

































- AHU-# Air Handler Unit
- ASHP-# Air Source Heat Pump
- B-# Boiler
- BD Backdraft Damper
- DCW Domestic Cold Water
- DHW Domestic Hot Water
- DMW Domestic Mixed Temp Water
- DH-# Dehumidifier
- EF-# Exhaust Fan
- ERV-# Energy Recovery Ventilator
- EXP-# Expansion Tank
- H-# Humidifier
- HX-# Heat Exchanger
- LLH-# Low Loss Header
- MD Motorized Zone Damper
- MUA-# Makeup Air
- P-# Circulating Pump
- SF-# System Feeder
- TH-# Thermostat/Humidistat
- TYP Typical
- VD Volume Damper
- WH-# Water Heater
-  2-way Motorized Valve
-  3-way Motorized Mixing Valve
-  3-way Motorized Diverting Valve
-  Thermostatic Mixing Valve
-  Pressure Relief Valve
-  Check Valve
-  Isolation Ball Valve
-  Manual Air Vent
-  Drain/Purge Connection
-  Exhaust Register
-  Return Register
-  Supply Register
-  Duct Riser
-  Duct Drop
- # x # Duct Dimensions (in)
- # R Round Duct (in)
-  XX=Register Type
-  CFM=Airflow (CFM)
-  A=Register Length (in)
-  B=Register Width (in)
- (REGISTER SIZING BASED ON 50% FA)
-  Floor Supply
-  Wall Supply
-  Ceiling Supply
-  Floor Return
-  Wall Return
-  Ceiling Return
-  Floor Intake
-  Wall Intake
-  Ceiling Intake
-  Roof Intake
-  Floor Exhaust
-  Wall Exhaust
-  Ceiling Exhaust
-  Roof Exhaust

