GENERAL NOTES:

1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL HVAC WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
3. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS, WALLS, FLOORS, ETC., AS REQUIRED TO MAINTAIN ACCESSIBILITY TO VALVES, DAMPERS, TRAPS, COILS, ETC.
4. PROVIDE DUCT ACCESS DOORS AT ALL MOTORIZED DAMPERS, FIRE DAMPERS, AND SMOKE DAMPERS.
5. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
6. ALL DUCTWORK PASSING THROUGH A FIRE RATED PARTITION SHALL BE PROVIDED WITH A FIRE DAMPER TO MAINTAIN THE FIRE RATING OF THE PARTITION.
7. LOCATIONS OF DIFFUSERS AND GRILLES ARE APPROXIMATE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
8. ALL BRANCHES AND TAKE-OFFS SHALL BE EQUIPPED WITH VOLUME CONTROL DAMPERS. DAMPERS TO BE OPPOSED BLADE TYPE, 4" MAX. BLADE HEIGHT. VOLUME DAMPERS TO BE LOCATED AS NEAR TO THE POINT OF TAKE-OFF AS PRACTICAL.
9. FLEXIBLE DUCT CONNECTIONS SHALL BE LIMITED TO A MAXIMUM LENGTH OF FIVE (5) FEET AND SUPPORTED AT MID-POINT.
10. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INSULATED.
11. PROVIDE SHUT-OFF VALVES AT ALL PIPING BRANCH TAKE-OFFS AND AT ALL CONNECTIONS TO EQUIPMENT.
12. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH POINTS.
13. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
14. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
15. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EXPANSION LOOPS AS NECESSARY IN ALL SUPPLY AND RETURN PIPING TO PROTECT PIPES AND STRUCTURE FROM DAMAGE DUE TO THERMAL EXPANSION AND CONTRACTION IN PIPES.
17. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
18. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EXPANSION LOOPS AS NECESSARY IN ALL SUPPLY AND RETURN PIPING TO PROTECT PIPES AND STRUCTURE FROM DAMAGE DUE TO THERMAL EXPANSION AND CONTRACTION IN PIPES.
20. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
21. IT IS THE INTENTION THAT THESE SPECIFICATIONS, AND DRAWINGS ACCOMPANYING SAME, SHALL PROVIDE FOR THE FURNISHING AND INSTALLING OF THE () SYSTEMS COMPLETE AS SPECIFIED AND SHOWN. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY WORK CHANGES WHICH MAY BE EVIDENTLY NECESSARY TO COMPLETE THE INSTALLATION SHALL BE FURNISHED BY THIS CONTRACTOR.
22. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS, APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS CONTRACTOR.
23. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

HVAC LINE TYPES

	NEW EQUIPMENT / DUCT
ATV	ATMOSPHERIC VENT
BBD	BOILER BLOWDOWN
BR	BRINE RETURN
B	BRINE SUPPLY
CHVR	CHILLED WATER RETURN
CHVS	CHILLED WATER SUPPLY
A	COMPRESSED AIR
CD	CONDENSATE DRAIN
CVR	CONDENSER WATER RETURN
CVS	CONDENSER WATER SUPPLY
DTVR	DUAL TEMP. WATER RETURN
DTVS	DUAL TEMP. WATER SUPPLY
FILL	FILL LINE
FOD	FUEL OIL DISCHARGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
HPVR	HEAT PUMP WATER RETURN
HPVS	HEAT PUMP WATER SUPPLY
HPR	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HTVR	HIGH TEMP HOT WATER RETURN
HTVS	HIGH TEMP HOT WATER SUPPLY
H	HUMIDIFICATION LINE
LPG	LP GAS SUPPLY
LPR	LOW PRESSURE CONDENSATE RETURN
LPC	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LVR	LOW TEMPERATURE HOT WATER RETURN
LVS	LOW TEMPERATURE HOT WATER SUPPLY
MU	MAKEUP WATER
MPR	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTVR	MEDIUM TEMP HOT WATER RETURN
MTVS	MEDIUM TEMP HOT WATER SUPPLY
G	NATURAL GAS LINE
PC	PUMPED CONDENSATE
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
VAC	VACUUM LINE
VPD	VACUUM PUMP DISCHARGE

GAS PIPING NOTES:

1. PLACEMENT OF GAS TRANSMISSION AND DISTRIBUTION LINES WITHIN CERTAIN DISTANCES OF SCHOOL BUILDINGS IS REGULATED BY THE PUBLIC SERVICE COMMISSION CODES, RULES & REGULATIONS NYCRR PART 255 AND BY THE FEDERAL DEPARTMENT OF TRANSPORTATION, PART 192.
2. GAS PRESSURE WITHIN BUILDING SHALL NOT EXCEED 1/2 PSIG. PRIOR TO CONNECTION TO GAS SERVICE. ALL INDOOR ABOVE GROUND GAS PIPING (NOT COATED OR WRAPPED) SHALL BE TESTED WITH AIR PRESSURE AT 15 PSIG FOR A PERIOD OF 1 HOUR WITH NO LOSS IN PRESSURE. ALL COATED OR WRAPPED GAS PIPING SHALL BE TESTED W/AIR PRESSURE AT 100 PSIG FOR A MINIMUM OF 1 HOUR WITH NO LOSS IN PRESSURE.
3. COORDINATE INSTALLATION AND FINAL CONNECTION OF GAS LINES WITH KITCHEN CONTRACTOR & G.C.
4. ALL GAS PIPING SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, AS WELL AS NFPA-54.
5. GAS PIPING UNDER SLABS, AND CROSSING CORRIDORS SHALL HAVE GAS TIGHT VENTED SLEEVES. (VENTED DIRECTLY AND INDEPENDENTLY TO THE OUTDOORS).
6. RELIEF VALVES AND NORMALLY OPEN VENT VALVES SHALL BE VENTED DIRECTLY AND INDEPENDENTLY TO THE OUTDOORS.
7. PRESSURE REGULATING & OVER PRESSURE PROTECTION DEVICES LOCATED OUTSIDE SCHOOL BUILDINGS SHALL ENCLOSED IN A CABINET OR FENCED OUTSIDE AREA OF DURABLE STRUCTURAL MATERIALS WHICH WILL WITHSTAND ANY LOADS TO WHICH THEY MAY BE SUBJECTED.
8. ALL GAS PIPING 3"ø & LARGER SHALL HAVE WELDED FITTINGS & CONNECTIONS. ALL GAS PIPING 2½" & SMALLER SHALL HAVE GAS-TIGHT THREADED CONNECTIONS w/ THREAD SEALANT APPROVED FOR NATURAL GAS SERVICE.
9. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR THE INSTALLATION OF THE NEW NATURAL GAS SERVICE TO BLDG. w/ LOCAL UTILITIES APPROXIMATELY THREE (3) WEEKS PRIOR TO START OF WORK. ALL GAS PIPING FROM MAIN UNDER STREET UP TO AND INCLUDING METER AT BLDG. SHALL BE BY UTILITY COMPANY. ALL TRENCHING, BEDDING & BACKFILL SHALL BE BY PLUMBING CONTRACTOR AS PER O&R REQUIREMENTS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GAS PIPING FROM CONNECTION OF METER OUTLET TO THROUGHOUT BLDG. AS PER PLANS, SPECIFICATIONS, NYS FUEL GAS CODE, NFPA-54, LOCAL CODES, AS WELL AS UTILITY COMPANY REQUIREMENTS. PLUMBING CONTRACTOR SHALL COORDINATE SCHEDULING REQUIREMENTS w/ SITE CONTRACTOR AS WELL. PLUMBING CONTRACTOR SHALL APPLY & OBTAIN ALL PERMITS REQUIRED & PAY ALL FEES.
10. ALL GAS PIPING PASSING THROUGH MASONRY WALLS SHALL BE SLEEVED w/ SCH. 80 PVC.
11. COORDINATE INSTALLATION OF GAS PIPING w/ALL OTHER TRADES PRIOR TO INSTALLATION.

DUCTWORK SYMBOLS

AxB	DUCTWORK DOUBLE LINE REPRESENTATION: "A" INDICATES DUCT WIDTH; "B" INDICATES DUCT DEPTH.
AxB	DUCTWORK SINGLE LINE REPRESENTATION: "A" INDICATES DUCT WIDTH; "B" INDICATES DUCT DEPTH.
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	FLEXIBLE DUCTWORK
	SUPPLY AIR FLOW
	RETURN/EXHAUST AIR FLOW
	VOLUME DAMPER
	MOTORIZED DAMPER w/ ACCESS DOOR
	FIRE DAMPER W/ ACCESS DOOR
	SUPPLY AIR TERMINAL
	RETURN/EXHAUST AIR TERMINAL
	EXHAUST AIR TERMINAL
D	DROP DUCT
R	RISE DUCT

PIPING SYMBOLS

	DIRECTION OF FLOW
	ANCHOR
	PIPE GUIDE
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	PIPE DOWN TURN
	PIPE RISE
	UNION
	DIRECTION OF PIPE PITCH (DOWN)

VALVE SYMBOLS

	GATE VALVE – THREADED/FLANGED
	GATE VALVE WITH 3/4" HOSE ADAPTER
	GLOBE VALVE – THREADED/FLANGED
	CHECK VALVE
	STRAINER
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CONTROL VALVE (CV) – FLOAT-OPERATED
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE REDUCING VALVE (PRV)
	TEMPERATURE & PRESSURE RELIEF VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	WATER FLOW MEASURING DEVICE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	TRIPLE DUTY VALVE
LC	WATER LEVEL CONTROLLER
M	FLOW METER
	COMBINATION BALANCING AND SHUT-OFF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	PLUG VALVE
	LUBRICATED PLUG VALVE

GENERAL SYMBOLS

	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	POINT OF DISCONNECT
X / XX	INDICATES SECTION LETTER INDICATES DRAWING NUMBER WHERE LOCATED
XXX / XXX	INDICATES TYPE OF AIR OUTLET INDICATES AIR FLOW REQUIREMENTS
	ADJUSTABLE ANGLE THERMOMETER
T	DIAL THERMOMETER
P	PRESSURE GAUGE WITH NEEDLE VALVE
T A	WALL MOUNT THERMOSTAT "A" DESIGNATES COMPONENT SERVED
TS	TEMPERATURE SENSOR
	PUMP
DS	DUCT SMOKE DETECTOR
SF	FAN SWITCH WITH PILOT LIGHT
U	DOOR UNDERCUT (BY G.C.)
L	LOUVERED DOOR (BY G.C.)

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACT	ACOUSTIC CEILING TILE
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING DEVICE
AHU	AIR HANDLING UNIT
A.L.D.	AUTOMATIC LOUVER DAMPER (PNEUMATIC)
AP	ACCESS PANEL
BDD	BACK DRAFT DAMPER
BG	BOTTOM GRILLE (WALL TYPE)
BR	BOTTOM REGISTER (WALL TYPE)
BTUH	BRITISH THERMAL UNITS/HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CLG	CEILING
CO	CLEAN OUT
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DRAIN
Db	DRY BULB TEMPERATURE, °F
dB	DECIBELS
DN	DOWN
DP	DIFFERENTIAL PRESSURE
Dp	DEW POINT TEMPERATURE, °F
DS	DUCT SMOKE DETECTOR
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMP
E.C.	ELECTRICAL CONTRACTOR
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EGW	ETHYLENE GLYCOL-WATER SOLUTION
EMD	END OF MAIN DRIP (STEAM)
ERC	ENERGY RECOVERY COIL
ERP	ELECTRIC RADIANT CEILING PANEL
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EXIST	EXISTING
F.A.I.	FRESH AIR INTAKE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLR	FLOOR
F.O.R.	FUEL OIL RETURN
F.O.S.	FUEL OIL SUPPLY
FPC	FIRE PROTECTION CONTRACTOR
F/SD	COMBINATION FIRE/SMOKE DAMPER
FTR	FIN TUBE RADIATION
G	NATURAL GAS PIPE
G.C.	GENERAL CONTRACTOR
GH	GRAVITY HOOD
GPM	GALLONS PER MINUTE
H.C.	HVAC CONTRACTOR
HF	HEPA FILTER
HP	HORSEPOWER
HRP	HYDRONIC RADIANT CEILING PANEL
HV	HEATING AND VENTILATING UNIT
IV	INLET VANES
LCD	LINEAR CEILING DIFFUSER
LFD	LAMINAR FLOW DIFFUSER
LF	LINEAR FEET
LPG	LP GAS PIPING
LPR	LOW PRESSURE STEAM CONDENSATE
LPS	LOW PRESSURE STEAM
LBS/HR	POUNDS PER HOUR
MB	MIXING BOX
MD	MOTORIZED DAMPER
MER	MECHANICAL EQUIPMENT ROOM
MAX.	MAXIMUM
MBH	ONE THOUSAND BTUH
MIN.	MINIMUM
NOM.	NOMINAL
OA	OUTSIDE AIR
P	PUMP
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP (FEET OF WATER)
PF	PRE-FILTER
PGW	PROPYLENE GLYCOL-WATER SOLUTION
PH	PREHEAT
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE IN.
RA	RETURN AIR
RF	RETURN FAN
RHC	REHEAT COIL
Rh	RELATIVE HUMIDITY
RPZ	REDUCED PRESSURE ZONE
SA	SUPPLY AIR
SD	SMOKE DAMPER
Sp. Gr.	SPECIFIC GRAVITY
SH	STEAM HUMIDIFIER
SP	STATIC PRESSURE
SPD	SPLITTER DAMPER
SPS	STATIC PRESSURE SENSOR
S.S.	STAINLESS STEEL
TG	TOP GRILLE (WALL TYPE)
TR	TOP REGISTER (WALL TYPE)
TWU	THRU WALL UNIT
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	VALVE
VD	VOLUME DAMPER
VE	VOLUME EXTRACTOR
VI	VIBRATION ISOLATOR
VIF	VERIFY IN FIELD
Wb	WET BULB TEMPERATURE, °F
WFM	WATER FLOW MEASURING DEVICE
WMS	WIRE MESH SCREEN

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MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/03/22	ISSUE FOR BID
1	07/22/22	ADDENDUM #1
	08/08/22	ISSUED FOR CONSTRUCTION

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Braemar at Montebello Assisted Living Residence

**Montebello Crossing,
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(Route 59)
Village of Montebello
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SHEET TITLE

**HVAC:
SYMBOLS, ABBREVIATIONS
& NOTES**

DRAWING No. **H0.1**

SHEET No. OF

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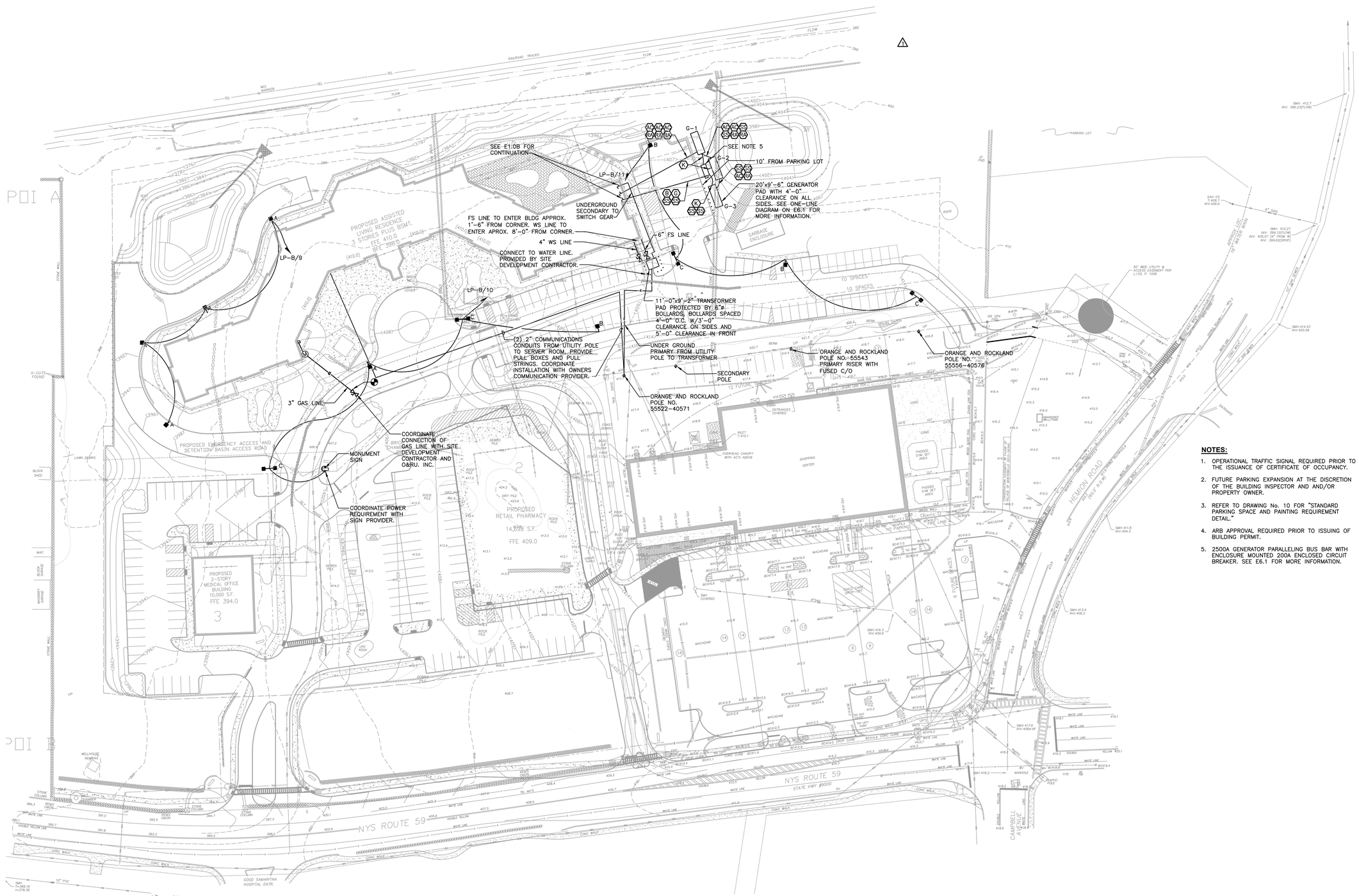

1 **MEP SITE PLAN**
SCALE: 1"=40'

NOTES:

1. OPERATIONAL TRAFFIC SIGNAL REQUIRED PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY.
2. FUTURE PARKING EXPANSION AT THE DISCRETION OF THE BUILDING INSPECTOR AND AND/OR PROPERTY OWNER.
3. REFER TO DRAWING No. 10 FOR "STANDARD PARKING SPACE AND PAINTING REQUIREMENT DETAIL."
4. ARB APPROVAL REQUIRED PRIOR TO ISSUING OF BUILDING PERMIT.
5. 2500A GENERATOR PARALLELING BUS BAR WITH ENCLOSURE MOUNTED 200A ENCLOSED CIRCUIT BREAKER. SEE E6.1 FOR MORE INFORMATION.

