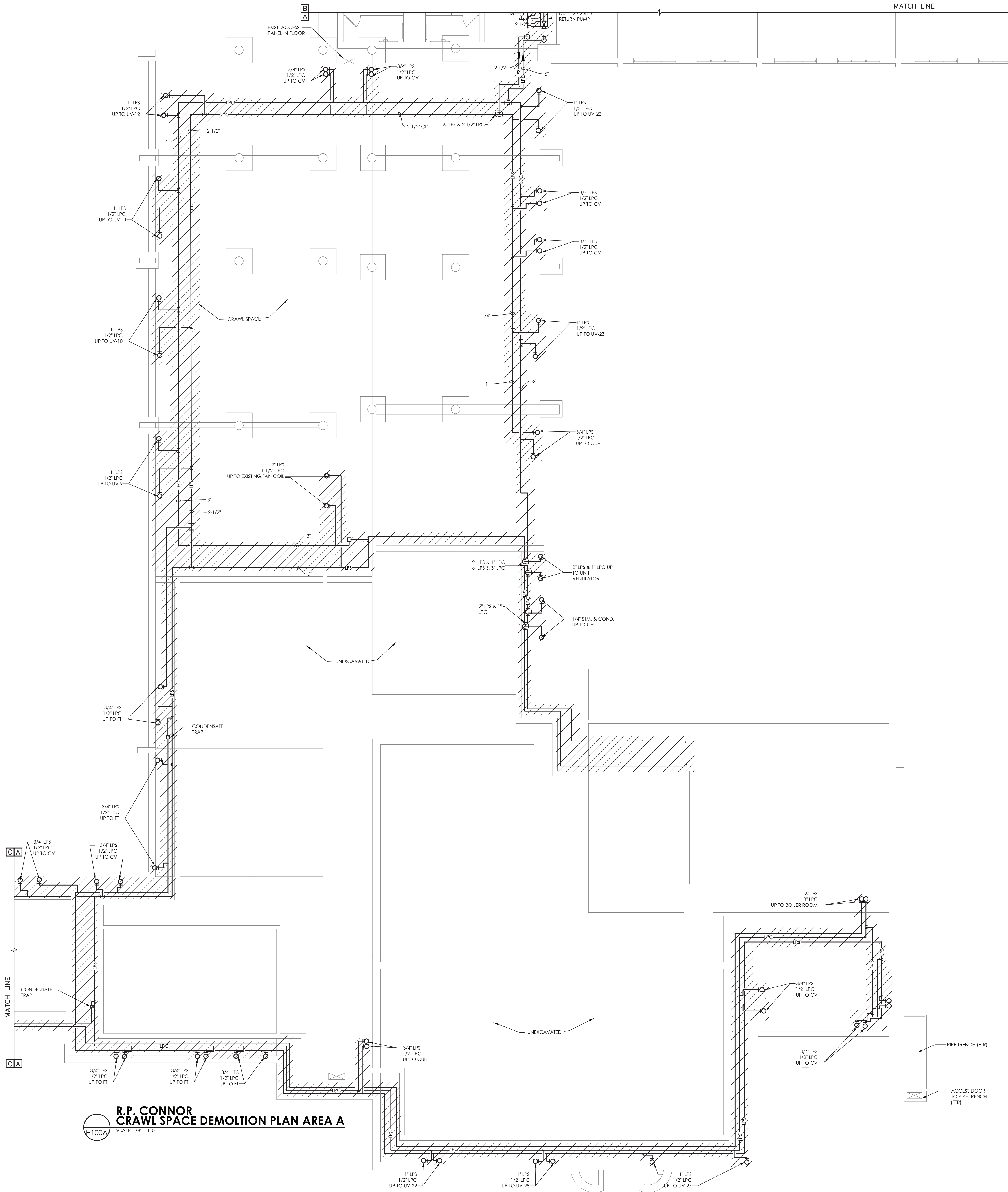


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Date last accessed: 6/12/2023 4:53 PM
Date last plotted: 6/13/2023 2:23 PM
Plotted By: Brendan Wierawski

HVAC SYMBOLS LIST									
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER		CONNECTION - TOP		DOUBLE WALL LINED DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/PNEUMATIC SWITCH OR RELAY
ACC	AIR-COOLED CONDENSING UNIT		CONNECTION - BOTTOM		DUCT SECTION - SUPPLY		DUCT SECTION - RETURN/EXHAUST		PNEUMATIC/ELECTRIC SWITCH OR RELAY
AD	ACCESS DOOR		DIRECTION OF FLOW		DUCT SECTION - ROUND DUCT IN INCHES		DUCT SECTION - FLAT OVAL DUCT IN INCHES		OPEN/CLOSED
AFF	ABOVE FINISHED FLOOR		REDUCER		DUCT SECTION - ROUND DUCT IN INCHES		DUCT SECTION - FLAT OVAL DUCT IN INCHES		START/STOP
AHU	AIR HANDLING UNIT		CAP OR PLUG		ACOUSTIC THERMAL LINING		FLEXIBLE DUCTWORK		ENABLE/DISABLE
BBD	BOILER BLOW DOWN		ELBOW DOWN		FLEXIBLE CONNECTION		FIRE DAMPER		TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
BD	BACKDRAFT DAMPER		ELBOW UP		GATE VALVE		SMOKE DAMPER		HUMIDITY SENSOR (DUCT MOUNTED)
CA	COMPRESSED AIR		TEE OUTLET - UP		SMOKE DAMPER		VOLUME DAMPER		FLOW TRANSMITTER
CD	COOLING COIL CONDENSATE DRAIN		TEE OUTLET - DOWN		COMBINATION FIRE AND SMOKE DAMPER		WATER FLOW SENSOR		PNEUMATIC ACTUATOR
CFM	CUBIC FEET PER MINUTE		UNION		MULTI-BLADE AIR EXTRACTOR		TURNING VANES		ELECTRIC ACTUATOR
CHWR	CHILLED WATER RETURN		BALL VALVE		EXISTING WORK TO BE REMOVED (HATCHED)		POINT OF CONNECTION		VARIABLE SPEED / FREQUENCY DRIVE
CHWS	CHILLED WATER SUPPLY		BALANCING VALVE		POINT OF DISCONNECTION		AIR FLOW SENSOR		COOLING COIL
CR	CONDENSER WATER RETURN		STRAINER		POINT OF DISCONNECTION		FILTER		HEATING COIL
CS	CONDENSER WATER SUPPLY		STRAINER WITH BLOW-DOWN		POINT OF DISCONNECTION		TRANSITION SQUARE TO ROUND		GAS FURNACE
CW	DOMESTIC COLD WATER		BUTTERFLY VALVE		POINT OF DISCONNECTION		HUMIDIFIER DISPERSION TUBE		HUMIDIFIER
D	DRAIN		BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY		POINT OF DISCONNECTION		RISE IN DUCT		ALARM
(E)	EXISTING		BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR		POINT OF DISCONNECTION		DROP IN DUCT		STATUS
EA	EXHAUST AIR		GLOBE VALVE		POINT OF DISCONNECTION		SQUARE CEILING DIFFUSER (4 WAY)		FLOW SWITCH
EC	ELECTRICAL CONTRACTOR		CHECK VALVE		POINT OF DISCONNECTION		ROUND CEILING DIFFUSER		DIFFERENTIAL STATIC PRESSURE SWITCH
EF	EXHAUST FAN		TRIPLE DUTY VALVE		POINT OF DISCONNECTION		SQUARE OR RECTANGULAR CEILING GRILLE		RELAY
ERHC	ELECTRIC REHEAT COIL		GAS COCK, PLUG VALVE		POINT OF DISCONNECTION		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		PRESSURE GAUGE
ETR	EXISTING TO REMAIN		UNDERCUT DOOR 1"		POINT OF DISCONNECTION		POINT OF DISCONNECTION		FREEZE-STAT
EUH	ELECTRIC UNIT HEATER		LOUVERED DOOR W/ SQ. FT. OF FREE AREA		POINT OF DISCONNECTION		POINT OF DISCONNECTION		DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
F&T	FLOAT AND THERMOSTATIC TRAP		AIR VENT - MANUAL		POINT OF DISCONNECTION		POINT OF DISCONNECTION		DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
FCU	FAN-COIL UNIT		AIR VENT - AUTOMATIC		POINT OF DISCONNECTION		POINT OF DISCONNECTION		ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
PFM	FEET PER MINUTE		FLANGE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
FT	FIN-TUBE		CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY		POINT OF DISCONNECTION		POINT OF DISCONNECTION		ELECTRICAL INTERFACE
GC	GENERAL CONTRACTOR		CONTROL VALVE, ELECTRIC 3-WAY		POINT OF DISCONNECTION		POINT OF DISCONNECTION		SPEED FEED BACK
GR	GLYCOL RETURN		CONTROL VALVE, PNEUMATIC 2-WAY		POINT OF DISCONNECTION		POINT OF DISCONNECTION		END SWITCH
GS	GLYCOL SUPPLY		CONTROL VALVE, PNEUMATIC 3-WAY		POINT OF DISCONNECTION		POINT OF DISCONNECTION		POSITION FEEDBACK
HC	HVAC CONTRACTOR		RELIEF / SAFETY VALVE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		TRAVERSE AVERAGING SENSOR
HHWR	HEATING HOT WATER RETURN		PRESSURE REDUCING VALVE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		PROBE SENSOR
HHWS	HEATING HOT WATER SUPPLY		VACUUM BREAKER		POINT OF DISCONNECTION		POINT OF DISCONNECTION		FREEZE STAT SENSOR
HP	HEAT PUMP		FLEXIBLE PIPE CONNECTOR		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
HPC	HIGH PRESSURE CONDENSATE		EXPANSION COMPENSATOR W/ GUIDES		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
HPS	HIGH PRESSURE STEAM		EXPANSION JOINT		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		PIPE ANCHOR		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
LPC	LOW PRESSURE CONDENSATE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
LPG	LIQUEFIED PROPANE GAS		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
LPS	LOW PRESSURE STEAM		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MBH	1,000 BTU/HR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MC	MECHANICAL CONTRACTOR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MPC	MEDIUM PRESSURE CONDENSATE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MPS	MEDIUM PRESSURE STEAM		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MRD	MONOFLO FITTING DOWN - HHWR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MSD	MONOFLO FITTING DOWN - HHWS		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
MUW	MAKE-UP WATER		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
NC	NORMALLY CLOSED		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
NG	NATURAL GAS		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
NO	NORMALLY OPEN		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
NTS	NOT TO SCALE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
OA	OUTSIDE AIR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
PC	PLUMBING CONTRACTOR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
PD	PUMP DISCHARGE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
PHWR	PRIMARY HEATING HOT WATER RETURN		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
PHWS	PRIMARY HEATING HOT WATER SUPPLY		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RA	RETURN AIR		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RD	REFRIGERANT DISCHARGE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RHC	HOT WATER REHEAT COIL		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RL	REFRIGERANT LIQUID PIPE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RL	REFRIGERANT LIQUID PIPE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
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RL	REFRIGERANT LIQUID PIPE		PIPE GUIDE		POINT OF DISCONNECTION		POINT OF DISCONNECTION		
RL	REFRIGER								



- GENERAL NOTES:
1. REMOVE EXISTING STEAM PIPES AND CONDENSATE PIPE IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO, HANGERS AND CONDENSATE TRAPS.
 2. STEAM PIPING REMOVAL TO BE INCLUDED IN PHASE 2. STEAM PIPING SYSTEM AND EQUIPMENT SHALL BE OPERATIONAL DURING PHASE 1.

PROJECT INFORMATION
Project Number
13294.23
Client Name
SUFFERN CSD

Project Name
RP CONNOR - BOILER CONVERSION

District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURN, NY 10931

SUFFERN CSD
1000 Hillburn Rd. Hillburn, NY 10931

PROJECT ISSUE & REVISION SCHEDULE
No. Date Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION LAW
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE
CONSTRUCTION OF A BUILDING PROJECT TO SIGN OR SEAL ANY ARCHITECT
OR ENGINEER'S DRAWING OR SPECIFICATION WITHOUT BEING A LICENSED
ARCHITECT OR ENGINEER IN THE STATE OF NEW YORK. ANY ARCHITECT
OR ENGINEER WHO VIOLATES THIS LAW SHALL BE SUBJECT TO THE
PENALTIES PROVIDED BY THE EDUCATION LAW AND THE EDUCATION
COUNCIL ON PROFESSIONAL STANDARDS.

SHEET INFORMATION
Issue Date
06/15/2023
Project Status
CD
Drawn By
KCM
Drawing Title
CRAWLSPACE HVAC
DEMOLITION PLAN AREA A
Scale
AS SHOWN
Checked By
AJS
Drawing Number
RCP
HT00A

Sheet Size: 30x42
Drawing Name: S:\Projects\H101A\H101A.dwg
Date last accessed: 6/13/2023 1:32 PM
Date last plotted: 6/13/2023 2:24 PM
Plotted By: Brandon Worewold



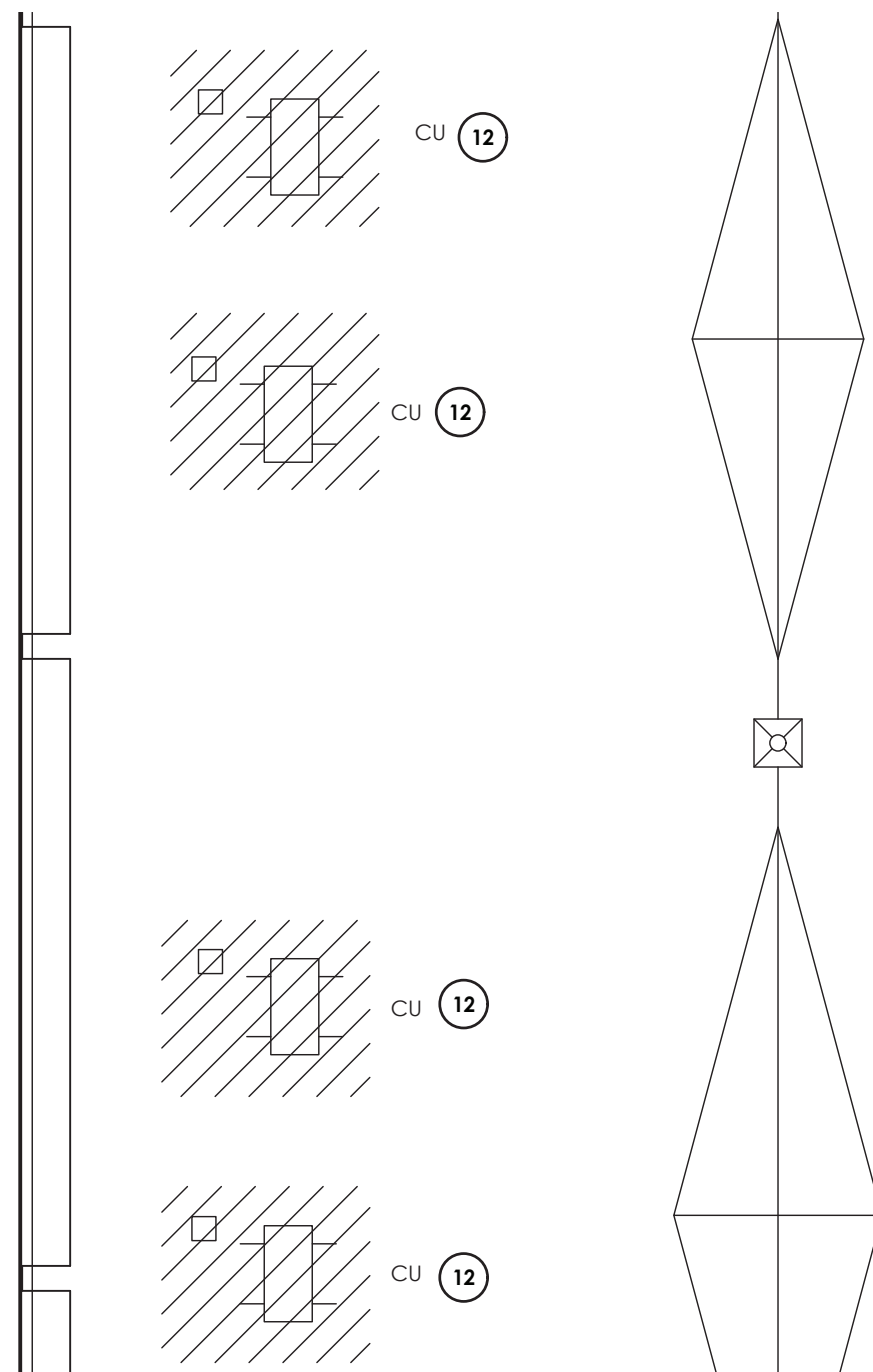
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SCALE: 1/8" = 1'-0"

GENERAL NOTES:

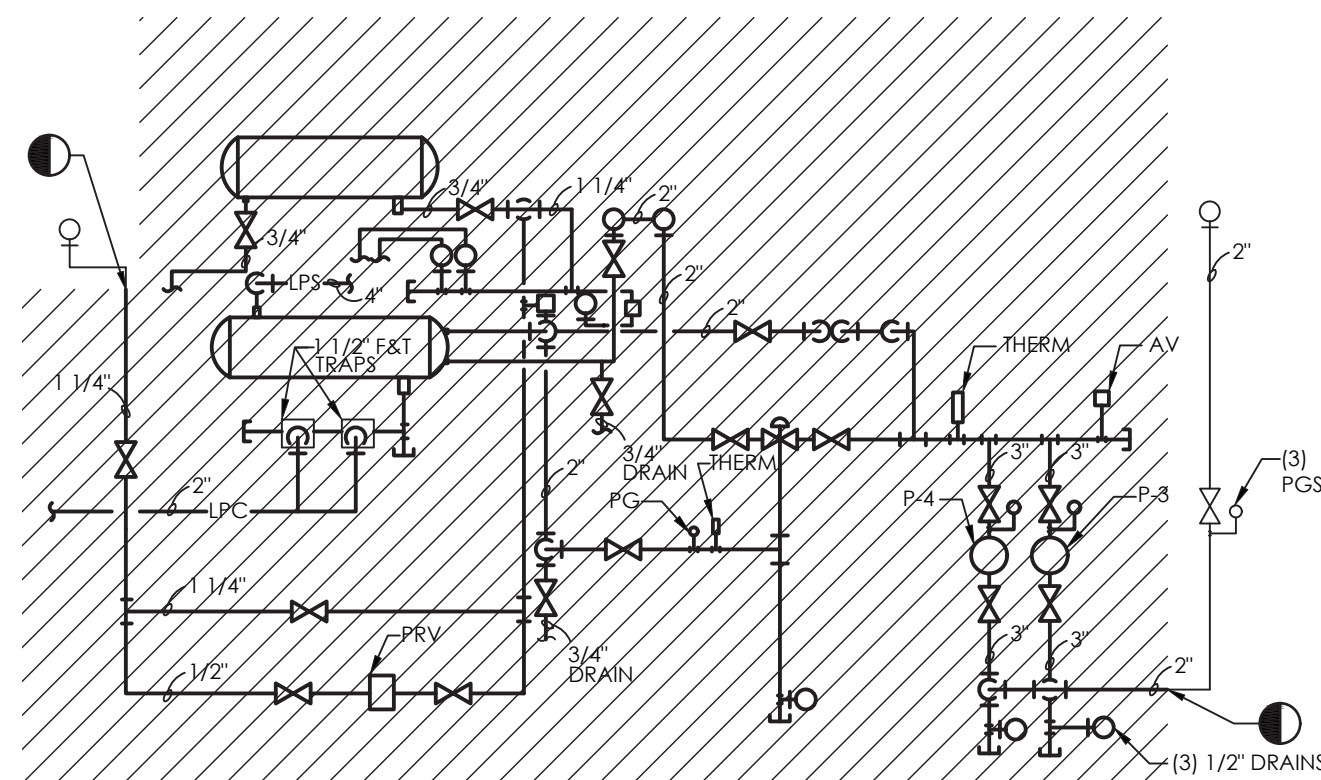
- ALL STEAM UNIT VENTILATORS, CABINET UNIT HEATERS, CONVECTORS, AND FIN TUBE TO BE REMOVED DURING PHASE 2. STEAM SYSTEM SHALL REMAIN OPERATIONAL DURING PHASE 1.
- SEE DRAWINGS H700 AND H701 FOR BOILER ROOM PHASING DRAWINGS.