1. THE INSTALLING CONTRACTOR SHALL EXAMINE ALL SPECIFICATIONS, DRAWINGS, AND FEATURES OF BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND BE GOVERNED BY THESE SPECIFICATIONS. INCLUDING THE GENERAL CONDITIONS AND PARTICULAR INSTRUCTIONS TO ALL CONTRACTORS AND SUPPLIERS.
2. ALL WORK SHALL BE EXECUTED AND INSPECTED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND/OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THIS PARTICULAR CLASS OF WORK, AND EACH CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL SERVICE CHARGES, FEES, PERMITS, ROYALTIES, TAXES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH.
3. PRIOR TO FABRICATION OF DUCTWORK, CONTRACTOR SHALL EXAMINE AND VERIFY ALL CONDITIONS ABOVE AND BELOW THE CEILING WHICH MAY INTERFERE WITH THE WORK SHOWN AND NOTIFY THE ARCHITECTS OF ANY CONFLICT ENCOUNTERED. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS, ETC. WHICH MAY BE REQUIRED, WITHOUT ADDITIONAL COST TO THE OWNER.
4. ALL SHEET METAL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. FLEX DUCT SHALL BE LIMITED TO NO MORE THAN 6 FEET. ALL BRANCH RUN-OUTS SHALL BE EQUIPPED WITH VOLUME DAMPERS TO PROVIDE PROPER BALANCING OF THE SYSTEM.
5. ALL DUCTS/VENTS SHALL BE INSULATED TO MEET ALL FEDERAL, STATE, AND LOCAL ENERGY CODES. THE DUCTS/VENTS SHALL ALSO BE SUPPORTED WITH 1" WIDE, 16 GAUGE GALVANIZED STEEL BAND, OR AN APPROVED SUPPORT SYSTEM.
6. ALL MECHANICAL ROOM EQUIPMENT SHALL BE INSTALLED WITH PROPER EQUIPMENT LABELING, CLEANLY WRAPPED INSULATION, AND IN AN ORGANIZED CONFIGURATION.
7. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED WITH THE UTMOST CARE AND CONSIDERATION TO PREVENT ANY NOISE AND VIBRATION MIGRATION TO THE LIVING SPACE. THIS IS TO INCLUDE BUT NOT LIMITED TO ALL HEATING, COOLING AND VENTILATION EQUIPMENT AS WELL AS ASSOCIATED DUCT WORK. ALL MOVING/VIBRATING EQUIPMENT SHALL BE RESILIENTLY SUPPORTED, WHICH MAY INCLUDE ISOLATION DAMPERS.
8. ENSURE ALL REGISTER BOXES ARE PROPERLY SEALED DURING THE CONSTRUCTION PHASE TO PREVENT MATERIAL, DIRT AND DEBRIS FROM ENTERING INTO DUCTED SYSTEMS.
9. ALL INTAKE AND EXHAUST TERMINATIONS SHALL BE EXECUTED IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, AND THE EQUIPMENT MANUFACTURER RECOMMENDATIONS.
10. ALL INTAKE AND EXHAUST TERMINATIONS SHALL BE INSTALLED MINIMUM 12 INCHES ABOVE PUBLISHED SNOW LINE.
11. ALL AIR TERMINATIONS TO INCLUDE BIRD / INSECT SCREEN WHERE ALLOWED BY CODE TO PREVENT INSECT AND CRITTER INTRUSION INTO THE BUILDING.
12. ERV AND BATH EXHAUST DUCTWORK TO BE GALVANIZED STEEL WITH FLEX DUCT ALLOWED FOR THE FIRST 6 FEET.
13. ALL SUPPLY REGISTERS SHALL BE BASED ON AIR VELOCITIES OF 500 FPM. ALL RETURN REGISTERS SHALL BE BASED ON AIR VELOCITIES OF 400 FPM. ADEQUATE FREE AREA AT THE REGISTER SHALL BE PROVIDED TO ENSURE THESE VELOCITIES ARE MET.
14. REGISTER SIZES SHOWN ON DRAWINGS ARE BASED ON A 50% FREE AREA UNLESS OTHERWISE NOTED. PLEASE REFER TO RGD LEGEND FOR SPECIFICS REGARDING AIRFLOW AND MANUFACTURER SELECTION. COORDINATE WITH OWNER ON FINAL REGISTER TYPE.
15. AIR TERMINATIONS AND LOUVERS SHALL BE SIZED AND INSTALLED TO PREVENT WATER (RAIN OR SNOW) AND INSECT INTRUSION INTO THE DUCTWORK/BUILDING. THE VELOCITY OF AIR THROUGH AN INTAKE OR EXHAUST LOUVER/TERMINATION SHALL BE KEPT AT 500 FPM OR LESS. THE MATERIAL OF THE TERMINATION SHALL BE SELECTED BY THE ARCHITECT (RECOMMEND STAINLESS STEEL OR ALUMINUM). MULTIPLE INTAKES OR EXHAUSTS CAN BE GROUPED TOGETHER WHERE ALLOWED BY CODE TO FORM A SINGLE TERMINATION FOR EACH.
16. ALL THERMOSTATS AND HUMIDISTATS SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICAN DISABILITY ACT (ADA). THE EXACT LOCATION SHALL BE VERIFIED BY THE ARCHITECT.
17. ALL CONDENSATE DRAINS SHALL BE PITCHED AT A MINIMUM SLOPE OF 1/4" PER LINEAR FOOT TO A WASTE WATER DRAIN. IF ACCESS TO A WASTE WATER DRAIN IS NOT AVAILABLE THEN A CONDENSATE PUMP SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MECHANICAL CONTROL LOGIC NOT ISSUED AS PART OF SD SET



DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

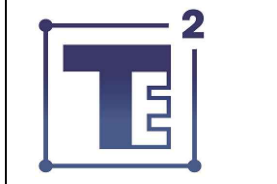
CHILMARK SCHOOL

8 STATE ROAD
CHILMARK, MA 02535

LEGEND, NOTES & CONTROL LOGIC

Scale: NONE

DWN: MW



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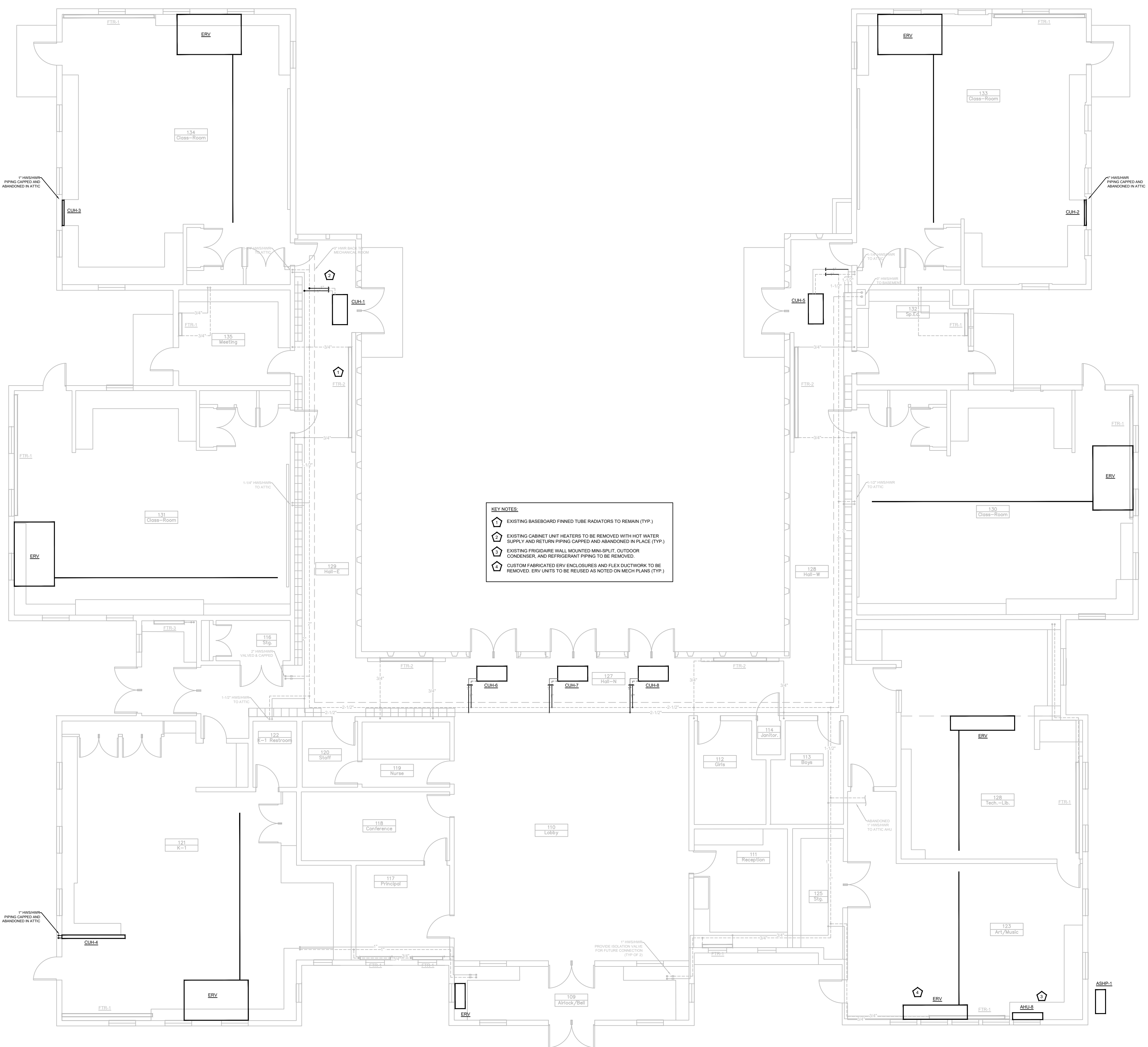
DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL
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FIRST FLOOR AND BASEMENT
 HVAC DEMO PLAN
 Scale: as noted

DWIN: MW

M-1.0



KEY NOTES:

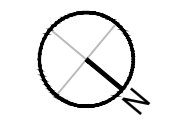
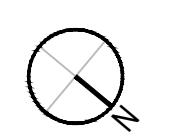
- EXISTING BASEBOARD FINNED TUBE RADIATORS TO REMAIN (TYP.)
- EXISTING CABINET UNIT HEATERS TO BE REMOVED WITH HOT WATER SUPPLY AND RETURN PIPING CARRIED AND ABANDONED IN PLACE (TYP.)
- EXISTING FRIGIDAIRE WALL MOUNTED MINI-SPLIT, OUTDOOR CONDENSER, AND REFRIGERANT PIPING TO BE REMOVED
- CUSTOM FABRICATED ERV ENCLOSURES AND FLEX DUCTWORK TO BE REMOVED. ERV UNITS TO BE REUSED AS NOTED ON MECH PLANS (TYP.)

KEY NOTES:

- OIL STORAGE TANKS, BOILERS, PUMPS AND HOT WATER SYSTEM PIPING TO REMAIN.

