FCU-1A-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 7 Supply, Constant Volume, 875 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
7	FCU-1A-2 THRU FCU-3B-1 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 27 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 15.20 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FCU-1A-2 THRU FCU-3B-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 8 Supply, Constant Volume, 600 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
2	FCU-1A-3 & FCU-1B-2 (Single Zone): Cooling: 1 each - Split System, Capacity = 27 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 21.00 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 9 Supply, Constant Volume, 565 CFM, 0.4 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jake Hooper — Name - Title
Jake Hooper — Signature
12/01/2025 — Date

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHRATTER — LICENSE — No. 94288 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
Digitally signed by Daniel Shratter
Date: 2025.12.02 15:17:55-05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

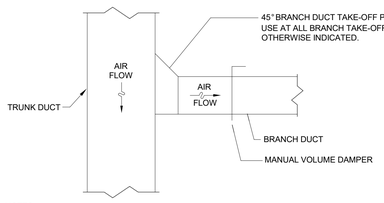
Project No.: 2021009
Date: 12/01/2025

MECHANICAL GENERAL

M-001

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

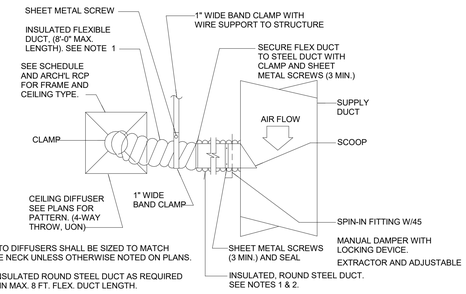
Project Number: 2024-03276



NOTES:

1. REFER TO PLANS FOR DUCT SIZES.

1 M-002 TYPICAL BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE

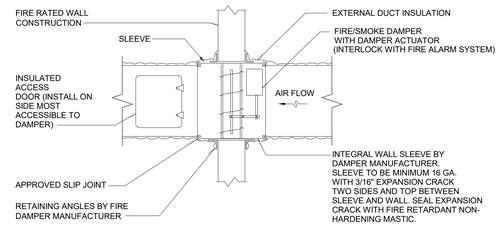


NOTES:

1 RUNOUTS TO DIFFUSERS SHALL BE SIZED TO MATCH THE DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS.

2 PROVIDE INSULATED ROUND STEEL DUCT AS REQUIRED TO MAINTAIN MAX. 8 FT. FLEX. DUCT LENGTH.

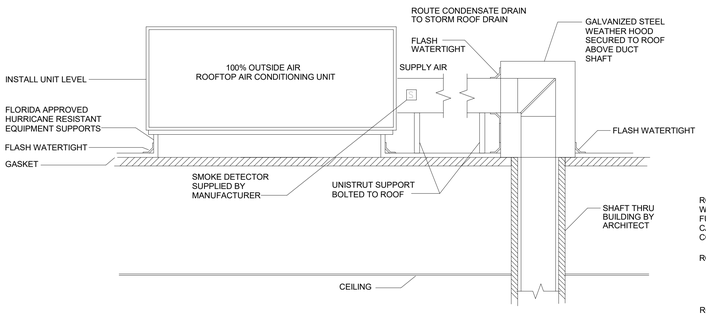
2 M-002 TYPICAL BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE



3 M-002 VERTICAL FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE

NOTES:

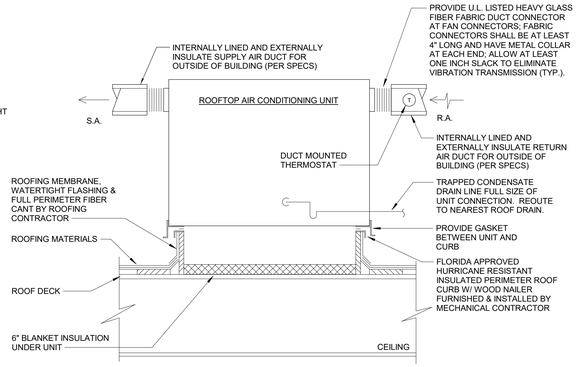
1. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.
2. FIRE/SMOKE DAMPERS SHALL BE RUSKIN SERIES FSD-60 OR EQUAL, EXCEPT WHERE OTHERWISE NOTED. FIRE/SMOKE DAMPERS MUST COMPLY WITH U.L. STANDARD 555 AND 555S AND BE INSTALLED STRICTLY PER MANUFACTURER'S U.L. LISTED PRINTED INSTRUCTIONS. PROVIDE SLEEVE TYPE INSTALLATION AT ALL CONTINUOUS DUCTED WALL PENETRATIONS AND GRILLE INSTALLATION AT ALL SIDEWALL PENETRATIONS.
3. THIS DETAIL IS FOR REFERENCE ONLY. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH U.L. LISTING AND MANUFACTURERS INSTRUCTIONS.
4. INSTALL ACCESS DOOR(S) AS REQUIRED TO PROVIDE UNIMPEDED ACCESS FOR MAINTENANCE AND INSPECTION OF FSD'S FUSIBLE LINKS AND ACTUATORS. WHERE DAMPER HAS MULTIPLE FUSIBLE LINKAGE ASSEMBLIES, PROVIDE ACCESS TO EACH (DOORS MAY BE COMBINED, AND SIZED ACCORDINGLY, WHERE POSSIBLE).
5. INSTALL FIRE ALARM RELAY AND MOTOR/ACTUATOR ON SAME SIDE OF FIRE/SMOKE DAMPER. PERMANENTLY MARK ROTATING ASSEMBLY (SHAFT) TO INDICATE DAMPER POSITION FROM DEVICE EXTERIOR.
6. DAMPER ACTUATOR SHALL HAVE 120V/1PH POWER CONNECTION UNLESS NOTED OTHERWISE.



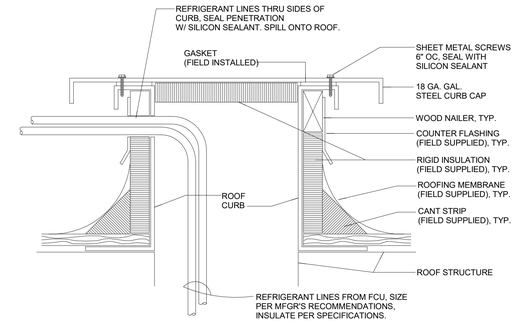
PER FMC 606.4, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON ACTIVATION.

PER FMC 606.4.1, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO TO BE IDENTIFIED AS "AIR DUCT TROUBLE".

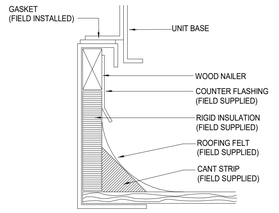
4 M-002 DEDICATED OUTSIDE AIR UNIT DETAIL
NOT TO SCALE



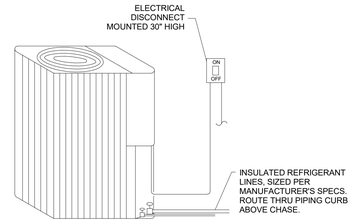
5 M-002 HORIZONTAL FLOW ROOFTOP UNIT DETAIL
NOT TO SCALE



6 M-002 REFRIGERANT PIPING ROOF PENETRATION DETAIL
NOT TO SCALE



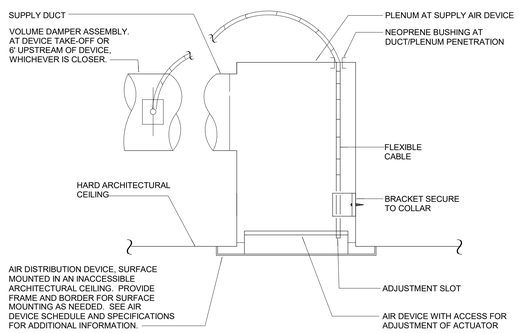
7 M-002 CURB SECTION DETAIL
NOT TO SCALE



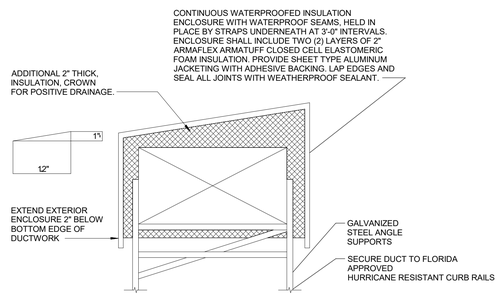
NOTE:

MOUNT UNIT AND DISCONNECT ON FLORIDA APPROVED CONDENSER RACKS BY MIRO INDUSTRIES. COORDINATE WITH STRUCTURAL.

8 M-002 HEAT PUMP/CONDENSING UNIT DETAIL
NOT TO SCALE



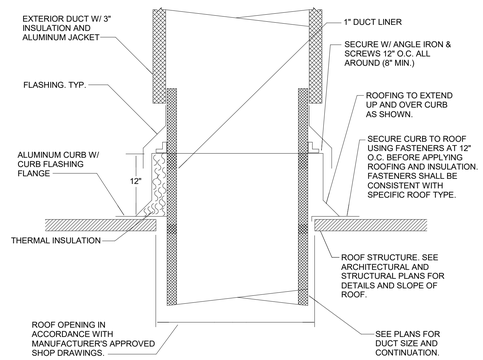
9 M-002 REMOTE CABLE-OPERATED DAMPER DETAIL
NOT TO SCALE



NOTES:

PROVIDE SUPPORTS, SPACED A MAXIMUM OF 6'-0" ON CENTER, FOR ALL EXPOSED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK EXPOSED TO THE WEATHER. SECURE DUCT SUPPORTS TO CURB WITH ANGLE IRON OR UNISTRUT BOLTED TO EQUIPMENT SUPPORTS. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

10 M-002 EXPOSED HORIZONTAL DUCT DETAIL
NOT TO SCALE



11 M-002 DUCT THRU ROOF CURB DETAIL
NOT TO SCALE

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

SAMUEL BENJAMIN SHUSTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Samuel Shuster
Date: 2025.12.02 15:58:10 -05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
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PH: 770 916 2220
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ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL DETAILS

M-002

Salas O'Brien

salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

Autodesk Docs://WCR - Stage 2 - MC_AL_IL/2024-03276 - MEP - IL.rvt

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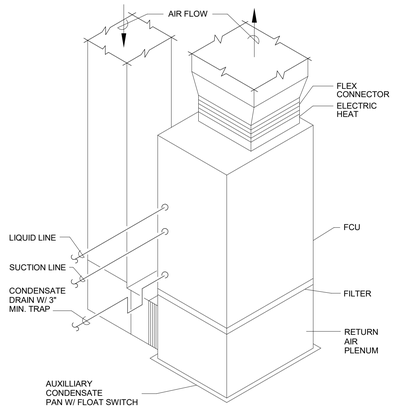
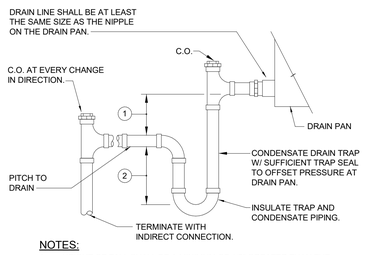


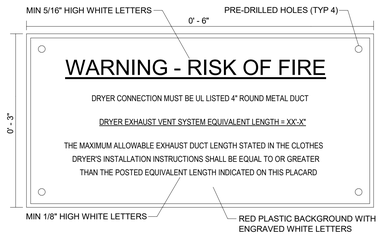
1 M-003 VERTICAL FAN COIL UNIT DETAIL
NOT TO SCALE



NOTES:

1. HEIGHT OF FALL SHALL BE A MINIMUM OF 1/2" GREATER THAN THE TOTAL STATIC PRESSURE OF THE AIR HANDLING UNIT.
2. HEIGHT OF TRAP SHALL BE A MINIMUM OF 1/2" GREATER THAN THE TOTAL STATIC PRESSURE OF THE AIR HANDLING UNIT BUT NOT LESS THAN 2".

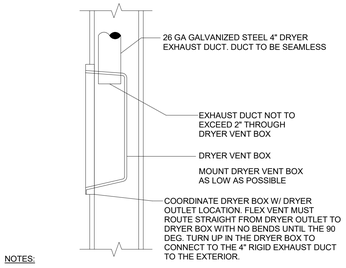
2 M-003 CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



NOTES

1. THE CONTRACTOR SHALL REPLACE THE "XX'-X" FOR EACH PLACARD WITH THE SUM OF THE FIELD-MEASURED DUCT LENGTH AND EQUIVALENT LENGTH FOR EACH FITTING INSTALLED BETWEEN THE DRYER CONNECTION AND THE EXTERIOR VENT CAP.
2. PERMANENTLY AFFIX THE LABEL IN A CONSPICUOUS LOCATION WITHIN SIX (6) LINEAL FEET OF THE EXHAUST CONNECTION.
3. THE LABEL ABOVE IS SHOWN AS A GUIDELINE ONLY. ALTERNATE DESIGNS MAY BE SUBMITTED FOR REVIEW (SUCH AS THOSE MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC. - www.dryerplacard.com).