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SITE PLAN**

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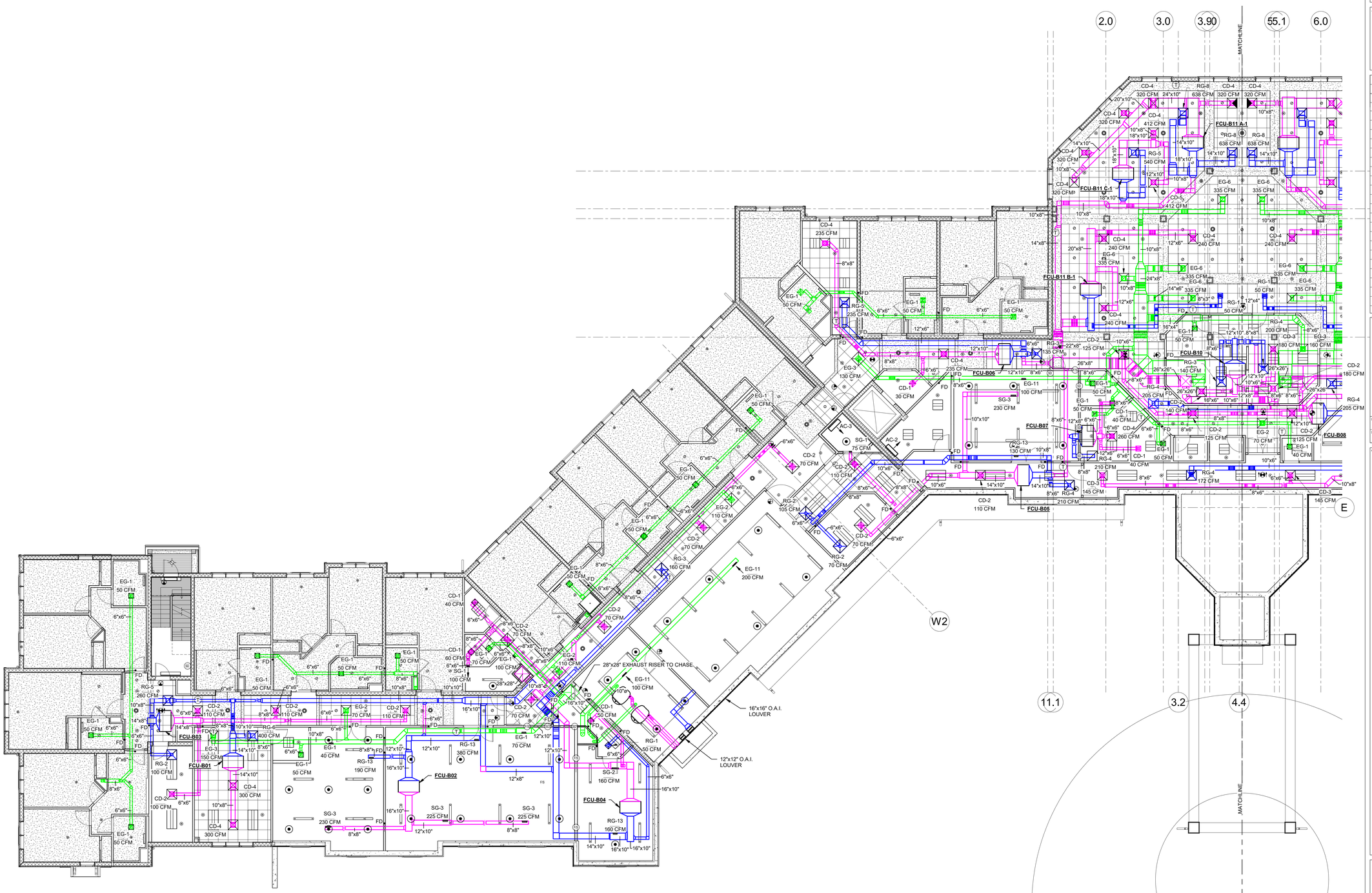

1 HVAC BASEMENT FLOOR DUCT & DIFFUSER PLAN - AREA A

SCALE: 1/8" = 1'-0"

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HVAC PARTIAL BASEMENT FLOOR DUCT & DIFFUSER PLAN - AREA A

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OF

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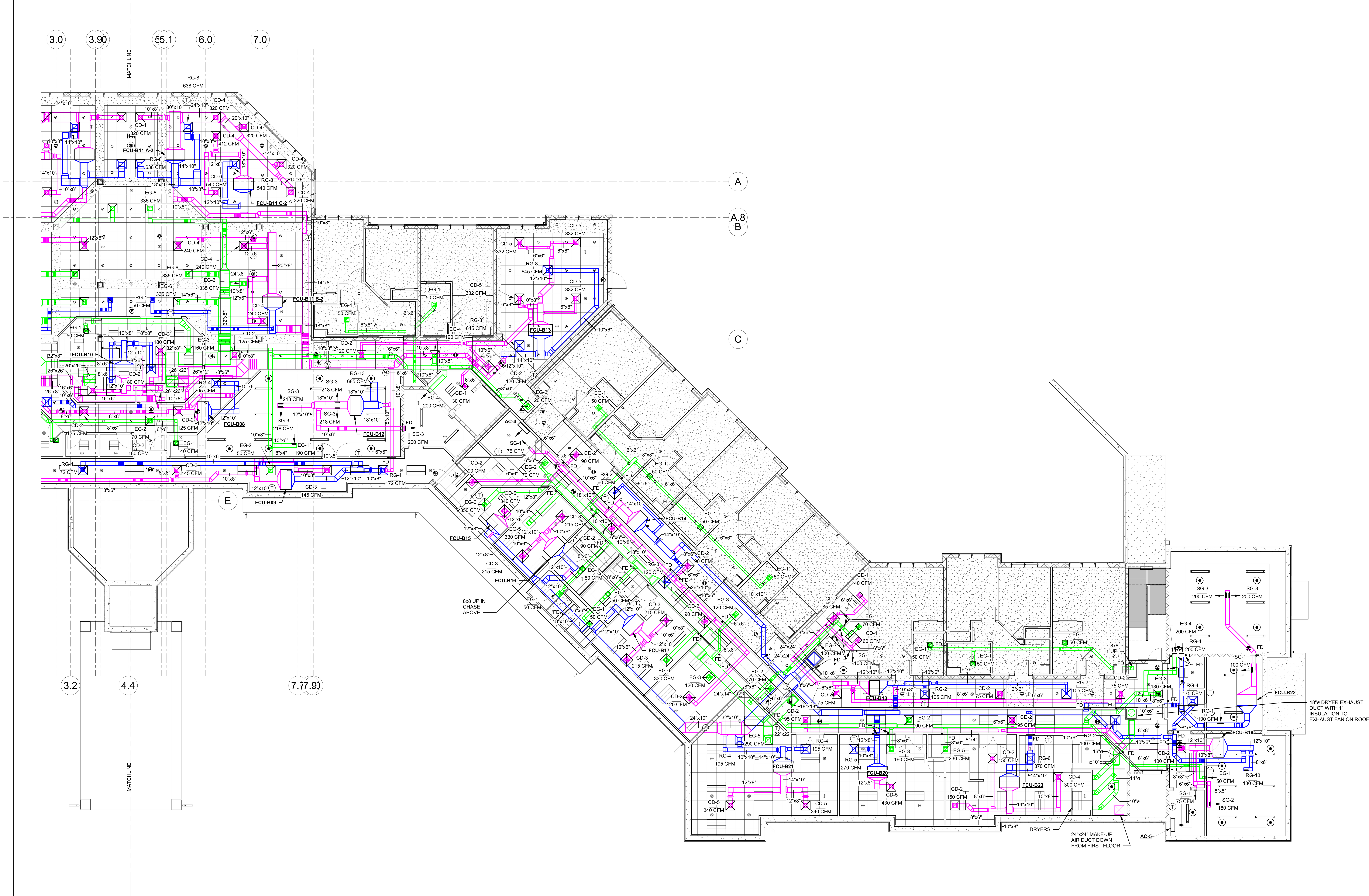

1 HVAC BASEMENT FLOOR DUCT & DIFFUSER PLAN - AREA B

SCALE: 1/8" = 1'-0"

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HVAC PARTIAL BASEMENT FLOOR DUCT & DIFFUSER PLAN - AREA B

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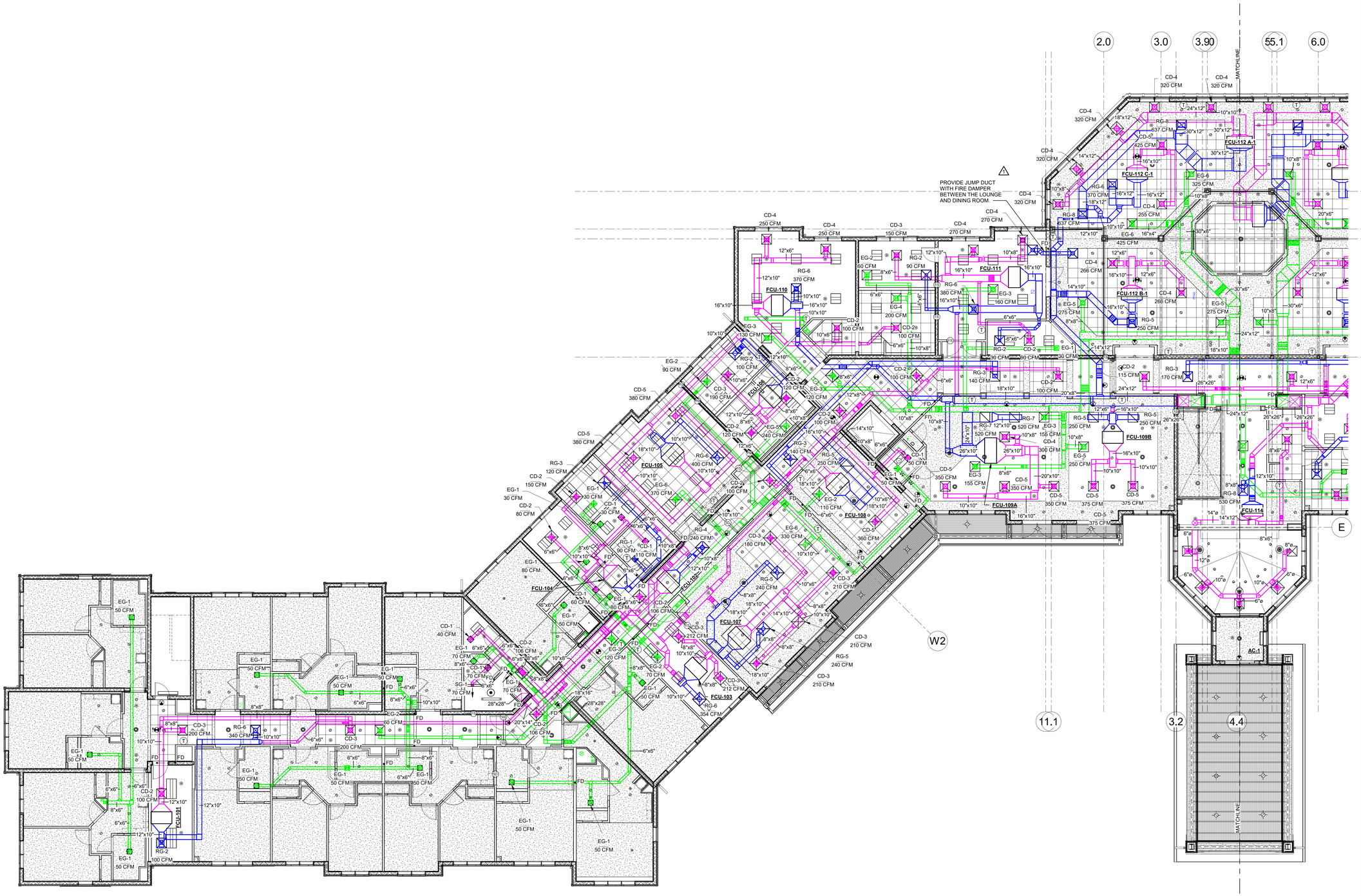
H2.0B

SHEET No.

OF



1 HVAC FIRST FLOOR DUCT & DIFFUSER PLAN - PART A

SCALE: 1/8" = 1'-0"

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Braemar at Montebello Assisted Living Residence

**Montebello Crossing,
250 Lafayette Avenue
(Route 59)
Village of Montebello
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CONTRACT

STATUS

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SHEET TITLE

HVAC PARTIAL FIRST FLOOR DUCT & DIFFUSER PLAN - AREA A

DRAWING No.

H2.1A

SHEET No.

OF

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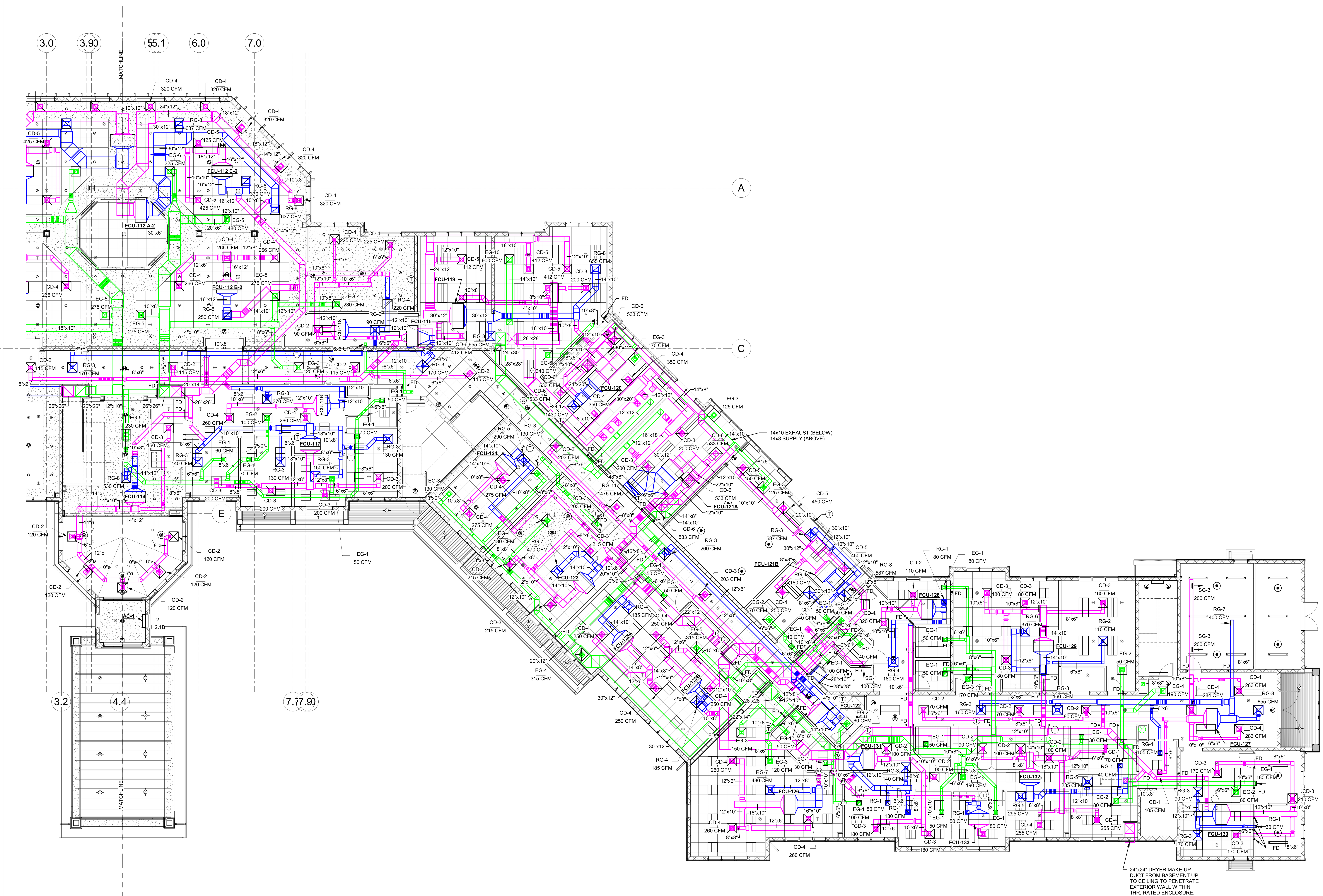

1 HVAC FIRST FLOOR DUCT & DIFFUSER PLAN - PART B

SCALE: 1/8" = 1'-0"

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Melville, NY 11747
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CONSULTANTS:

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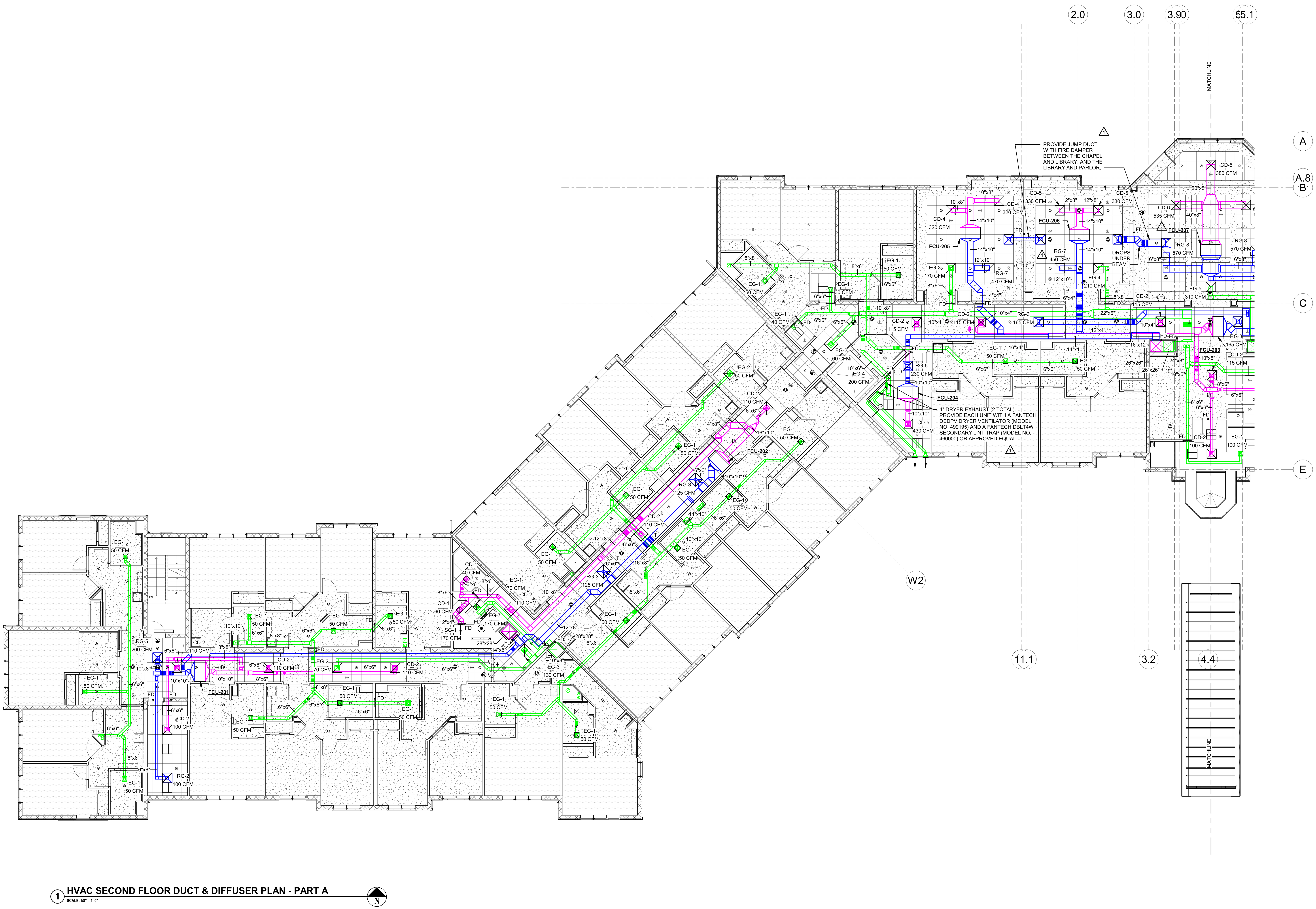