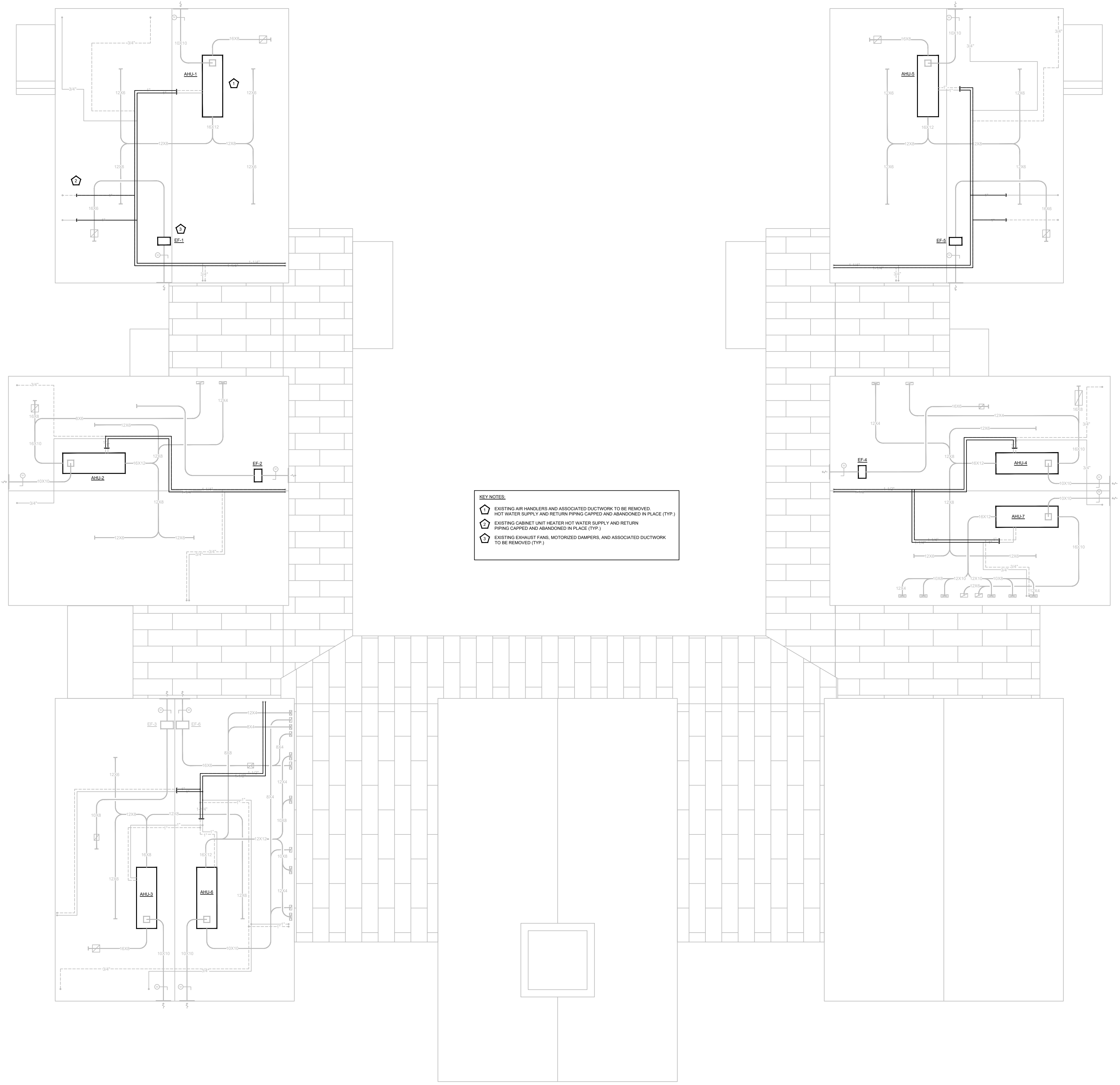
1 FIRST FLOOR DEMO PLAN
 1/8" = 1'-0"

2 BASEMENT DEMO PLAN
 1/4" = 1'-0"





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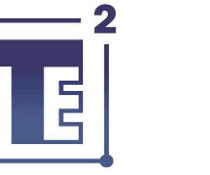
DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL
 8 STATE ROAD
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ATTIC/ROOF
 HVAC DEMO PLAN
 Scale: as noted

DWN: MW

1 ATTIC/ROOF DEMO PLAN
 1/8" = 1'-0"



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DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