KEY NOTES:

- REMOVE EXISTING STEAM BOILERS IN THEIR ENTIRETY INCLUDING ALL LPS AND LPC PIPING, BREACHING, GAS TRAP, CONTROLS, ETC. COORDINATE REQUIREMENTS OF NEW BOILERS PRIOR TO DEMOLITION OF EXISTING BOILER.
- REMOVE EXISTING STEAM UNIT VENTILATOR IN ITS ENTIRETY INCLUDING ALL PIPING, CONTROLS, AND TEMPERATURE SENSORS. COORDINATE REQUIREMENTS OF NEW UNIT PRIOR TO DEMOLITION OF EXISTING UNIT.
- REMOVE EXISTING CONVECTOR IN ITS ENTIRETY INCLUDING ALL PIPING, CONTROLS, AND TEMPERATURE SENSORS.
- REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER AND EXPANSION TANK IN THEIR ENTIRETY. REMOVE HOT WATER PIPING TO POINT INDICATED AND PREPARE FOR NEW WORK. SAVE EXISTING PUMP P-3 AND P-4 TO BE REUSED.
- REMOVE EXISTING VACUUM CONDENSATE RETURN PUMP AND CONDENSATE FEED TANK IN THEIR ENTIRETY INCLUDING ALL PIPING.
- REMOVE EXISTING FIN TUBE IN ITS ENTIRETY INCLUDING ALL STEAM TRAPS, PIPING AND TEMPERATURE SENSORS. PREPARE FOR NEW WORK.
- REMOVE EXISTING COMBUSTION AIR LOUVERS AND DUCTWORK IN THEIR ENTIRETY UP TO GRAVITY VENTILATORS ON ROOF. PREPARE FOR NEW WORK.
- REMOVE GAS PIPING BACK TO POINT INDICATED. PREPARE FOR NEW WORK.
- REMOVE EXISTING COLD WATER SUPPLY LINE BACK TO POINT INDICATED AND CAP.
- REMOVE EXISTING STEAM COIL IN EXISTING FAN COIL AND ALL SYSTEM PIPING BACK TO MAIN. PREPARE FOR NEW WORK.
- REMOVE ALL EXISTING REFRIGERANT PIPING FROM COOLING COIL UP TO CONDENSER ON ROOF ABOVE.
- REMOVE EXISTING CONDENSING UNIT IN ITS ENTIRETY INCLUDING ALL REFRIGERANT PIPING AND PIPE PORTALS. EXISTING ROOF RAILS TO REMAIN AND BE REUSED. PREPARE FOR NEW WORK. MAINTAIN ALL EXISTING ROOF WARRANTIES.
- REMOVE CAPPED PIPING BACK TO MAIN.
- INFILL EXISTING LOUVER WITH LIKE CONSTRUCTION.
- REMOVE EXISTING THERMOSTAT AND CONTROLS. PREPARE FOR NEW. COORDINATE REQUIREMENTS OF NEW THERMOSTAT PRIOR TO DEMOLITION OF EXISTING THERMOSTAT.

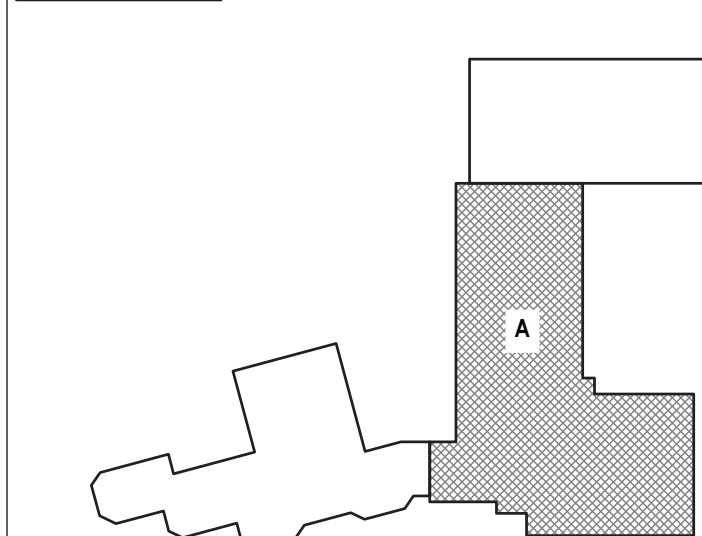


2 LIBRARY ROOF DEMO PLAN
SCALE: 1/4" = 1'-0"



3 SECTION 6-3 VIEW
SCALE: 1/4" = 1'-0"

KEY PLAN:



PROJECT INFORMATION

Project Number
13294.23
Client Name
SUFFERN CSD

PROJECT INFORMATION

Project Name
RP CONNOR - BOILER
CONVERSION
District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURY, NY 10931

SUFFERN CSD

SEE 4300-041 (06-0005-02)

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS

NEW YORK CIVIL ENGINEER LICENSE

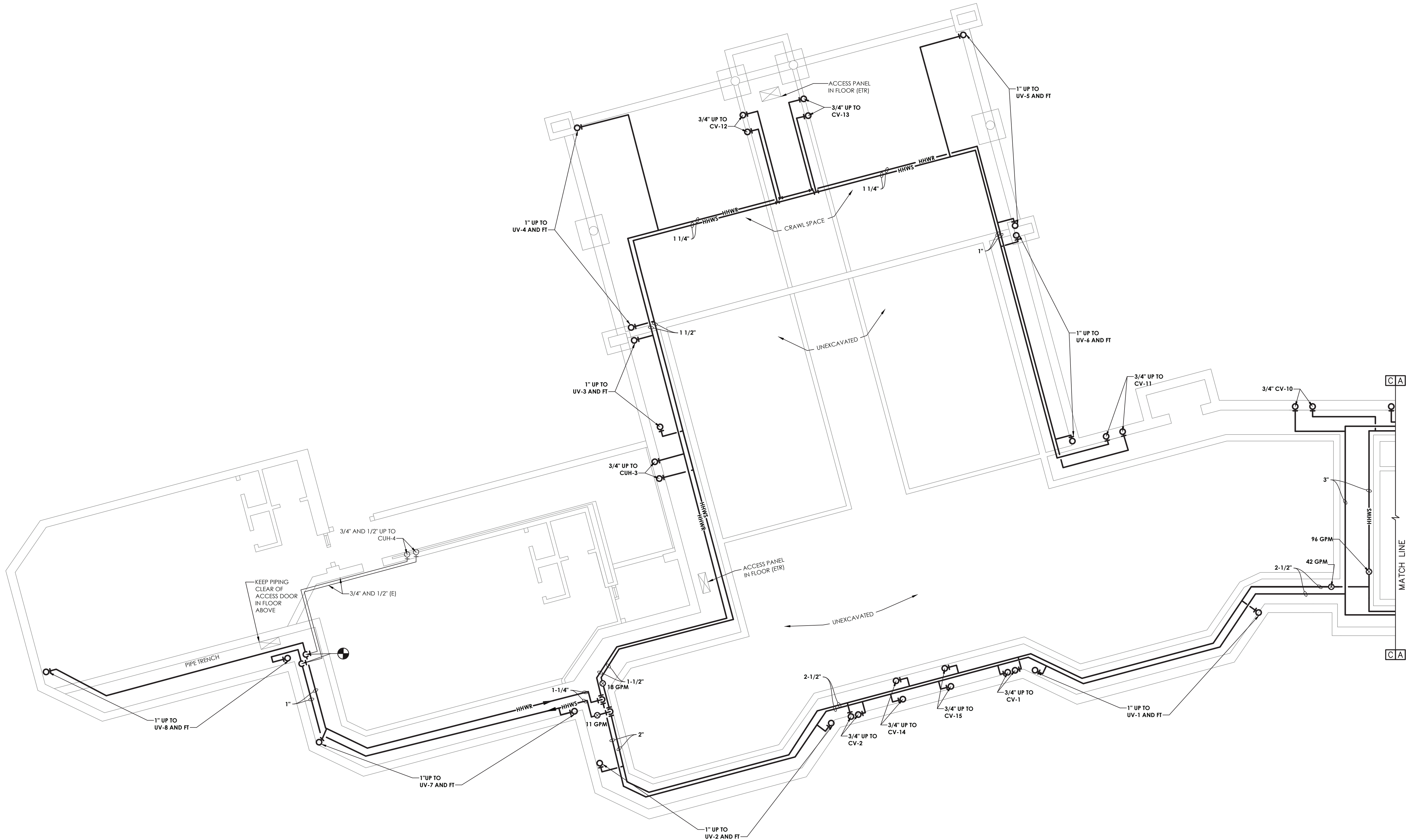
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CONSTRUCTION PROFESSIONAL SEAL ACT AND PENAL CODE ARTICLE 130-A
FOR ANY PERSON TO SIGN ANY ARCHITECTURAL, ENGINEERING OR LAND SURVEYING
DRAWING WITHOUT BEING A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT.
THIS SEAL IS THE PROPERTY OF THE NEW YORK STATE EDUCATIONAL LAW
AND THE CONSTRUCTION PROFESSIONAL SEAL ACT AND PENAL CODE ARTICLE 130-A.
THESE SEALS ARE TO BE USED ON ALL DRAWINGS AND SPECIFICATIONS.

SHEET INFORMATION

Issue Date
06/15/2023
Project Status
CD
Drawn By
KCM
Checked By
AJS
Drawing Title
FIRST FLOOR HVAC DEMOLITION
PLANS AREA A

Drawing Number

RPC
H101A



1
H200C
R.P. CONNOR
CRAWL SPACE NEW PLAN AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FURNISH AND INSTALL NEW HOT WATER PIPES IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO HANGERS.
2. NEW HOT WATER PIPING SHALL BE RUN DURING PHASE 1 INCLUDING STUB UPS TO PIPING AND VALVES IN PREPARATION OF PHASE 2.

PROJECT INFORMATION

Project Number

13294.23

Client Name

SUFFERN CSD

Project Name

RP CONNOR - BOILER
CONVERSION

District Office Address

SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURN, NY 10931

SUFFERN CSD

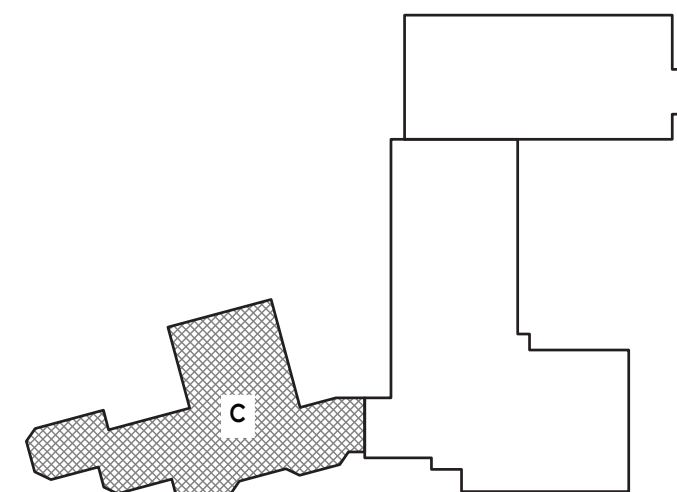
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PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS

KEY PLAN:



SHEET INFORMATION

Issue

06/15/2023

Project Status

CD

Drawn By

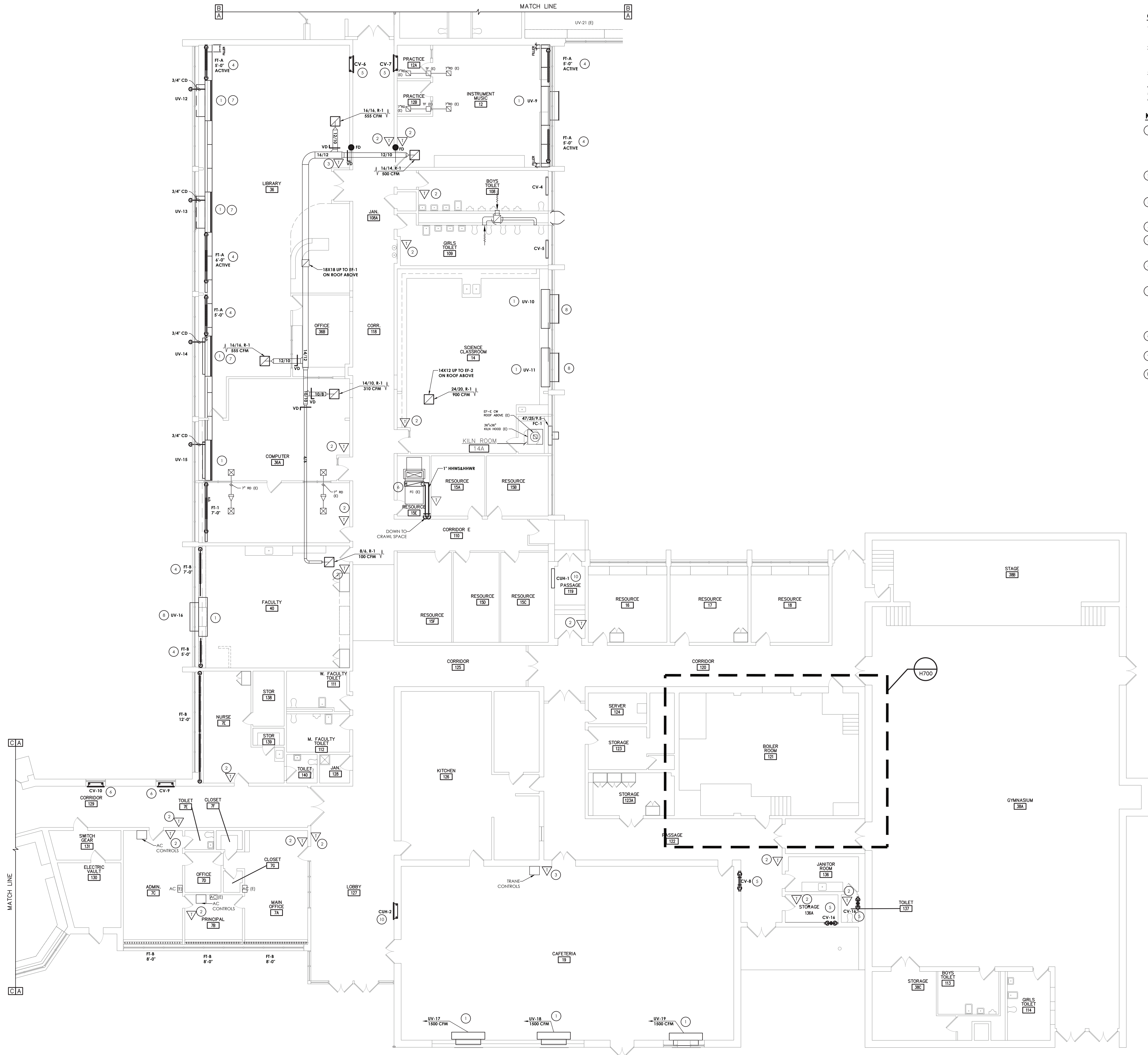
KCM

Checking Title

CRAWLSPACE HVAC NEW
PLANS AREA C

Drawing Number

RPC
H200C



1 FIRST FLOOR PLAN - AREA A
H201A SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL CABINETS AND WINDOW SILL DIMENSIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR UNIT VENTILATORS.
- ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL. CONTACT: BOB GARVEY OR SEAN YATES
O: 973-455-2503 C: 908-963-0467
C: 862-579-8821
- ALL NEW UNIT VENTILATORS, CABINET UNIT HEATERS, CONVECTORS, AND FIN TUBE TO BE INSTALLED DURING PHASE 2.
- SEE H700 AND H701 FOR THE BOILER ROOM PHASING PLANS.
- NEW CLASSROOM EXHAUST FAN RELIEF TO BE INSTALLED DURING PHASE 2.
- EXISTING UV LOUVERS TO REMAIN. ALTERNATE NO 1. TO REPLACE WITH NEW. PROVIDE INTEL AND MATCH WITH LIKE CONSTRUCTION.

KEY NOTES:

- FURNISH AND INSTALL NEW UNIT VENTILATOR, TEMPERATURE SENSOR, WALL BOX, EXTERIOR LOUVER, AND FIN-TUBE. MODIFY EXISTING CABINETS AS NECESSARY TO FIT NEW UNIT. CONTRACTOR IS RESPONSIBLE FOR LINTELS AND INCREASING EXTERIOR OPENING TO ACCOMMODATE NEW WORK. CONTRACTOR TO CONSTRUCT CHASE WALL BEHIND UNIT TO ACCOMMODATE TRANSITION DUCTWORK.
- FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CONTROLS. COORDINATE ALL CONTROLS WORK WITH THE DISTRICTS CONTROLS PROVIDER.
- FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CONTROLS. ONE THERMOSTAT SHALL CONTROL THREE UNITS. COORDINATE ALL CONTROLS WORK WITH THE DISTRICTS CONTROLS PROVIDER.
- FURNISH AND INSTALL NEW FIN TUBE BEHIND EXISTING CABINETS.
- FURNISH AND INSTALL NEW CONVECTOR IN EXISTING CONVECTOR LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CONVECTOR AS NECESSARY AND MATCH TO EXISTING WALL.
- FURNISH AND INSTALL NEW HOT WATER COIL FOR EXISTING FAN COIL UNIT. MANUFACTURER MODEL NUMBER: ENVIROTECH CDH-16. CONFIRM MANUFACTURER AND MODEL NUMBER PRIOR TO ORDERING.
- RUN NEW REFRIGERANT PIPING FOR NEW COOLING COIL UP TO NEW CONDENSERS ON ROOF ABOVE. SIZE PIPING PER MANUFACTURER'S RECOMMENDATION. NEW REFRIGERANT PIPING TO BE RUN IN NEW PVC PIPE FORTRESS LINE SET COVERS. ROUTE NEW 3/4" CONDENSATE LINE OUT THE BACK OF THE UNIT AND TERMINATE 6" ABOVE GROUND DIRECTED AWAY FROM THE BUILDING.
- PROVIDE NEW LOUVER OPENINGS. SEE LINTEL SCHEDULE ON H900. PATCH WITH LIKE CONSTRUCTION.
- ALTERNATE MC-01: TO REPLACE EXISTING LOUVER WITH NEW LOUVER. SEE LINTEL SCHEDULE ON H900. PATCH WITH LIKE CONSTRUCTION.
- FURNISH AND INSTALL NEW CABINET UNIT HEATER AIN EXITING CABINET UNIT HEATER LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CABINET UNIT HEATER AS NECESSARY AND MATCH TO EXISTING WALL.