1 HVAC SECOND FLOOR DUCT & DIFFUSER PLAN - PART A

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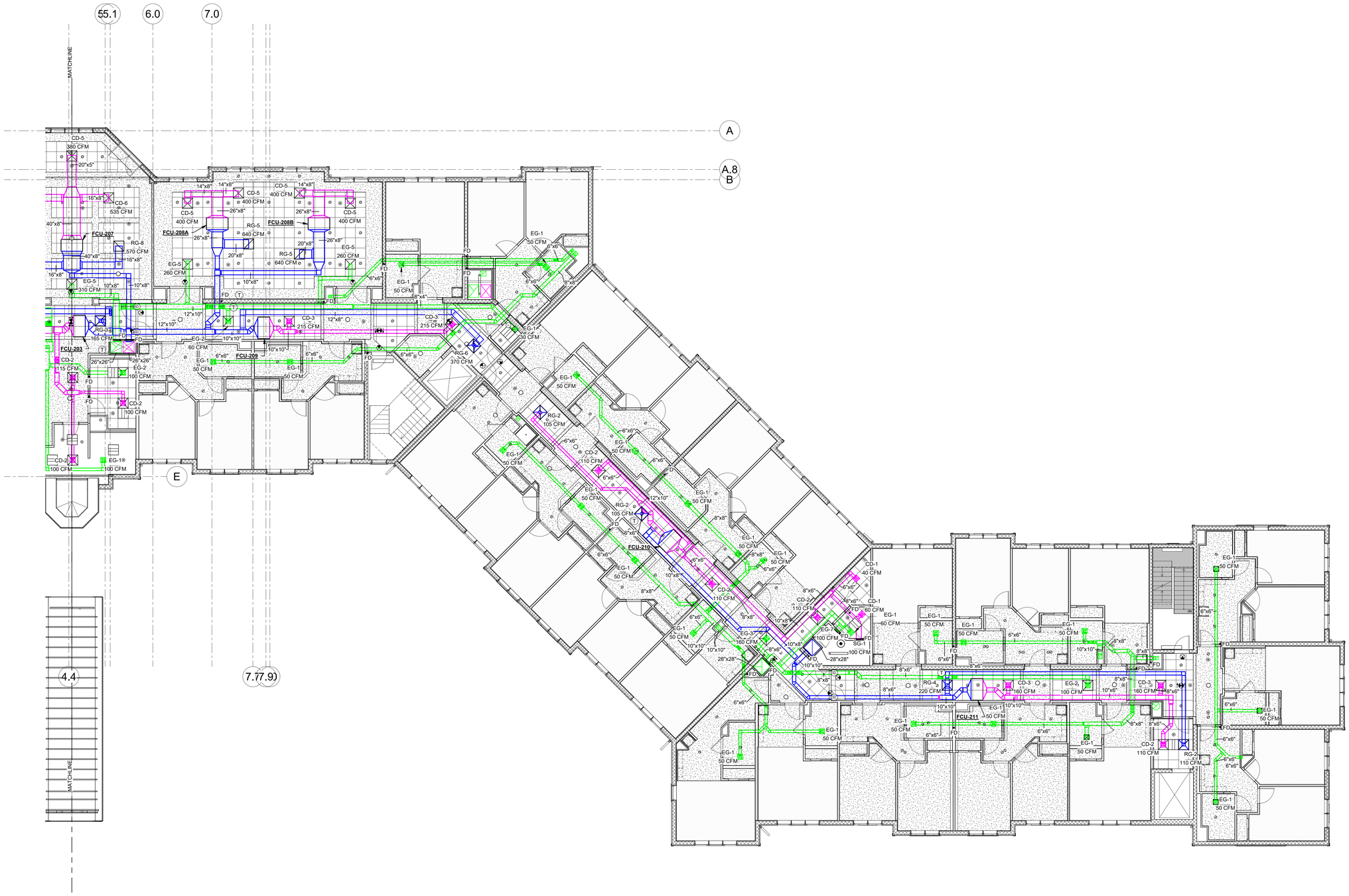

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SCALE: 1/8" = 1'-0"

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HVAC PARTIAL SECOND FLOOR DUCT & DIFFUSER PLAN - AREA B

DRAWING No.

H2.2B

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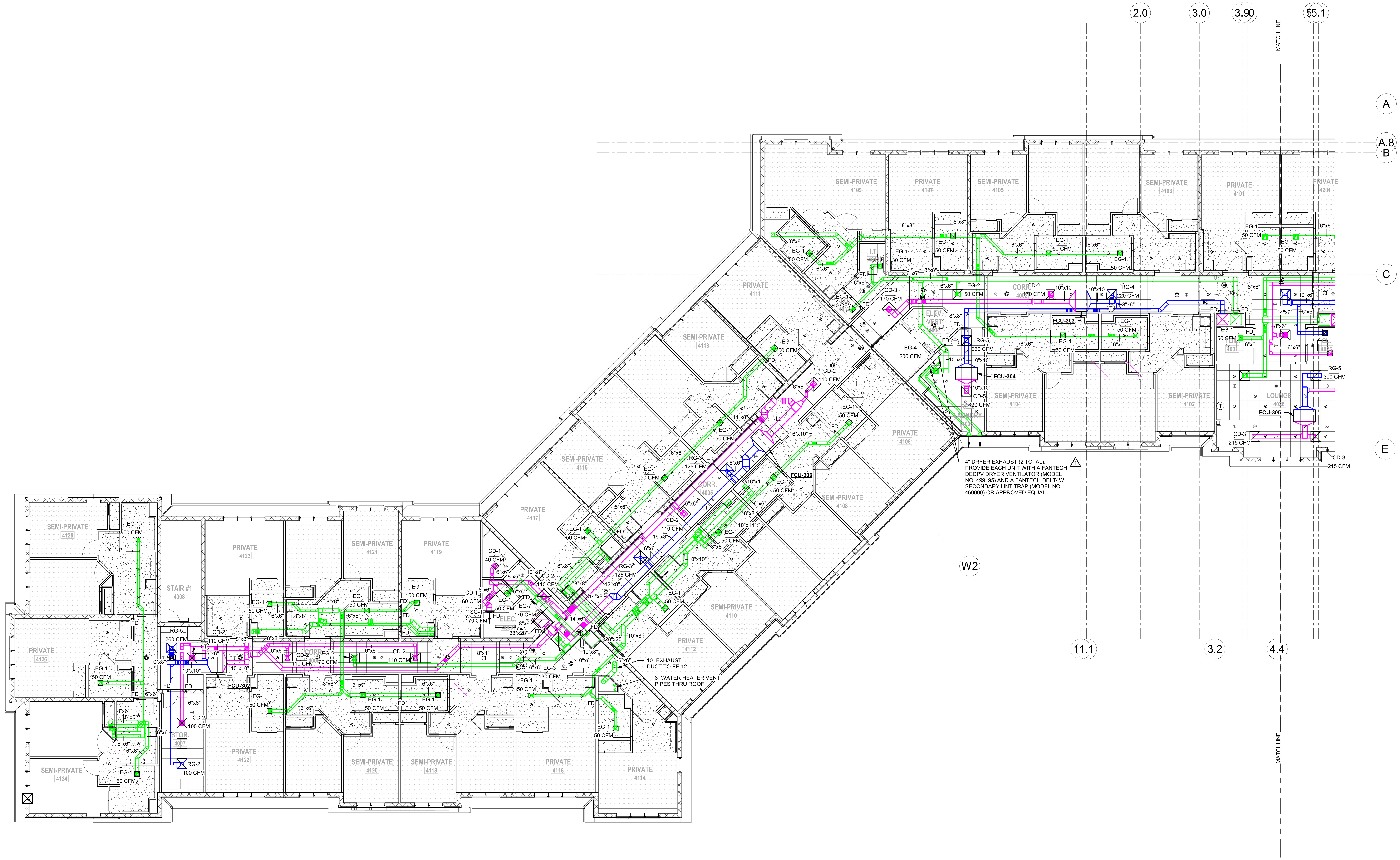

1 HVAC THIRD FLOOR DUCT & DIFFUSER PLAN - PART A

SCALE: 1/8" = 1'-0"

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HVAC PARTIAL THIRD FLOOR DUCT & DIFFUSER PLAN - AREA A

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H2.3A

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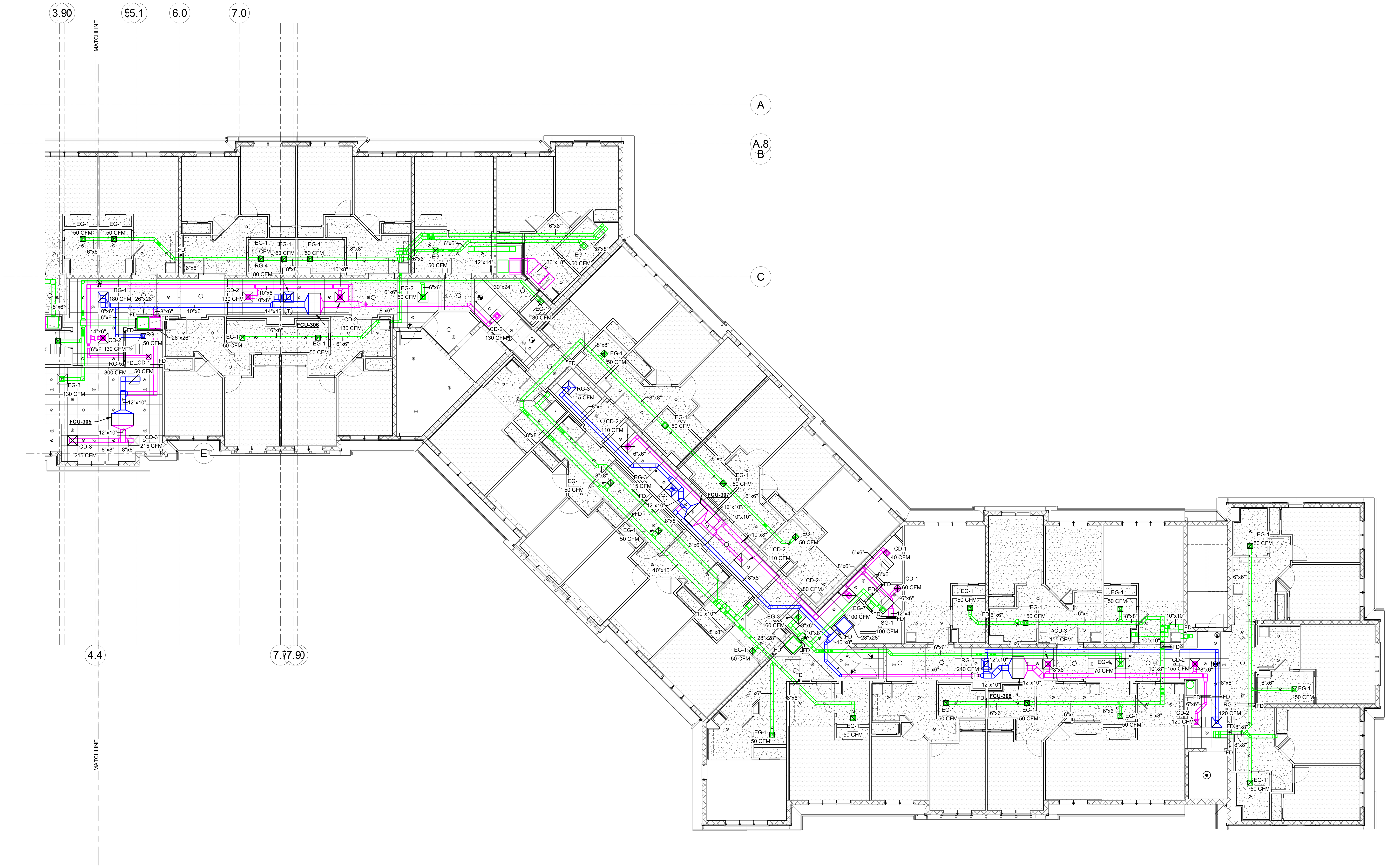

1 HVAC THIRD FLOOR DUCT & DIFFUSER PLAN - PART B

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HVAC PARTIAL THIRD FLOOR DUCT & DIFFUSER PLAN - AREA B

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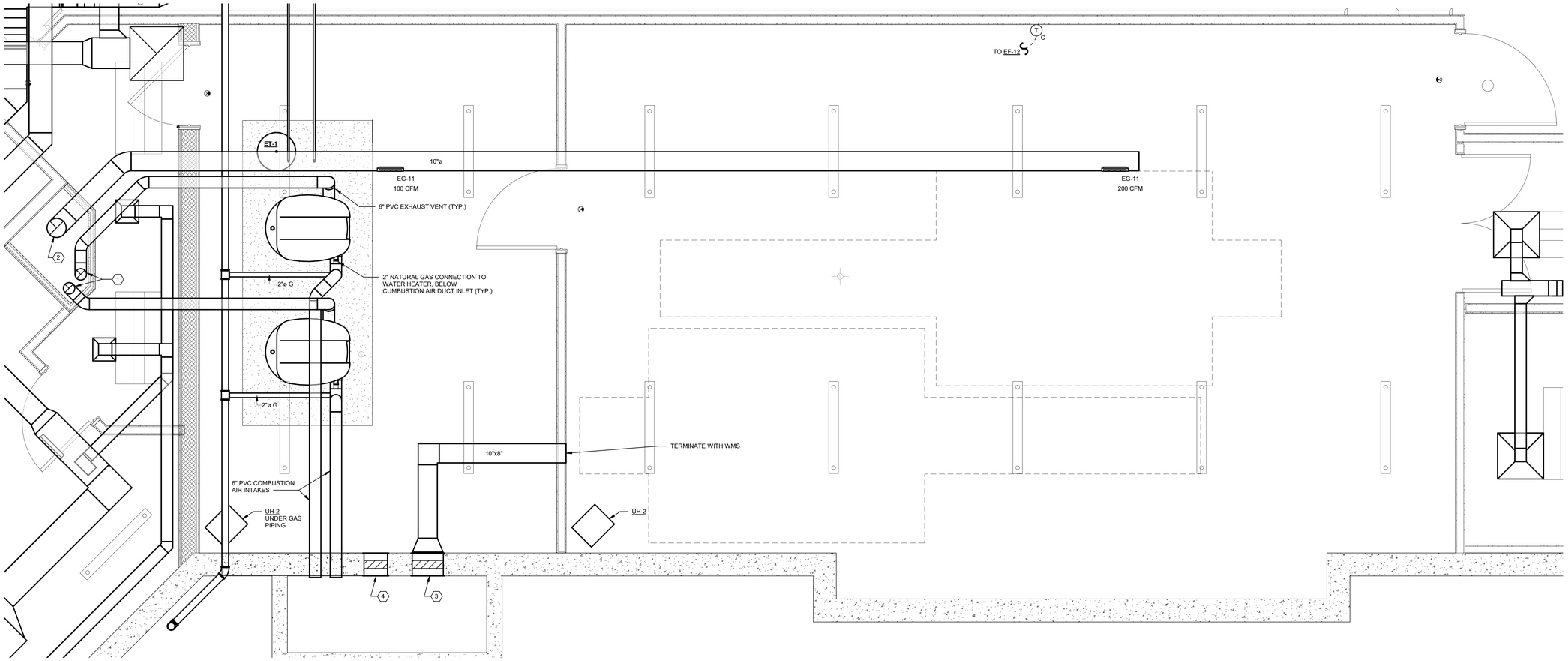
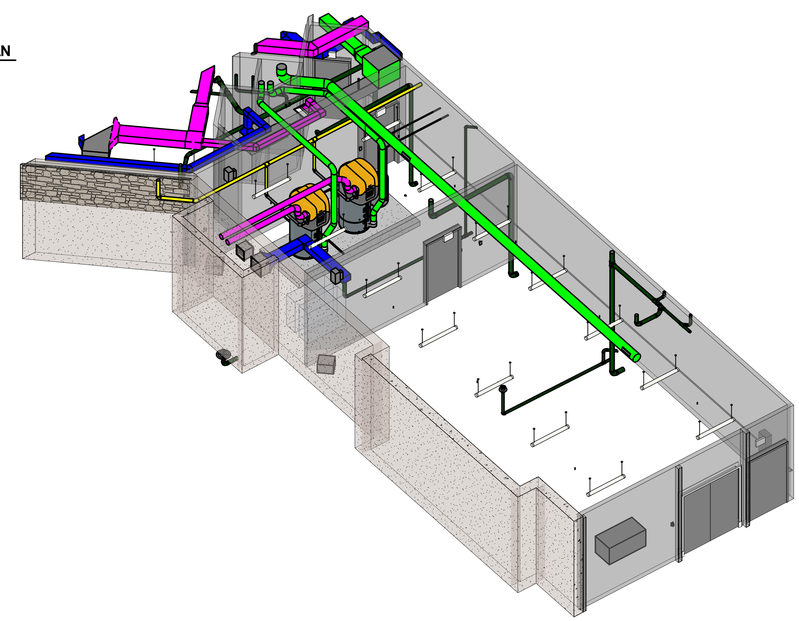


KEYED NOTES:

1. 6"Ø VENTS FROM HOT WATER HEATERS TO BE ROUTED THROUGH CHASE TO TERMINATION CAP ON ROOF. TRANSITION FROM PVC TO HEATFAB SAF-T (AL29-4C) BEFORE VENTS ENTER CHASE.
2. 10"Ø EXHAUST DUCT TO BE ROUTED THROUGH CHASE TO EF-12 ON ROOF.
3. 16"x16" OUTDOOR AIR INTAKE LOUVER WITH MOTORIZED DAMPER FOR MECHANICAL ROOM VENTILATION (L-1). INTERLOCK WITH EF-12 ON ROOF.
4. 12"x12" OUTDOOR AIR INTAKE LOUVER WITH MOTORIZED DAMPER FOR WATER HEATER ROOM VENTILATION (L-2).INTERLOCK WITH EF-12 ON ROOF.