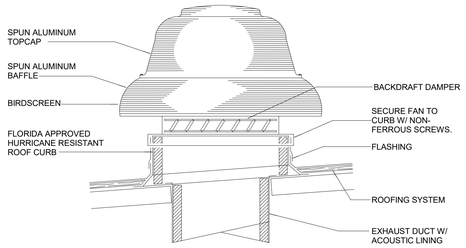
3 M-003 DRYER VENT PLACARD DETAIL
NOT TO SCALE



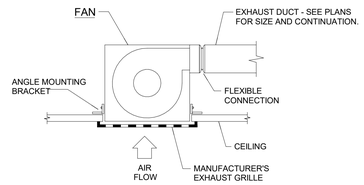
NOTES:

1. INSTALL DRYER VENT BOX PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. DRYER VENT BOXES SHALL BE DRYERBOX MODEL 425 (UPWARD EXHAUST) OR EQUAL.

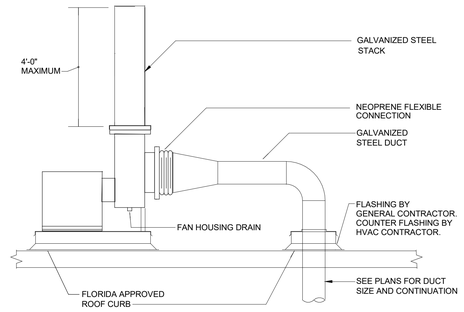
4 M-003 DRYER VENT BOX DETAIL
NOT TO SCALE



5 M-003 ROOF EXHAUST FAN DETAIL
NOT TO SCALE

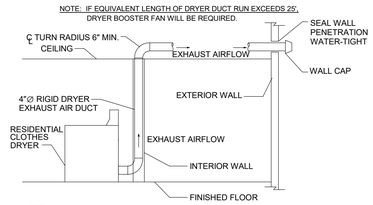


6 M-003 CEILING MOUNTED CABINET FAN DETAIL
NOT TO SCALE

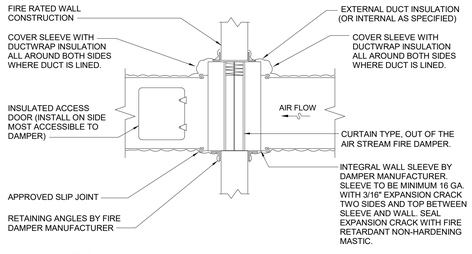


NOTES:
1. CONTRACTOR TO PROVIDE GUY WIRES IF FAN ASSEMBLY IS NOT HURRICANE RATED.

7 M-003 UTILITY FAN EXHAUST STACK DETAIL
NOT TO SCALE



8 M-003 DRYER VENT TO WALL DETAIL
NOT TO SCALE



9 M-003 VERTICAL FIRE DAMPER DETAIL
NOT TO SCALE

NOTES:

1. THIS DETAIL IS FOR REFERENCE ONLY. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH U.L. LISTING AND MANUFACTURER'S INSTRUCTIONS.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SMOLTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Daniel Benjamin Smolter
Date: 2025.12.01 15:18:31 -05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL DETAILS

M-003

Salas O'Brien

salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

DEDICATED OUTSIDE AIR UNIT SCHEDULE

UNIT TAG	SERVICE	LOCATION	TYPE	OUTDOOR AIR (CFM)	FAN DATA		FAN MOTOR DATA				DX COOLING COIL								HOT GAS REHEAT					ELECTRIC HEAT				POWER CONNECTION		IEER	ISMRE2	WEIGHT (LBS)	SELECTION BASED ON	REMARKS
					CFM	TOTAL S.P. (IN. WG.)	RPM	HP	VOLTS	PHASE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIR SIDE DATA EAT (°F) DB	AIR SIDE DATA EAT (°F) WB	AIR SIDE DATA LAT (°F) DB	AIR SIDE DATA LAT (°F) WB	AMBIENT DB (°F)	COMPRESSOR STAGES	COMPRESSOR QUANTITY	COMPRESSOR REFRIG.	TOTAL CAPACITY (MBH)	AIR SIDE DATA EAT (°F) DB	AIR SIDE DATA EAT (°F) WB	AIR SIDE DATA LAT (°F) DB	AIR SIDE DATA LAT (°F) WB	SIZE (KW)	STAGES	EDB (°F)	LDB (°F)	VOLTS	PHASE					
DOAS-A	OUTSIDE AIR	ROOF - A	HORIZONTAL DISCHARGE	2960	2960	1.5	2325	3.0	208	3	269.9	96.3	84.0	79.5	52.0	52.0	84.0	INVERTER	2	31.7lb	58.5	52.0	52.0	70.0	58.9	30.0	SCR	30.0	61.9	208	3	20.4	10.5	4260	DAIKIN - DPSC20B	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)
DOAS-B	OUTSIDE AIR	ROOF - B	HORIZONTAL DISCHARGE	1830	1830	1.5	2384	3.0	208	3	171.6	61.5	84.0	79.5	50.9	50.9	84.0	INVERTER	1	24.9lb	37.9	50.9	50.9	70.0	58.4	18.0	SCR	30.0	60.9	208	3	18.0	8.8	1960	DAIKIN - DPSC15B	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (15) (16) (17) (18) (19)

(1) PROVIDE BASIS OF DESIGN OR EQUAL BY TRANE, GREENHECK OR AAON.
(2) SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
(3) ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND/OR ORDERING EQUIPMENT.
(4) ALL EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S COASTAL APPLICATION PROTECTION KIT/COATINGS.
(5) PROVIDE 18-INCH HIGH INSULATED ROOF CURB.
(6) INVERTER COMPRESSORS FOR MODULATING CAPACITY AND DISCHARGE AIR TEMPERATURE CONTROL (DIGITAL SCROLL NOT ALLOWED).
(7) CONFIGURED FOR HORIZONTAL DISCHARGE.
(8) MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL.
(9) PROVIDE OUTSIDE AIR DEW-POINT SENSOR.
(10) PROVIDE SPACE TEMPERATURE SENSOR FOR SUPPLY AIR TEMPERATURE RESET.
(11) DIRECT DRIVE PLENUM SUPPLY WITH VARIABLE SPEED CONTROL.
(12) STAINLESS STEEL DRAIN PAN.
(13) PROVIDE INTEGRAL DISCONNECT SWITCH.
(14) SMOKE DETECTOR FOR THE SUPPLY SHALL BE FACTORY PROVIDED.
(15) PROVIDE CONDENSER FANS WITH ENERGY COMMUTATED MOTOR (ECM).
(16) PROVIDE 2" MERV-8 PRE-FILTERS AND 4" MERV-14 FILTERS.
(17) PROVIDE AND INSTALL TEMPERATURE SENSOR BETWEEN COOLING AND HOT-GAS REHEAT COILS OR MEANS OF COIL TEMPERATURE MEASUREMENT VIA SUCTION PRESSURE SENSING.
(18) UNIT IS SELECTED BASED ON ASHRAE 0.4% SUMMER DESIGN TABLE.
(19) R-32 A2L REFRIGERANT. UNIT SHALL HAVE ALL INTERNAL SENSING AND CONTROLS PER ASHRAE.

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

UNIT TAG	SERVICE	FAN DATA		FAN MOTOR HP	DIRECT EXPANSION COOLING COIL				COMPRESSOR DATA		ELECTRIC HEATING COIL		FILTER EFFICIENCY (%)	SINGLE POINT POWER CONNECTION		SEER2	SELECTION BASED ON	REMARKS
		CFM	EXTERNAL S.P. (IN. W.G.)		TOTAL (MBH)	SENSIBLE (MBH)	EAT (°F) DB	EAT (°F) WB	NO.	NO. OF STAGES	KW	NO. OF STAGES		VOLTS	PHASE			
RTU-A	ELEVATOR	1160	0.8	3/4	35.0	25.9	80	67	1	1	7.5	1	MERV-8	208	3	14.0	DAIKIN - DSC0363W	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)
RTU-B	ELEVATOR	1160	0.8	3/4	35.0	25.9	80	67	1	1	7.5	1	MERV-8	208	3	14.0	DAIKIN - DSC0363W	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)

(1) PROVIDE BASIS OF DESIGN - DAIKIN.
(2) SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
(3) ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND/OR ORDERING EQUIPMENT.
(4) ALL EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S COASTAL APPLICATION PROTECTION KIT/COATINGS.
(5) PROVIDE 18-INCH HIGH INSULATED ROOF CURB.
(6) DIRECT DRIVE PLENUM SUPPLY WITH VARIABLE SPEED CONTROL.
(7) STAINLESS STEEL DRAIN PAN.
(8) PROVIDE INTEGRAL DISCONNECT SWITCH.
(9) PROVIDE POWERED CONVENIENCE OUTLET.
(10) R-32 A2L REFRIGERANT.
(11) CONFIGURED FOR HORIZONTAL DISCHARGE & RETURN.
(12) PROVIDE 7-DAY DIGITAL, PROGRAMMABLE THERMOSTAT WITH LOCK-OUT CAPABILITY.
(13) PROVIDE THRU-BASE ELECTRICAL CONNECTIONS.

AIR DISTRIBUTION DEVICE SCHEDULE

DEVICE TAG	SERVICE	TYPE	FACE SIZE	INLET SIZE	ACCESSORIES/OPTIONS	SELECTION BASED ON	REMARKS
CD	SUPPLY	CEILING DIFFUSER	24"x24"	SEE PLANS	---	TITUS OMNI	(1) (2) (3) (4)
RAG	RETURN	CEILING RETURN	24"x24"	SEE PLANS	---	TITUS 45F	(1) (2) (3)
SR	SUPPLY	SUPPLY REGISTER	SEE PLANS	SEE PLANS	OPPOSED BLADE DAMPER, MODEL AG-15	TITUS 272RL	(1) (2)
RAR	RETURN	CEILING/SIDEWALL RETURN	SEE PLANS	SEE PLANS	---	TITUS 350RL	(1) (2)
ER	EXHAUST	EXHAUST REGISTER	SEE PLANS	SEE PLANS	OPPOSED BLADE DAMPER, MODEL AG-15	TITUS 272RL	(1) (2)
LD/LDR	SUPPLY	LINEAR SLOT DIFFUSER	4' LENGTH	SEE PLANS	(2) 1" SLOTS, INSULATED PLENUM, BORDER TO FIT GWB CEILING	TITUS TBDI-10	(1) (2) (4)

(1) COORDINATE FRAME STYLE OF AIR DEVICE WITH CEILING (OR WALL) SYSTEM INSTALLED.
(2) COORDINATE FINISH COLOR WITH INTERIOR DESIGNER AND ARCHITECT.
(3) PROVIDE ROUND DIFFUSER NECK. DUCT RUNOUT SHALL BE SAME DIAMETER AS DIFFUSER NECK.
(4) PROVIDE WITH "REMOTE CABLE OPERATED DAMPER" SIMILAR TO YOUNG REGULATOR.

DWELLING UNIT SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	FAN COIL UNIT CFM	OA CFM	E.S.P. (IN H2O)	FAN HP	D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	REVERSE CYCLE HEATING CAPACITY (MBH)	REVERSE CYCLE AIR TEMP	ELEC. HEATER KIT V	ELEC. HEATER KIT PH	ELEC. HEATER KIT HEATER (KW) (9)	ELEC. HEATER KIT V	ELEC. HEATER KIT PH	SELECTION BASED ON	HEAT PUMP UNIT NUMBER	LOCATION	COND. EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	HSPF2	REMARKS
FCU-A	800	(10)	0.5	3/4	23.0	17.5	75	63	22.0	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-A	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA2410	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-A1	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-A1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-B	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-B	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-B1	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-B1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-C	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-C	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-D	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-D	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-D1	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-D1	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-D2	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-D2	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-E	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-E	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-E1	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-E1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-E2	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-E2	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-F	950	(10)	0.5	3/4	27.6	22.4	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-F	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)
FCU-G	1150	(10)	0.5	3/4	33.8	26.0	75	63	35.0	47	208	1	8.0	208	1	DAIKIN - AMST36CU13	HP-G	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3610	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
(2) HEAT PUMP UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
(3) PROVIDE LOW AMBIENT COOLING KIT TO 0°F.
(4) PROVIDE HAIL GUARDS.
(5) PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LOCK-OUT CONTROLS.
(6) PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
(7) R-32 A2L REFRIGERANT.
(8) INDICATED HEATER CAPACITY IS THE OUTPUT AT 208V/1PH..
(9) NAMING CONVENTION ON FLOOR PLANS: FCU/HP-(UNIT)-(FLOOR).
(10) OUTSIDE AIR PROVIDED DIRECTLY TO SPACE BY DOAS UNIT. SEE PLANS FOR AIRFLOWS.