PROJECT INFORMATION

Project Number
13294.23
Client Name
SUFFERN CSD

Project Name
RP CONNOR - BOILER
CONVERSION

District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURY, NY 10931

SUFFERN CSD

100 450 0411 04 0000-001

PROJECT ISSUE & REVISION SHEET

No. Date Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION LAW

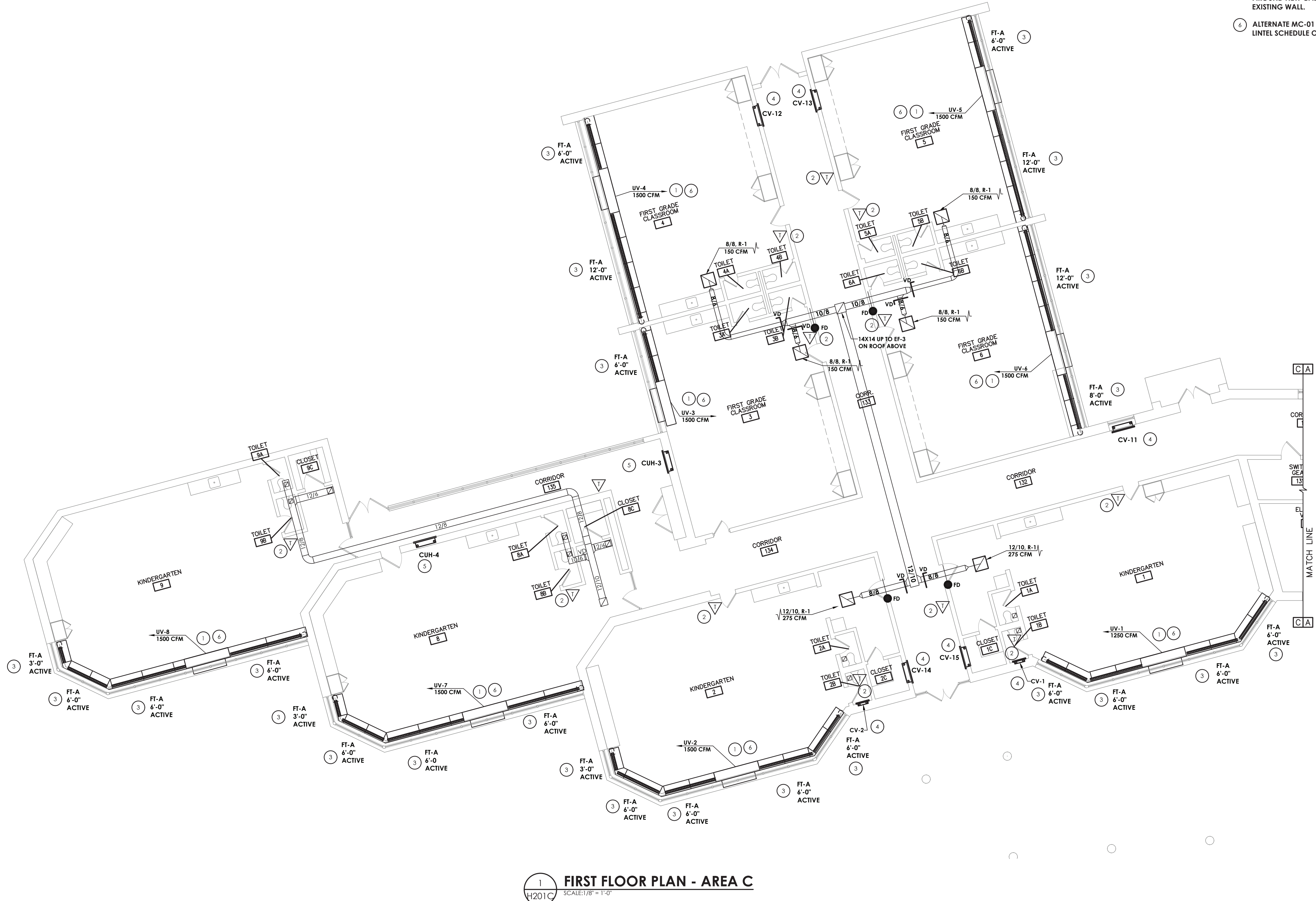
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CONSTRUCTION REGULATION FOR ANY DESIGN PROFESSIONAL TO
RENDER ANY DESIGN OR SPECIFICATION FOR A PROJECT WITHOUT BEING
PROPERLY LICENSED BY THE STATE OF NEW YORK. ANY VIOLATION OF
THIS LAW IS A CRIMINAL OFFENSE AND IS SUBJECT TO PENALTIES
IMPOSED BY THE STATE OF NEW YORK. THE DESIGN PROFESSIONAL
SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY LICENSES
AND THE PROJECT SHALL BE COMPLETED BY THE DESIGN
PROFESSIONAL WHO IS THE DESIGN PROFESSIONAL AND ANY OTHER

SHEET INFORMATION

Issue Date
06/15/2023
Project Status
CD
Drawn By
AJS
Checked By
AJS
Drawing Title
FIRST FLOOR HVAC NEW PLANS
AREA A

Drawing Number

RPC
H201A



1 FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

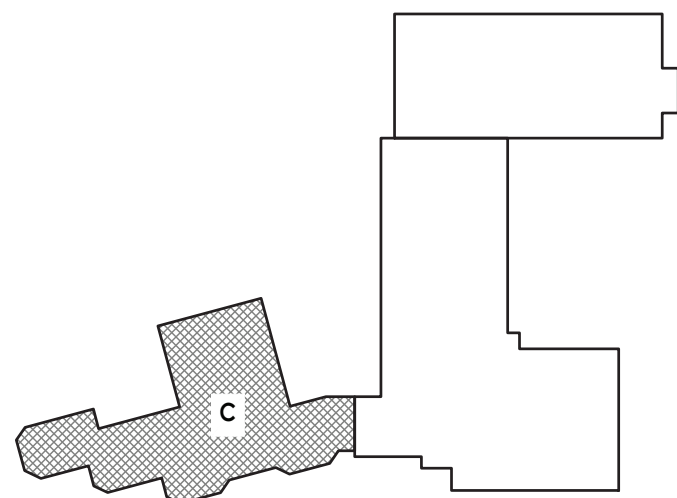
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL CABINERY AND WINDOW SILL DIMENSIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
2. ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL
CONTACT: BOB GARVEY OR SEAN YATES
O: 973-455-2503 C: 862-579-8821 C: 908-963-0467
3. ALL NEW UNIT VENTILATORS, CABINET UNIT HEATERS, CONVECTORS, AND FIN TUBE TO BE INSTALLED DURING PHASE 2.
4. NEW CLASSROOM EXHAUST FAN RELIEF TO BE INSTALLED DURING PHASE 2.
5. EXISTING UV LOUVERS TO REMAIN. ALTERNATE NO 1. TO REPLACE WITH NEW. PROVIDE INTEL AND MATCH WITH LIKE CONSTRUCTION.

KEY NOTES:

1. FURNISH AND INSTALL NEW UNIT VENTILATOR, TEMPERATURE SENSOR, WALL BOX, EXTERIOR LOUVER, AND FIN-TUBE. MODIFY EXISTING CABINERY AS NECESSARY TO FIT NEW UNIT. CONTRACTOR IS RESPONSIBLE FOR LINTELS AND INCREASING EXTERIOR OPENING TO ACCOMMODATE NEW WORK. CONTRACTOR TO CONSTRUCT CHASE WALL BEHIND UNIT TO ACCOMMODATE TRANSITION DUCTWORK.
2. FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CONTROLS. COORDINATE ALL CONTROLS WORK WITH THE DISTRICTS CONTROLS PROVIDER.
3. FURNISH AND INSTALL NEW FIN TUBE BEHIND EXISTING CABINERY.
4. FURNISH AND INSTALL NEW CONVECTOR IN EXISTING CONVECTOR LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CONVECTOR AS NECESSARY AND MATCH TO EXISTING WALL.
5. FURNISH AND INSTALL NEW CABINET UNIT HEATER IN EXISTING CABINET UNIT HEATER LOCATION. MODIFY WALL OPENING AS NECESSARY. PATCH AROUND NEW CABINET UNIT HEATERS AS NECESSARY AND MATCH TO EXISTING WALL.
6. ALTERNATE MC-01 TO REPLACE EXISTING LOUVER WITH NEW LOUVER. SEE LINTEL SCHEDULE ON H900. PATCH WITH LIKE CONSTRUCTION.

KEY PLAN:



PROJECT INFORMATION

Project Number
13294.23
Client Name
SUFFERN CSD
Project Name
RP CONNOR - BOILER
CONVERSION
District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURN, NY 10931

SUFFERN CSD

100 1000000 100 1000000

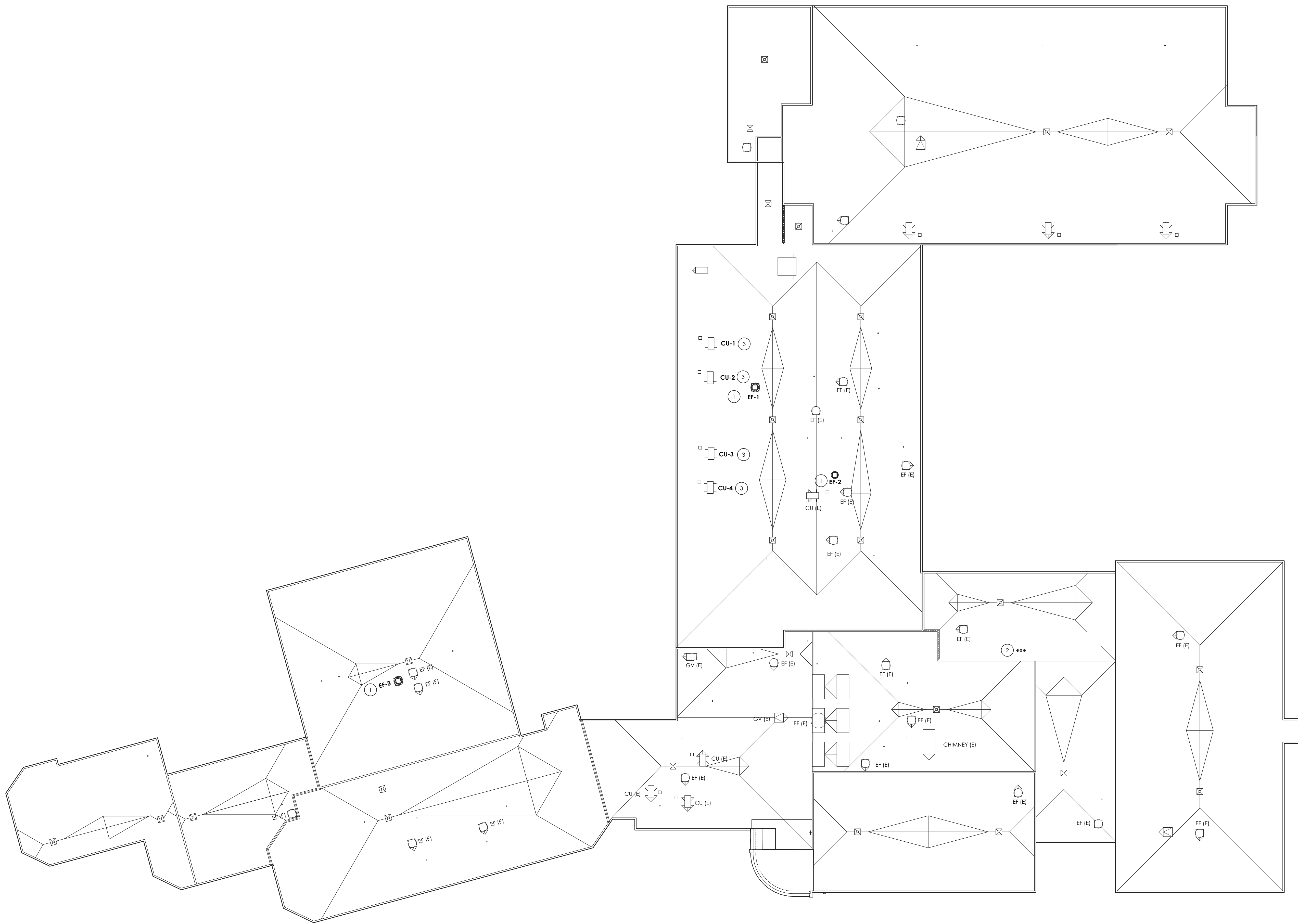
PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Scale
06/15/2023 1/8" = 1'-0"
Project Status
CD
Drawn By
AJS
Checked By
AJS
Drawing Title
FIRST FLOOR HVAC NEW PLANS
AREA C
Drawing Number
RPC
H201C



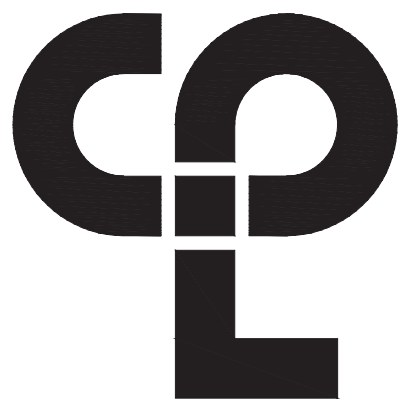
1 ROOF NEW WORK PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

- ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL.
CONTACT: BOB GARVEY OR SEAN YATES
O: 973-455-2503 C: 908-963-0467
C: 862-579-8821
- ALL CONDENSERS AND EXHAUST FANS TO BE INSTALLED DURING PHASE 2.

KEY NOTES:

- FURNISH AND INSTALL NEW EXHAUST FAN AND CURB ON ROOF. MAINTAIN ALL EXISTING ROOF WARRANTIES.
- PROVIDE GOOSENECK AND BIRD SCREEN FOR NEW COMBUSTION AIR VENTS THROUGH ROOF. PATCH ROOF AND SEAL. MAINTAIN ALL EXISTING ROOF WARRANTIES.
- INSTALL NEW CONDENSING UNIT ON EXISTING ROOF RAILS FROM REMOVED CONDENSER. PROVIDE NEW PIPE PORTAL FOR REFRIGERANT PIPING DOWN TO NEW LIBRARY UNIT VENTILATOR COOLING COILS. MAINTAIN ALL EXISTING ROOF WARRANTIES.



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PROJECT INFORMATION

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CONVERSION

District Office Address

SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURN, NY 10931

SUFFERN CSD

100-43024-01-00-000-001



PROJECT ISSUE & REVISION SCHEDULE

No.

Date

Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION DEPARTMENT

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THE DESIGN OF A BUILDING OR ARCHITECTURE, ENGINEERING OR ARCHITECTURE
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REQUIREMENTS FOR ANY PART OF AN ARCHITECTURAL DESIGN OR ARCHITECTURE
THIS NEW YORK STATE AND THE ARCHITECTURE ACTS OF 1901 AND 1902
SHOULD BE USED FOR ANY INFORMATION AND ANY OTHER