1 HVAC WATER HEATER & MECHANICAL ROOM ENLARGED PLAN
SCALE: 1/2" = 1'-0"



3 CHILLER & BOILER ROOM 3D VIEW
SCALE:

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SHEET TITLE
HVAC WATER HEATER & MECHANICAL ROOM ENLARGED PLAN

DRAWING No.
H4.1

SHEET No.
OF

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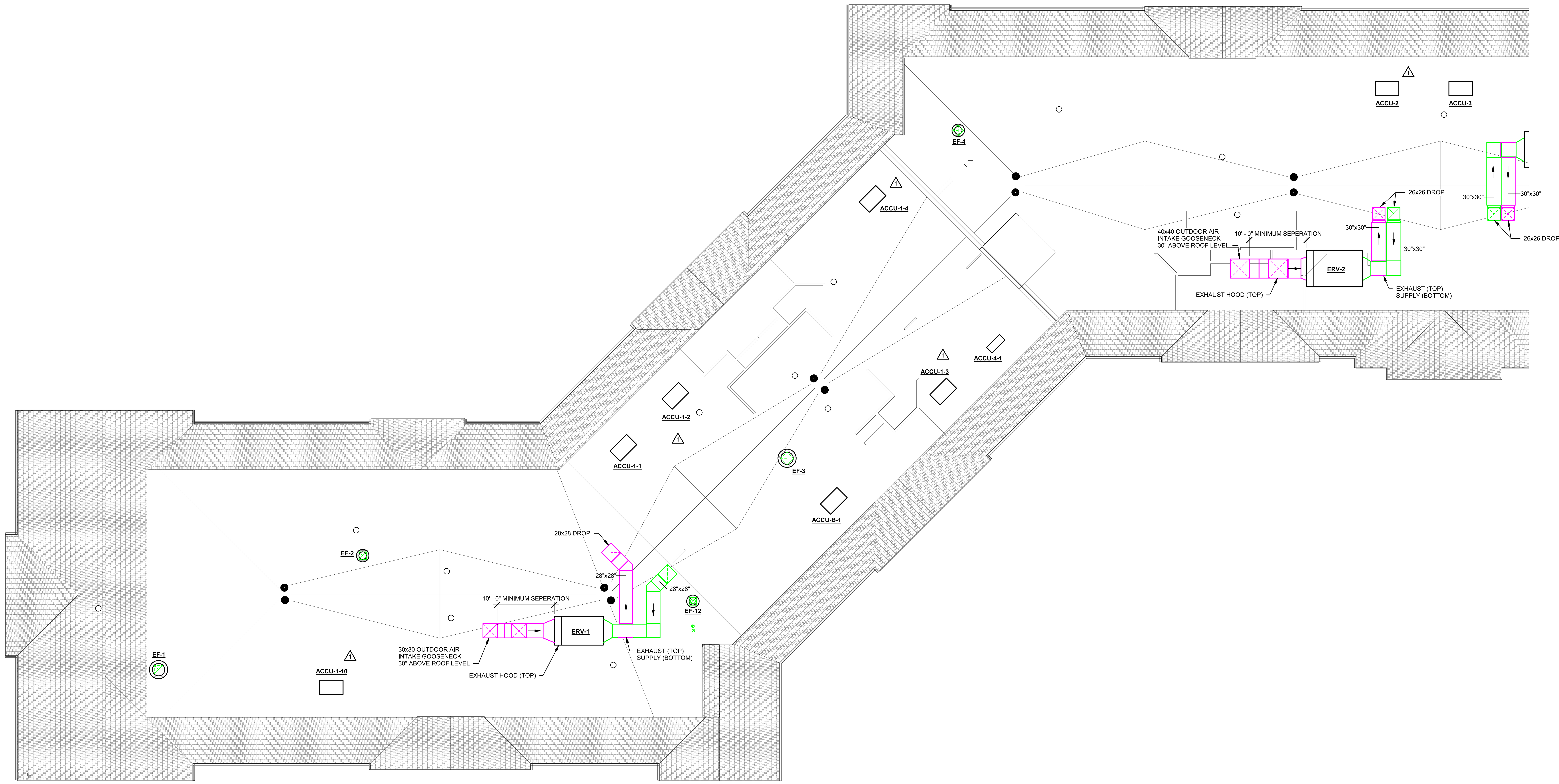

1 HVAC ROOF PLAN - PART A
SCALE: 1/8" = 1'-0"

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CONTRACT

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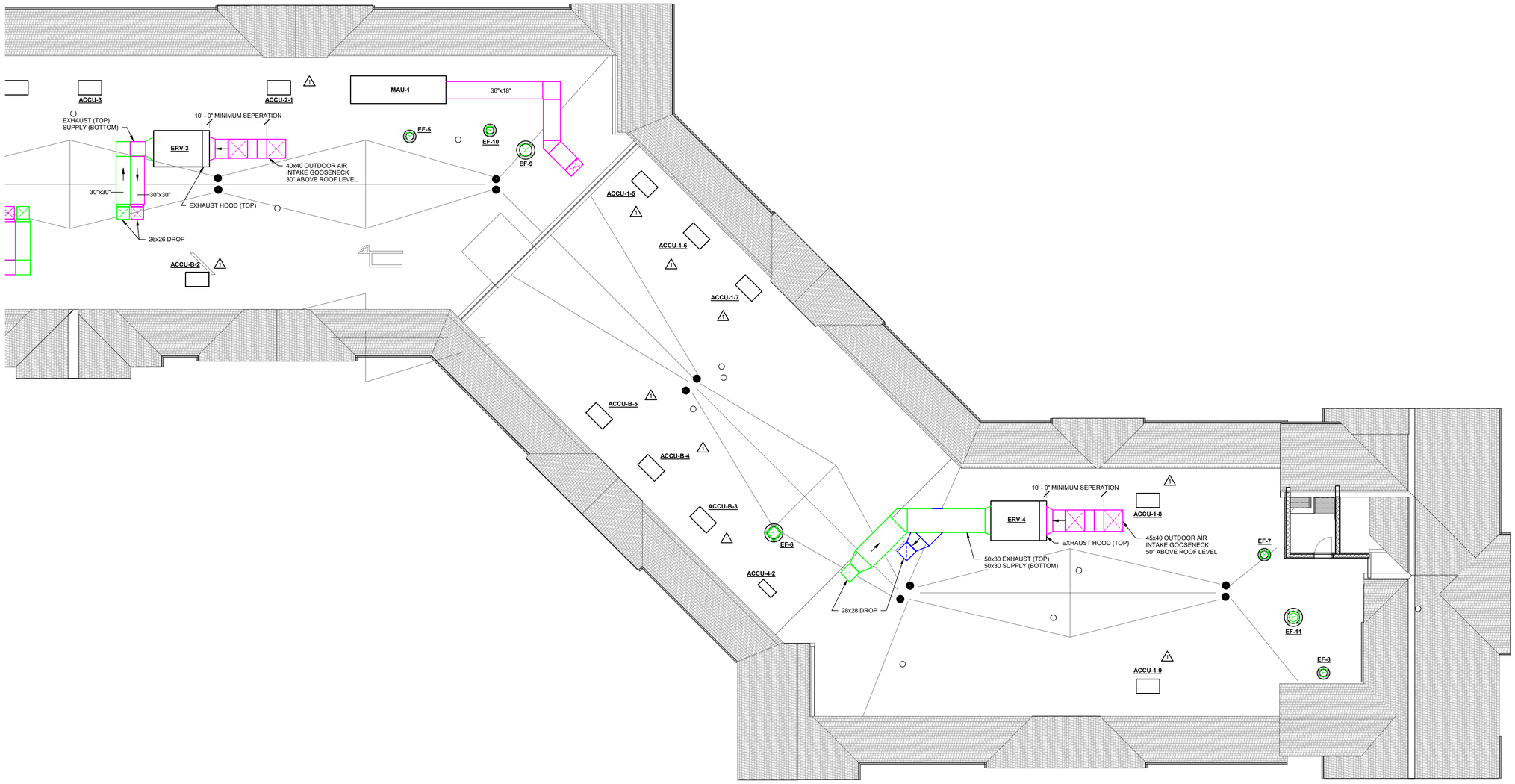
SHEET TITLE
HVAC ROOF PLAN - AREA A

DRAWING No.
H4.1A

SHEET No.
OF



1 HVAC ROOF PLAN - PART B
SCALE: 1/8" = 1'-0"

N

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HVAC ROOF PLAN - AREA B

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H4.1B

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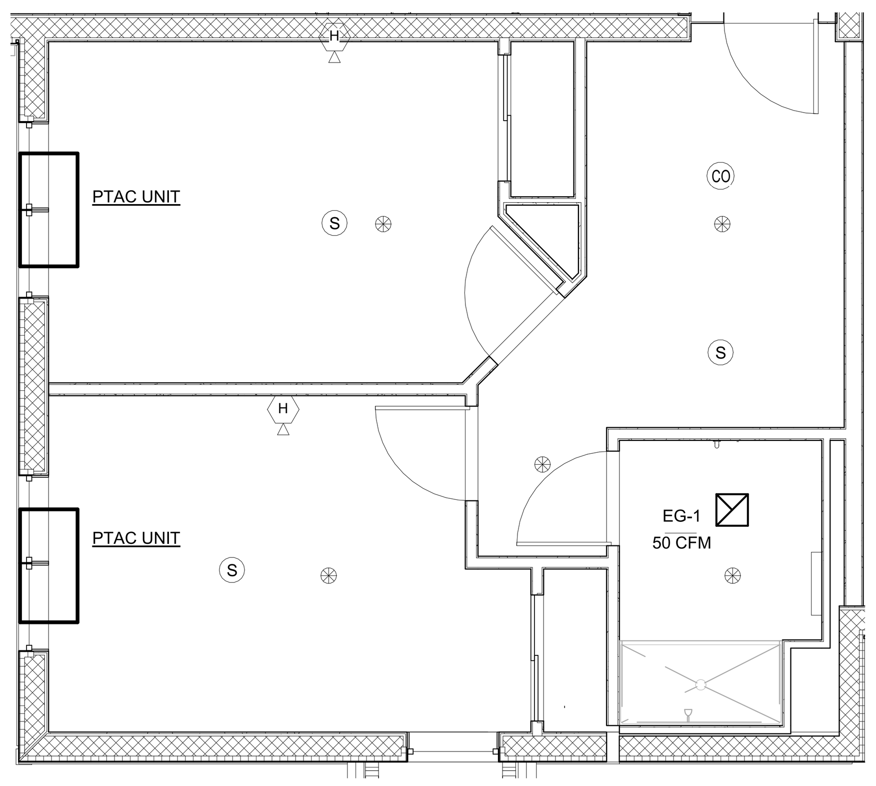
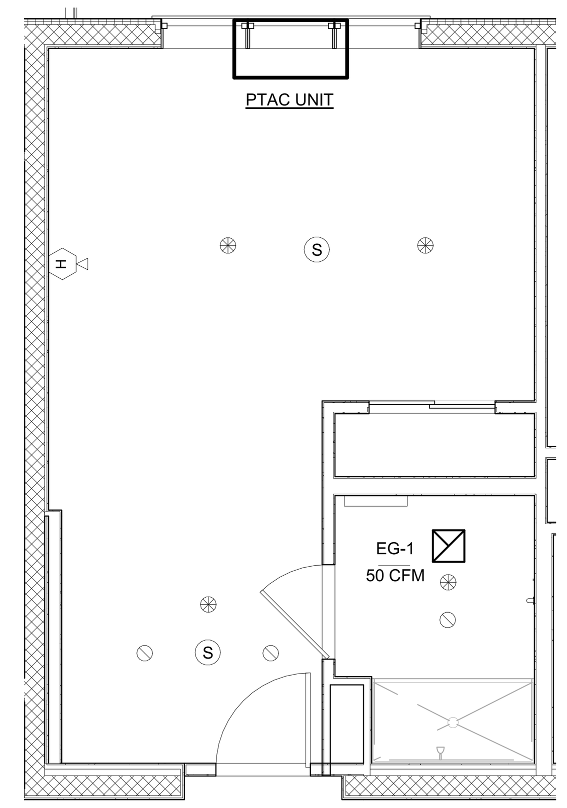


1 TYPICAL TYPE 1 - SEMI-PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"



2 TYPICAL TYPE 2 - PRIVATE HVAC PLAN
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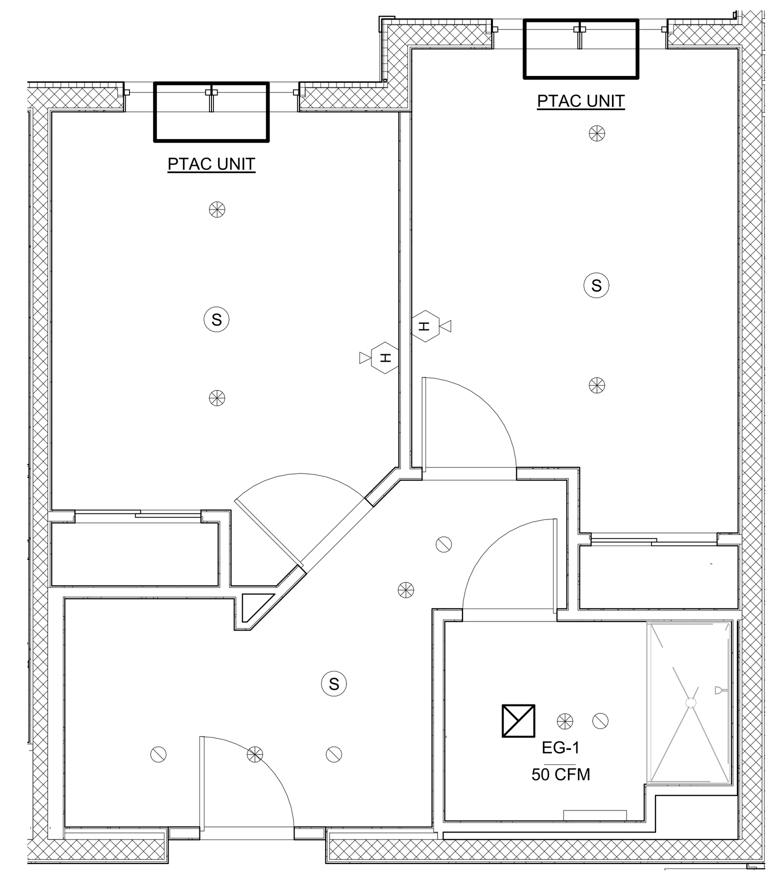
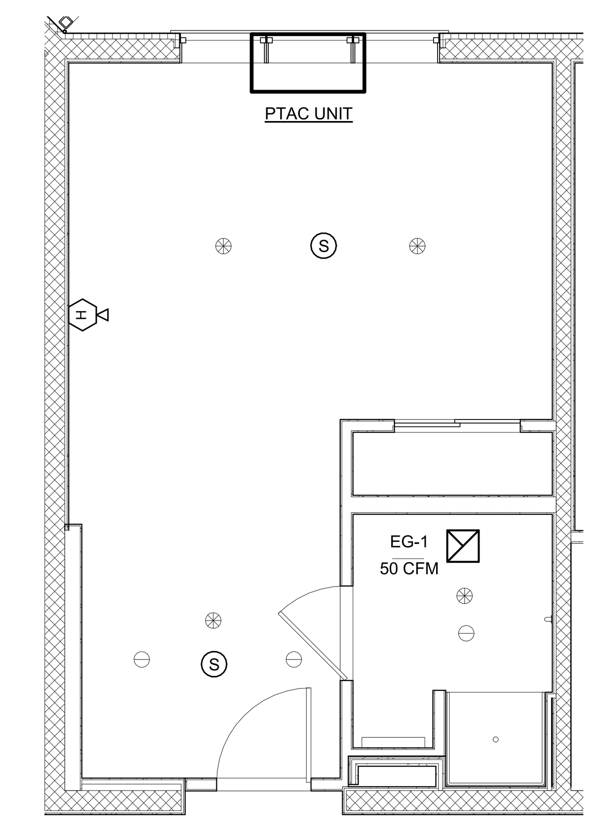
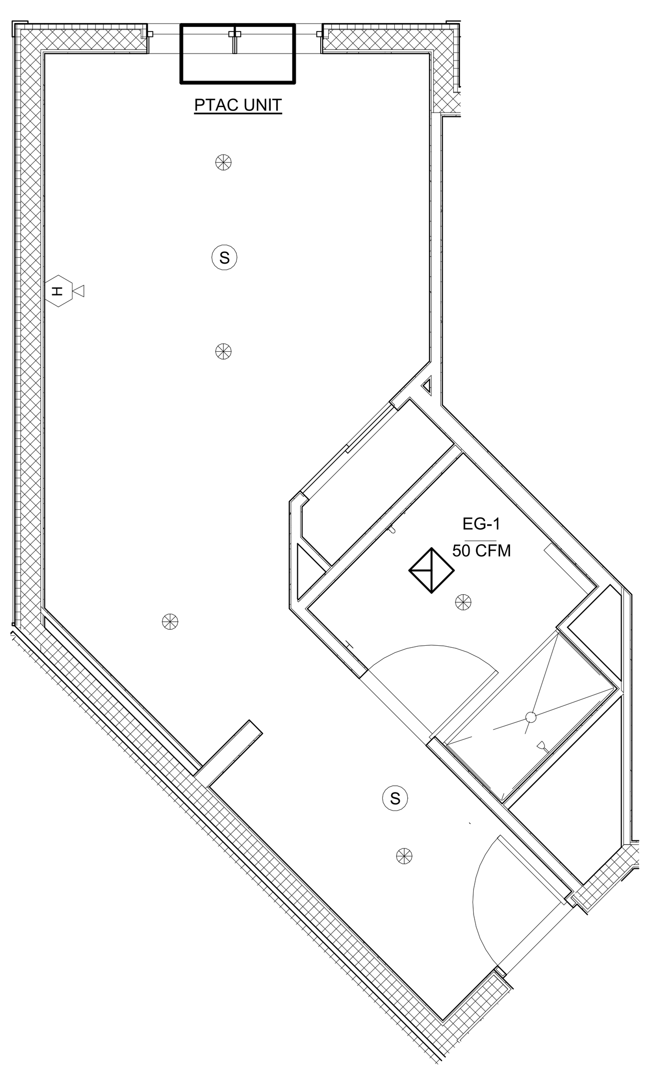


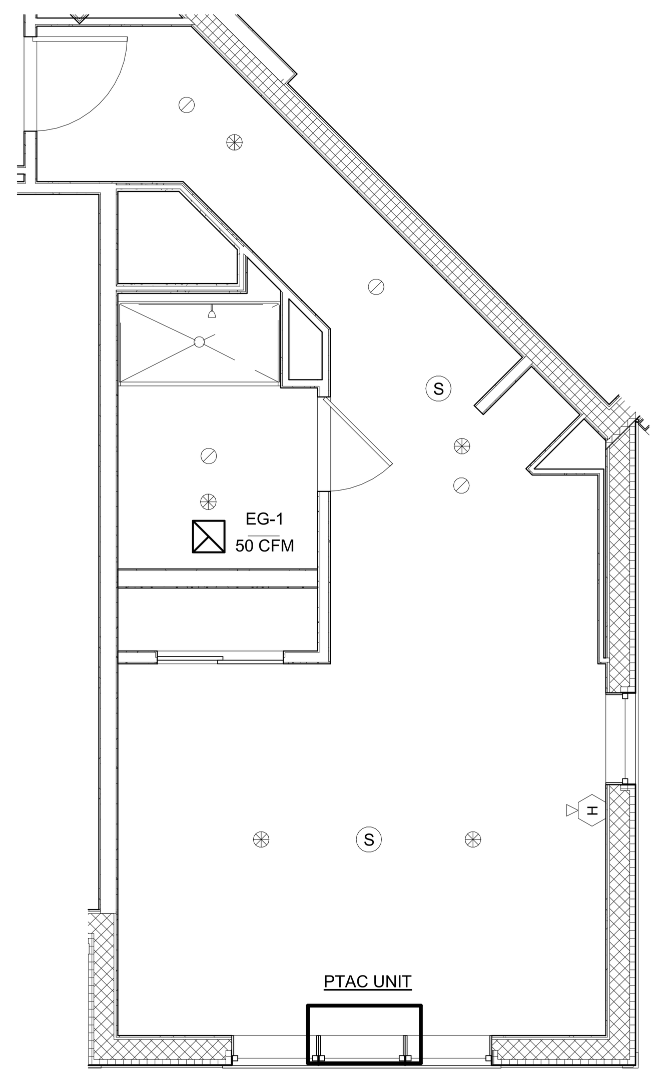
3 TYPICAL TYPE 3 & 3A - SEMI-PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"