COMMON AREA SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	FAN COIL UNIT CFM	OA CFM	E.S.P. (IN H2O)	FAN HP	D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	REVERSE CYCLE HEATING CAPACITY (MBH)	REVERSE CYCLE AIR TEMP	ELEC. HEATER KIT V	ELEC. HEATER KIT PH	ELEC. HEATER KIT HEATER (KW) (9)	ELEC. HEATER KIT V	ELEC. HEATER KIT PH	SELECTION BASED ON	HEAT PUMP UNIT NUMBER	LOCATION	COND. EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	HSPF2	REMARKS
FCU-1A-1	875	170	0.5	3/4	27.1	19.5	75	63	28.6	47	208	1	8.0	208	1	DAIKIN - AMST30BU13	HP-1A-1	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA3010	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-1A-2	550	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-1A-2	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-2A-1	550	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-2A-1	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-3A-1	550	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-3A-1	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-4A-1	600	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-4A-1	ROOF - A	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-1B-1	550	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-1B-1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-2B-1	550	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-2B-1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-3B-1	600	(9)	0.5	3/4	17.4	14.1	75	63	17.4	47	208	1	6.0	208	1	DAIKIN - AMST24BU13	HP-3B-1	ROOF - B	95	1	1	208	1	DAIKIN - DH4SEA1810	15.2	7.8	(1) (2) (3) (4) (5) (6) (7) (8)

(1) REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
(2) HEAT PUMP UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
(3) PROVIDE LOW AMBIENT COOLING KIT TO 0°F.
(4) PROVIDE HAIL GUARDS.
(5) PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LOCK-OUT CONTROLS.
(6) PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
(7) R-32 A2L REFRIGERANT.
(8) INDICATED HEATER CAPACITY IS THE OUTPUT AT 208V/1PH..
(9) OUTSIDE AIR PROVIDED DIRECTLY TO SPACE BY DOAS UNIT. SEE PLANS FOR AIRFLOWS.

FAN SCHEDULE

UNIT TAG	LOCATION	FAN TYPE	CFM	STATIC PRESSURE (IN. W.G.)	FAN RPM	DRIVE	MOTOR DATA (60HZ) HP (W)	MOTOR DATA (60HZ) V	MOTOR DATA (60HZ) PH	SELECTION BASED ON	REMARKS
REF-A-1	ROOF - A	CENTRIFUGAL	350	0.4	1300	DIRECT	1/12	115	1	GREENHECK - G-095-G	(1) (3) (4) (5) (6)
REF-A-2	ROOF - A	CENTRIFUGAL	1000	0.4	857	DIRECT	1/4	115	1	GREENHECK - G-140-VG	(1) (3) (4) (5) (6)
REF-B-1	ROOF - B	BLOWER	300	0.4	1061	DIRECT	1/4	115	1	GREENHECK - USF-04-B7	(1) (3) (4) (5) (6)
REF-B-2	ROOF - B	CENTRIFUGAL	750	0.4	947	DIRECT	1/4	115	1	GREENHECK - G-120-VG	(1) (3) (4) (5) (6)
EF-A-1	RR [106]	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	(2) (3) (4) (5)
EF-A-2	HK/STOR [105]	CEILING	50	0.4	685	DIRECT	(10)	115	1	GREENHECK - SP-LP0511-1	(1) (3) (4) (5)
EF-1	UNIT - BATH	CEILING	70	0.25	-	DIRECT	(27)	115	1	BROAN - BHFLED80	(3) (4) (5) (7)
EF-2	UNIT - POWDER	CEILING	70	0.5	773	DIRECT	(17)	115	1	GREENHECK - SP-LP0511-1	(2) (3) (4) (5)

(1) FAN TO OPERATE CONTINUOUSLY.
(2) FAN TO OPERATE WHEN LIGHT SWITCH IN RESTROOM IS TURNED ON.
(3) PROVIDE UNIT MANUFACTURERS FAN SPEED CONTROLLER. FAN SPEED CONTROLLER SHALL BE FACTORY MOUNTED IN MOTOR COMPARTMENT OR FIELD MOUNTED ON FAN.
(4) PROVIDE UNIT MANUFACTURERS FAN MOUNTED DISCONNECT SWITCH.
(5) PROVIDE BACKDRAFT DAMPER.
(6) PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
(7) FAN, HEATER, AND LIGHT SHALL BE SEPARATELY CONTROLLABLE BY INDIVIDUAL WALL MOUNTED SWITCHES.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT TAG	FAN COIL UNIT CFM	FAN COIL UNIT FAN HP (AMPS)	D.X. COOLING COIL TOTAL CAPACITY (MBH)	D.X. COOLING COIL SENSIBLE CAPACITY (MBH)	D.X. COOLING COIL EAT (°F) DB	D.X. COOLING COIL EAT (°F) WB	V	PH	SELECTION BASED ON	OUTDOOR UNIT NUMBER	LOCATION	COND. EAT (°F)	COMPRESSOR NO.	COMPRESSOR NO. OF STAGES	SINGLE POINT POWER CONNECTION VOLTS	SINGLE POINT POWER CONNECTION PHASE	SELECTION BASED ON	SEER2	REMARKS
FCU-1A-3	565	(0.4)	27.1	19.5	75	63	208	1	DAIKIN - FTKF18BVJU9	CU-1A-3	ROOF - A	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	(1) (2) (3) (4) (5) (6) (7) (8)
FCU-1B-2	565	(0.4)	27.1	19.5	75	63	208	1	DAIKIN - FTKF18BVJU9	CU-1B-2	ROOF - B	95	1	1	208	1	DAIKIN - RKF18BVJU9	21.0	(1) (2) (3) (4) (5) (6) (7) (8)

(1) REFRIGERANT LINES TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
(2) PROVIDE 120 VOLT / 1 PHASE CONDENSATE PUMP.
(3) CONDENSING UNIT FUSED DISCONNECT BY ELECTRICAL CONTRACTOR.
(4) PROVIDE LOW AMBIENT COOLING KIT TO 0°F.
(5) PROVIDE HAIL GUARDS.
(6) PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LOCK-OUT CONTROLS.
(7) PROVIDE MANUFACTURER'S COASTAL APPLICATION KIT/COATINGS.
(8) R-32 A2L REFRIGERANT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

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ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL SCHEDULES

M-004

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Atlanta
3200 Windy Hill Road, SE, Suite 200E
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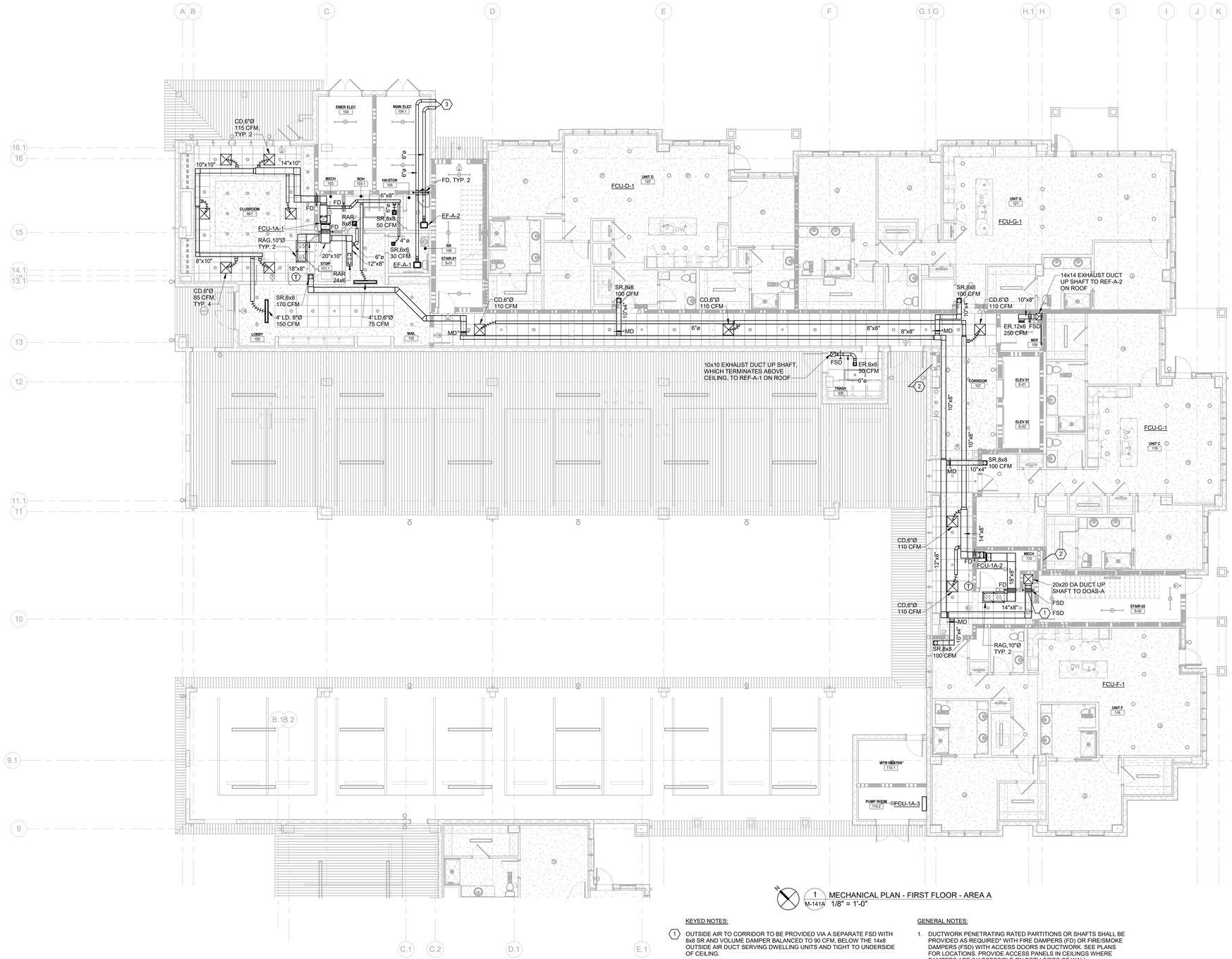
Project Number: 2024-03276



1 MECHANICAL PLAN - FIRST FLOOR - AREA A
M-141A 1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 90 CFM, BELOW THE 14x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
3. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER AND INSECT SCREEN. X VENT BOX WITH SINGLE OR DOUBLE INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT. MAINTAIN MINIMUM 3' CLEARANCE TO ANY OPERABLE OPENINGS.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) LOCATED IN MECHANICAL CLOSETS TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. PUMP CONDENSATE FROM FCU-1A-3 LOCATED IN PUMP ROOM ABOVE CEILING AND INSIDE WALL TO NEAREST STORM FLOOR DRAIN AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

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12-1-25
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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - FIRST FLOOR - AREA A

M-141A

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 2:26:32 PM

1 M-141B MECHANICAL PLAN - FIRST FLOOR - AREA B
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 105 CFM, BELOW THE 10x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) LOCATED IN MECHANICAL CLOSETS TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. PUMP CONDENSATE FROM FCU-1B-2 LOCATED IN PUMP ROOM ABOVE CEILING AND INSIDE WALL TO NEAREST STORM FLOOR DRAIN AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - FIRST FLOOR - AREA B