SHEET INFORMATION

Issue

06/15/2023

Project Status

CD

Drawn By

SEAN

Checked By

XXX

Drawing Title

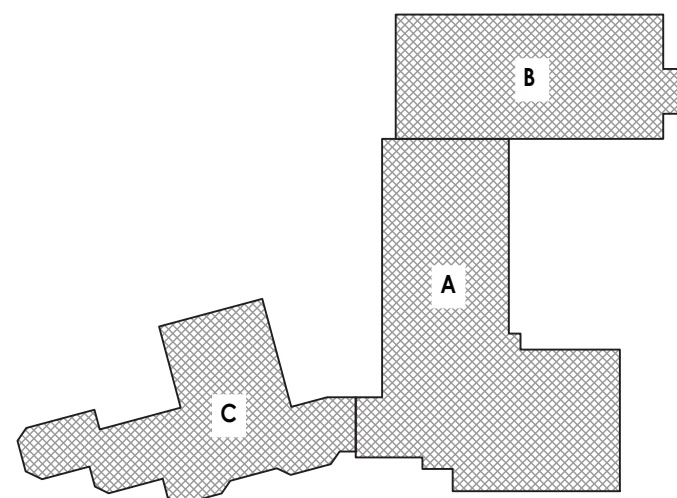
HVAC ROOF PLAN NEW WORK

Drawing Number

RPC

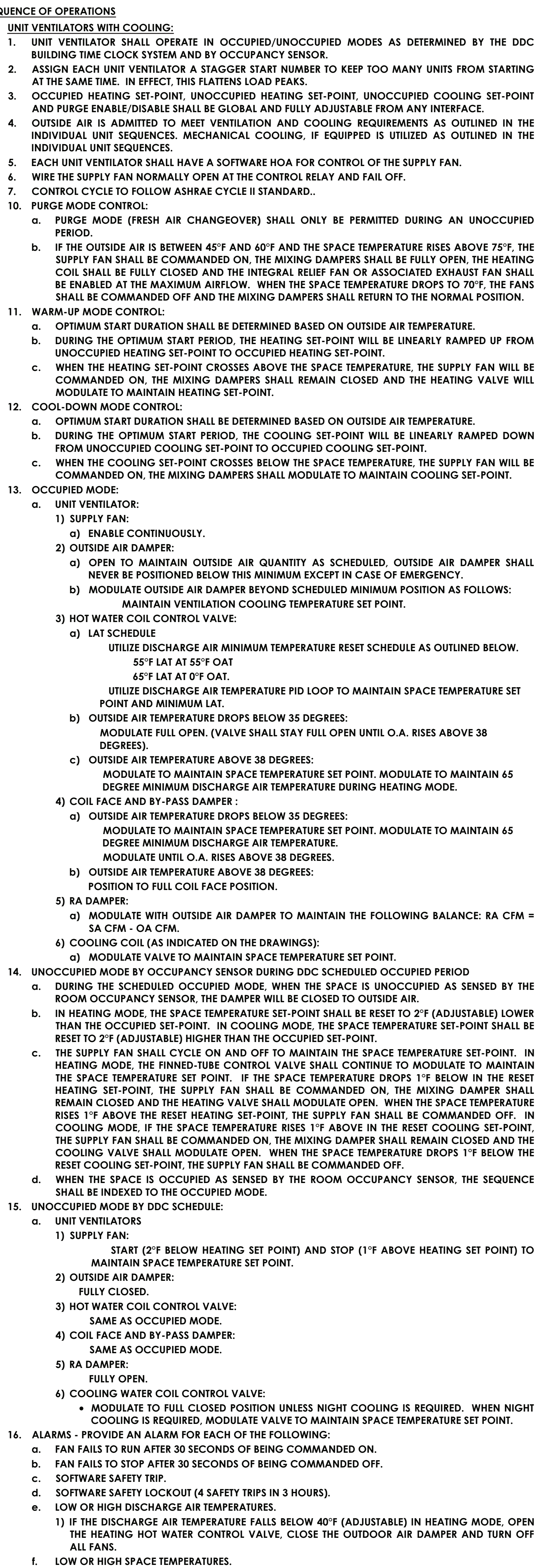
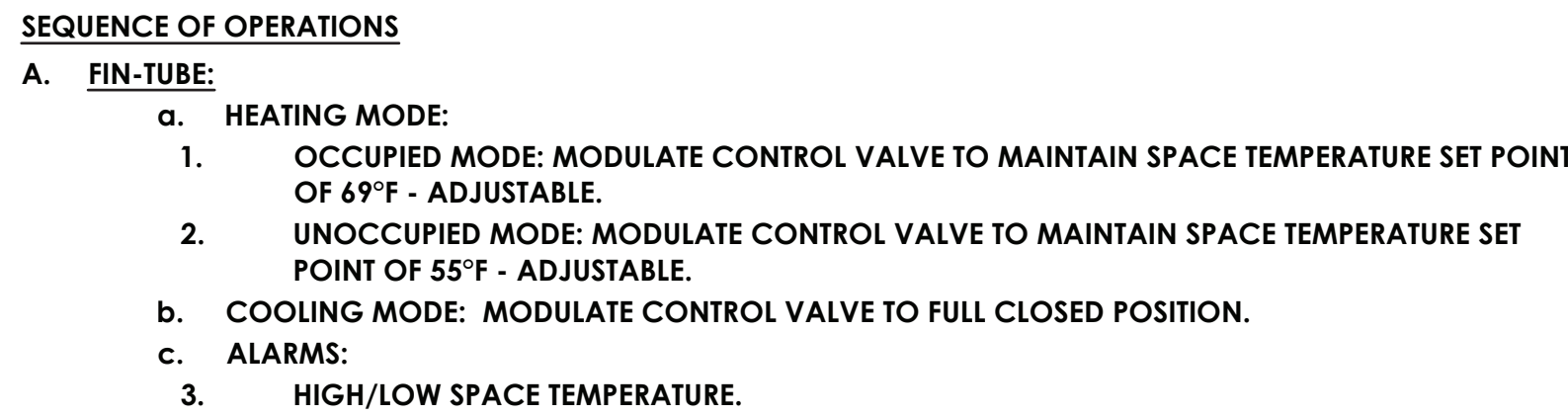
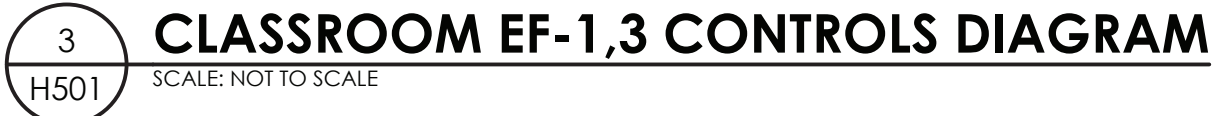
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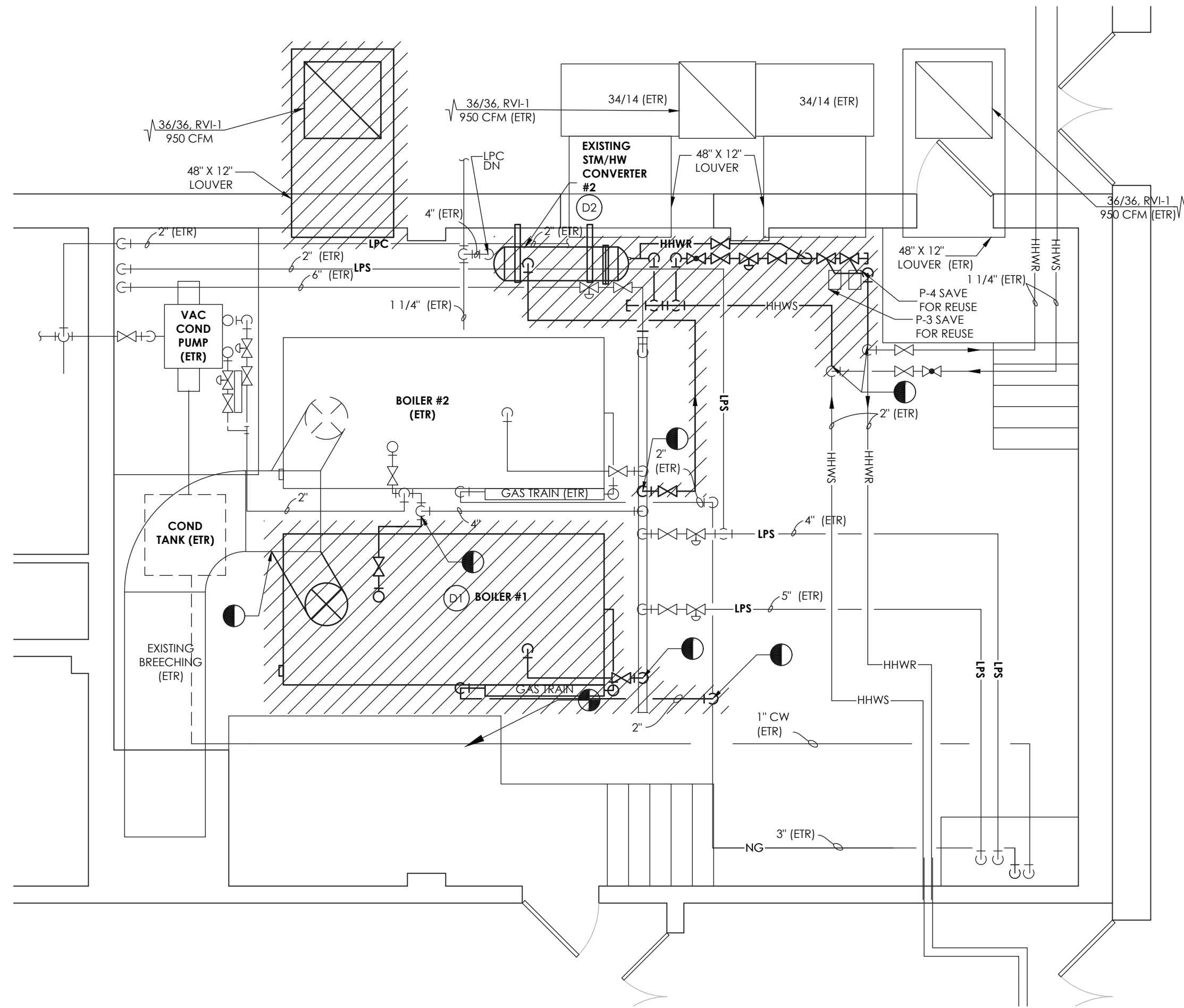
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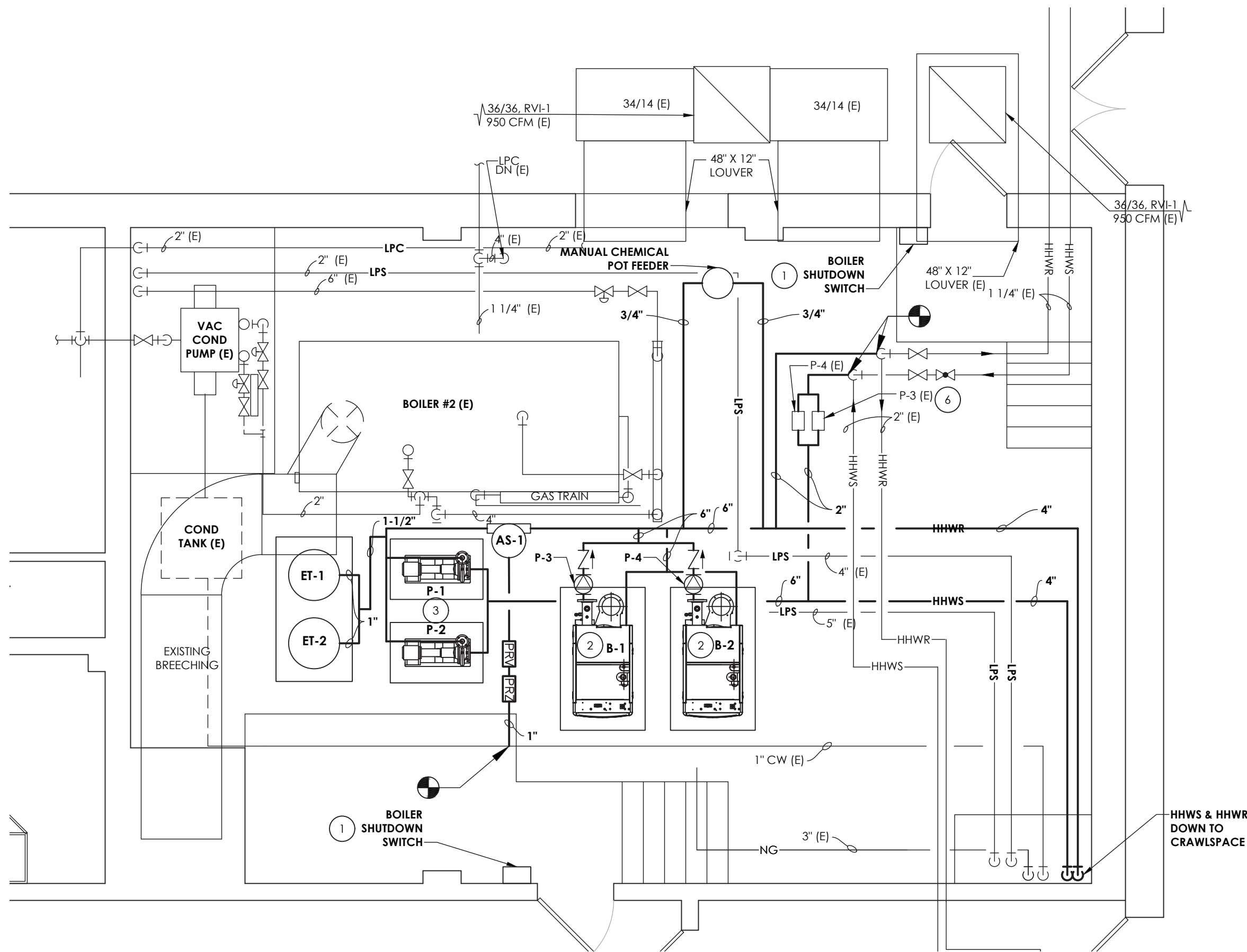


Drawing Number
RPC
H500

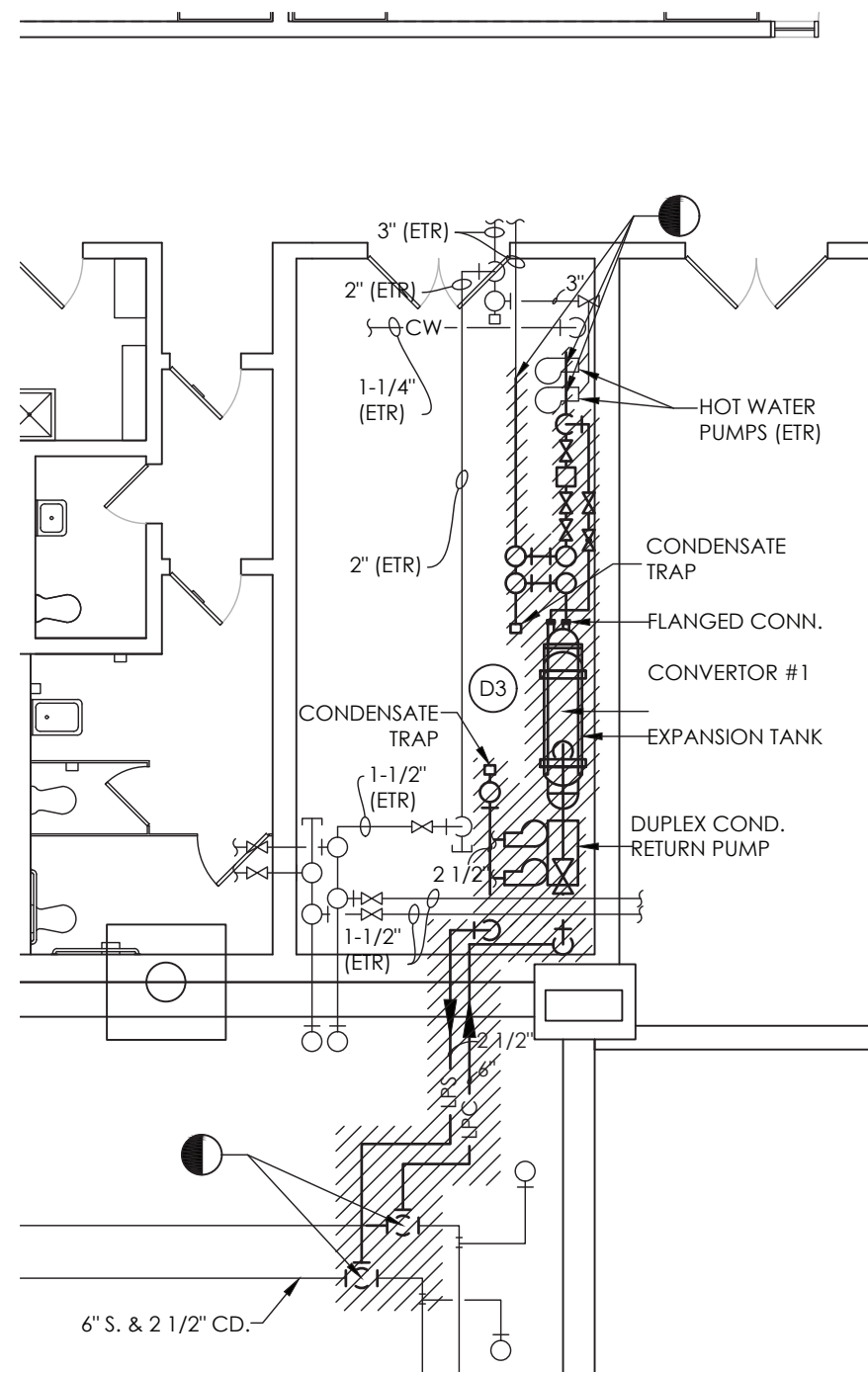




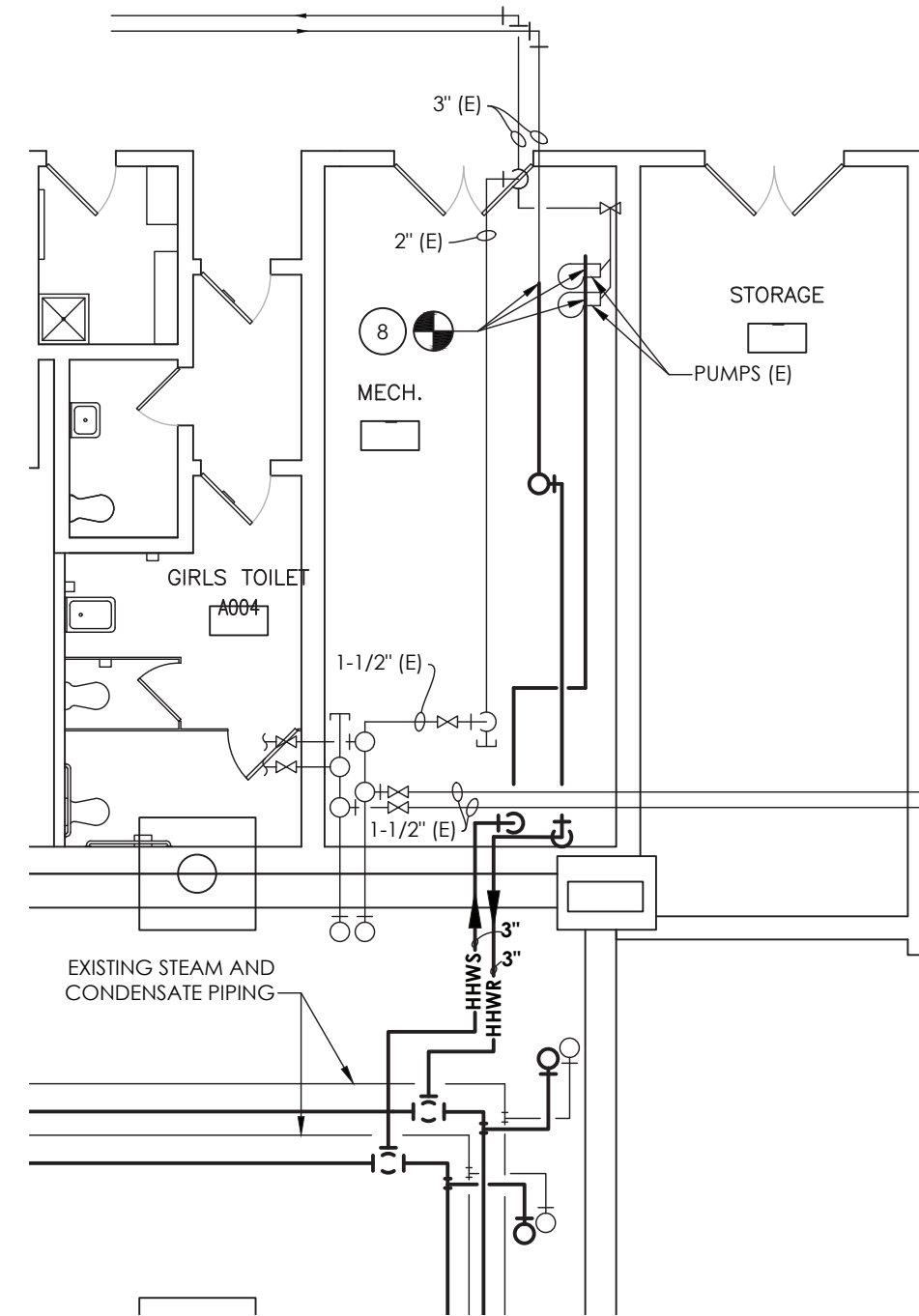
1 BOILER ROOM DEMOLITION PLAN PHASE 1
SCALE: 1/4" = 1'-0"