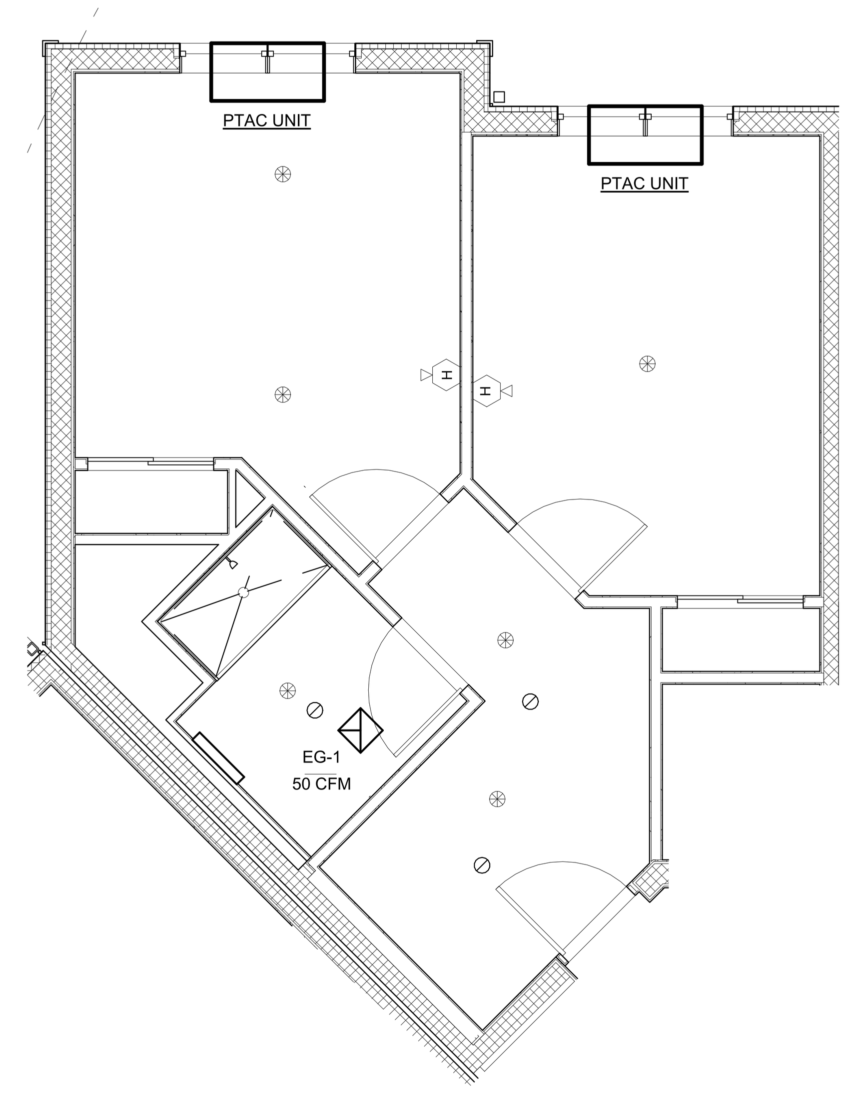
4 TYPICAL TYPE 4 - PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"



5 TYPICAL TYPE 5 - PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"



6 TYPICAL TYPE 6 - PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"



7 TYPICAL TYPE 7 - SEMI-PRIVATE HVAC PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTE:

1. SEE DRAWING H8.1 FOR ROOM-BY-ROOM SCHEDULE OF PTAC UNITS.

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CONTROL LEGEND

SYMBOL	DESCRIPTION
R	RELAY
T	DUCT TEMPERATURE SENSOR
H	DUCT HUMIDITY SENSOR
	CURRENT SENSOR
	MOTOR STARTER
DP	DIFFERENTIAL PRESSURE SENSOR/SWITCH
SD	DUCT SMOKE DETECTOR
M	MOTORIZED DAMPER
FS	FREEZE STAT
DA-T	DISCHARGE AIR SENSOR
SF-S	SUPPLY FAN STATUS
SF-G	SUPPLY FAN CURRENT SENSOR
CO_2	CO_2 SENSOR FOR AIR HANDLERS SERVING MULTIPURPOSE ROOMS ONLY

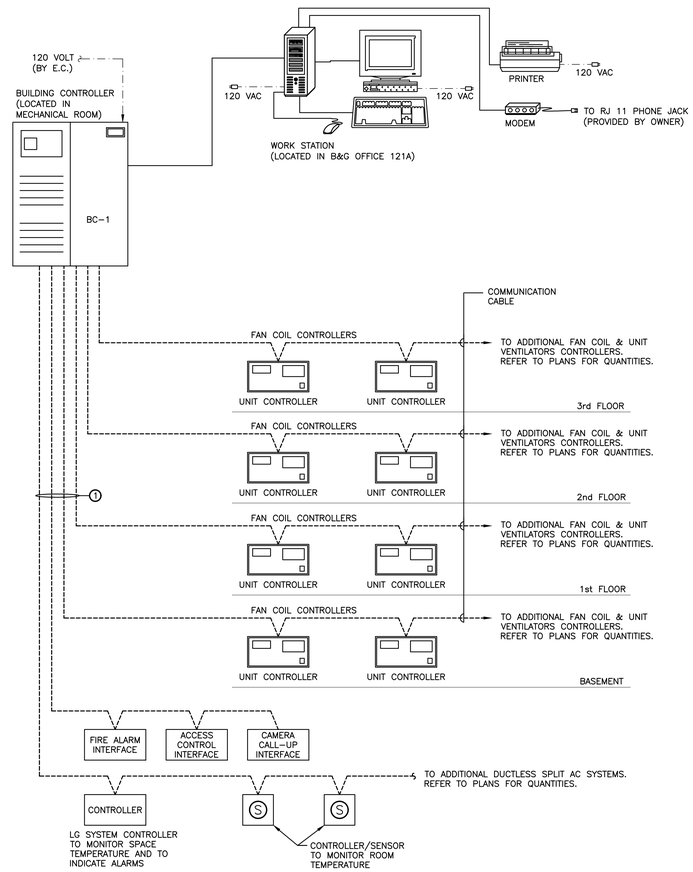
KEYED NOTES:

1. CONTROL WIRING PROVIDED AND INSTALLED BY KLIMA NY. 1

— · — · — WORK DONE BY ELECTRICAL CONTRACTOR (E.C.)

REFER TO SPECIFICATIONS FOR CONTROL POINTS AND SEQUENCE OF OPERATION.

- - - - - - - - CONTROL WIRING BY HVAC CONTRACTOR



1 **SYSTEM ARCHITECTURE ONE-LINE DIAGRAM**
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HVAC: DETAILS

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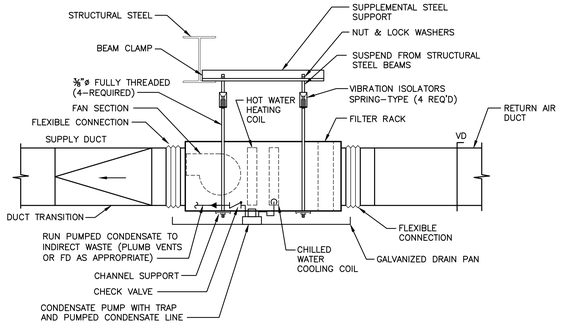
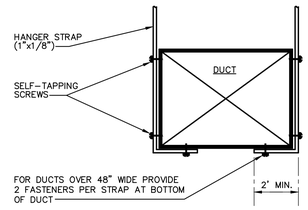


NOTES:

1. TYPICAL FOR INDOOR HORIZONTAL FAN COILS.
2. ALL ANCHORS, CLAMPS, BOLTS, CHANNELS, ETC., SHALL BE RATED TO SUPPORT THE OPERATING WEIGHT OF THE SUSPENDED EQUIPMENT.
3. PROVIDE LEAK DETECTOR CABLE AND LOCATION SYSTEM IN OVERFLOW PAN WITH UNIT SHUT DOWN CAPABILITY.

1 HORIZONTAL FAN COIL UNIT DETAIL
N.T.S.



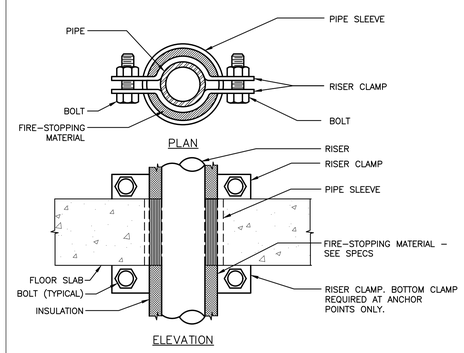
NOTES:

1. PROVIDE BRACING TO LIMIT THE AMPLITUDE OF WALL VIBRATION AND WALL DEFLECTION TO SPECIFIED MAXIMUMS.
2. MINIMUM DUCT SUPPORT REQUIREMENTS:

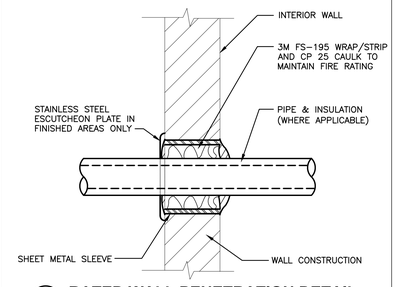
DUCT SIZE (SQ. FT.)	HANGER SIZE (IN.xGA.)	MAX. SPACING (FT.)
<2	1"x20 GA.	8
2<x≤4	1"x20 GA.	8
4<x≤10	1"x20 GA.	6
10<x	1"x18 GA.	4

3. ALL INTERIOR BLACK IRON EXHAUST DUCTWORK SHALL BE SUPPORTED AT 6FT. INTERVALS MIN.

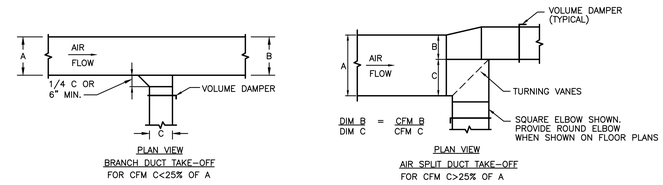
2 DUCT HANGERS/REINFORCEMENT
N.T.S.



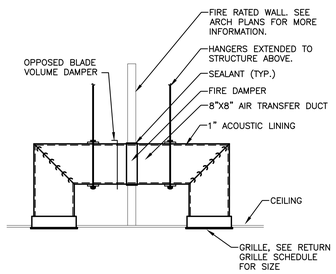
3 SUPPORT/ANCHOR FOR PIPE RISERS
N.T.S.



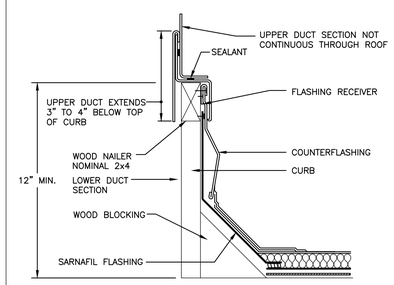
4 RATED WALL PENETRATION DETAIL
N.T.S.



5 SUPPLY DUCTWORK TAKE-OFFS
N.T.S.

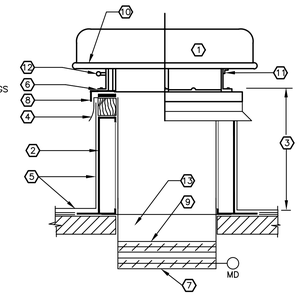


6 AIR TRANSFER DUCT W/ FIRE DAMPER DETAIL
N.T.S.

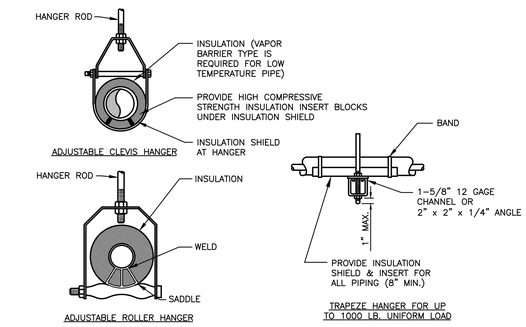


7 DUCT PENETRATION OF ROOF
N.T.S.

1. GRV (RELIEF)
2. PREFABRICATED CURB
3. 1'–6"
4. FLASHING
5. ROOFING – REFER TO ARCH. DRAWINGS
6. GASKET
7. MOTORIZED DAMPER
8. FASTEN AS PER MANUFACTURER WRITTEN RECOMMENDATIONS
9. GRAVITY RELIEF DAMPER
10. BIRD SCREEN
11. LATCH
12. HINGE
13. DUCT COLLAR SAME SIZE AS ROOF OPENING



8 GRAVITY ROOF VENT DETAIL
N.T.S.



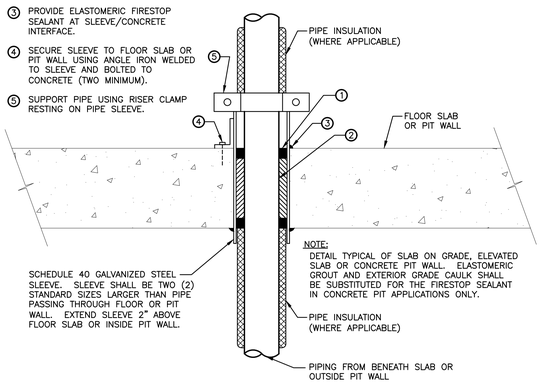
INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE

NOMINAL PIPE DIAMETER (IN.)	3/4	1	1 1/2	2	2 1/2	3	4	5	6	–
HANGER ROD SIZE (IN.)	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	7/8	–
MAXIMUM SUPPORT SPACING (FT.)										
STEEL PIPE	6	7	9	10	11	12	14	16	17	–
COPPER TUBE	6	6	8	9	10	10	12	14	14	–

NOTE: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD

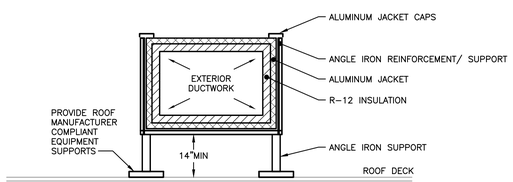
9 TYPICAL PIPE HANGERS
N.T.S.

1. 1" MINIMUM THICK ELASTOMERIC FIRESTOP SEALANT CAULK. PROVIDE AT TOP AND BOTTOM OF SLEEVE.
2. FILL ANNULAR SPACE WITH MINERAL WOOL BATTING.
3. PROVIDE ELASTOMERIC FIRESTOP SEALANT AT SLEEVE/CONCRETE INTERFACE.
4. SECURE SLEEVE TO FLOOR SLAB OR PIT WALL USING ANGLE IRON WELDED TO SLEEVE AND BOLTED TO CONCRETE (TWO MINIMUM).
5. SUPPORT PIPE USING RISER CLAMP RESTING ON PIPE SLEEVE.



NOTE:
DETAIL TYPICAL OF SLAB ON GRADE, ELEVATED SLAB OR CONCRETE PIT WALL. ELASTOMERIC GROUT AND EXTERIOR GRADE CAULK SHALL BE SUBSTITUTED FOR THE FIRESTOP SEALANT IN CONCRETE PIT APPLICATIONS ONLY.

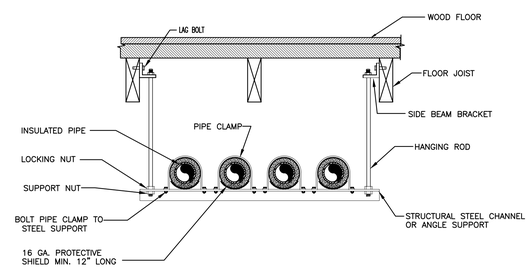
10 TYPICAL PIPING CONCRETE PENETRATION DETAIL
N.T.S.



NOTES:

1. SEAL ALL DUCTWALL PENETRATIONS AT POINTS OF SUPPORT ATTACHMENT AND REINFORCEMENT ATTACHMENT.
2. WATERPROOF ALL SEAMS AND JOINTS IN DUCTS.

11 EXTERIOR INSULATED DUCTWORK DETAIL
N.T.S.



PIPE HANGER ROD AND SPACING SCHEDULE

NOMINAL PIPE OR TUBE SIZE – INCHES	3/4	7/8	1	1 1/2	2	2 1/2	–	–	–	–
HANGER ROD SIZES INCHES	3/8	3/8	3/8	3/8	3/8	1/2	–	–	–	–
MAX. SPACING BETWEEN PIPE SUPPORTS – FEET	6	–	7	9	10	11	–	–	–	–
MAX. SPACING BETWEEN CU. TUBE SUPPORTS – FT.	6	6	6	8	9	10	–	–	–	–

NOTES: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD

12 TYPICAL TRAPEZE HANGER SUPPORT DETAIL
N.T.S.

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t 845-343-1481 fx 855-320-8735 Project #: 15-345A

MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/03/22	ISSUE FOR BID
1	07/22/22	ADDENDUM #1
	08/08/22	ISSUED FOR CONSTRUCTION

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PMC	SRB	EDF	MDF
PROJECT No: FILB 1501	DATE: 11/15/19	SCALE: AS SHOWN	

CLIENT:
Montebello Realty GP LLC

Braemar at Montebello Assisted Living Residence

Montebello Crossing, 250 Lafayette Avenue (Route 59) Village of Montebello New York

CONTRACT

STATUS
FOR CONSTRUCTION

SHEET TITLE
HVAC: DETAILS

DRAWING No. **H7.2**
SHEET No. OF

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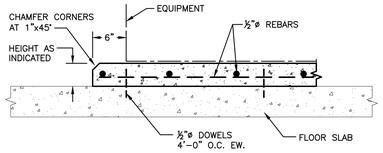

1 CONCRETE PAD DETAIL
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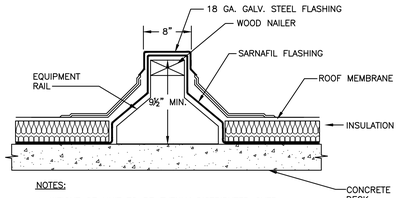
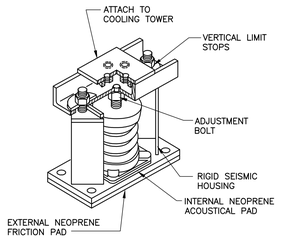


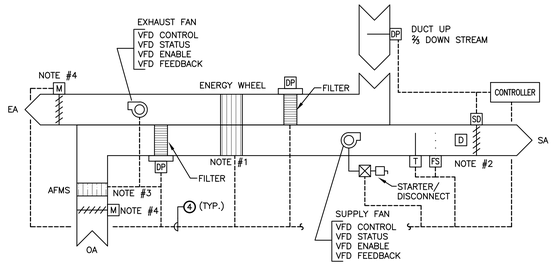
NOTES:

1. WEIGHT OF UNIT TO BE EVENLY DISTRIBUTED OVER CROSS-SECTIONAL AREA OF WOOD NAILER.
2. RAIL SHALL BE FASTENED TO STRUCTURE PER MANUFACTURER RECOMMENDATIONS.
3. VIBRATION ISOLATORS SHALL BE FASTENED TO EQUIPMENT RAIL AND MECHANICAL EQUIPMENT.
4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ROOFING WORK.
5. EQUIPMENT RAIL SHALL BE "ROOF PRODUCTS & SYSTEMS" MODEL ER-4A, OR EQUIVALENT.