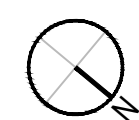
CHILMARK SCHOOL

8 STATE ROAD
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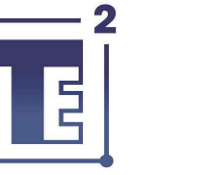
FIRST FLOOR ZONE PLAN
 Scale: as noted

DWN: MW

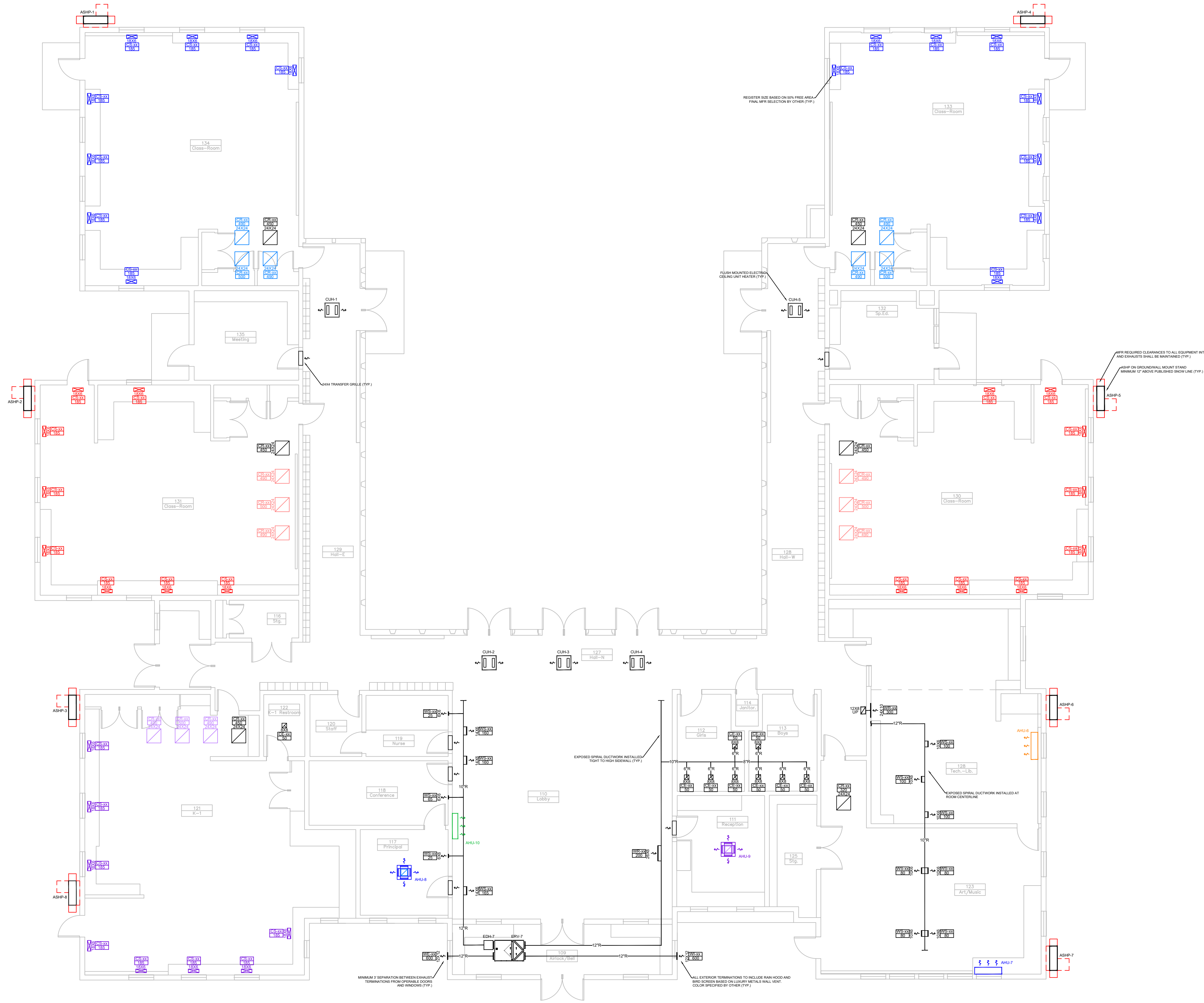
1 FIRST FLOOR ZONE PLAN
 1/8" = 1'-0"



M-2.0



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DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL

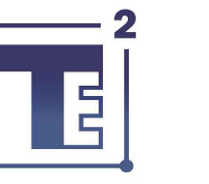
8 STATE ROAD
 CHILMARK, MA 02535

FIRST FLOOR MECHANICAL PLAN

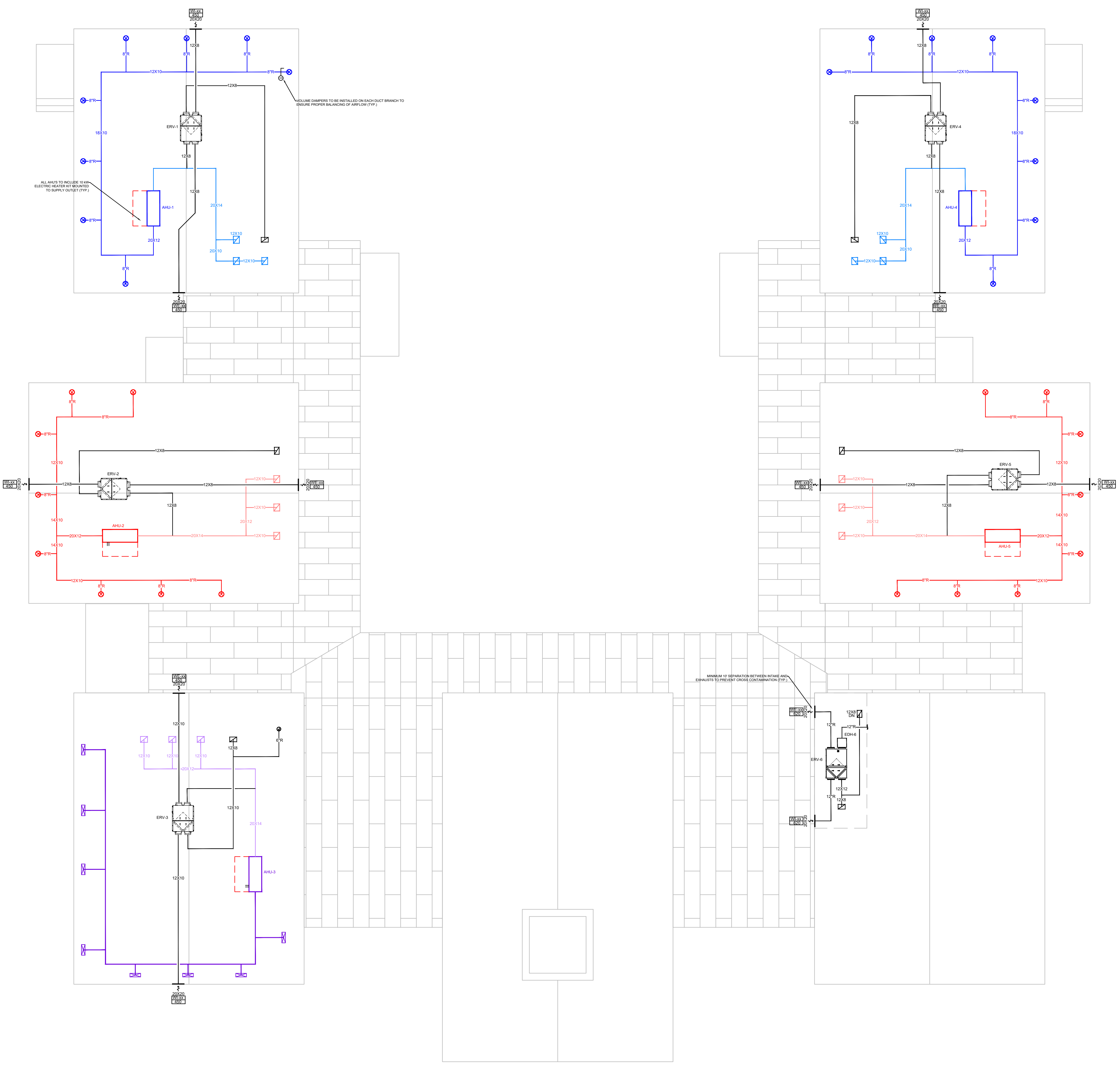
Scale: as noted
 DWN: MW

1 FIRST FLOOR MECHANICAL PLAN
 1/8" = 1'-0"

M-3.0



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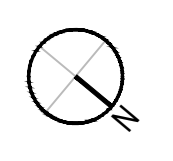
DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL
 8 STATE ROAD
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ATTIC MECHANICAL PLAN
 Scale: as noted