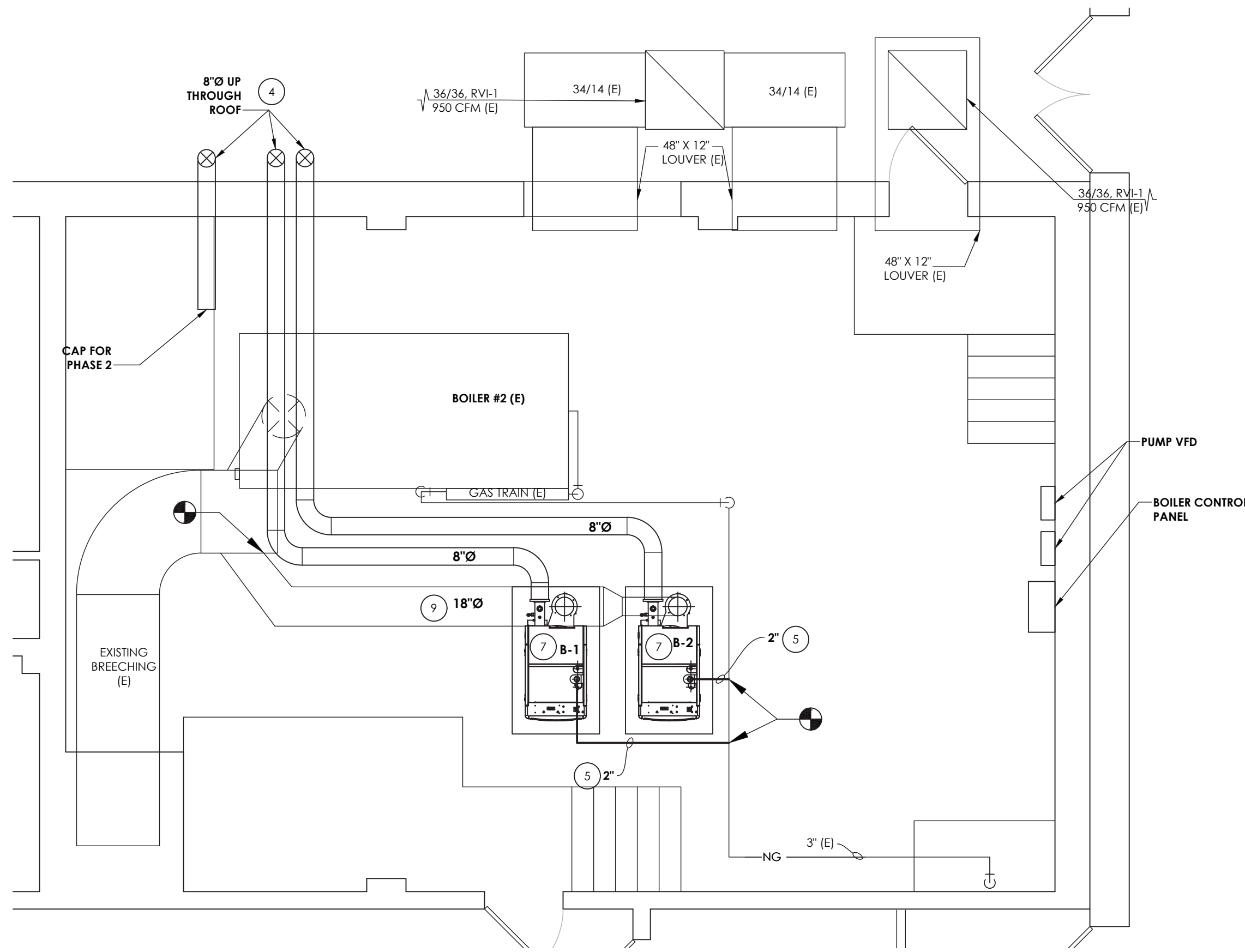
2 BOILER ROOM NEW WORK PIPING PLAN PHASE 1
SCALE: 1/4" = 1'-0"



3 MECHANICAL ROOM DEMOLITION PLAN PHASE 1
SCALE: 1/4" = 1'-0"



4 MECHANICAL ROOM NEW WORK PLAN PHASE 1
SCALE: 1/4" = 1'-0"



5 BOILER ROOM NEW WORK GAS, BREECHING, AND COMBUSTION AIR PLAN PHASE 1
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

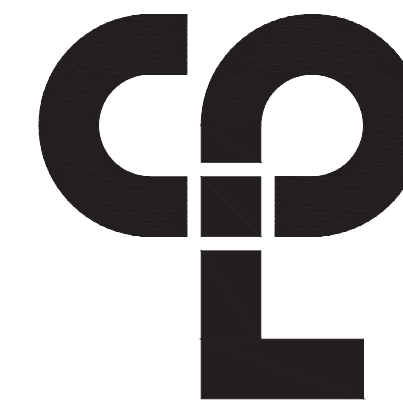
- ALL CONTROLS WORK TO BE DONE BY DISTRICT BMS PROVIDER HONEYWELL.
CONTACT: BOB GARVEY OR SEAN YATES
O: 973-455-2503 C: 908-963-0467
C: 862-579-8821
- BOILER 2 AND EXISTING STEAM SYSTEM TO REMAIN OPERATIONAL DURING PHASE 1. NEW HOT WATER PIPING TO BE RUN THROUGHOUT THE BUILDING IN PREPARATION OF PHASE 2.

DEMOLITION KEY NOTES:

- REMOVE EXISTING BOILER 1 IN ITS ENTIRETY INCLUDING GAS TRAIN, ALL PIPING TO POINTS INDICATED, AND EXHAUST FLUE BACK TO BREECHING. SEAL EXISTING BREECHING AIR TIGHT TO MAINTAIN BOILER 2 OPERATION.
- REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER IN ITS ENTIRETY INCLUDING ALL STEAM AND CONDENSATE PIPING BACK TO MAINS. REMOVE HOT WATER PIPING BACK TO POINT INDICATED. CLEAN AND SAVE EXISTING HOT WATER PUMPS P-3 AND P-4 TO BE REUSED.
- REMOVE EXISTING STEAM TO HOT WATER HEAT EXCHANGER IN ITS ENTIRETY INCLUDING ALL STEAM AND CONDENSATE PIPING BACK TO MAINS AND CAP. STEAM PIPING TO BE MAINTAINED OPERATIONAL DURING PHASE 1. CLEAN AND SAVE EXISTING HOT WATER PUMPS TO BE REUSED.

KEY NOTES:

- PROVIDE NEW BOILER SHUTDOWN SWITCH AT BOILER ROOM EXITS.
- INSTALL NEW BOILERS IN LOCATION SHOWN. PROVIDE NEW 6" CONCRETE HOUSEKEEPING PAD.
- INSTALL NEW HOT WATER HEATING PUMPS. PROVIDE NEW 4" HOUSEKEEPING PAD.
- PROVIDE 8" COMBUSTION AIR DUCT FROM EACH BOILER UP THROUGH ROOF. TERMINATE ON ROOF WITH GOOSENECK AND BIRDSCREEN. MODIFY AND USE EXISTING COMBUSTION AIR OPENINGS IF POSSIBLE. SEAL ALL UNUSED OPENING WITH LIKE CONSTRUCTION. MAINTAIN ALL ROOF WARRANTIES. MAINTAIN SHOWN EXISTING OUTDOOR AIR LOUVERS DURING PHASE 1.
- PROVIDE NEW VENT FOR GAS REGULATORS PER MANUFACTURER'S RECOMMENDATION.
- REUSE EXISTING PUMPS FOR GYM LOOP.
- PROVIDE CONDENSATE DRAIN PIPING WITH NEUTRALIZATION KIT AND ROUTE TO NEAREST FLOOR DRAIN.
- REUSE EXISTING HOT WATER PUMPS SERVING AREA B AND CONNECT TO NEW HOT WATER PIPING.
- INSTALL NEW 18" FLUE AND ROUTE TO NEW BOILERS. CONNECT NEW FLUE TO EXISTING BOILER BREECHING.



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PROJECT INFORMATION

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13294.23

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Project Name
RP CONNOR - BOILER CONVERSION

District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURN, NY 10931

SUFFERN CSD

ISS: 4/20/2021 06:00:00

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issue Date
06/15/2023

Project Status
CD

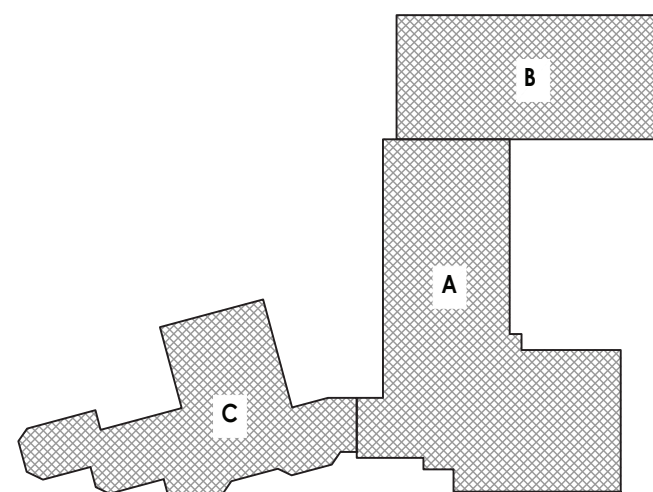
Drawn By
BEA

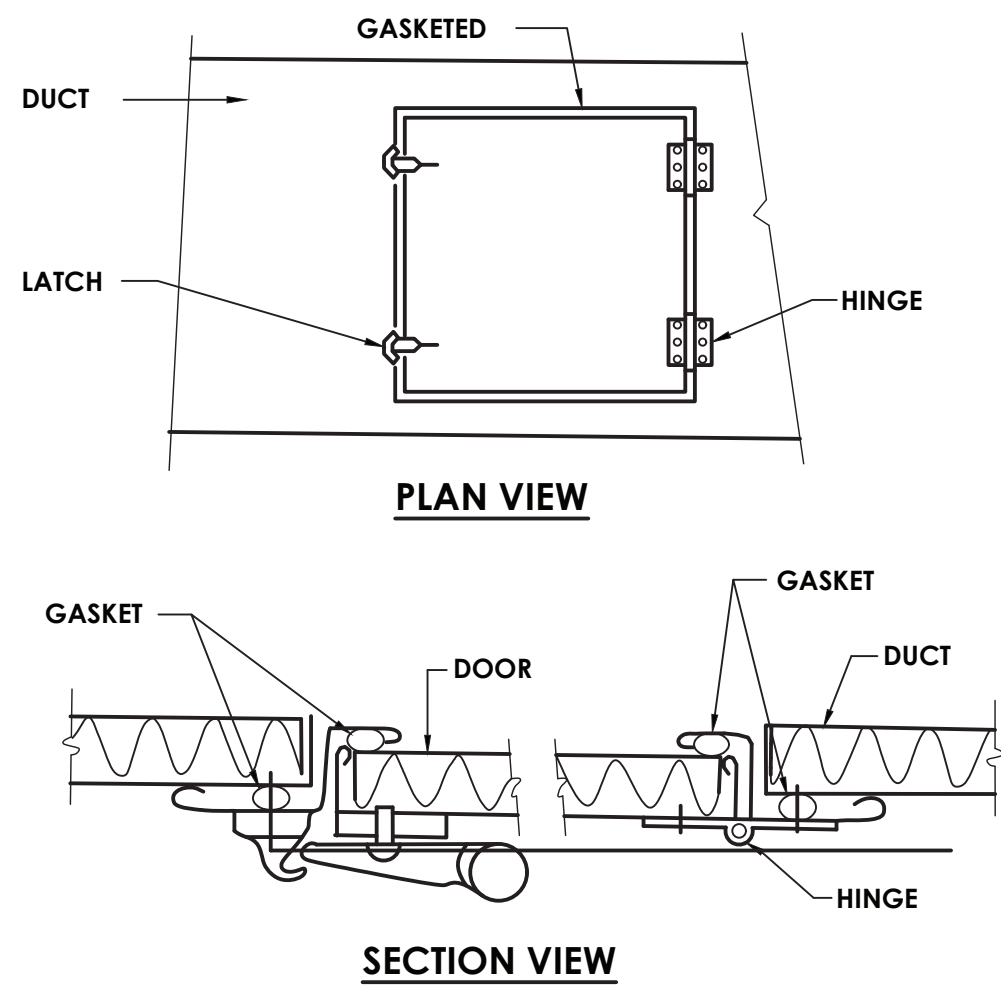
Checked By
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Drawing Title
PHASE 1 BOILER ROOM
DEMOLITION AND NEW WORK
PLANS

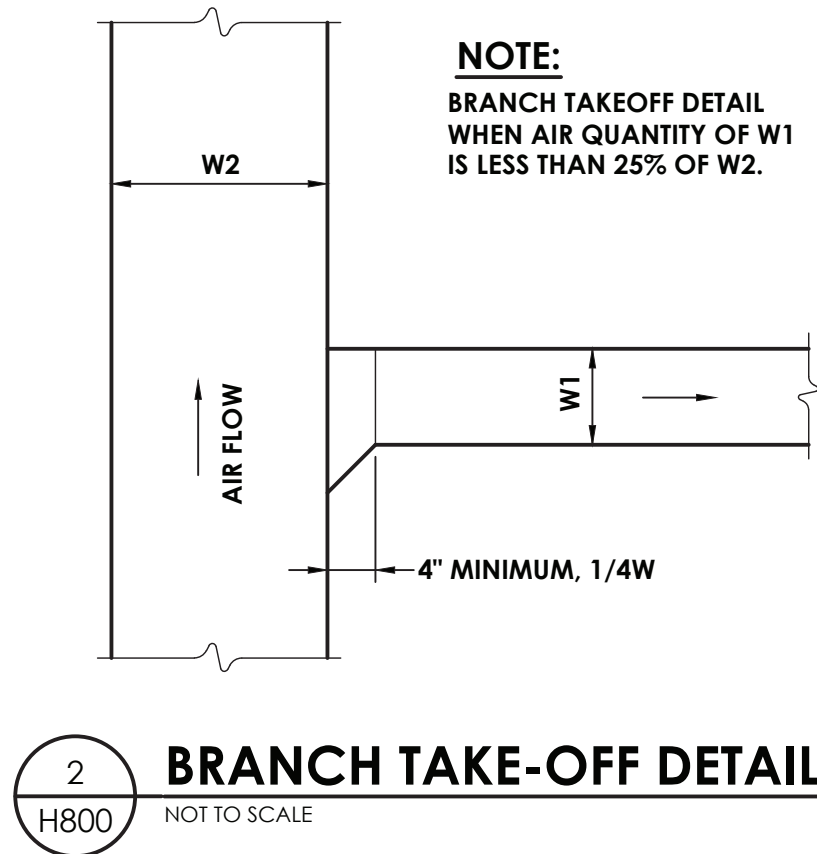
Drawing Number
RPC
H700

KEY PLAN:

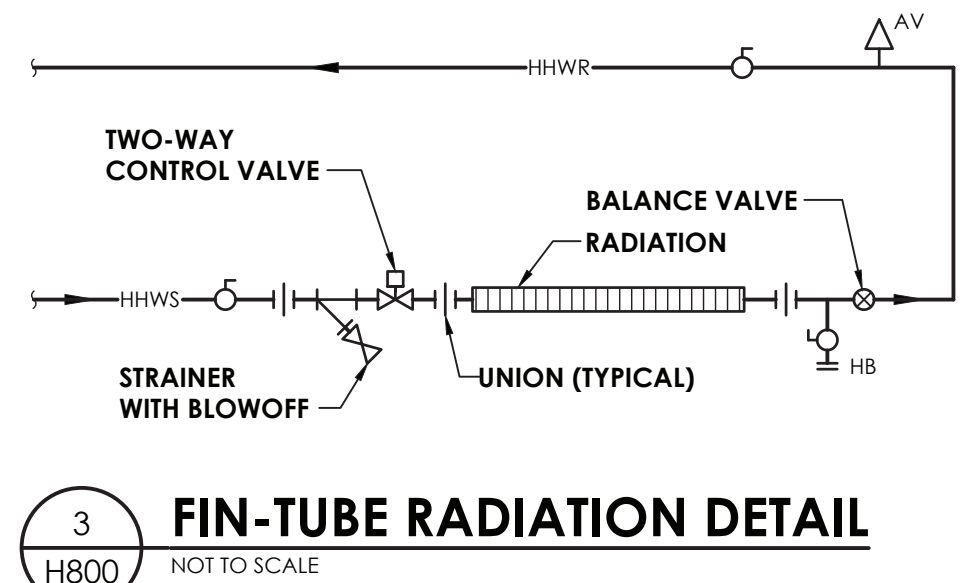




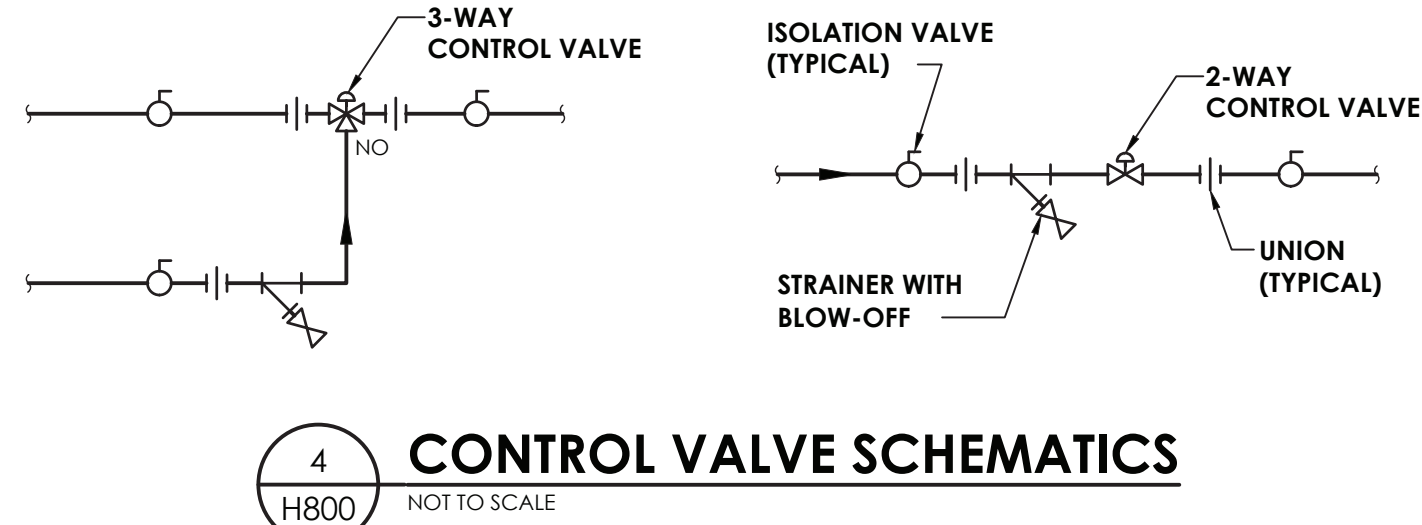
1 ACCESS DOOR DETAIL
H800 NOT TO SCALE



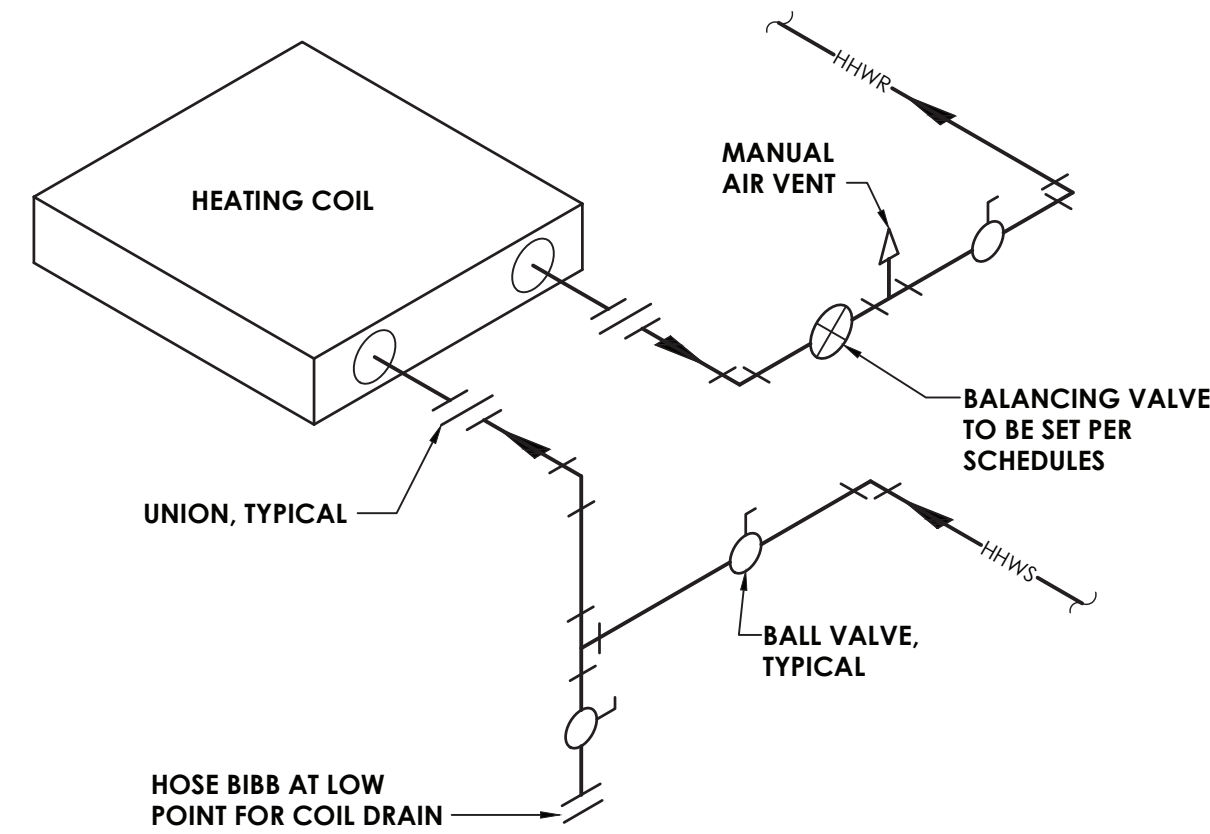
2 BRANCH TAKE-OFF DETAIL
H800 NOT TO SCALE



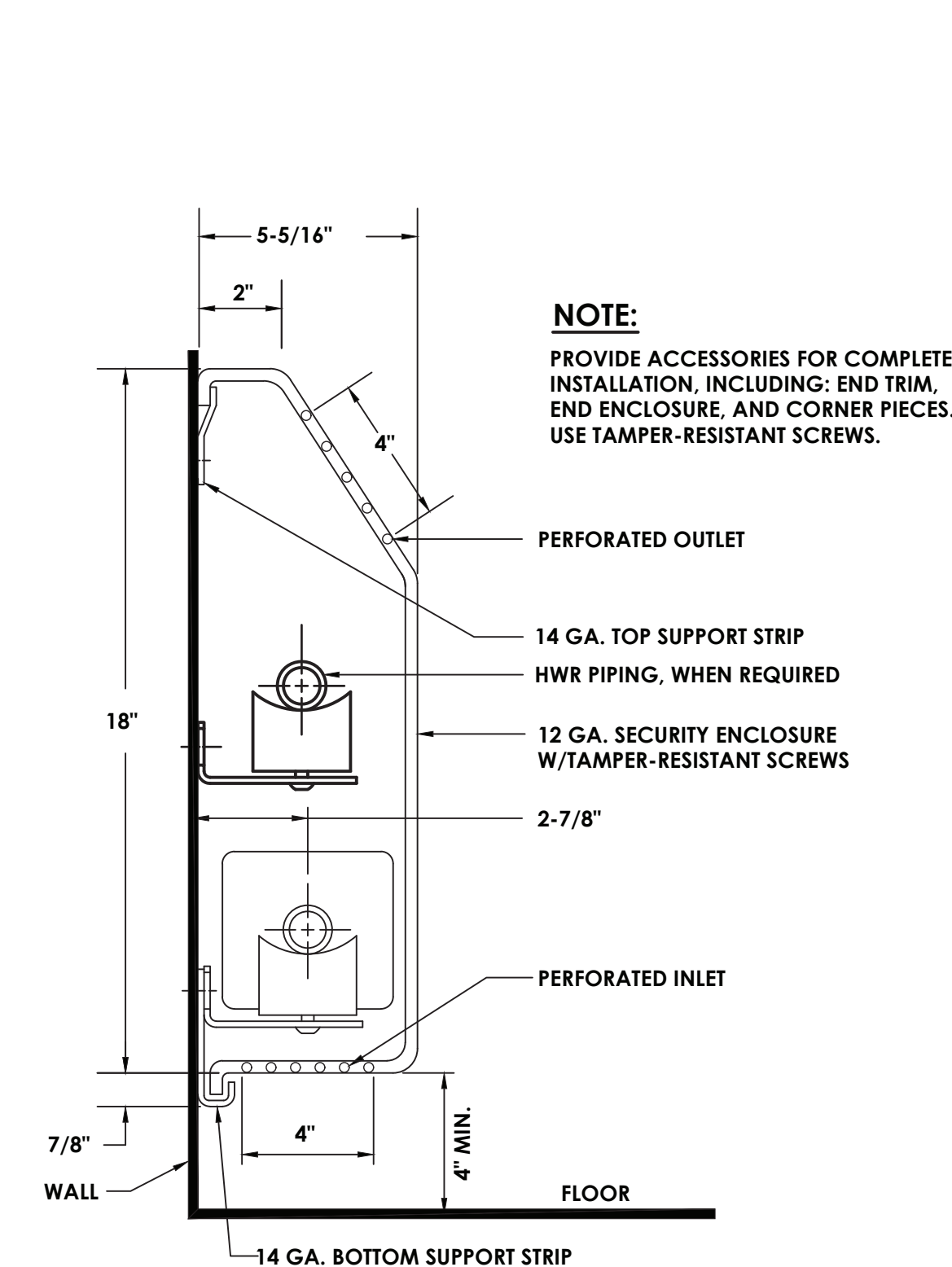
3 FIN-TUBE RADIATION DETAIL
H800 NOT TO SCALE



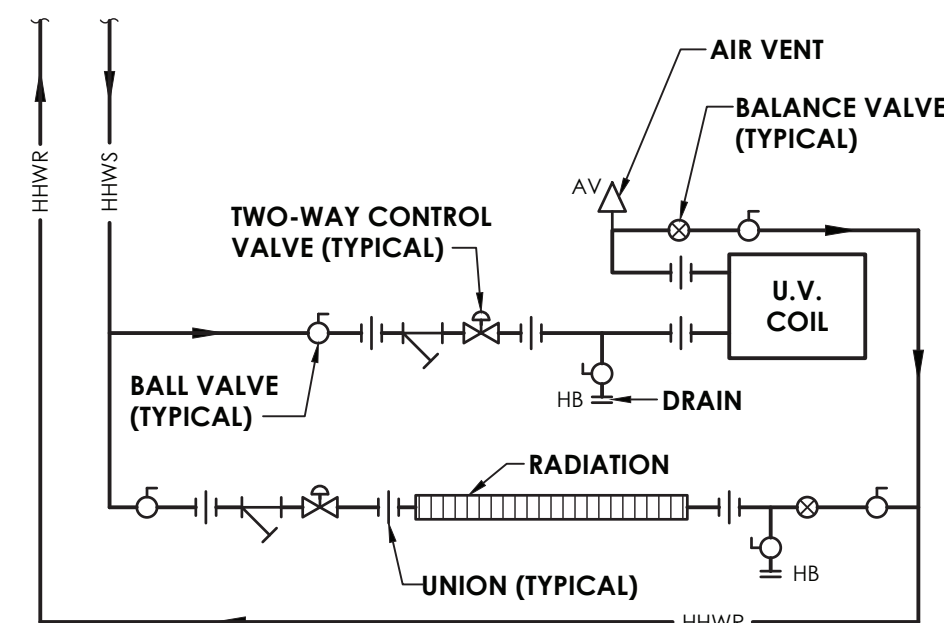
4 CONTROL VALVE SCHEMATICS
H800 NOT TO SCALE



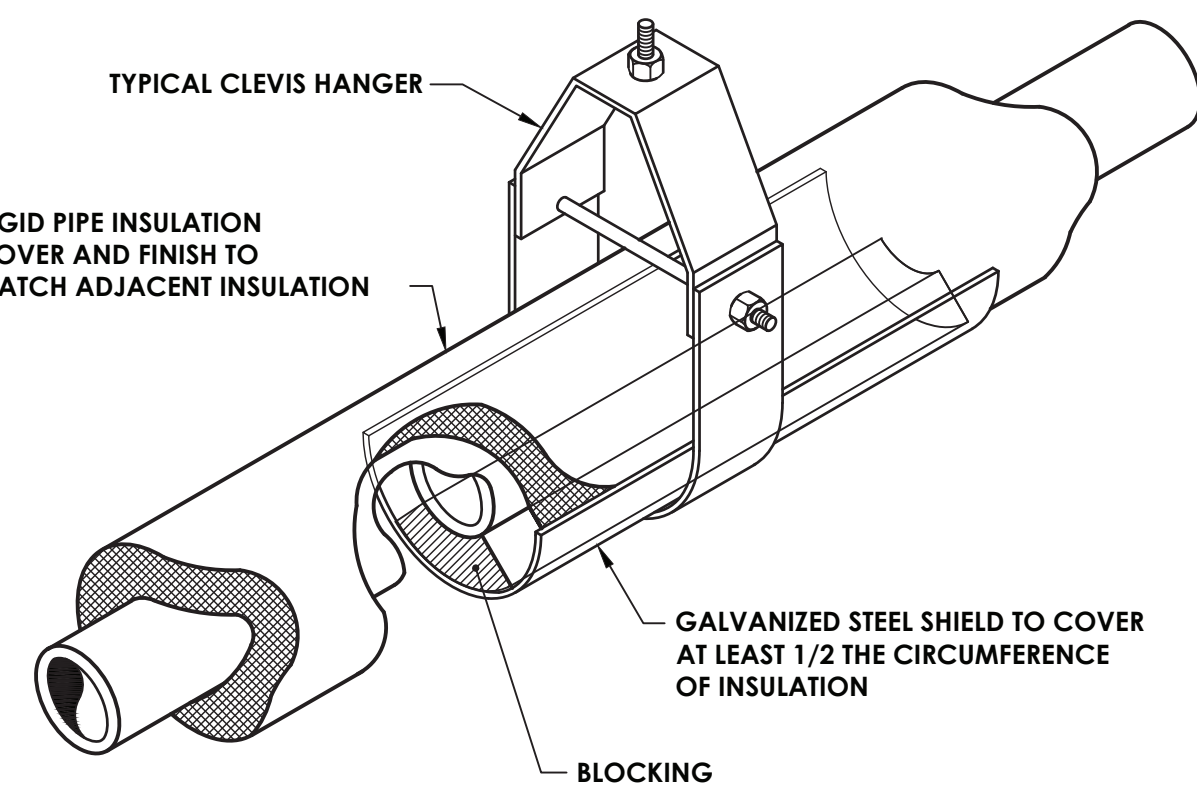
5 CABINET UNIT HEATER AND UNIT HEATER COIL PIPING SCHEMATIC
H800 NOT TO SCALE



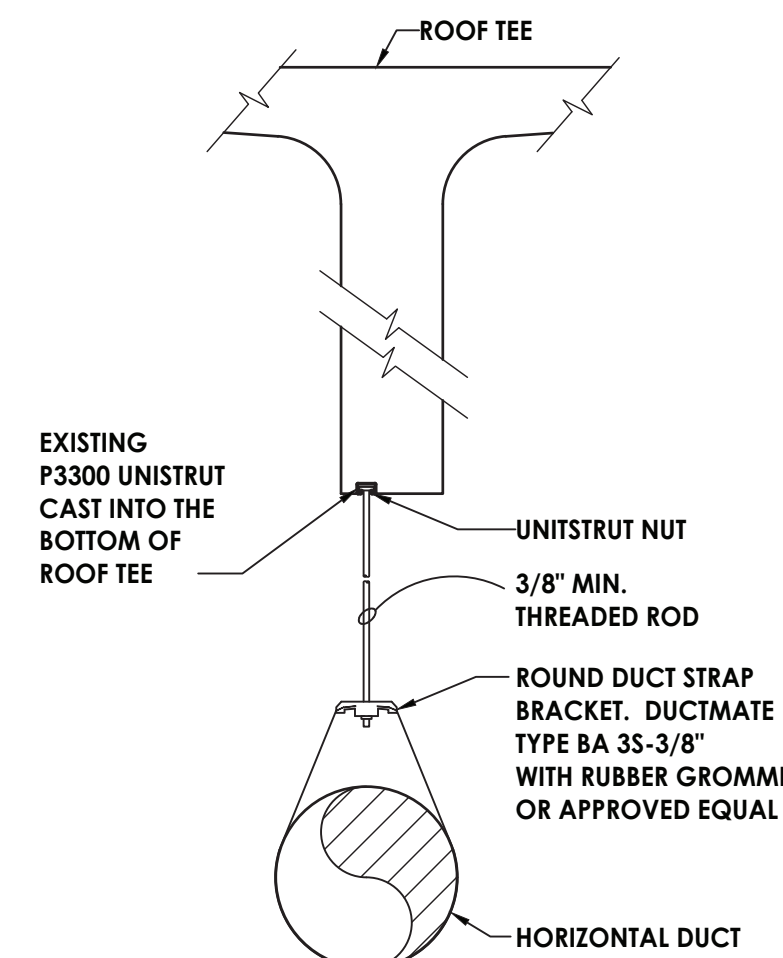
6 FIN TUBE RADIATION DETAIL
H800 NOT TO SCALE



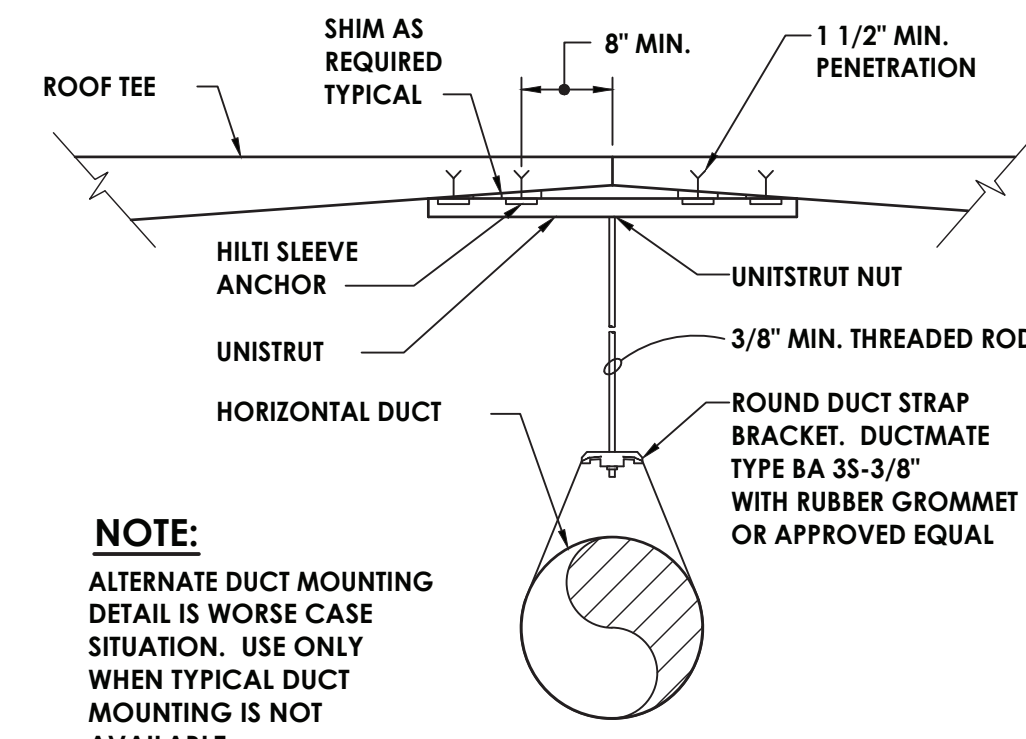
7 UNIT VENTILATOR DETAIL WITH HOT WATER RADIATION
H800 NOT TO SCALE



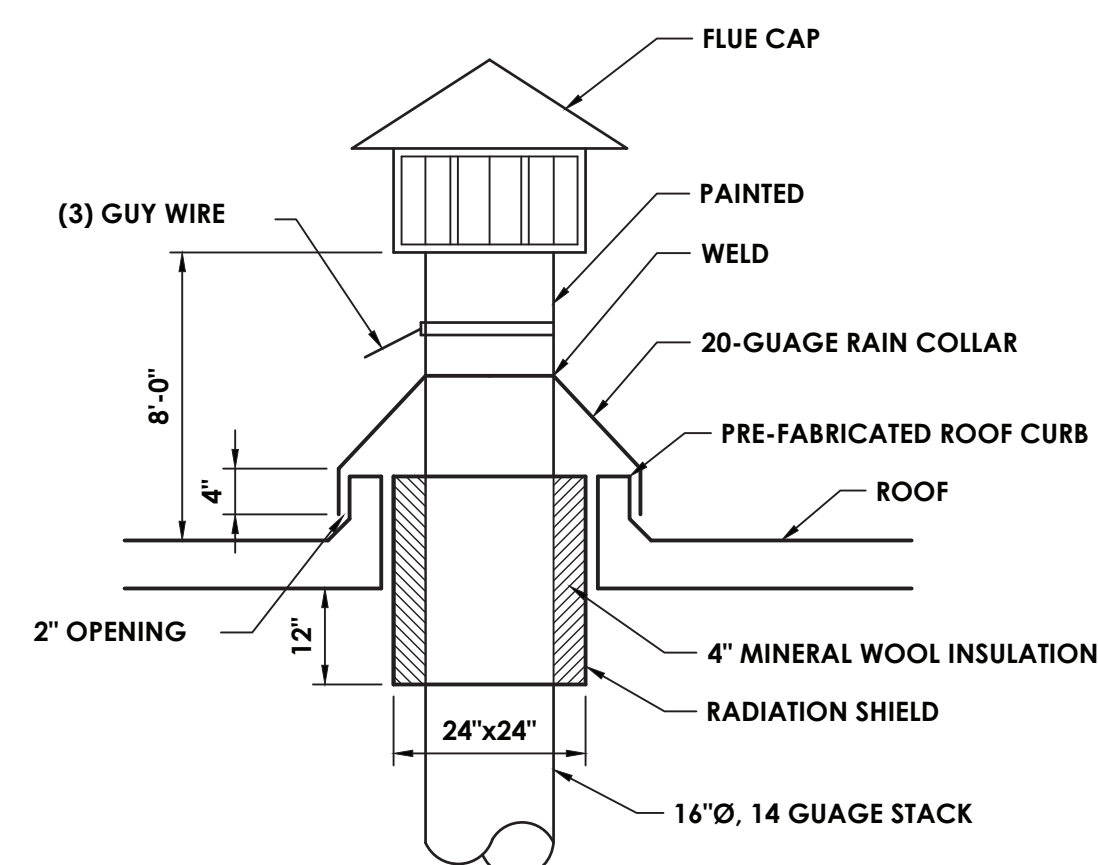
8 INSULATED PIPE HANGER DETAIL
H800 NOT TO SCALE