2 ROOF EQUIPMENT RAIL DETAIL
N.T.S.



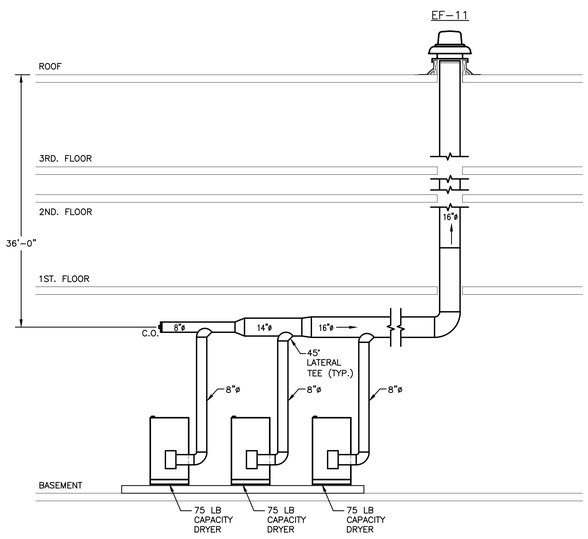
3 RESTRAINED SPRING MOUNT
N.T.S. BASED ON "MASON" SLR



NOTES:

1. ATC TO INTERFACE WITH UNIT MANUFACTURERS FURNISHED ENERGY WHEEL CONTROLS.
2. 24V DUCT SMOKE DAMPER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY DIV. 26000 AND DUCT SMOKE DETECTOR FURNISHED, INSTALLED AND WIRED BY DIV. 26000.
3. AIR FLOW MEASUREMENT STATION FURNISHED BY UNIT MANUFACTURER WITH OUTPUT SIGNAL INTERFACE CAPABILITY TO ATC.
4. FURNISHED BY UNIT MANUFACTURER.
5. CONTROLLER PROVIDED BY ATC.
6. CONTRACTOR SHALL REFER TO EQUIPMENT SCHEDULE SHEET & FLOOR PLANS FOR QUANTITIES OF UNITS.
7. ALL CONTROL WIRING BY HVAC.

4 ENERGY RECOVERY UNITS CONTROL DIAGRAM (TYPICAL FOR ERV-1 THRU ERV-4)
N.T.S.



5 LAUNDRY ROOM DRYER DETAIL
N.T.S.

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Project #: 15-345A

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New York**

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HVAC: DETAILS

DRAWING No. **H7.3**
SHEET No. OF

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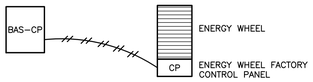
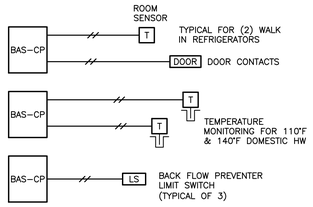
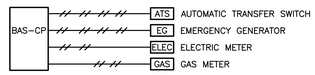


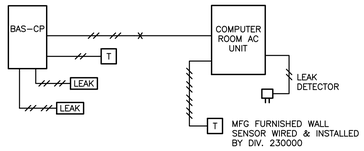
1 TYPICAL ER UNITS & ENERGY WHEELS
N.T.S.



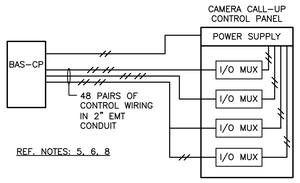
2 MISC. CONTROLS & MONITORING
N.T.S.



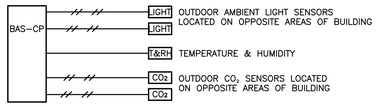
3 ELECTRICAL EQUIPMENT & UTILITY MONITORING
N.T.S.



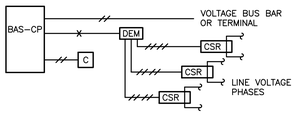
4 I/T ROOM MONITORING
N.T.S.



5 CAMERA CALL-UP CONTROLS
N.T.S.

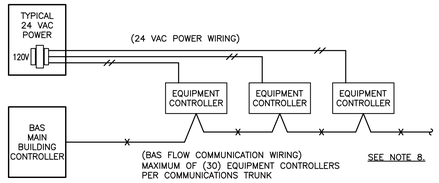


6 EXTERIOR BAS SENSOR
N.T.S.



7 EXTERIOR LIGHTING CONTROLS
N.T.S.

TYPICAL FOR (12) LOCATIONS OR AS INDICATED ON "E" DRAWINGS.



8 COMMUNICATION & LOW VOLTAGE POWER WIRING FOR UNIT VENTILATOR, FAN-COIL UNIT & ER UNIT CONTROLLERS
N.T.S.

SYSTEM DESCRIPTION (EXHAUST FANS)	INPUTS	OUTPUTS	SYSTEM FEATURES
	DISCRETE	DISCRETE	ALARMS
ALL EXHAUST (EF-1 TO EF-8)	STATUS	ON/OFF	STATUS
FAN MOTOR	●	●	●

DOMESTIC HOT WATER DISTRIBUTION	INPUTS		WATER HEATERS 1A & 1B
	ANALOG	DISCRETE	
MECHANICAL ROOM PIPING	TEMPERATURE	ALARM (HIGH TEMP)	A.O. SMITH BTHS-1000A, REMOVE MEWING APP FOR STANDARD OUTPUTS FAULT NOTIFICATIONS.
HIGH TEMP DOMESTIC HOT WATER	●	●	
DOMESTIC HOT WATER	●	●	

BAS NOTES, BAS CONTROLS WIRING AND INSTALLATION NOTES

1. FIRE-ALARM AND FREEZE-STAT SAFETIES MUCH BE WIRING IN VFD AND MOTOR STARTER FOR ALARM SHUT-DOWN
2. LOW -VOLTAGE CONTROL RELAYS ARE REQUIRED FOR ANY MOTOR CONTROL CIRCUIT ABOVE 24V
3. MULTIPLE PAIRS OF CONTROL WIRING ARE REQUIRED WHEN CONTROLLING MULTI-SPEED FANS
4. INSTALL AND WIRE SENSORS IN QUANTITIES LISTED AND AS INDICATED ON THE PROJECT PLANS. IF TOTAL QUANTITY NOT INDICATED ON DRAWINGS, LOCATION SHALL BE DETERMINED BY FIELD DIRECTIVE
5. PANEL LOCATIONS CAN BE IN CLOSE PROXIMITY, LESS THAN 10 FEET. COORDINATE PANEL LOCATIONS IN THE FIELD WITH DISTRICT I/T PERSONNEL. DIVISION 230900 SHALL PROVIDE "I/O MUX" COMM. BOARDS FOR INTERFACE WITH DISTRICT CAMERA SYSTEM. PROVIDE MOXA E2210 ETHERNET I/O OR APPROVED EQUAL.

CONTROLS WIRING LEGEND

- CONTROL WIRING PAIR, TWISTED PAIR OR MULTI-CONDUCTOR CABLE
- 24 AWG TWISTED, SHIELDED, LOW-CAPACITANCE BAS COMMUNICATION WIRING
- CSR — SPLIT CORE CURRENT SENSOR
- X — CONTROL DEVICE OR SENSOR WIRED AND INSTALLED, INCLUDING 24VAC POWER WIRING. "X" CAN INDICATE;
  - T-TEMPERATURE
  - CO -CARBON MONOXIDE
  - COMB - COMBUSTIBLE GAS SENSOR
  - REF - REFRIGERANT LEAK SENSOR
  - LS - LIMIT SWITCH, LEVEL SWITCH
  - FS - FLOW SWITCH
  - ES - END SWITCH
  - LEAK - LEAK SENSOR OR LEAK MODULE
  - CO2 - CARBON DIOXIDE SENSOR
- MOTOR STARTER OR MOTOR START CIRCUIT
- VFD — VARIABLE FREQUENCY DRIVE
- M — DAMPER MOTOR
- C — CONTACTOR
- BAS-CP — BUILDING AUTOMATION SYSTEM CONTROL PANEL, MOUNTED BY DIVISION 230900 WITH BAS COMMUNICATION WIRING BY 230900.

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Project #: 15-345A

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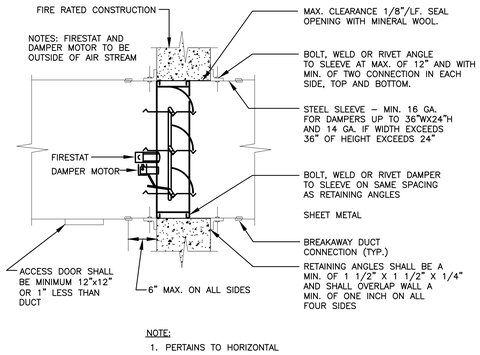
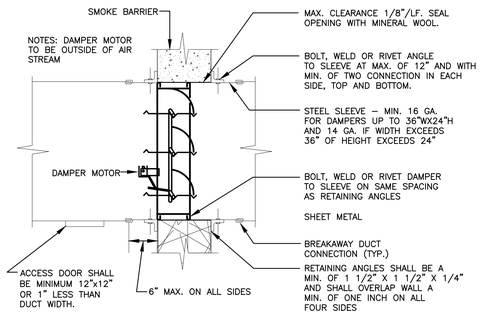


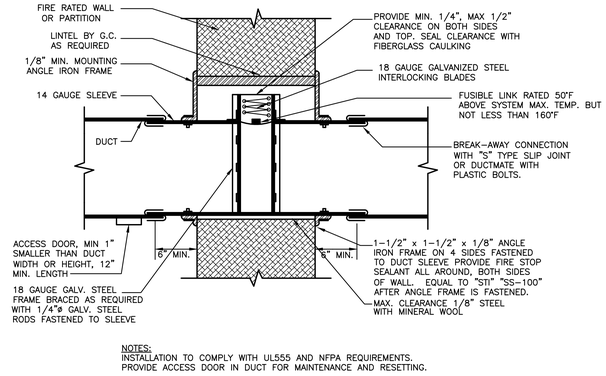
NOTE:
1. PERTAINS TO HORIZONTAL

1 COMBINATION: FIRE & SMOKE DAMPER DETAIL
N.T.S.



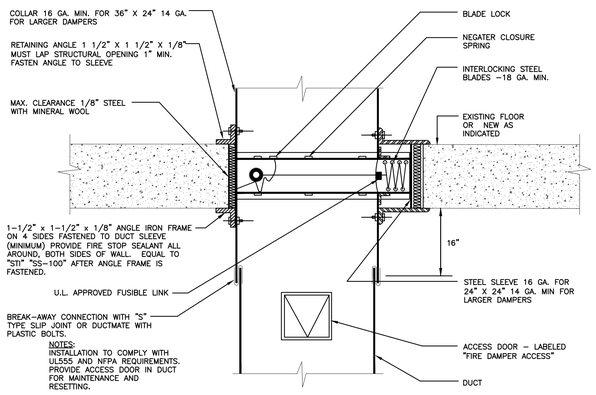
2 SMOKE DAMPER DETAIL
N.T.S.

NOTE:
1. PERTAINS TO HORIZONTAL



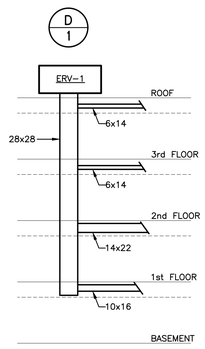
NOTES:
INSTALLATION TO COMPLY WITH UL555 AND NFPA REQUIREMENTS.
PROVIDE ACCESS DOOR IN DUCT FOR MAINTENANCE AND RESETTING.

3 TYPE-B SHUTTER TYPE FIRE DAMPER FOR LOW PRESSURE SYSTEMS DETAIL
N.T.S.

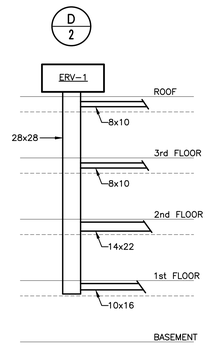


NOTES:
INSTALLATION TO COMPLY WITH UL555 AND NFPA REQUIREMENTS. PROVIDE ACCESS DOOR IN DUCT FOR MAINTENANCE AND RESETTING.

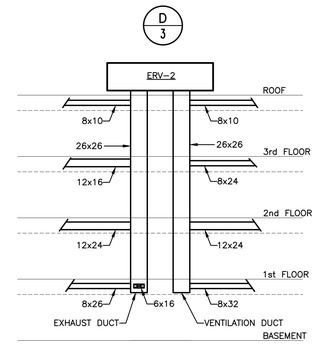
TYPE-B HORIZONTAL FIRE DAMPER FOR LOW PRESSURE SYSTEMS DETAIL
4 N.T.S.



5 ERV-1 VENTILATION RISER DIAGRAM
N.T.S.



6 ERV-1 EXHAUST RISER DIAGRAM
N.T.S.



7 ERV-2 VENTILATION/EXHAUST RISER DIAGRAM
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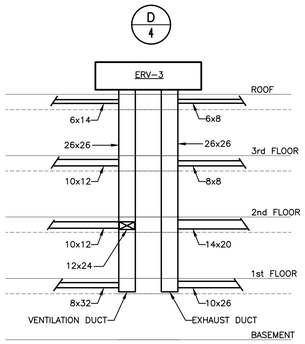

8 ERV-3 VENTILATION/EXHAUST RISER DIAGRAM
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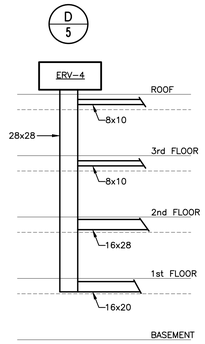
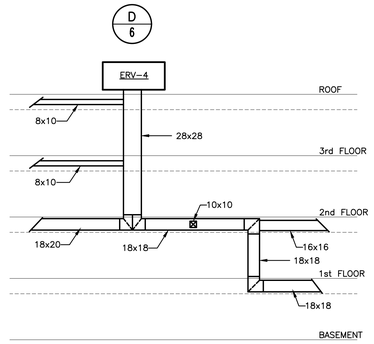


9 ERV-4 VENTILATION RISER DIAGRAM
N.T.S.



10 ERV-4 EXHAUST RISER DIAGRAM
N.T.S.

File Name: F:\2015\15-345A NEW ASSISTED LIVING RESIDENCE\H7.5.dwg (Layout: H7.5)
Date: Mon, Aug 08, 2022 - 9:30 AM (Name: ah)

H2M architects + engineers
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Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANTS:
FELLENZER ENGINEERING LLP
www.fellp.com
22 Mulberry St., Suite 2A,
Middletown, NY 10940
t 845-343-1481 fx 855-320-8735 Project #: 15-345A

MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/03/22	ISSUE FOR BID
1	07/22/22	ADDENDUM #1
	08/08/22	ISSUED FOR CONSTRUCTION

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PMC	SRB	EDF	MDF
PROJECT No: FILB 1501	DATE: 11/15/19		SCALE: AS SHOWN

CLIENT:
Montebello Realty GP LLC

Braemar at Montebello Assisted Living Residence

**Montebello Crossing,
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York**

CONTRACT

STATUS: FOR CONSTRUCTION

SHEET TITLE:
HVAC: DETAILS

DRAWING No. **H7.5**

SHEET No. / OF

PUMP SCHEDULE

MANUFACTURER AS INDICATED OR APPROVED EQUAL

UNIT NO.	LOCATION	SYSTEM	CIRCULATING FLUID					MOTOR HP (WATTS)	MOTOR RPM	MOTOR SPEED	IMPELLER DIAMETER (IN.)	MIN. EFF. (%)	ELECTRICAL DATA VOLT/PH	MANUFACTURER	MODEL NO.	REMARKS
			FLUID	SPEC. GRAVITY	TEMP. (°F)	GPM	HEAD (FT.)									
RP-1	BASEMENT MER	DOMESTIC HOT WATER	PLAIN WATER	1.0	110	14.6	15	1/8	1725	CV	–	65	120/1	TACO	0011 BF	1, 2, 3
RP-2	BASEMENT MER	KITCHEN HOT WATER	PLAIN WATER	1.0	140	11.2	15	1/8	1725	CV	–	65	120/1	TACO	0011 BF	1, 2, 3

NOTES:

1. IMPELLER DIAMETER INDICATED IS APPROXIMATE. FINAL IMPELLER DIAMETER TO BE DETERMINED BY PUMP MFTR. CONTRACTOR SHALL TRIM IMPELLER AFTER INITIAL FLOW BALANCING TO ACHIEVE OPTIMAL PUMP PERFORMANCE.
2. COORDINATE MOTOR REQ. WITH E.C.. E.C. TO FURNISH AND INSTALL MOTOR STARTERS.
3. DOMESTIC HOT WATER RECIRCULATION PUMPS SHALL BE OF BRONZE CONSTRUCTION.