M-141B

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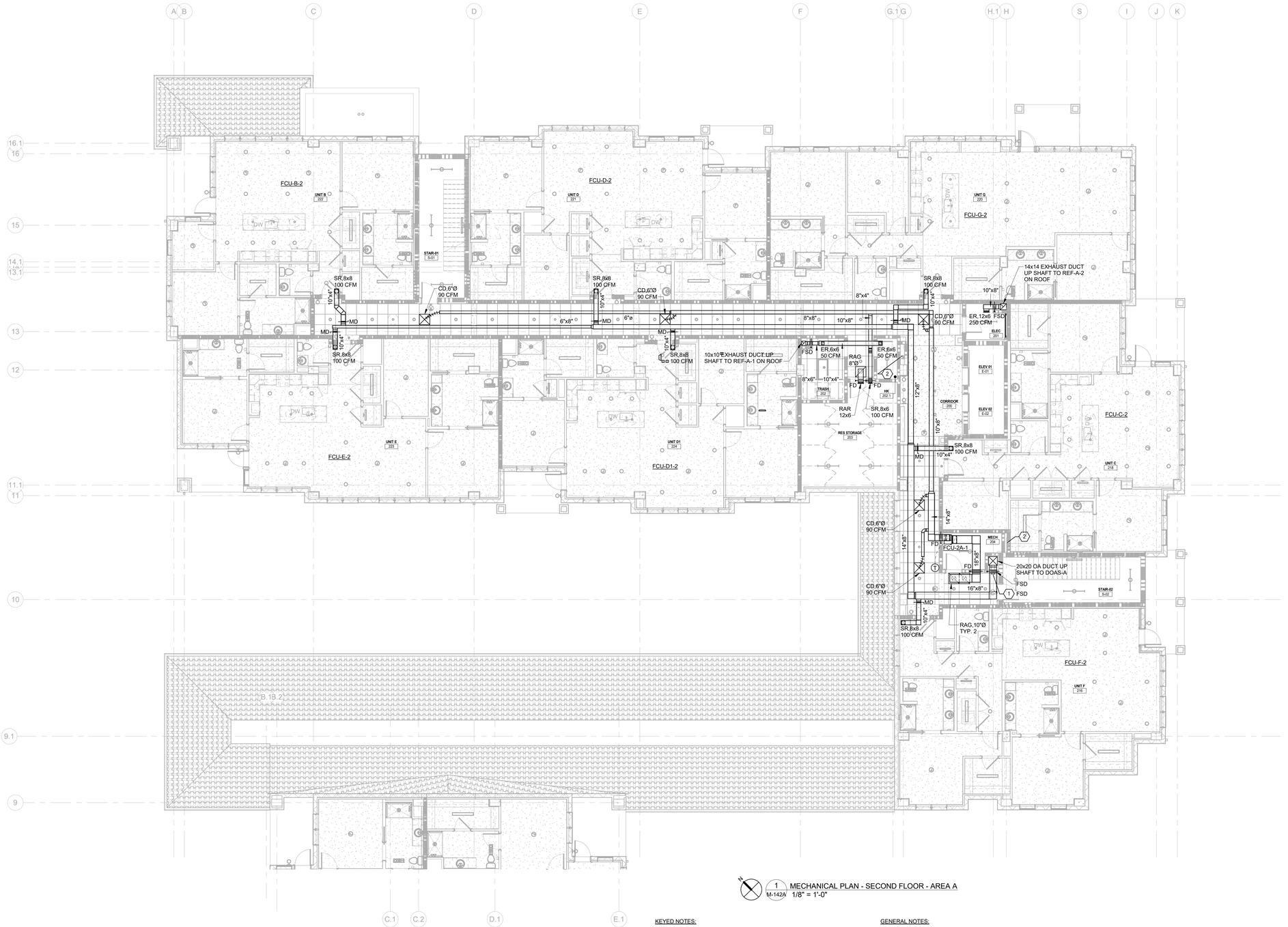
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-142A MECHANICAL PLAN - SECOND FLOOR - AREA A
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 100 CFM, BELOW THE 16x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL, STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
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3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

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Date: 12/01/2025

MECHANICAL PLAN - SECOND FLOOR - AREA A

M-142A

Salas O'Brien
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Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

1 M-142B MECHANICAL PLAN - SECOND FLOOR - AREA B
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 110 CFM, BELOW THE 14x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK, SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

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3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

NO.	DATE	DESCRIPTION
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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - SECOND FLOOR - AREA B

M-142B

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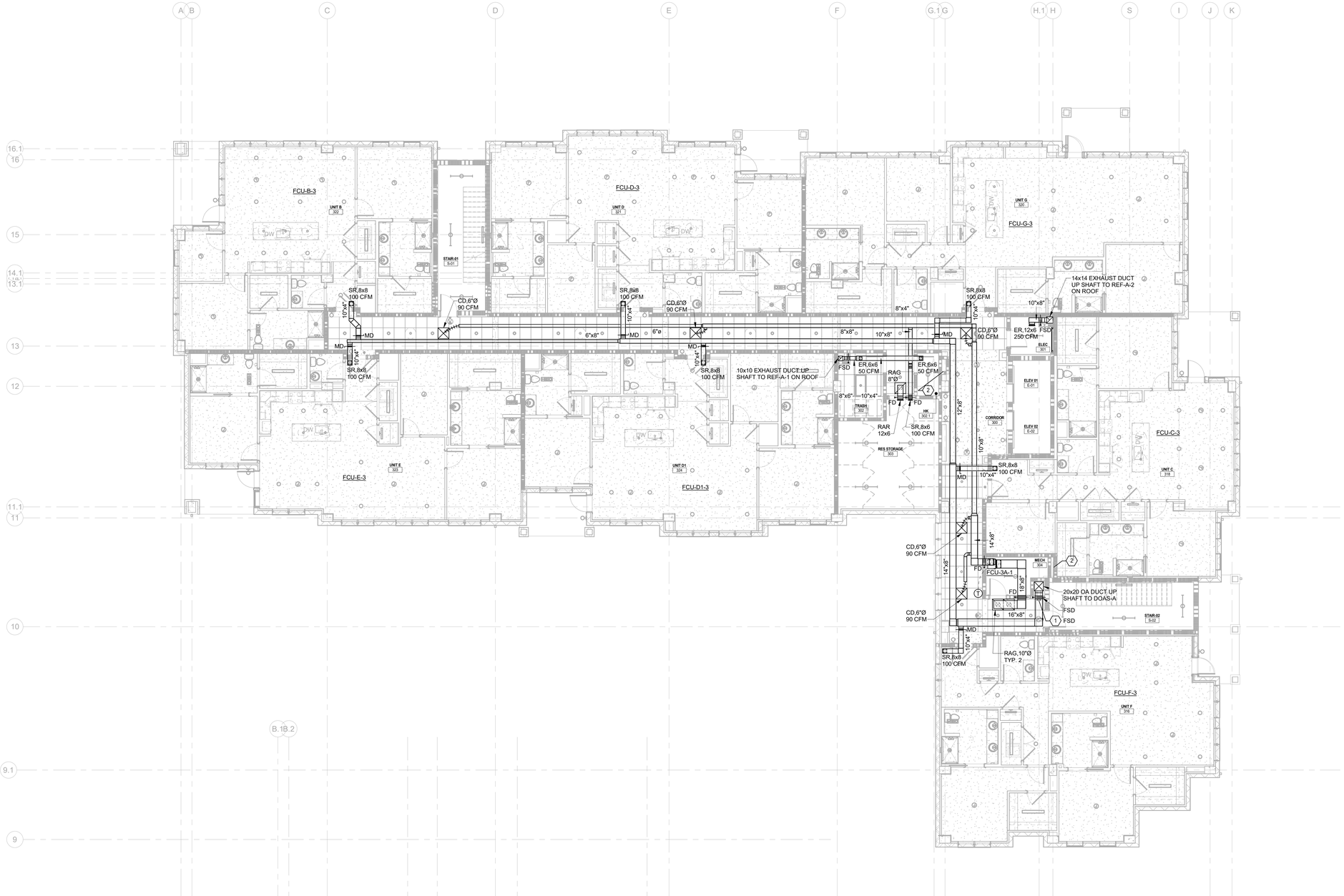
Atlanta, GA 30339

Project Number: 2024-03276



1 M-143A MECHANICAL PLAN - THIRD FLOOR - AREA A
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 100 CFM. BELOW THE 16x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
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3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
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601 UNIVERSE BLVD. JUNO BEACH, FL 33408

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - THIRD FLOOR - AREA A

M-143A

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3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

1 M-143B MECHANICAL PLAN - THIRD FLOOR - AREA B
1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x6 SR AND VOLUME DAMPER BALANCED TO 110 CFM, BELOW THE 14x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

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   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

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ISSUED FOR CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - THIRD FLOOR - AREA B

M-143B

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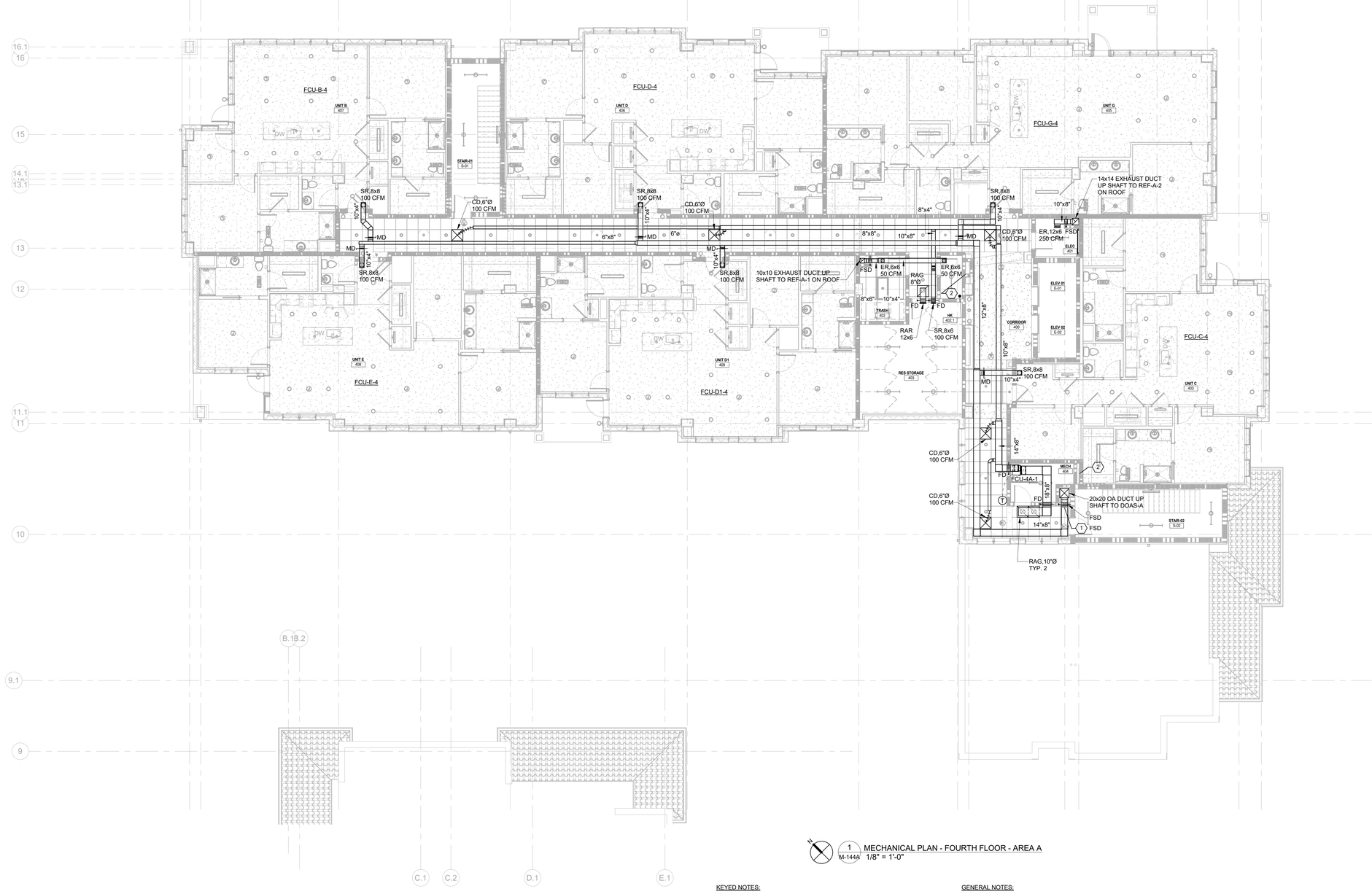
Atlanta, GA 30339

Project Number: 2024-03276



1 MECHANICAL PLAN - FOURTH FLOOR - AREA A
M-144A 1/8" = 1'-0"

KEYED NOTES:

1. OUTSIDE AIR TO CORRIDOR TO BE PROVIDED VIA A SEPARATE FSD WITH 8x8 SR AND VOLUME DAMPER BALANCED TO 100 CFM, BELOW THE 16x8 OUTSIDE AIR DUCT SERVING DWELLING UNITS AND TIGHT TO UNDERSIDE OF CEILING.
2. CONTINUOUS REFRIGERANT PIPING FROM FCUs TO BE ROUTED UP THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.