DWN: MW

1 ATTIC MECHANICAL PLAN
 1/8" = 1'-0"



M-3.1



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MECHANICAL CONCEPTUAL SCHEMATIC NOT ISSUED AS PART OF SD SET

DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL

8 STATE ROAD
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MECHANICAL CONCEPTUAL SCHEMATIC
 Scale: NONE

DWN: MW

M-4.0

1 MECHANICAL CONCEPTUAL SCHEMATIC
 NTS



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ASHP-1
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA42NKA

ASHP-2
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA42NKA

ASHP-3
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA42NKA

ASHP-4
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA42NKA

ASHP-5
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA42NKA

ASHP-6
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA30NHA5

ASHP-7
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI PUZ-HA30NHA5

ASHP-8
 HEATING AND COOLING AIR SOURCE HEAT PUMP
 BASIS OF DESIGN: MITSUBISHI MXZ-5C42NAHZ2

AHU-1: CLASSROOM #134 - ZONE 1
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PVA-A42AA7

AHU-2: CLASSROOM #131 - ZONE 2
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PVA-A42AA7

AHU-3: K1 CLASSROOM - ZONE 3
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PVA-A42AA7

AHU-4: CLASSROOM #133 - ZONE 4
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PVA-A42AA7

AHU-5: CLASSROOM #130 - ZONE 5
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PVA-A42AA7

AHU-6: COMPUTER LAB - ZONE 6
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PKA-A30KA7

AHU-7: ART ROOM - ZONE 7
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI PKA-A30KA7

AHU-8: PRINCIPAL - ZONE 8
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI SLZ-KF12NATH

AHU-9: RECEPTION - ZONE 9
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI SLZ-KF12NATH

AHU-10: LOBBY - ZONE 10
 HEATING AND COOLING AIR HANDLER UNIT
 BASIS OF DESIGN: MITSUBISHI MSZ-GL24NA

EDH-1 THRU EDH-5: ELECTRIC DUCT HEATER
 BASIS OF DESIGN: MITSUBISHI EH10-MPA-L(B)

EDH-6: ELECTRIC DUCT HEATER
 BASIS OF DESIGN: RENEWAIRE RHW8240-12

EDH-7: ELECTRIC DUCT HEATER
 BASIS OF DESIGN: RENEWAIRE RHW8240-12

CUH-1: COMMON AREA HEATING
 ELECTRIC CABINET UNIT HEATER
 BASIS OF DESIGN: QMARK CDF-552

CUH-2: COMMON AREA HEATING
 ELECTRIC CABINET UNIT HEATER
 BASIS OF DESIGN: QMARK CDF-552

CUH-3: COMMON AREA HEATING
 ELECTRIC CABINET UNIT HEATER
 BASIS OF DESIGN: QMARK CDF-552

CUH-4: COMMON AREA HEATING
 ELECTRIC CABINET UNIT HEATER
 BASIS OF DESIGN: QMARK CDF-552

CUH-5: COMMON AREA HEATING
 ELECTRIC CABINET UNIT HEATER
 BASIS OF DESIGN: QMARK CDF-552

ERV-1: CLASSROOM #134
 BASIS OF DESIGN: RENEWAIRE EV 450

ERV-2: CLASSROOM #131
 BASIS OF DESIGN: RENEWAIRE EV 450

ERV-3: K1 CLASSROOM
 BASIS OF DESIGN: RENEWAIRE EV 450

ERV-4: CLASSROOM #133
 BASIS OF DESIGN: RENEWAIRE EV 450

ERV-5: CLASSROOM #130
 BASIS OF DESIGN: RENEWAIRE EV 450

ERV-6: LAB & ART ROOM
 BASIS OF DESIGN: RENEWAIRE HE1XINH ECM

ERV-7: LOBBY COMMON AREAS
 BASIS OF DESIGN: RENEWAIRE HE1XINH ECM

DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL

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MECHANICAL SCHEDULE
 Scale: NONE

DWN: MW

M-5.0



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MECHANICAL DETAILS NOT ISSUED AS PART OF SD SET

DATE	DESCRIPTION
12.23.20	SD MECHANICAL SET

CHILMARK SCHOOL

8 STATE ROAD
 CHILMARK, MA 02535

MECHANICAL DETAILS
 Scale: NONE

DWN: MW

1 MECHANICAL DETAILS
 NTS

M-6.0