Energy Recovery Ventilator Schedule

Unit No.	CFM R.A.	CFM S.A.	Supply Fan Data ESP (in. w.c.)	Supply Fan Data Motor HP	Supply Fan Data Motor RPM	Exhaust Fan Data ESP in. w.c.	Exhaust Fan Data Motor HP	Exhaust Fan Data Motor RPM	Media Type	Wheel Face Area (ft^2/side)	Summer Operation O.A. (ºF) DB/WB	Summer Operation R.A. (ºF) DB/WB	Summer Operation E.A. (ºF) DB/WB	Summer Operation S.A. (ºF) DB/WB	Summer Operation Tot Eff. (%)	Summer Operation En. Rec. Total/Sensible (MBH)	Winter Operation O.A. (ºF) DB/WB	Winter Operation R.A. (ºF) DB/WB	Winter Operation E.A. (ºF) DB/WB	Winter Operation S.A. (ºF) DB/WB	Winter Operation Tot Eff. (%)	Winter Operation En. Rec. Total/Sensible (MBH)	Volt/Phase	MCA	MOCP	Manufacturer & Model	Weight (lbs)
ERV-1	3470	3470	1	5	1750	1	5	1750	3A Molecular Sieve Coated Aluminum	14.00	92.0/74.0	75.0/62.5	88.5/72.0	78.1/64.6	82	52.2 / 117.1	12.0/10.4	70/58.5	23.5/22.6	58.7/52.1	81	175.1 / 271.6	460/3	18.3	20	AVS040-R-FRVE	1,700
ERV-2	5725	5725	1	5	1750	1	5	1750	3A Molecular Sieve Coated Aluminum	24.00	92.0/74.0	75.0/62.5	88.5/72.0	78.1/64.6	82	86.3 / 193.8	12.0/10.4	70/58.5	23.4/22.5	58.8/52.1	81	289.3 / 448.8	460/3	18.3	20	AVS065-R-FRVE	2,300
ERV-3	5475	5475	1	5	1750	1	5	1750	3A Molecular Sieve Coated Aluminum	24.00	92.0/74.0	75.0/62.5	88.6/72.0	78.0/64.5	83	83.0 / 186.2	12.0/10.4	70/58.5	23.2/22.3	59.1/52.3	81	278.5 / 431.8	460/3	18.3	20	AVS065-R-FRVE	2,300
ERV-4	7100	7100	1	5	1750	1	5	1750	3A Molecular Sieve Coated Aluminum	30.00	92.0/74.0	75.0/62.5	88.5/72.0	78.1/64.6	82.00	106.8 / 240.1	12.0/10.4	70/58.5	23.5/22.6	58.7/52.1	81.00	358.1 / 555.7	460/3	18.3	20	AVS085-R-FRVE	2,600

Expansion Tank Schedule

Unit No.	System and/or Service	Type	Approx. System Volume (Gal)	System Temperature Range Min. (ºF)	System Temperature Range Max. (ºF)	Initial Pressure in Tank (PSI)	Max Operating Pressure (PSI)	Fill Pressure at Tank Relief Valve (PSI)	Fill Pressure at Tank At Tank (PSI)	Min. Volume Tank (Gal)	Min. Bladder Volume (Gal)	Make-Up Water Fill Size (in.)	Manufacturer & Model	Remarks
ET-1	Hot Water	Bladder	365	60	160	12	30	75	23	34	14.25	1	Bell & Gossett B-130LA	----

Packaged Terminal AC Unit Schedule

Unit No.	CFM Total	CFM Min. O.A.	Cooling (MBH) Total	Heating Output (MBH)	Heating Electric Heat (KW)	Refrig.	Electrical Data Volt/PH	Electrical Data MCA	Electrical Data MOCP	Electrical Data Receptacle	Weight (lbs)	EER	Manufacturer & Model	Total Number of Units	Remarks
PTAC-1	383	25	7.2	6.1	2	R-410A	277/1	9.7	15	NEMA 7-20R	99	12.3	Polar Air iPTAC-HEH-07-Z	130	----
PTAC-2	383	25	7.2	6.1	3	R-410A	277-1	14.4	15	NEMA 7-20R	99	12.3	Polar Air iPTAC-HEH-07-Z	52	----
PTAC-3	383	25	9.5	8.5	3	R-410A	277/1	14.4	15	NEMA 7-20R	108	12.1	Polar Air iPTAC-HEH-09-Z	10	----
PTAC-4	383	25	9.5	8.5	3.6	R-410A	277/1	17.2	20	NEMA 7-20R	108	12.1	Polar Air iPTAC-HEH-09-Z	6	----
PTAC-5	400	25	12.5	11.4	3.6	R-410A	277/1	17.2	20	NEMA 7-20R	110	11.7	Polar Air iPTAC-HEH-12-Z	2	----

NOTES:

1. PROVIDE ALL PTAC UNITS WITH INSULATED WALL SLEEVE (SHIPPED FLAT).
2. PROVIDE ALL PTAC UNITS WITH ARCHITECTURAL OUTDOOR GRILLE.
3. PROVIDE ALL PTAC UNITS WITH A CONDENSATE DRAIN PAN KIT.
4. PROVIDE ALL PTAC UNITS WITH ELECTRICAL SUBBASE THAT INCLUDES FACTORY INSTALLED NEMA 7-20R RECEPTACLE.

Diffuser Schedule

Symbol	CFM Range	Neck Dia (In.)	Nom. Face Size (In.)	Finish	Manufacturer & Model	Accessories	Remarks
CD-1	0-110	6	12x12	White	Titus TMS	None	----
CD-2	0-140	6	24x24	White	Titus TMS	None	----
CD-3	141-220	8	24x24	White	Titus TMS	None	----
CD-4	221-320	10	24x24	White	Titus TMS	None	----
CD-5	321-470	12	24x24	White	Titus TMS	None	----
CD-6	471-620	14	24x24	White	Titus TMS	None	----
CD-7	621-720	15	24x24	White	Titus TMS	None	----
SG-1	0-110	6x6	6x6	White	Titus 272FL	None	----
SG-2	111-180	8x6	8x6	White	Titus 272FL	None	----
SG-3	181-300	10x10	10x10	White	Titus 272FL	None	----

Return/Exhaust Grill Schedule

Symbol	CFM Range	Neck Size (In.)	Nom. Face Size (In.)	Blade Deflection	Blade Spacing (In.)	Finish	Manufacturer & Model No.	Remarks
RG-1	0-110	6x6	12x12	35º	3/4	White	Titus 350RL	----
RG-2	0-110	6x6	24x24	35º	3/4	White	Titus 350RL	----
RG-3	111-170	8x6	24x24	35º	3/4	White	Titus 350RL	----
RG-4	171-220	10x6	24x24	35º	3/4	White	Titus 350RL	----
RG-5	221-320	10x8	24x24	35º	3/4	White	Titus 350RL	----
RG-6	321-425	10x10	24x24	35º	3/4	White	Titus 350RL	----
RG-7	426-525	12x12	24x24	35º	3/4	White	Titus 350RL	----
RG-8	526-730	14x14	24x24	35º	3/4	White	Titus 350RL	----
RG-9	731-820	16x16	24x24	35º	3/4	White	Titus 350RL	----
RG-10	821-1035	18x18	24x24	35º	3/4	White	Titus 350RL	----
RG-11	1475	48x18	48x18	35º	3/4	White	Titus 350RL	----
RG-12	1036-1570	22x22	24x24	35º	3/4	White	Titus 350RL	----
RG-13	100-380	----	18x6	35º	3/4	White	Titus 350RL	----
EG-1	0-110	6x6	12x12	35º	3/4	White	Titus 350RL	----
EG-2	0-110	6x6	24x24	35º	3/4	White	Titus 350RL	----
EG-3	111-170	8x6	24x24	35º	3/4	White	Titus 350RL	----
EG-4	171-220	10x6	24x24	35º	3/4	White	Titus 350RL	----
EG-5	221-320	10x8	24x24	35º	3/4	White	Titus 350RL	----
EG-6	321-425	10x10	24x24	35º	3/4	White	Titus 350RL	----
EG-7	426-525	12x12	24x24	35º	3/4	White	Titus 350RL	----
EG-8	526-730	14x14	24x24	35º	3/4	White	Titus 350RL	----
EG-9	731-820	16x16	24x24	35º	3/4	White	Titus 350RL	----
EG-10	821-1035	18x18	24x24	35º	3/4	White	Titus 350RL	----
EG-11	100-380	----	18x6	35º	3/4	White	Titus 350RL	----

Exhaust Fan Schedule

Unit No.	System and/or Service	Location	Manufacturer & Model	Air Flow (CFM)	Total Static Pressure (in. w.c.)	Drive	Fan RPM	Nominal Power (HP)	Phase	Volts
EF-1	Dwelling Unit Bathroom	Roof	Twin Cities 090BE	600	0.5	Direct	1650	1/6	1	208
EF-2	Dwelling Unit Bathroom	Roof	Twin Cities 100BE	1050	0.75	Direct	1750	1/4	1	208
EF-3	Dwelling Unit Bathroom	Roof	Twin Cities 120BE	1400	0.75	Direct	1750	1/2	1	208
EF-4	Dwelling Unit Bathroom	Roof	Twin Cities 095BE	650	0.75	Direct	1575	1/4	1	208
EF-5	Dwelling Unit Bathroom	Roof	Twin Cities 095BE	700	0.5	Direct	1575	1/4	1	208
EF-6	Dwelling Unit Bathroom	Roof	Twin Cities 120BE	1200	0.5	Direct	1750	1/2	1	208
EF-7	Dwelling Unit Bathroom	Roof	Twin Cities 095BE	750	0.5	Direct	1650	1/4	1	208
EF-8	Dwelling Unit Bathroom	Roof	Twin Cities 085BE	300	0.5	Direct	1425	1/6	1	208
EF-9	Kitchen Hood	Roof	Captive Aire DU300HFA	7200	1.5	Direct	753	7 1/2	3	208
EF-10	Kitchen Dishwasher	Roof	Captive Aire DU50HFA	900	0.7	Direct	1257	1/2	3	208
EF-11	Dryers	Roof	Twin Cities 130B	2400	0.25	Direct	1750	1/2	1	208
EF-12	Basement Mech. Rooms	Roof	Twin Cities 085BE	300	0.5	Direct	1425	1/8	1	208

Air Cooled Condensing Unit Schedule

Unit No.	Service	Location	Cooling Capacity Nominal/Corrected (MBH)	Heating Capacity Nominal/Corrected (MBH)	Comp. Qty.	Ref.	Electrical Data Volt/Phase	Electrical Data MCA (Amps)	Electrical Data MOCP (Amps)	Weight (lbs)	Manufacturer & Model No.	Remarks
ACCU-B-1	Basement	Roof	96/76.8	10.8/97	1	R-410A	460/3	16	25	507	LG ARUM096DTE5	----
ACCU-B-2	Basement	Roof	192/169.7	216/195	2	R-410A	460/3	36	50	659	LG ARUM192DTE5	----
ACCU-B-3	Basement	Roof	168/146.4	189/170.6	2	R-410A	460/3	28	35	639	LG ARUM168DTE5	----
ACCU-B-4	Basement	Roof	168/133.3	189/153.5	2	R-410A	460/3	28	35	639	LG ARUM168DTE5	----
ACCU-B-5	Basement	Roof	96/91.2	108/98.1	1	R-410A	460/3	16	25	507	LG ARUM096DTE5	----
ACCU-1-1	1st Floor	Roof	72/65.4	81/73.3	1	R-410A	460/3	13	20	430	LG ARUM072DTE5	----
ACCU-1-2	2nd Floor	Roof	96/80	108/97.3	1	R-410A	460/3	16	25	507	LG ARUM096DTE5	----
ACCU-1-3	3rd Floor	Roof	119.7/78.8	135/105	2	R-410A	460/3	18	25	507	LG ARUM121DTE5	----
ACCU-1-4	4th Floor	Roof	144/132	162/147	2	R-410A	460/3	26	35	639	LG ARUM144DTE5	----
ACCU-1-5	5th Floor	Roof	192/168	216/195	2	R-410A	460/3	36	50	659	LG ARUM192DTE5	----
ACCU-1-6	6th Floor	Roof	119.7/107.6	135/121.9	2	R-410A	460/3	18	25	507	LG ARUM121DTE5	----
ACCU-1-7	7th Floor	Roof	144/110.8	162/145.3	2	R-410A	460/3	26	35	639	LG ARUM144DTE5	----
ACCU-1-8	8th Floor	Roof	96/87	108/97.6	1	R-410A	460/3	16	25	507	LG ARUM096DTE5	----
ACCU-1-9	9th Floor	Roof	119.7/87.9	135/119	2	R-410A	460/3	18	25	507	LG ARUM121DTE5	----
ACCU-1-10	10th Floor	Roof	24/17.4	27/20.6	1	R-410A	208/1	20	30	159	LG ARUM024GSS4	----
ACCU-2	2nd Floor	Roof	233/176.8	243/219.1	2	R-410A	460/3	41	50	666	LG ARUM241DTE5	----
ACCU-2-1 (Cinema)	Cinema	Roof	36/33.6	42/34.5	2	R-410A	208/1	24	40	263	LG ARUM036GSS5	----
ACCU-3	3rd Floor	Roof	168/151.7	189/170.9	2	R-410A	460/3	28	35	639	LG ARUM168DTE5	----
ACCU-4-1	Basement	Roof	24/18	27/20.6	1	R-410A	208/1	20	30	159	LG ARUN024GSS4	----
ACCU-4-2	Basement	Roof	24/18	27/20.6	1	R-410A	208/1	20	30	159	LG ARUN024GSS4	----

Make Up Unit Schedule

Unit No.	Location	Manufacturer & Model No.	Fan CFM	Total ESP.	Fan RPM	Fan HP	Fan BHP	Furnace Input (MBH)	Furnace Output (MBH)	Efficiency	FLA	Volt/Phase	Remarks
MAU-1	Roof	Captive Aire A4-IBT	7200	1	917	10	2.803	676	540	80%	25.8	208/3	----

Heat Pump Split-System Schedule

Unit No.	Location	Outdoor Unit	Indoor Unit Airflow (CFM) Total H/L	Indoor Unit Airflow (CFM) Min. O.A.	Indoor Unit Total Cooling (MBH)	Indoor Unit Heating (MBH)	Electrical Data Volt/PH	Electrical Data MCA	Electrical Data MOCP	Manufacturer & Model	Remarks
AC-1	Room 2001	ACCU-1-2	275/208	0	7.5	8.5	208/1	1	15	LG ARNU073SJA4	----
AC-2	Room 1010	ACCU-4-1	275/208	0	9.6	10.9	208/1	1	15	LG ARNU093SJA4	----
AC-3	Room 1008	ACCU-4-1	254/208	0	9.6	10.9	208/1	1	15	LG ARNU093SJA4	----
AC-4	Room 1061	ACCU-4-2	254/208	0	7.5	8.5	208/1	1	15	LG ARNU073SJA4	----
AC-5	Room 1044	ACCU-4-2	254/208	0	7.5	8.5	208/1	1	15	LG ARNU073SJA4	----

LOUVER SCHEDULE

"RUSKIN" AS STANDARD OR APPROVED EQUAL

TAG	LOCATION	NOMINAL SIZE (IN)	FREE AREA (SF)	CFM	MATERIAL BLADE/ FRAME	FRAME DEPTH (IN)	DRAINABLE	MODEL	REMARKS
L-1	BASEMENT MECH. RM (1012)	16x16	0.69	200	EXTRUDED ALUMINUM	4	YES	GFL800D	PROVIDE WITH ALUMINUM MESH BIRD & INSECT SCREEN
L-2	BASEMENT WATER HEATER RM (1014)	12x12	0.34	100	EXTRUDED ALUMINUM	4	YES	GFL800D	PROVIDE WITH ALUMINUM MESH BIRD & INSECT SCREEN

GENERAL NOTE:

1. CONTRACTOR SHALL PROVIDE BMS SYSTEM TO MONITOR VRF SYSTEM AND ERV'S AT A CENTRAL COMPUTER.

UNIT HEATER SCHEDULE

UNIT NO.	SERVICE	LOCATION	BASIS OF DESIGN MANUFACTURER'S MODEL # OR APPROVED EQUAL	SIZE (WxHxD)	ELECTRICAL DATA V/PH/HZ	TOTAL CAPACITY KW	REMARKS:
UH-1	STAIRWELL	STAIR #1, #2 & #3	QMARK CWH3307F	15¾"x19⁵⁄₁₆" x5"	277/1/60	3/1.5	SEE NOTES 1,2 & 3
UH-2	MECH. ROOM	BASEMENT WATER HEATER ROOM AND BASEMENT MECHANICAL ROOM	MODINE HER30	14¾"x17⅞" x12¾"	208/1/60	3	SEE NOTES 1 & 3

NOTE:

1. PROVIDE UNIT WITH DISCONNECT.
2. PROVIDE UNIT WITH SURFACE MOUNTING FRAME.
3. PROVIDE UNIT WITH ELECTRIC MOTOR TOTALLY ENCLOSED & THERMALLY PROTECTED.

ROOM-BY-ROOM PTAC SCHEDULE

BASEMENT PART A

ROOM #	TYPE OF PTAC UNIT
1126	PTAC-2
1125	PTAC-1
1125A	PTAC-2
1124	PTAC-1
1124A	PTAC-2
1123	PTAC-1
1121	PTAC-1
1121A	PTAC-1
1119	PTAC-1
1117	PTAC-1
1115	PTAC-1
1115A	PTAC-1
1113	PTAC-1
1113A	PTAC-1
1111	PTAC-1
1109	PTAC-2
1107	PTAC-1
1105	PTAC-1
1105A	PTAC-1

BASEMENT PART B

ROOM #	TYPE OF PTAC UNIT
1223	PTAC-1
1221	PTAC-1
1221A	PTAC-1
1219	PTAC-1
1217	PTAC-1
1215	PTAC-1
1215A	PTAC-1
1213	PTAC-1
1213A	PTAC-1
1211	PTAC-1
1207	PTAC-1
1205	PTAC-1
1205A	PTAC-1

1ST FLOOR PART A

ROOM #	TYPE OF PTAC UNIT
2126	PTAC-1
2125	PTAC-3
2125A	PTAC-1
2124	PTAC-3
2124A	PTAC-1
2123	PTAC-1
2122	PTAC-1
2121	PTAC-1
2121A	PTAC-1
2120	PTAC-1
2120A	PTAC-1
2119	PTAC-1
2118	PTAC-1
2118A	PTAC-1
2117	PTAC-1
2116	PTAC-1
2114	PTAC-3
2112	PTAC-1

2ND FLOOR PART A

ROOM #	TYPE OF PTAC UNIT
3126	PTAC-2
3125	PTAC-3
3125A	PTAC-1
3124	PTAC-1
3124A	PTAC-3
3123	PTAC-1
3122	PTAC-1
3121	PTAC-1
3121A	PTAC-1
3120	PTAC-1
3120A	PTAC-1
3119	PTAC-1
3118	PTAC-1
3118A	PTAC-1
3117	PTAC-1
3116	PTAC-1
3115	PTAC-1
3115A	PTAC-1
3114	PTAC-3
3113	PTAC-1
3113A	PTAC-1
3112	PTAC-1
3111	PTAC-1
3110	PTAC-1
3110A	PTAC-1
3109	PTAC-1
3109A	PTAC-1
3108	PTAC-1
3108A	PTAC-1
3107	PTAC-1
3106	PTAC-1
3104	PTAC-1
3104A	PTAC-1
3102	PTAC-1
3102A	PTAC-1

2ND FLOOR PART B

ROOM #	TYPE OF PTAC UNIT
3226	PTAC-2
3225	PTAC-3
3225A	PTAC-1
3224	PTAC-1
3224A	PTAC-3
3223	PTAC-1
3222	PTAC-1
3221	PTAC-1
3221A	PTAC-1
3220	PTAC-1
3220A	PTAC-1
3219	PTAC-1
3218	PTAC-1
3218A	PTAC-1
3217	PTAC-1
3216	PTAC-1
3215	PTAC-1
3215A	PTAC-1
3214	PTAC-2
3213	PTAC-1
3213A	PTAC-1
3212	PTAC-1
3211	PTAC-1
3210	PTAC-1
3210A	PTAC-1
3209	PTAC-1
3209A	PTAC-2
3208	PTAC-1
3208A	PTAC-1
3207	PTAC-1
3206	PTAC-1
3204	PTAC-1
3204A	PTAC-1
3202	PTAC-1
3202A	PTAC-1