GENERAL NOTES:

1. DUCTWORK PENETRATING RATED PARTITIONS OR SHAFTS SHALL BE PROVIDED AS REQUIRED* WITH FIRE DAMPERS (FD) OR FIRE/SMOKE DAMPERS (FSD) WITH ACCESS DOORS IN DUCTWORK. SEE PLANS FOR LOCATIONS. PROVIDE ACCESS PANELS IN CEILINGS WHERE DAMPERS ARE INACCESSIBLE ON BOTH SIDES OF WALL.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4, FIRE DAMPERS ARE NOT REQUIRED AT 1HR-RATED FIRE PARTITIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND IS CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

   * PER THE EXCEPTION TO 2023 FLORIDA BUILDING CODE, BUILDING, SECTION 717.5.4.1, SMOKE DAMPERS ARE NOT REQUIRED AT CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
2. OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE DOAS UNIT TO THE AIR OUTLET TERMINALS.
3. EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE EXHAUST FAN TO THE AIR OUTLET TERMINAL.
4. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.

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IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHUTTER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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THW DESIGN

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - FOURTH FLOOR - AREA A

M-144A

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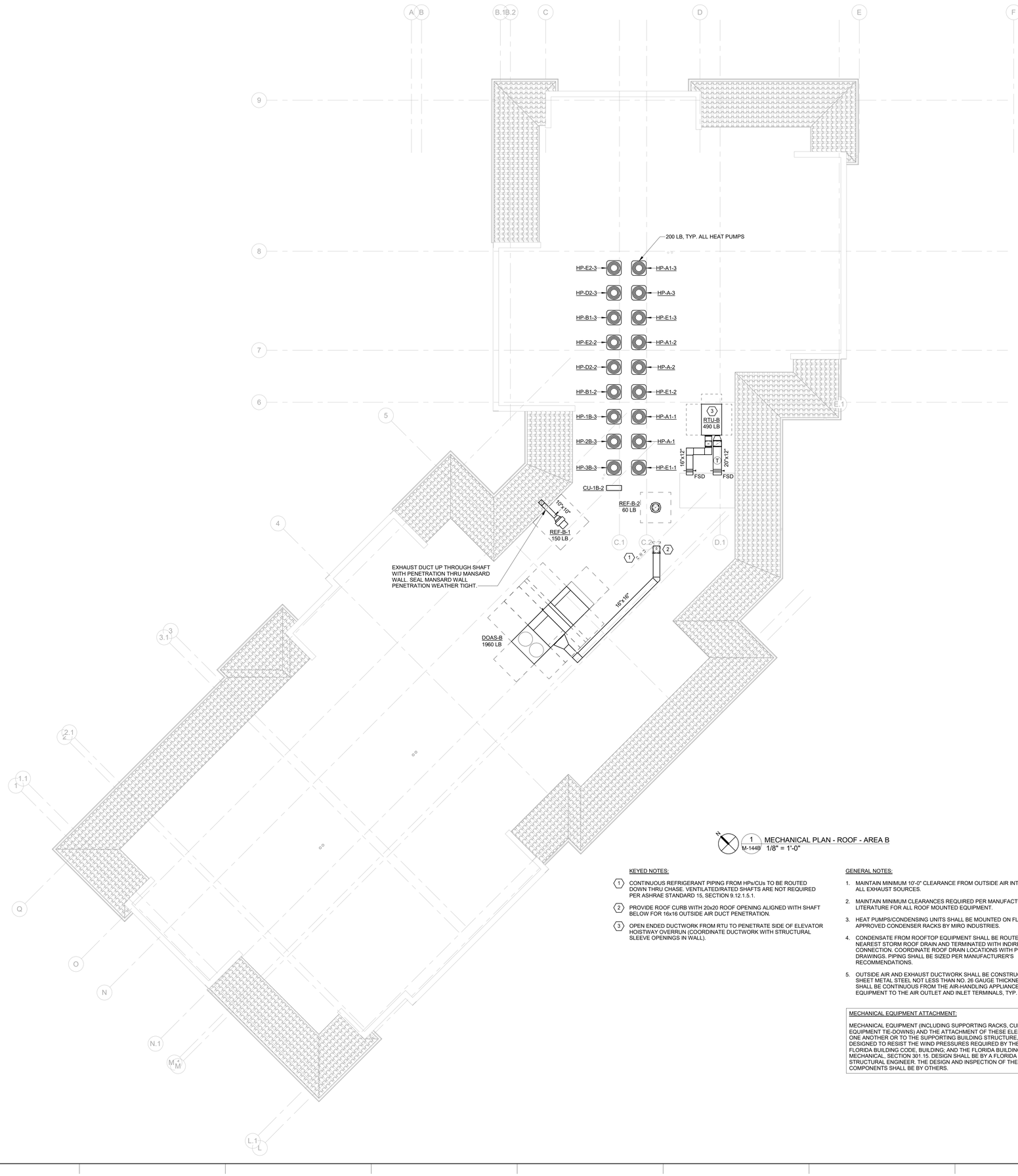
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 2:27:18 PM



1 M-144B MECHANICAL PLAN - ROOF - AREA B
1/8" = 1'-0"

KEYED NOTES:

1. CONTINUOUS REFRIGERANT PIPING FROM HPs/CUs TO BE ROUTED DOWN THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
2. PROVIDE ROOF CURB WITH 20x20 ROOF OPENING ALIGNED WITH SHAFT BELOW FOR 16x16 OUTSIDE AIR DUCT PENETRATION.
3. OPEN ENDED DUCTWORK FROM RTU TO PENETRATE SIDE OF ELEVATOR HOISTWAY OVERRUN (COORDINATE DUCTWORK WITH STRUCTURAL SLEEVE OPENINGS IN WALL).

GENERAL NOTES:

1. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES TO ALL EXHAUST SOURCES.
2. MAINTAIN MINIMUM CLEARANCES REQUIRED PER MANUFACTURER'S LITERATURE FOR ALL ROOF MOUNTED EQUIPMENT.
3. HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON FLORIDA APPROVED CONDENSER RACKS BY MIRO INDUSTRIES.
4. CONDENSATE FROM ROOFTOP EQUIPMENT SHALL BE ROUTED TO NEAREST STORM ROOF DRAIN AND TERMINATED WITH INDIRECT CONNECTION. COORDINATE ROOF DRAIN LOCATIONS WITH PLUMBING DRAWINGS. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
5. OUTSIDE AIR AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS, TYP. ALL.

MECHANICAL EQUIPMENT ATTACHMENT:

MECHANICAL EQUIPMENT (INCLUDING SUPPORTING RACKS, CURBS, AND EQUIPMENT TIE-DOWNS) AND THE ATTACHMENT OF THESE ELEMENTS TO ONE ANOTHER OR TO THE SUPPORTING BUILDING STRUCTURE, SHALL BE DESIGNED TO RESIST THE WIND PRESSURES REQUIRED BY THE 2023 FLORIDA BUILDING CODE, BUILDING, AND THE FLORIDA BUILDING CODE, MECHANICAL, SECTION 301.15. DESIGN SHALL BE BY A FLORIDA LICENSED STRUCTURAL ENGINEER. THE DESIGN AND INSPECTION OF THESE COMPONENTS SHALL BE BY OTHERS.

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IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHAFFER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
12-1-25
Digitally signed by Daniel Shaffer
Date: 2025.12.01 15:58:33-05'00'

THW DESIGN

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MECHANICAL PLAN - ROOF - AREA B

M-144B

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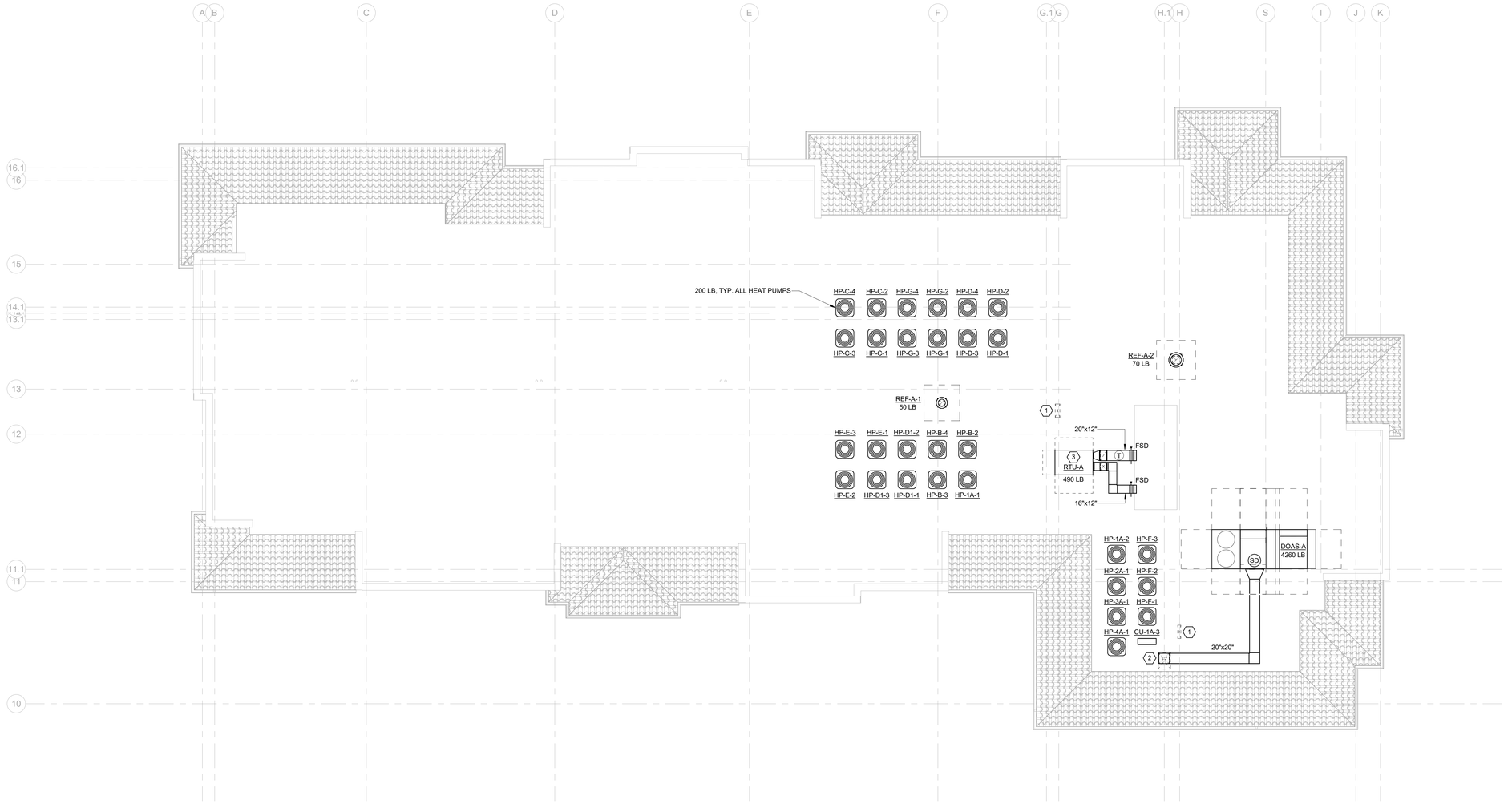
Atlanta, GA 30339

Project Number: 2024-03276



1 MECHANICAL PLAN - ROOF - AREA A
M-145A 1/8" = 1'-0"

KEYED NOTES:

1. CONTINUOUS REFRIGERANT PIPING FROM HPs/CUs TO BE ROUTED DOWN THRU CHASE. VENTILATED/RATED SHAFTS ARE NOT REQUIRED PER ASHRAE STANDARD 15, SECTION 9.12.1.5.1.
2. PROVIDE ROOF CURB WITH 24x24 ROOF OPENING ALIGNED WITH SHAFT BELOW FOR 20x20 OUTSIDE AIR DUCT PENETRATION.
3. OPEN ENDED DUCTWORK FROM RTU TO PENETRATE SIDE OF ELEVATOR HOISTWAY OVERRUN (COORDINATE DUCTWORK WITH STRUCTURAL SLEEVE OPENINGS IN WALL).