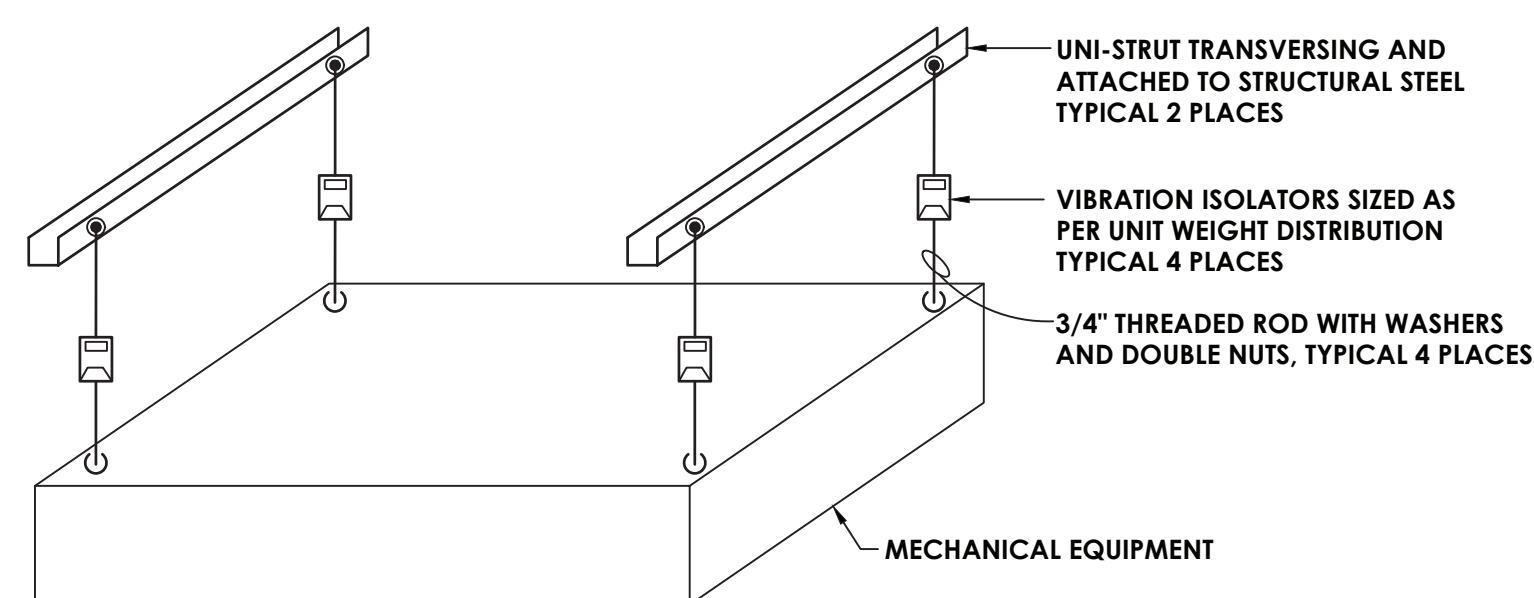
TYPICAL DUCT MOUNTING BRACKET



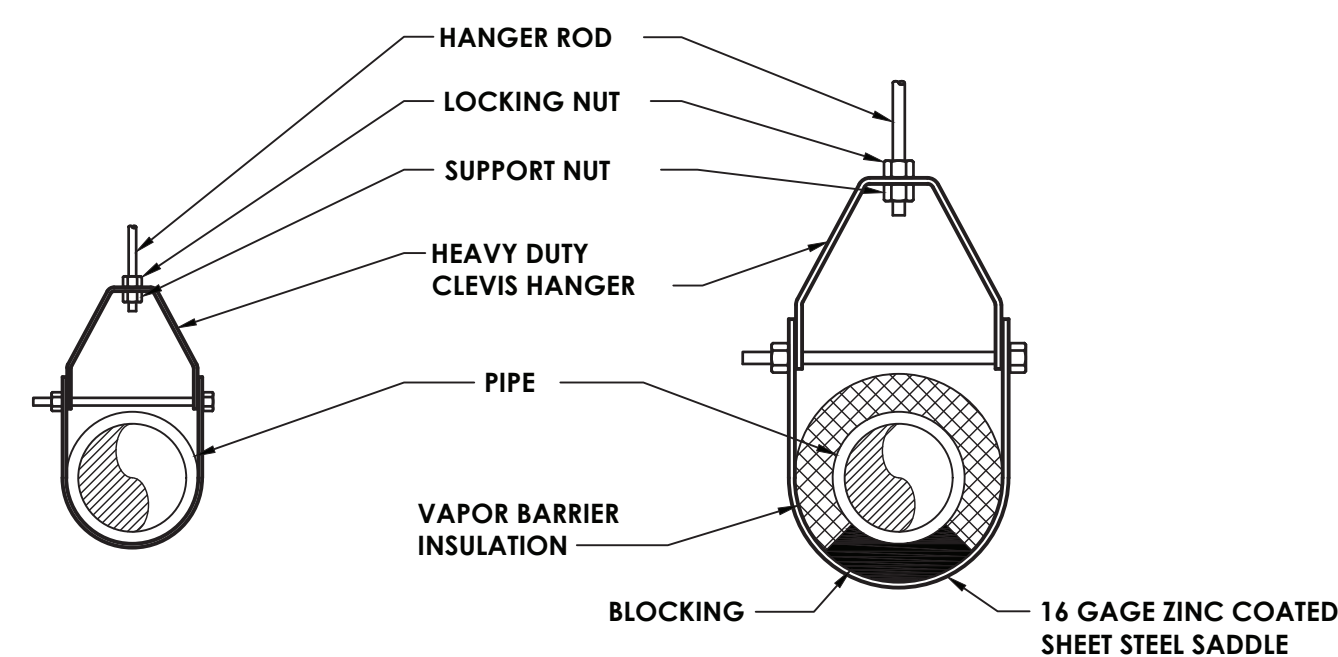
ALTERNATE DUCT MOUNTING



10 BOILER STACK DETAIL
H800 NOT TO SCALE



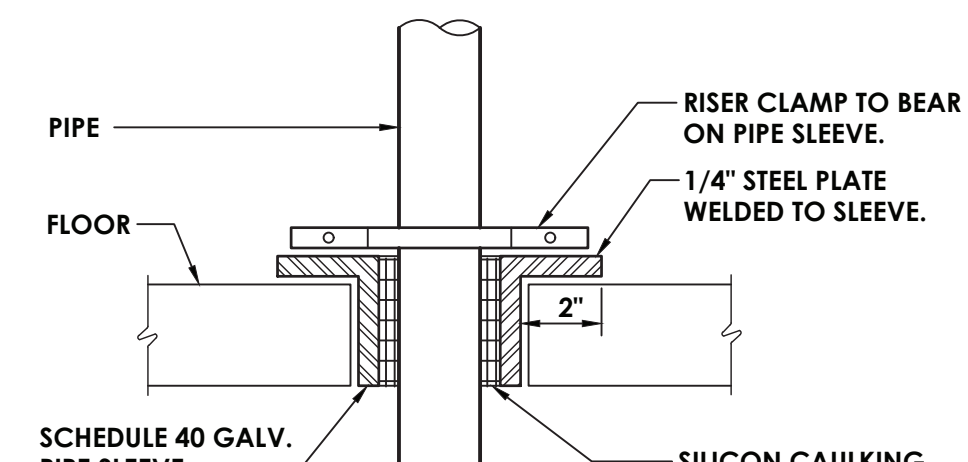
11 INDOOR UNIT SUPPORT INSTALLATION DETAIL
H800 NOT TO SCALE



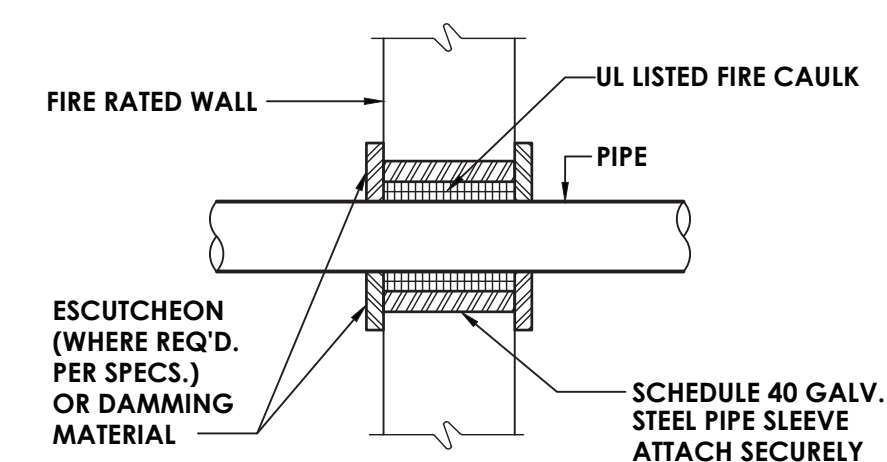
CLEVIS HANGER SINGLE HORIZONTAL RUNS
NO VAPOR BARRIER INSULATION

CLEVIS HANGER SINGLE HORIZONTAL RUNS
WITH VAPOR BARRIER INSULATION

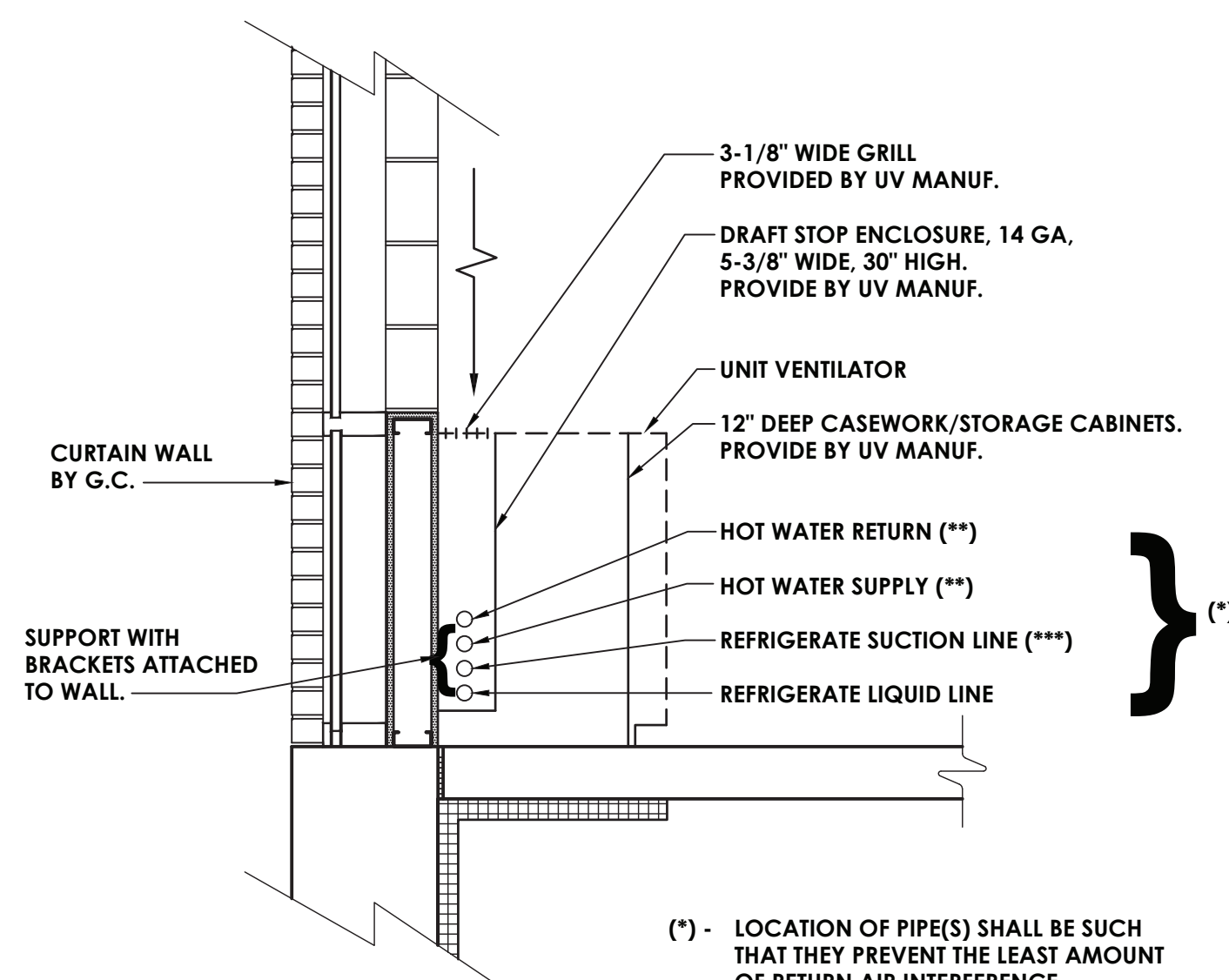
16 PIPE SUPPORT DETAIL
H800 NOT TO SCALE



15 PIPE THROUGH NON-RATED FLOOR
H800 NOT TO SCALE



14 PIPE THROUGH RATED WALL
H800 NOT TO SCALE



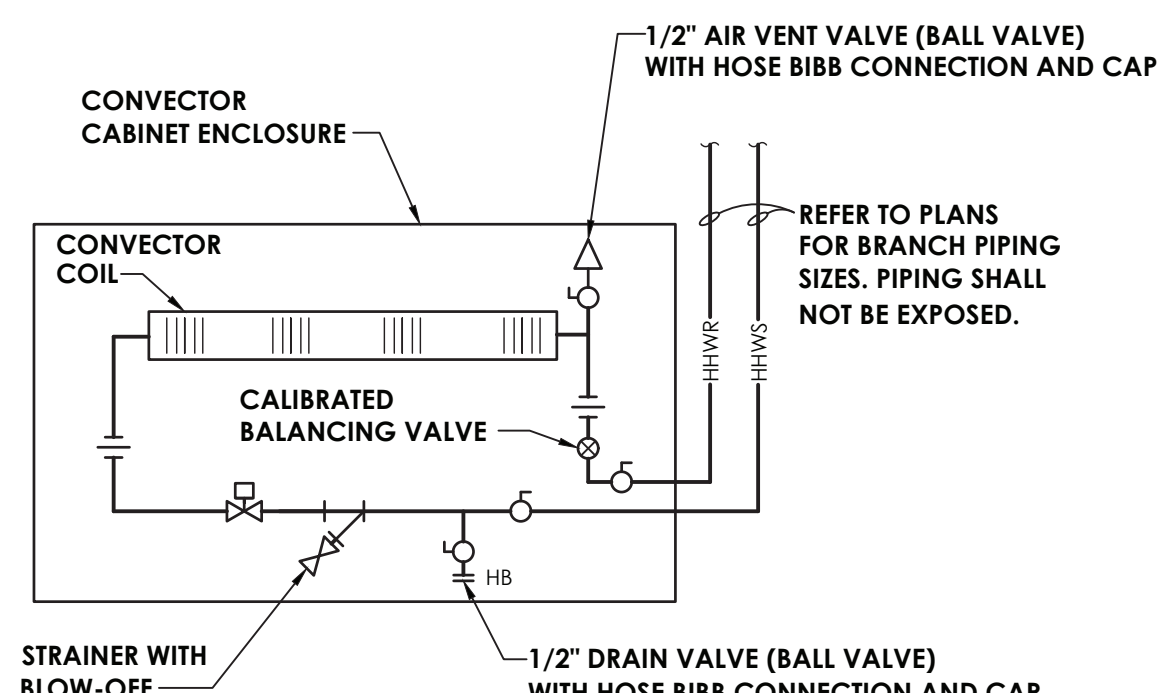
NOTE:
DRAFT STOP ENCLOSURE AND CABINETRY SHALL RUN FULL LENGTH OF EXTERIOR WALL UNLESS OTHERWISE NOTED.

(*) - LOCATION OF PIPE(S) SHALL BE SUCH THAT THEY PREVENT THE LEAST AMOUNT OF RETURN AIR INTERFERENCE.

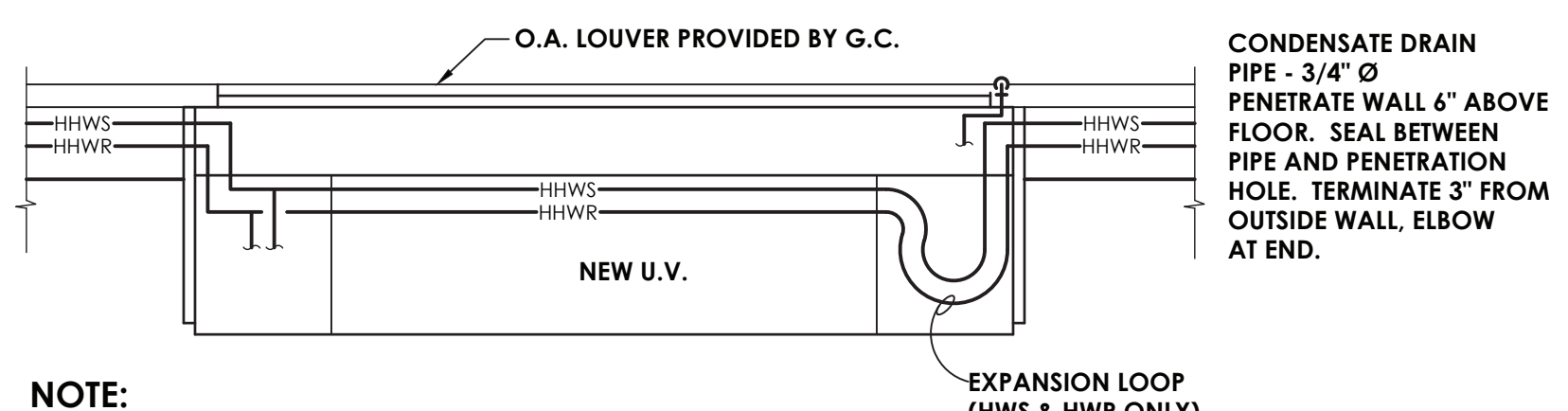
(**) - DO NOT INSULATE WITHIN DRAFT STOP ENCLOSURE

(***) - 1\"/>

13 TYPICAL SECTION/ELEVATION OF UNIT VENTILATOR AT DRAFT STOP
H800 NOT TO SCALE



17 CONVECTOR DETAIL
H800 NOT TO SCALE



NOTE:
1) CHILLED WATER PIPE NOT SHOWN.