3RD FLOOR PART A

ROOM #	TYPE OF PTAC UNIT
4126	PTAC-2
4125	PTAC-4
4125A	PTAC-1
4124	PTAC-4
4124A	PTAC-1
4123	PTAC-2
4122	PTAC-2
4121	PTAC-2
4121A	PTAC-1
4120	PTAC-2
4120A	PTAC-2
4119	PTAC-2
4118	PTAC-2
4118A	PTAC-1
4117	PTAC-2
4116	PTAC-2
4115	PTAC-1
4115A	PTAC-2
4114	PTAC-3
4113	PTAC-1
4113A	PTAC-2
4112	PTAC-2
4111	PTAC-2
4110	PTAC-2
4110A	PTAC-1
4109	PTAC-1
4109A	PTAC-2
4108	PTAC-1
4108A	PTAC-2
4107	PTAC-2
4106	PTAC-2
4105	PTAC-1
4105A	PTAC-2
4104	PTAC-1
4104A	PTAC-2
4103	PTAC-1
4103A	PTAC-2
4102	PTAC-1
4102A	PTAC-2
4101	PTAC-2

3RD FLOOR PART B

ROOM #	TYPE OF PTAC UNIT
4226	PTAC-2
4225	PTAC-1
4225A	PTAC-4
4224	PTAC-4
4224A	PTAC-1
4223	PTAC-2
4222	PTAC-2
4221	PTAC-1
4221A	PTAC-2
4220	PTAC-1
4220A	PTAC-2
4219	PTAC-2
4218	PTAC-1
4218A	PTAC-2
4217	PTAC-2
4216	PTAC-2
4215	PTAC-1
4215A	PTAC-2
4214	PTAC-3
4213	PTAC-1
4213A	PTAC-2
4212	PTAC-2
4211	PTAC-2
4210	PTAC-1
4210A	PTAC-2
4209	PTAC-1
4209A	PTAC-2
4208	PTAC-1
4208A	PTAC-2
4207	PTAC-2
4206	PTAC-2
4205	PTAC-4
4205A	PTAC-5
4204	PTAC-1
4204A	PTAC-2
4203	PTAC-4
4203A	PTAC-5
4202	PTAC-1
4202A	PTAC-2
4201	PTAC-2

File Name: F:\2015\15-345A NEW ASSISTED LIVING RESIDENCE\H8.1.dwg (Layout: H8.1)
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MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/03/22	ISSUE FOR BID
1	07/22/22	ADDENDUM #1
	08/08/22	ISSUED FOR CONSTRUCTION

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PMC	SRB	EDF	MDF
PROJECT No: FILB 1501	DATE: 11/15/19	SCALE: AS SHOWN	

CLIENT:
Montebello Realty GP LLC

Braemar at Montebello Assisted Living Residence

**Montebello Crossing,
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York**

CONTRACT

STATUS: FOR CONSTRUCTION

SHEET TITLE: HVAC: SCHEDULES

DRAWING No. H8.1

SHEET No. OF

Fan Coil Unit Schedule

Unit No.	Location	CFM		Fan Data		Corrected Cooling Capacity (MBH)		Cooling Air Data		Cooling Coil Data	Corrected Heating Capacity (MBH)	Heating Air Data		Filter Data	Electrical Data		LG Model #	Remarks
		Total	Min. O.A	Drive	Motor Qty.	Total	Sensible	EAT (ºF)	LAT (ºF)	Fluid		EAT (ºF)	LAT (ºF)	Type	Volt/PH	MCA		
Basement																		
FCU B01	Room 1021	600	200	Direct	1	19.4	15.8	77.00	52.5	R410A	26.8	63.3333	105.2	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B02	Room 1017	680	110	Direct	1	22	17.9	75.97	52.5	R410A	29.4	66.7647	105.2	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B03	Room 1018	430	70	Direct	1	10.9	8.9	75.98	57.5	R410A	14.9	66.7442	96.8	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU B04	Room 1016	760	360	Direct	1	24.5	19.6	77.84	53.1	R410A	33.0	60.5263	101.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B05	Room 1007	595	100	Direct	1	18.8	15.5	76.01	52	R410A	25.5	66.6387	106.2	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B06	Room 1027	410	130	Direct	1	16.2	13.2	76.90	52.6	R410A	22.3	63.6585	105.2	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B07	Room 1004	340	50	Direct	1	9	9.0	75.88	52.4	R410A	11.9	67.0588	96	3/16" Washable	208/1	2.3	ARNU153M2A4	MAX. ESP =0.7
FCU B08	Room 1066	500	170	Direct	1	15.9	15.9	77.04	47.8	R410A	21.2	63.2	101.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B09	Room 1067	430	90	Direct	1	10.8	10.8	76.26	53.4	R410A	14.4	65.814	95.4	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU B10	Room 1030	500	210	Direct	1	15.9	15.9	77.52	48.2	R410A	21.2	61.6	100.3	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B11A-1	Room 1032	1600	335	Direct	1	31.8	20.6	76.26	65.4	R410A	42.2	65.8125	86.7	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU B11B-1	Room 1032	720	670	Direct	1	22.9	16.7	80.58	59.2	R410A	30.5	51.3889	98.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B11C-1	Room 1032	825	335	Direct	1	26.3	17.3	77.44	58.1	R410A	34.9	61.8788	101	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B11A-2	Room 1032	1600	335	Direct	1	31.8	34.5	76.26	65.4	R410A	42.2	65.8125	86.7	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU B11B-2	Room 1032	720	670	Direct	1	22.9	24.0	80.58	59.2	R410A	30.5	51.3889	98.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B11C-2	Room 1032	825	335	Direct	1	26.3	24.0	77.44	58.1	R410A	34.9	61.8788	101	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B12	Room 1064	875	190	Direct	1	27.9	17.2	76.30	59.7	R410A	37.0	65.6571	99.6	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B13	Room 1034	1600	310	Direct	1	31.1	27.9	76.16	60.9	R410A	41.4	66.125	87.1	3/16" Washable	208/1	5.2	ARNU423B8A4	MAX. ESP =0.7
FCU B14	Room 1035	645	380	Direct	1	22	17.5	78.53	53.5	R410A	29.3	58.2171	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B15	Room 1060	338	338	Direct	1	8.2	6.4	81.00	63.6	R410A	10.1	50	86.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B16	Room 1059	430	430	Direct	1	15.6	12.0	81.00	54.9	R410A	19.5	50	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B17	Room 1051	430	430	Direct	1	15.6	12.1	81.00	54.9	R410A	19.5	50	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B18	Room 1039	510	300	Direct	1	17.4	13.9	78.53	53.4	R410A	23.2	58.2353	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B19	Room 1043	545	140	Direct	1	17.5	14.3	76.54	52.3	R410A	24.0	64.8624	105.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B20	Room 1048	430	160	Direct	1	14.4	11.6	77.23	53.2	R410A	19.4	62.5581	101.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B21	Room 1049	680	290	Direct	1	22.5	18.1	77.56	52.9	R410A	30.6	61.4706	103	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B22	Room 1042	500	200	Direct	1	19.7	15.9	77.40	52.8	R410A	22.4	62	103.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU B23	Room 1046	600	230	Direct	1	19.7	15.9	77.30	52.8	R410A	26.9	62.3333	103.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FIRST FLOOR																		
FCU 101	Room 2012	500	60	Direct	1	12.5	10.3	75.72	57.1	R410A	17.3	67.6	98.4	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 102	Room 2010	500	280	Direct	1	15.8	12.5	78.36	53.5	R410A	20.2	58.8	99.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 103	Room 2009	425	70	Direct	1	10.8	8.8	75.99	57.5	R410A	14.7	66.7059	96.6	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 104	Room 2010	430	170	Direct	1	14.2	11.5	77.37	52.9	R410A	18.9	62.093	102.2	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 105	Room 2022	770	370	Direct	1	25.8	20.7	77.88	53.1	R410A	33.8	60.3896	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 106	Room 2023	430	290	Direct	1	15.2	11.9	79.05	54.2	R410A	18.9	56.5116	99.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 107	Room 2008	810	330	Direct	1	26.7	21.6	77.44	52.8	R410A	35.5	61.8519	102.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 108	Room 2007	810	280	Direct	1	26.7	21.6	77.07	52.8	R410A	35.5	63.0864	102.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 109A	Room 2005	1350	310	Direct	2	28.5	28.5	76.38	57.7	R410A	35.3	65.4074	86.8	3/16" Washable	208/1	5.2	ARNU483B8A4	MAX. ESP =0.7
FCU 109B	Room 2005	750	250	Direct	1	23.9	17.4	77.00	55.7	R410A	29.6	63.3333	99.3	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 110	Room 2025	700	330	Direct	1	17.6	13.1	77.83	63.7	R410A	21.8	60.5714	87.7	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 111	Room 2029	750	250	Direct	1	18.9	13.1	77.00	64.8	R410A	23.3	63.3333	87.7	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 112A-1	Room 2031	1600	325	Direct	2	32.4	24.0	76.22	64.6	R410A	40.1	65.9375	85.3	3/16" Washable	208/1	5.2	ARNU363B8A4	MAX. ESP =0.7
FCU 112B-1	Room 2031	800	550	Direct	1	27.1	16.9	79.13	59.9	R410A	33.5	56.25	95.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 112C-1	Room 2031	850	480	Direct	1	27.1	17.0	78.39	60.9	R410A	33.5	58.7059	95.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 112A-2	Room 2031	1600	325	Direct	2	32.4	24.0	76.22	64.6	R410A	40.1	65.9375	85.3	3/16" Washable	208/1	5.2	ARNU363B8A4	MAX. ESP =0.7
FCU 112B-2	Room 2031	800	550	Direct	1	25.5	16.9	79.13	59.9	R410A	33.5	56.25	95.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 112C-2	Room 2031	850	480	Direct	1	27.1	17.0	78.39	60.9	R410A	33.5	58.7059	95.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 114	Room 2002	760	230	Direct	1	18.9	13.6	76.82	61	R410A	23.3	63.9474	89.5	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 115	Room 2033	550	120	Direct	1	17.5	17.5	76.31	47.2	R410A	21.7	65.6364	101.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 116	Room 2078	520	150	Direct	1	16.6	16.6	76.73	47.6	R410A	20.5	64.2308	99.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 117	Room 2078	800	250	Direct	1	20.1	13.6	76.88	61.9	R410A	24.9	63.75	90.1	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7
FCU 118	Room 2033	450	230	Direct	1	14.3	14.3	78.07	49.1	R410A	17.7	59.7778	95.4	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 119	Room 2035	1650	340	Direct	2	34.8	31.9	76.24	59.1	R410A	43.1	65.8788	87.3	3/16" Washable	208/1	5.2	ARNU483B8A4	MAX. ESP =0.7
FCU 120	Room 2035A	1600	170	Direct	1	32.4	20.7	75.64	65.5	R410A	44.9	67.875	88	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU 121A	Room 2035B	1600	85	Direct	1	32	12.1	75.32	64	R410A	44.4	68.9375	91.8	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU 121B	Room 2035B	1600	205	Direct	1	32	21.1	75.77	64	R410A	44.4	67.4375	91.8	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU 122	Room 2073	610	350	Direct	1	19.6	17.3	78.44	51.9	R410A	27.2	58.5246	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7

Fan Coil Unit Schedule

FCU 123	Room 2074	650	180	Direct	1	17.4	11.2	76.66	61.3	R410A	24.2	64.4615	97.2	3/16" Washable	208/1	2.3	ARNU153M2A4	MAX. ESP =0.7
FCU 124	Room 2075	550	260	Direct	1	17.6	17.3	77.84	48.7	R410A	24.5	60.5455	101.6	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 125A	Room 2069	500	315	Direct	1	16	16.0	78.78	49.2	R410A	22.3	57.4	100.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 125B	Room 2069	500	315	Direct	1	16	16.0	78.78	49.2	R410A	22.3	57.4	100.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 126	Room 2066	780	350	Direct	1	25	17.4	77.69	57.2	R410A	34.7	61.0256	102.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 127	Room 2052	1350	190	Direct	1	27	21.0	75.84	62.1	R410A	37.4	67.1852	90.9	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP =0.7
FCU 128	Room 2043	430	210	Direct	1	13.8	13.8	77.93	48.3	R410A	19.1	60.2326	101.3	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 129	Room 2046	690	220	Direct	1	22.5	17.5	76.91	53.8	R410A	31.2	63.6232	104.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 130	Room 2054	550	260	Direct	1	17.6	17.3	77.84	48.7	R410A	24.5	60.5455	101.6	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 131	Room 2065	550	200	Direct	1	17.6	17.4	77.18	48.4	R410A	24.5	62.7273	102.6	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 132	Room 2060	850	300	Direct	1	27.3	17.4	77.12	58.6	R410A	37.8	62.9412	102.6	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
FCU 133	Room 2061	338	80	Direct	1	7.1	7.1	76.42	61.9	R410A	10.0	65.2663	86.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP =0.7
Second Floor																		
FCU 201	Room 3006	430	70	Direct	1	10.8	8.9	75.98	57.3	R410A	14.7	66.74	97.3	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
FCU 202	Room 3005	600	370	Direct	1	16.9	13.5	78.70	53.3	R410A	22.7	57.67	101.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 203	Room 3002	660	330	Direct	1	22.2	17.8	78.00	53.2	R410A	29.9	60.00	101.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 204	Room 3003	430	200	Direct	1	15	11.9	77.79	53.9	R410A	19.5	60.70	100.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 205	Room 3014	640	170	Direct	1	20.6	16.8	76.59	52.4	R410A	28.3	64.69	105.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 206	Room 3015	660	210	Direct	1	22.2	17.8	76.91	53.2	R410A	29.9	63.64	101.7	3/16" Washable	208/1	2.5	ARNU243M2A4	MAX. ESP = 0.7
FCU 207	Room 3016	1450	310	Direct	1	30.7	35.1	76.28	62.4	R410A	40.9	65.72	85.1	3/16" Washable	208/1	2.5	ARNU283M3A4	MAX. ESP = 0.7
FCU 208A	Room 3017	800	260	Direct	1	20.1	13.6	76.95	61.9	R410A	24.9	63.50	90.1	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
FCU 208B	Room 3017	800	260	Direct	1	20.1	13.6	76.95	61.9	R410A	24.9	63.50	90.1	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
FCU 209	Room 3018	320	60	Direct	1	10.8	8.9	76.13	57.3	R410A	14.7	66.25	97.3	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
FCU 210	Room 3021	530	320	Direct	1	16.9	13.5	78.62	53.3	R410A	22.7	57.92	101.1	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 211	Room 3025	430	100	Direct	1	10.8	8.9	76.40	57.3	R410A	14.7	65.35	97.3	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
Third Floor																		
FCU 301	Room 4006	430	70	Direct	1	15.4	15.4	75.98	43.2	R410A	17.1	66.74	102.3	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP = 0.7
FCU 302	Room 4005	600	270	Direct	1	22.7	22.7	77.70	36.2	R410A	25.2	61.00	105.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 303	Room 4002	340	120	Direct	1	12.9	12.9	77.12	42.2	R410A	14.3	62.94	101.2	3/16" Washable	208/1	2.3	ARNU153M2A4	MAX. ESP = 0.7
FCU 304	Room 4003	430	200	Direct	1	19.6	19.6	77.79	37.4	R410A	21.7	60.70	105.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 305	Room 4026	430	130	Direct	1	19.6	19.6	76.81	34.8	R410A	21.7	63.95	110.5	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 306	Room 4014	570	160	Direct	1	25.9	24.9	76.68	36.4	R410A	28.7	64.39	110.9	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 307	Room 4017	500	270	Direct	1	22.7	22.7	78.24	36.3	R410A	25.2	59.20	105.7	3/16" Washable	208/1	2.3	ARNU243M2A4	MAX. ESP = 0.7
FCU 308	Room 4021	320	70	Direct	1	15.4	15.4	76.31	43.2	R410A	17.1	65.63	102.3	3/16" Washable	208/1	2.3	ARNU183M2A4	MAX. ESP =0.7

NOTE:

1. PROVIDE COMPLETE VRF SYSTEM WITH HEAT RECOVERY UNITS.

VRF SYSTEM NOTES:

1. REFER TO MANUFACTURER PROVIDED DETAILED REFRIGERANT PIPE SIZING & FITTING SCHEMATIC. MECHANICAL CONTRACTOR TO CONFIRM WITH MANUFACTURER'S REP. (KLIMA NY) PIPING SIZES PRIOR TO INSTALLATION. NO DEVIATIONS UNLESS PRIOR APPROVAL IS OBTAINED.
2. INSULATE ALL LINES.
3. ALL CONDENSERS 20 TONS & UNDER SHALL BE SINGLE CHASSIS & SINGLE POINT POWER.
4. EACH CONDENSER MODULE SHALL BE MOUNTED ON EQUIPMENT SUPPORTS WITH NEOPRENE RUBBER VIBRATION ISOLATION (CORK PADS ARE NOT ACCEPTABLE).
5. ROOFTOP CONDENSERS TO HAVE HAIL GUARDS, CONDENSER TIE-DOWNS AND DRAIN PAN HEATERS. 1
6. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL THE DISCONNECTS FOR INDOOR & OUTDOOR UNITS.
7. ALL BIDDING MECHANICAL CONTRACTORS SHALL BE LG TRAINED & CERTIFIED FOR INSTALLATION OF SPECIFIED EQUIPMENT. ANY CONTRACTOR NOT CERTIFIED WILL BE DISQUALIFIED.
8. EQUIPMENT MUST HAVE 10 YEAR EXTENDED WARRANTY. MECHANICAL CONTRACTOR MUST REGISTER THE EQUIPMENT WITHIN SIXTY (60) DAYS OF INSTALLATION ON BEHALF OF THE OWNER. 1
9. BMS MUST BE THE SAME MANUFACTURER AS EQUIPMENT BEING SUPPLIED AND BASED ON NIAGARA/TRIDIUM 4.1 OR LATER PLATFORM.
10. ERV CONTROLS MUST BE LG NIAGARA/TRIDIUM 4.1 OR LATER PLATFORM BASED FOR EASE OF BMS INTEGRATION.
11. BMS TO BE INSTALLED AND COMMISSIONED BY THE EQUIPMENT BEING PROVIDED.
12. VRF, ERV'S, PTACS AND BMS CONTROLS TO BE PRE-PURCHASED. IF THERE ARE ANY QUESTIONS AND/OR CONCERNS REGARDING THE EQUIPMENT OR CONTROLS BEING SUPPLIED, PLEASE REACH OUT TO MichaelR@Klimany.com

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MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/03/22	ISSUE FOR BID
1	07/22/22	ADDENDUM #1
	08/08/22	ISSUED FOR CONSTRUCTION

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PMC	SRB	EDF	MDF
PROJECT No: FILB 1501	DATE: 11/15/19	SCALE: AS SHOWN	

CLIENT:
Montebello Realty GP LLC

Braemar at Montebello Assisted Living Residence

**Montebello Crossing,
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York**

CONTRACT

STATUS: FOR CONSTRUCTION

SHEET TITLE: **HVAC: SCHEDULES**

DRAWING No.: **H8.2**

SHEET No. OF

File Name: F:\2015\15-345A NEW ASSISTED LIVING RESIDENCE\H8.2.dwg (Layout: H8.2)
Date: Mon, Aug 08, 2022 - 9:30 AM (Name: aly)