GENERAL NOTES:

1. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES TO ALL EXHAUST SOURCES.
2. MAINTAIN MINIMUM CLEARANCES REQUIRED PER MANUFACTURER'S LITERATURE FOR ALL ROOF MOUNTED EQUIPMENT.
3. HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON FLORIDA APPROVED CONDENSER RACKS BY MIRO INDUSTRIES.
4. CONDENSATE FROM ROOFTOP EQUIPMENT SHALL BE ROUTED TO NEAREST STORM ROOF DRAIN AND TERMINATED WITH INDIRECT CONNECTION. COORDINATE ROOF DRAIN LOCATIONS WITH PLUMBING DRAWINGS. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
5. OUTSIDE AIR AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL STEEL NOT LESS THAN NO. 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS, TYP. ALL.

MECHANICAL EQUIPMENT ATTACHMENT:

MECHANICAL EQUIPMENT (INCLUDING SUPPORTING RACKS, CURBS, AND EQUIPMENT TIE-DOWNS) AND THE ATTACHMENT OF THESE ELEMENTS TO ONE ANOTHER OR TO THE SUPPORTING BUILDING STRUCTURE, SHALL BE DESIGNED TO RESIST THE WIND PRESSURES REQUIRED BY THE 2023 FLORIDA BUILDING CODE, BUILDING; AND THE FLORIDA BUILDING CODE, MECHANICAL, SECTION 301.15. DESIGN SHALL BE BY A FLORIDA LICENSED STRUCTURAL ENGINEER. THE DESIGN AND INSPECTION OF THESE COMPONENTS SHALL BE BY OTHERS.

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IL BUILDING
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MECHANICAL PLAN - ROOF - AREA A

M-145A

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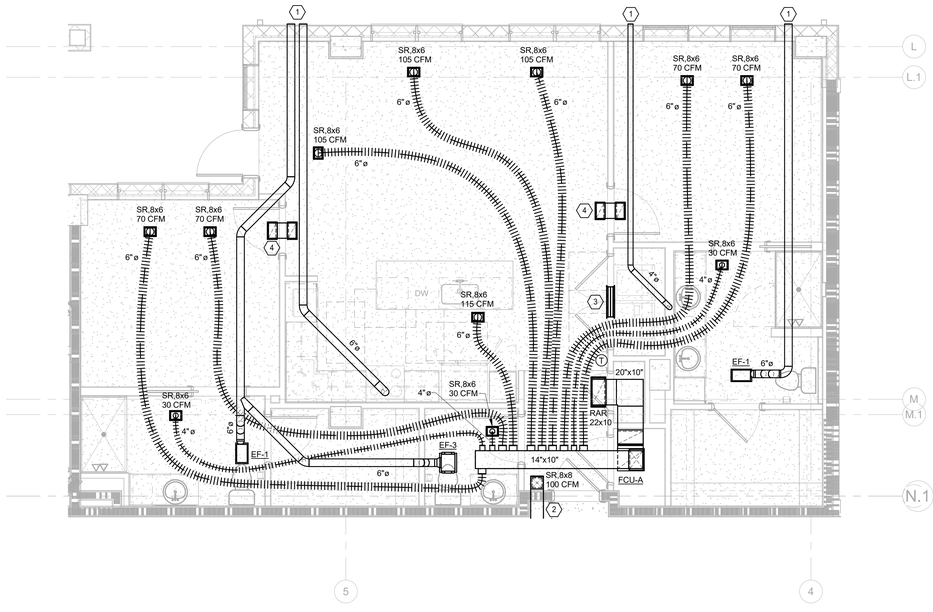
Project Number: 2024-03276



1 M-470 MECHANICAL PLAN - UNIT A
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH OUTLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

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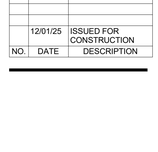
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408



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Date: 12/01/2025

MECHANICAL PLAN - UNIT A

M-470

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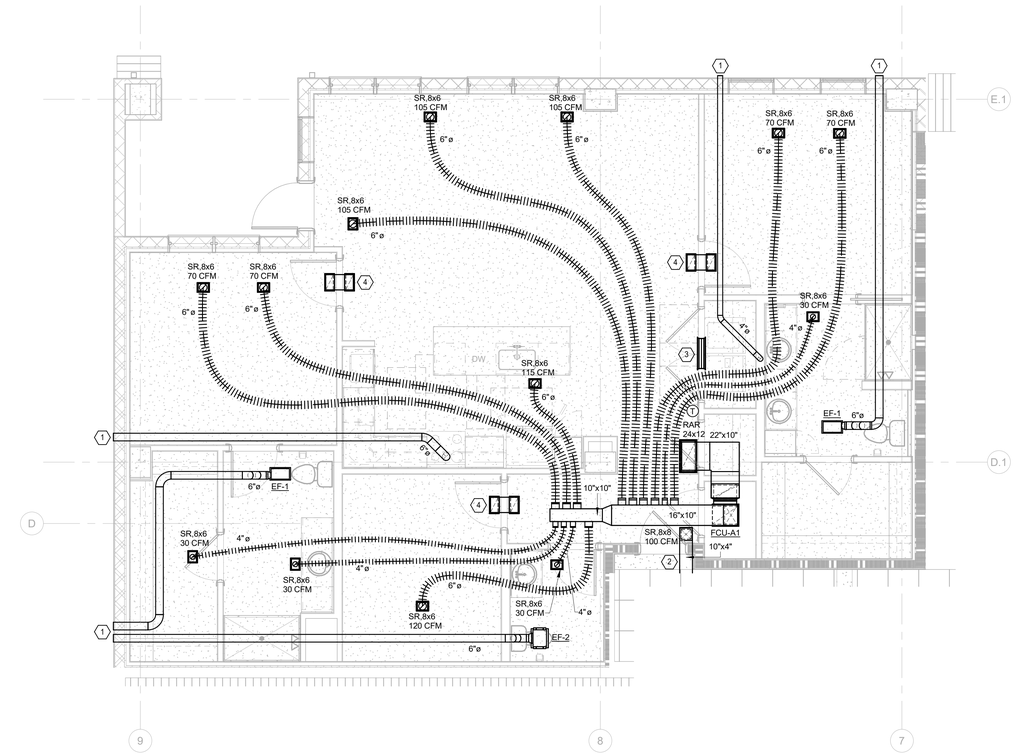
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-471 MECHANICAL PLAN - UNIT A1
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT OUTLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

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WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SMITTER
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MECHANICAL PLAN - UNIT A1

M-471

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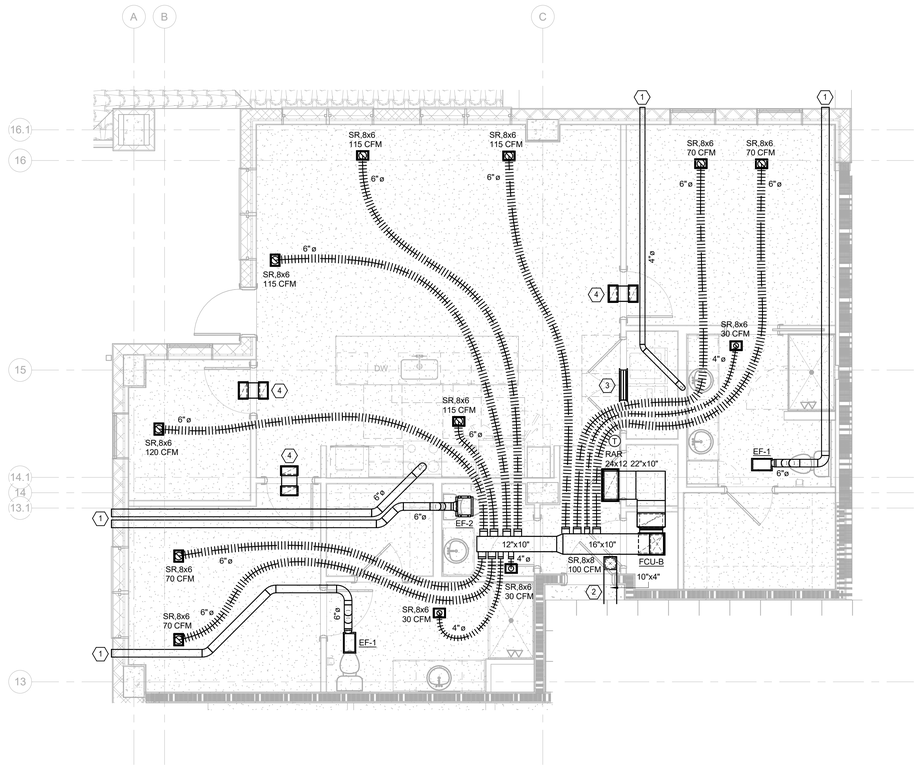
Atlanta, GA 30339

Project Number: 2024-03276



1 M-472 MECHANICAL PLAN - UNIT B
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT OUTLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

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IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHRATTER
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MECHANICAL PLAN - UNIT B

M-472

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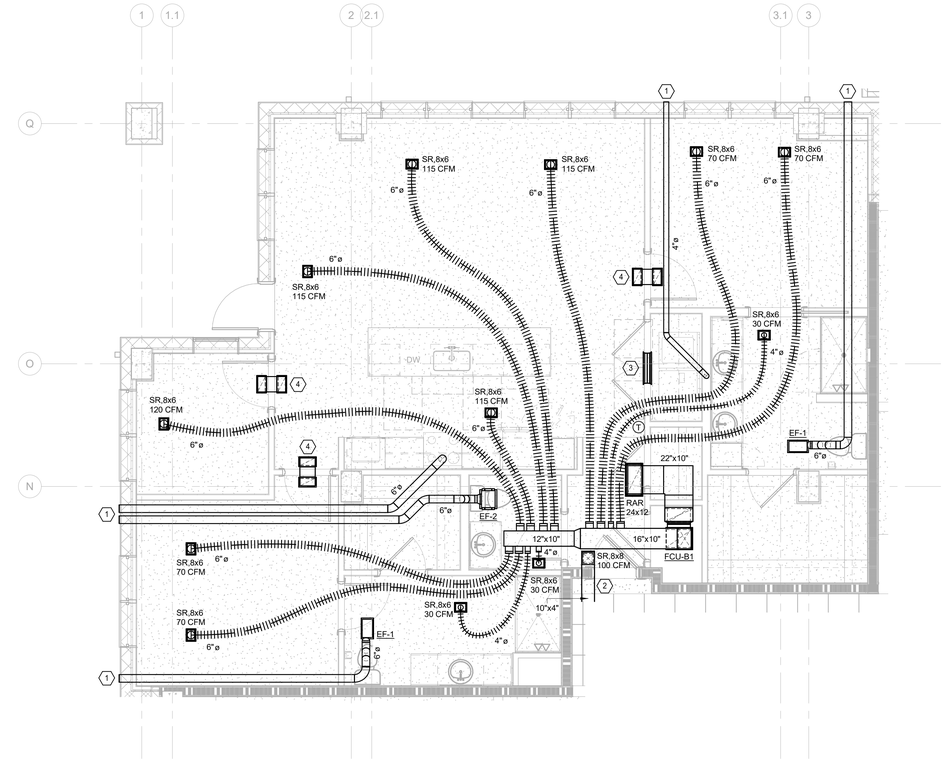
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-473 MECHANICAL PLAN - UNIT B1
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X-VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT OUTLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHELTON
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Date: 12/01/2025

MECHANICAL PLAN - UNIT B1

M-473

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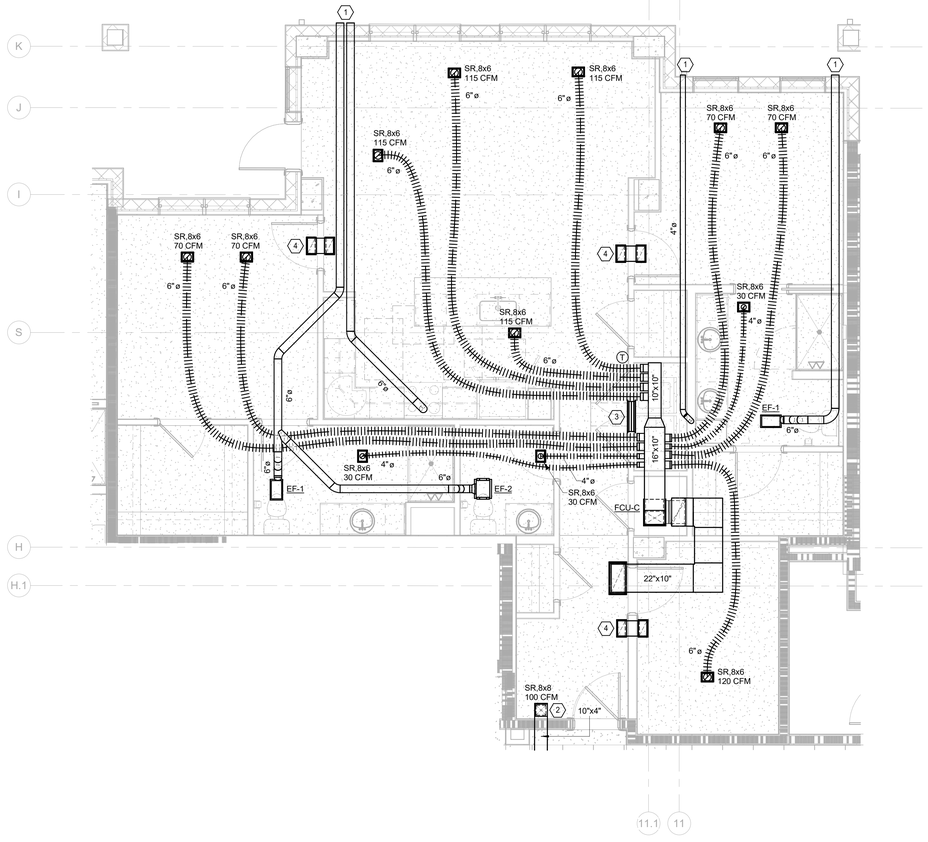
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 2:27:49 PM



1 M-474 MECHANICAL PLAN - UNIT C
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH OUTLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT INLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

NO.	DATE	DESCRIPTION
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IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHRATTER
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MECHANICAL PLAN - UNIT C

M-474

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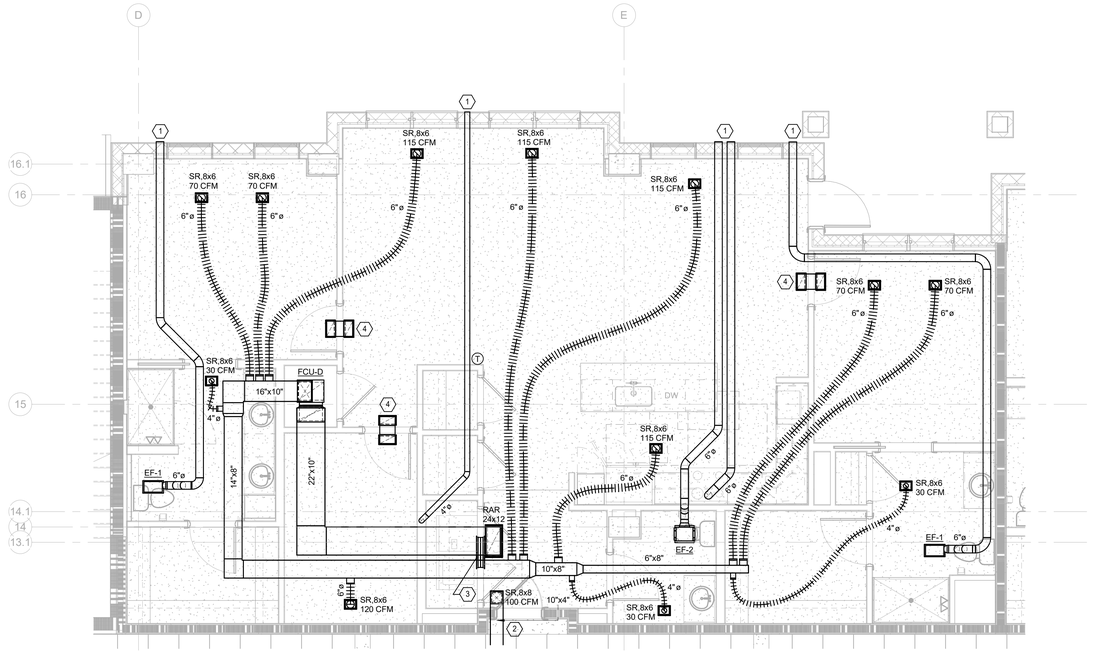
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-475 MECHANICAL PLAN - UNIT D
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT OUTLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHELTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Daniel Shelter
Date: 2025.12.01 15:18:10 -05'00'

THW DESIGN

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT D

M-475

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Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

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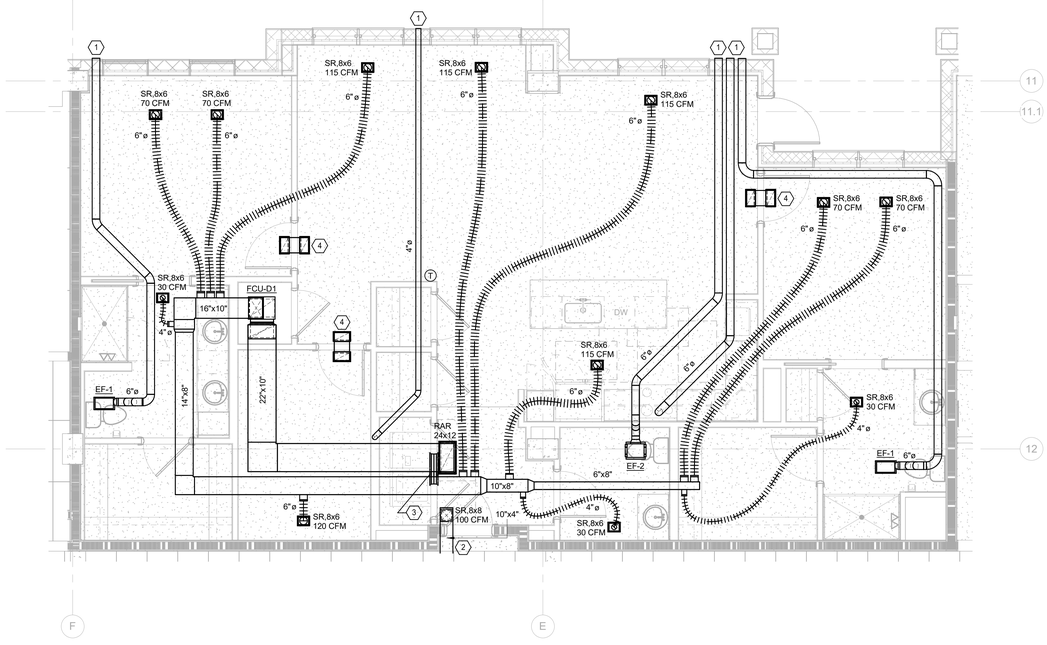

1 M-476 MECHANICAL PLAN - UNIT D1
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

1. EXHAUST DUCT(S) TO TERMINATE AT BUILDING EXTERIOR AT 9'-9" CENTERLINE ELEVATION VIA WALL CAP WITH BACKDRAFT DAMPER. X VENT BOX WITH SINGLE OR DOUBLE INLET. REMOVE INSECT SCREEN FOR DRYER EXHAUST DUCT OUTLET. COORDINATE FINISH AND INSTALLATION WITH ARCHITECT.
2. OUTSIDE AIR SUPPLIED TO DWELLING UNIT VIA DOAS UNIT. PROVIDE MANUAL VOLUME DAMPER AT BRANCH DUCT TAKEOFF FROM TRUNK DUCT IN CORRIDOR.
3. (2) 24x8 RAR TRANSFER LOCATED 2" ABOVE DOOR ON BOTH SIDES OF WALL.
4. (2) 12x6 RAR TRANSFER LOCATED IN CEILING ON BOTH SIDES OF WALL WITH 12x6 BOOT.

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IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SCHAITER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12-1-25
Digitally signed by Daniel Benjamin Schaiter
Date: 2025.12.03 15:18:10-05'00'

THW
DESIGN

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Atlanta, GA 30328

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FAX: 770 916 2299

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT D1

M-476

Salas O'Brien
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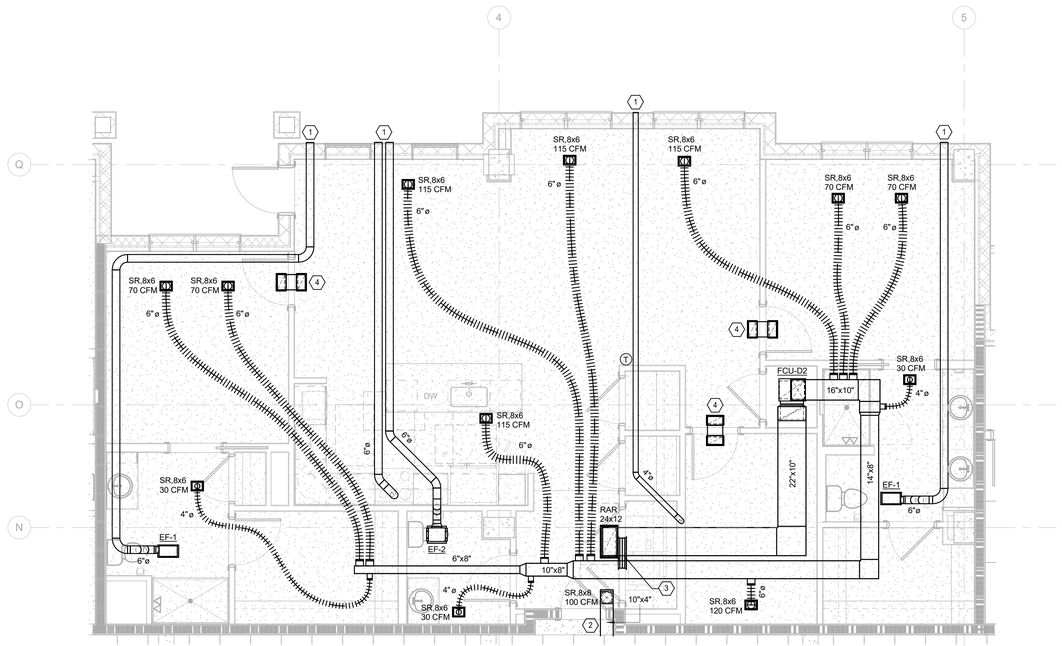
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 MECHANICAL PLAN - UNIT D2
M-477 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
2. ROUTE CONDENSATE FROM FAN COIL UNITS (FCU) TO STORM FLOOR DRAIN IN MECHANICAL CLOSET AND TERMINATE WITH INDIRECT CONNECTION. PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
3. PROVIDE ANGLE BOOTS SIMILAR TO CROWN MODEL 243 FOR SUPPLY REGISTERS (SR) WITH FLEX DUCT CONNECTIONS, WITH INLET CONNECTION TO MATCH SIZE OF FLEX DUCT NOTED ON PLANS.
4. REFER TO OVERALL FLOOR PLANS FOR EXACT NAMING CONVENTION AND LOCATION OF DWELLING FAN COIL UNITS. FCU-(UNIT)-(FLOOR).

KEYED NOTES:

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WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHORTER — LICENSE — No. 94288 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
Digitally signed by Daniel Shorter
Date: 2025.12.02 15:09:00 GMT-05'00'

THW DESIGN

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT D2

M-477

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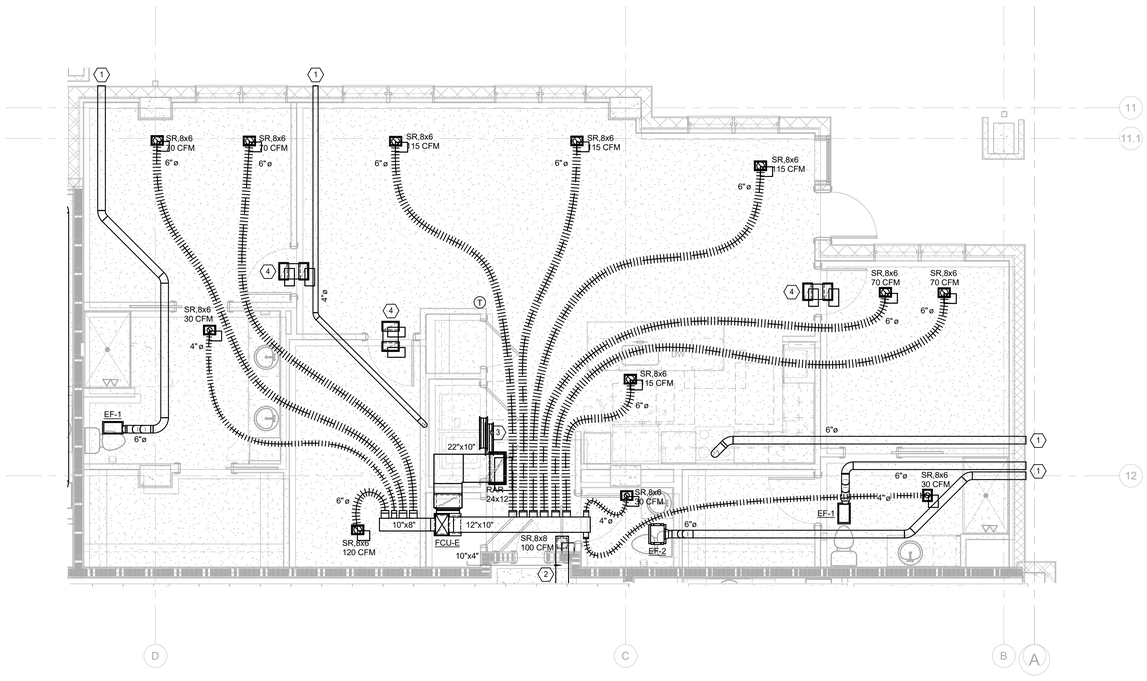
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 MECHANICAL PLAN - UNIT E
M-478 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
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KEYED NOTES:

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	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHOLTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Daniel Sholter
Date: 2025.12.02 15:19:10 -05'00'

THW DESIGN

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Suite 900
Atlanta, GA 30328

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT E

M-478

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Atlanta
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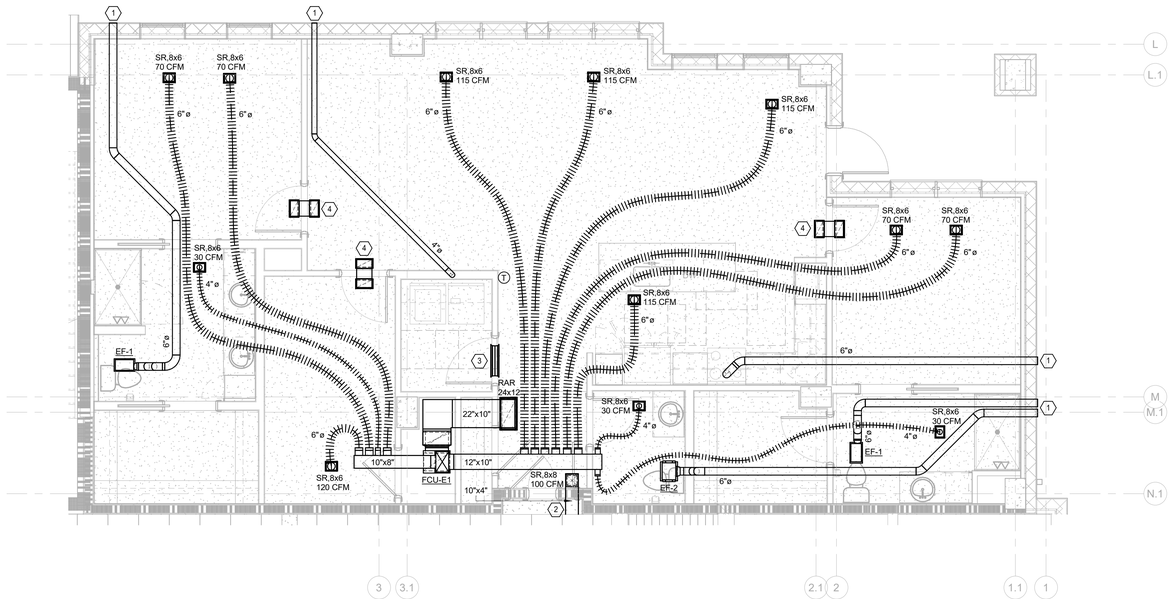
Atlanta, GA 30339

Project Number: 2024-03276



1 M-479 MECHANICAL PLAN - UNIT E1
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
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WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHRATTER LICENSE No. 94288 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Daniel Benjamin Shratter
Date: 2025.12.02 15:19:07-06'00'

THW DESIGN

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT E1

M-479

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Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

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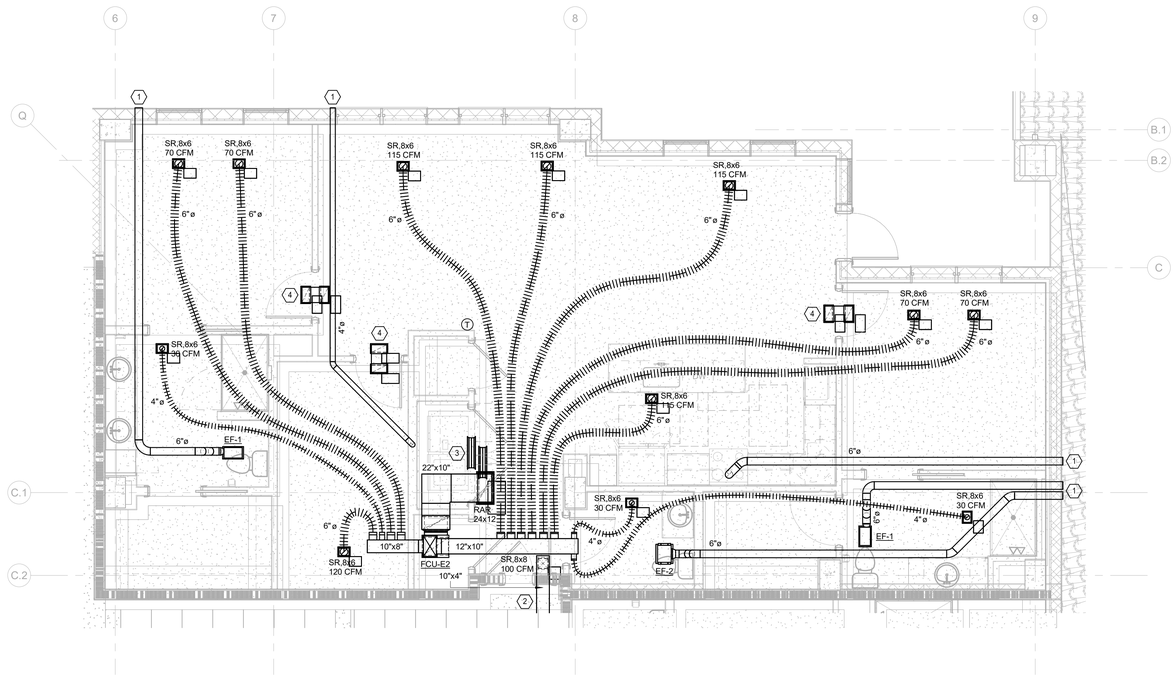

1 M-480 MECHANICAL PLAN - UNIT E2
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
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NO.	DATE	DESCRIPTION
	12/01/25	ISSUED FOR CONSTRUCTION

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SMALTER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12-1-25
Digitally signed by Daniel Smalter
Date: 2025.12.01 15:59:10 -05'00'

THW DESIGN

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FAX: 770 916 2299

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT E2

M-480

Salas O'Brien

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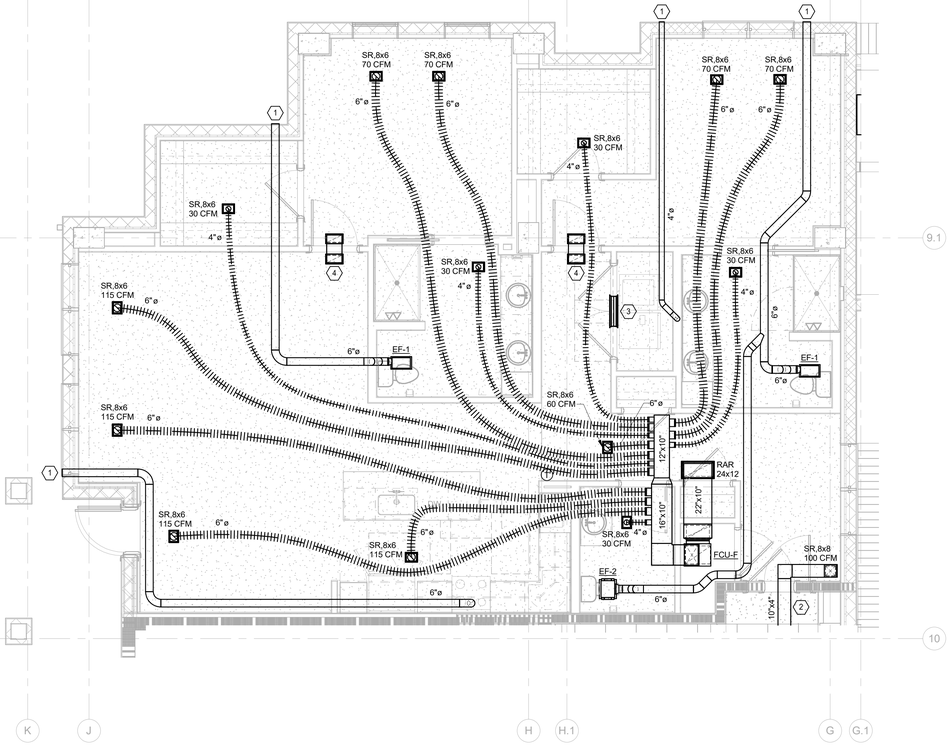
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-481 MECHANICAL PLAN - UNIT F
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
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KEYED NOTES:

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NO.	DATE	DESCRIPTION
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WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHUTTER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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Date: 2025.12.02 15:19:13-05'00'

THW
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Date: 12/01/2025

MECHANICAL PLAN - UNIT F

M-481

Salas O'Brien
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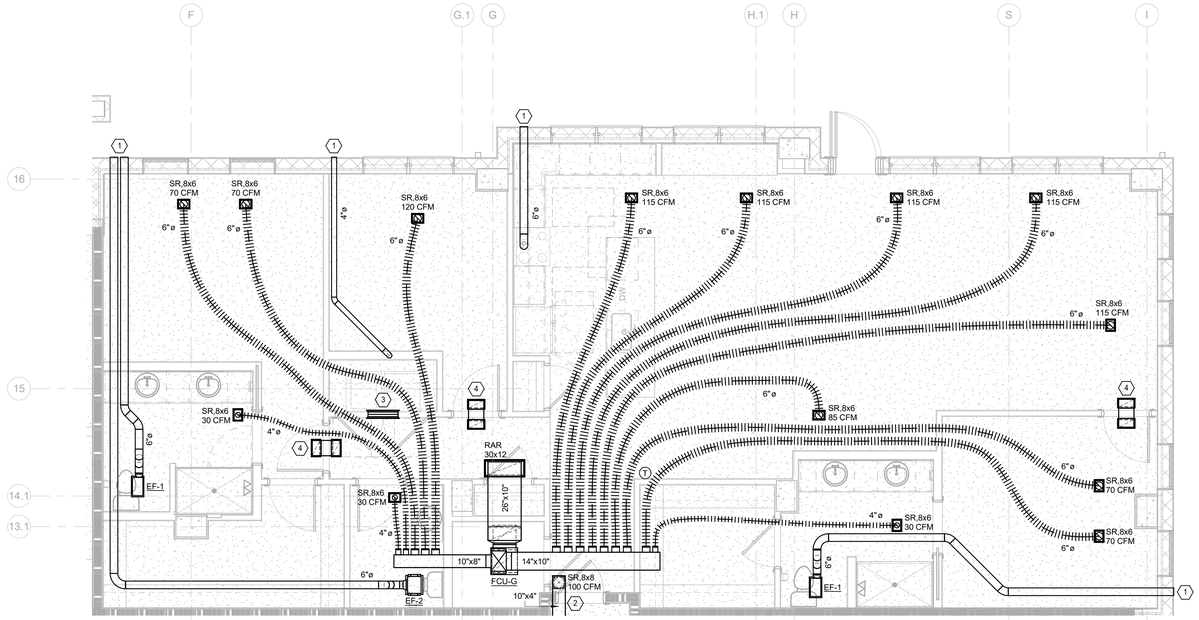
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276



1 M-482 MECHANICAL PLAN - UNIT G
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL PLACE LABEL THAT STATES THE EQUIVALENT DRYER LENGTH IS WITHIN THE MAXIMUM LENGTH DESCRIBED BY THE DRYER CUTSHEETS. LABEL SHALL BE LOCATED WITHIN 6' OF THE DRYER DUCT CONNECTION. ALL DRYERS ARE ANTICIPATED TO HAVE EXTENDED LENGTH VENTING CAPABILITY.
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NO.	DATE	DESCRIPTION
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WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408

DANIEL BENJAMIN SHORTER
LICENSE
No. 94288
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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Date: 2025.12.03 15:59:16-05'00'

THW DESIGN

2100 RiverEdge Parkway
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FAX: 770 916 2299

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Project No.: 2021009
Date: 12/01/2025

MECHANICAL PLAN - UNIT G

M-482

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Atlanta, GA 30339

Project Number: 2024-03276

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