18 TYPICAL PLAN AT VERTICAL UNIT VENTILATOR
H800 NOT TO SCALE

PROJECT INFORMATION
Project Number
13294.23
Client Name
SUFFERN CSD

Project Name
RP CONNOR - BOILER
CONVERSION

District Office Address
SUFFERN CENTRAL SCHOOL DISTRICT
45 MOUNTAIN AVENUE
HILLBURY, NY 10931

SUFFERN CSD
100 H801-01 (06-08-02)

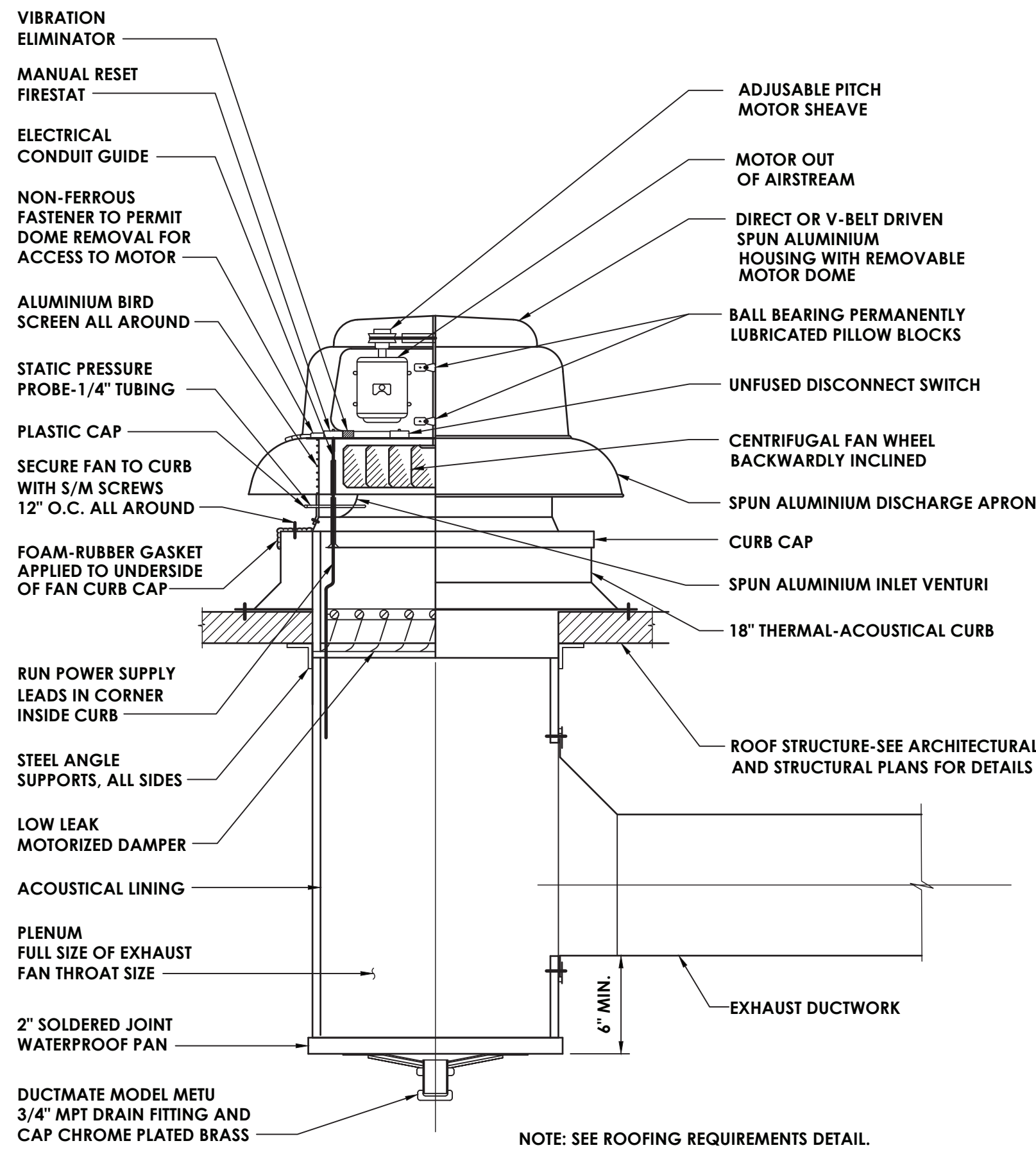
PROJECT ISSUE & REVISION SCHEDULE
No. Date Description

PROFESSIONAL STAMPS

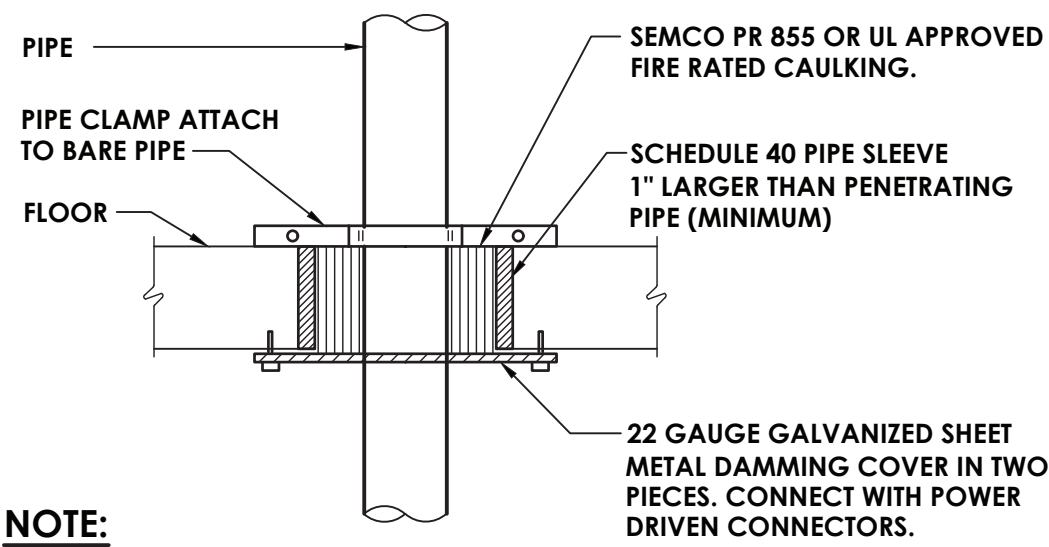
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SHEET INFORMATION
Issue Date
06/15/2023
Project Status
CD
Drawn By
Checked By
Drawing Title
HVAC DETAILS

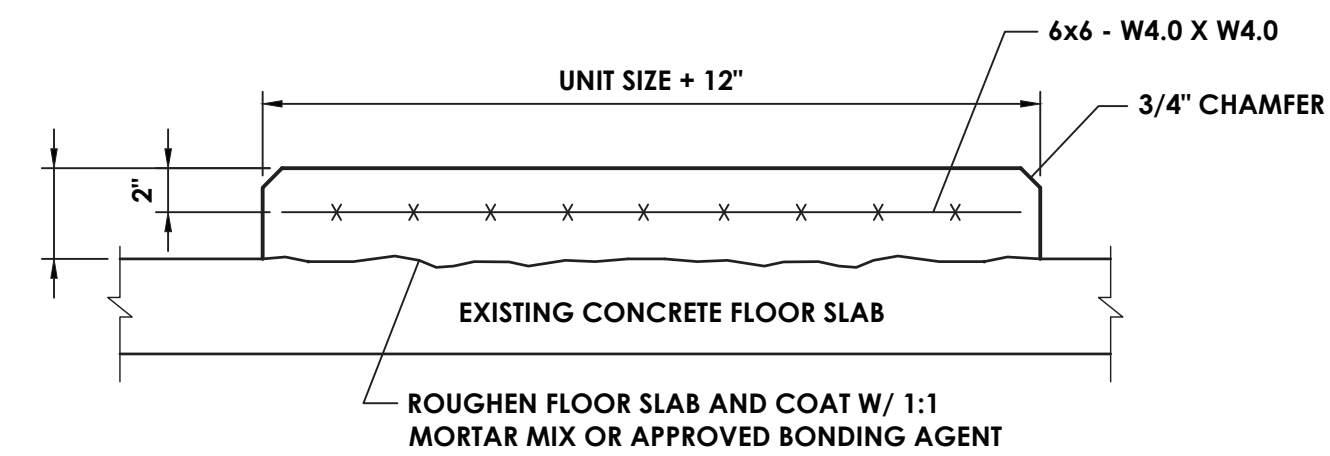
Drawing Number
RPC
H801



1
H801
EXHAUST FAN DETAIL
NOT TO SCALE

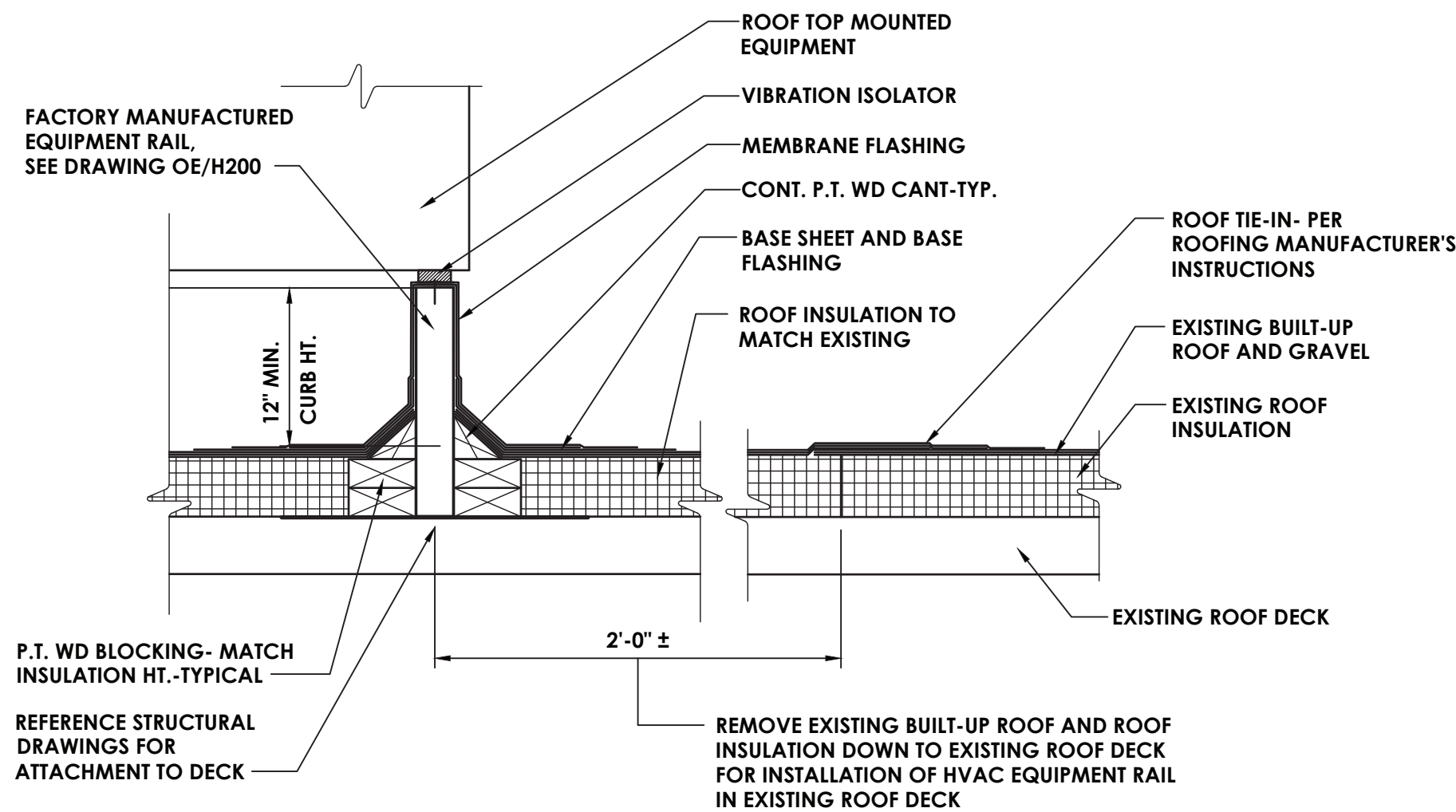


3
H801
PIPE THROUGH RATED FLOOR
NOT TO SCALE

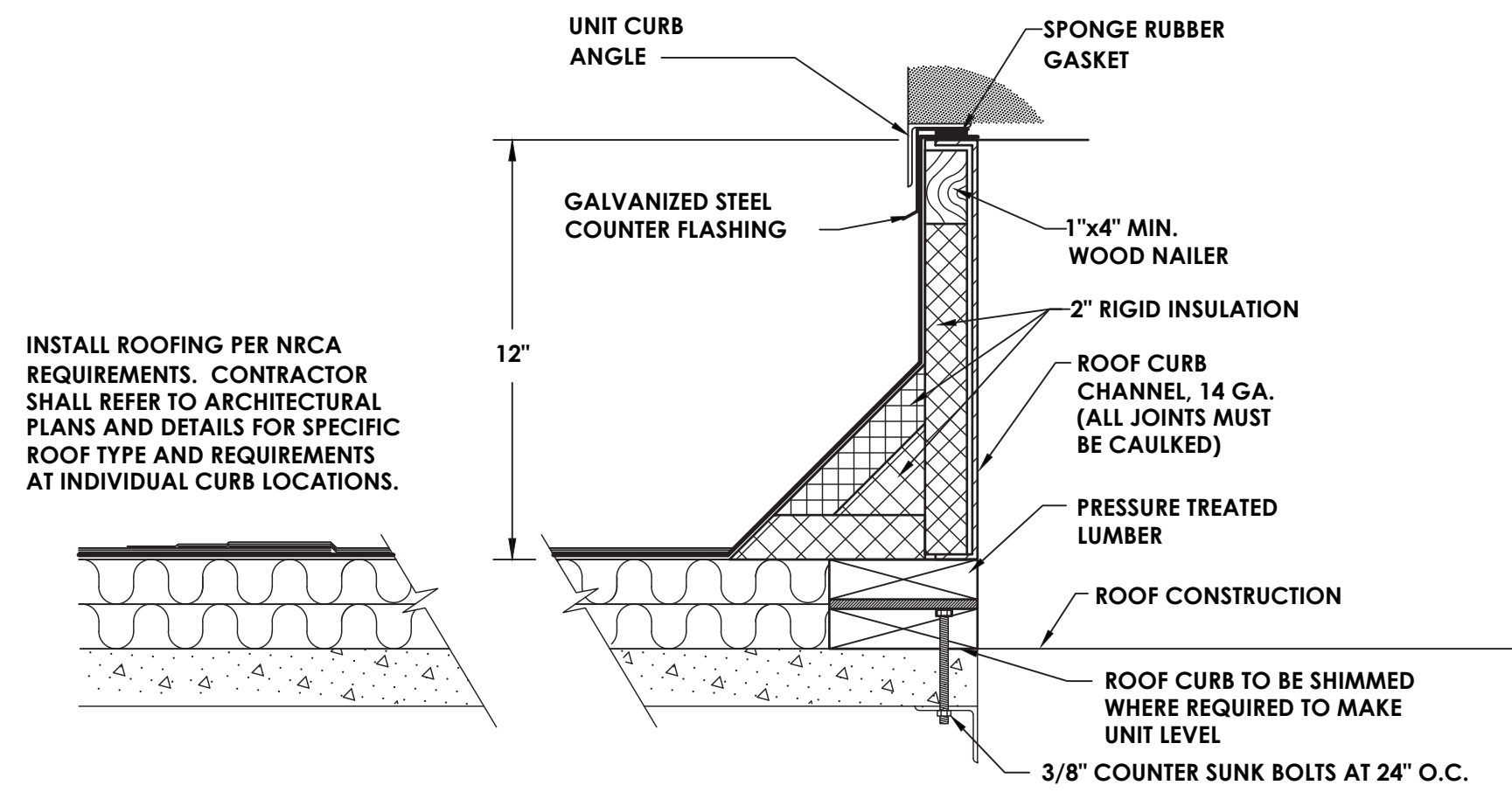


NOTE: COORDINATE UNIT SIZE WITH EQUIPMENT SELECTED.

5
H801
EQUIPMENT HOUSEKEEPING PAD DETAIL
N.T.S.

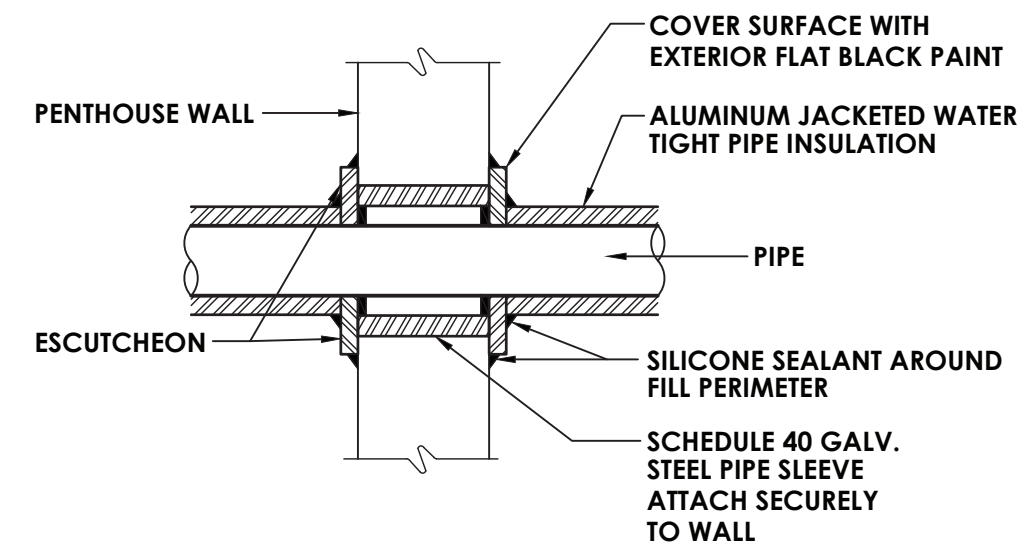


7
H801
EQUIPMENT RAIL DETAIL
SCALE: 1 1/2" = 1'-0"

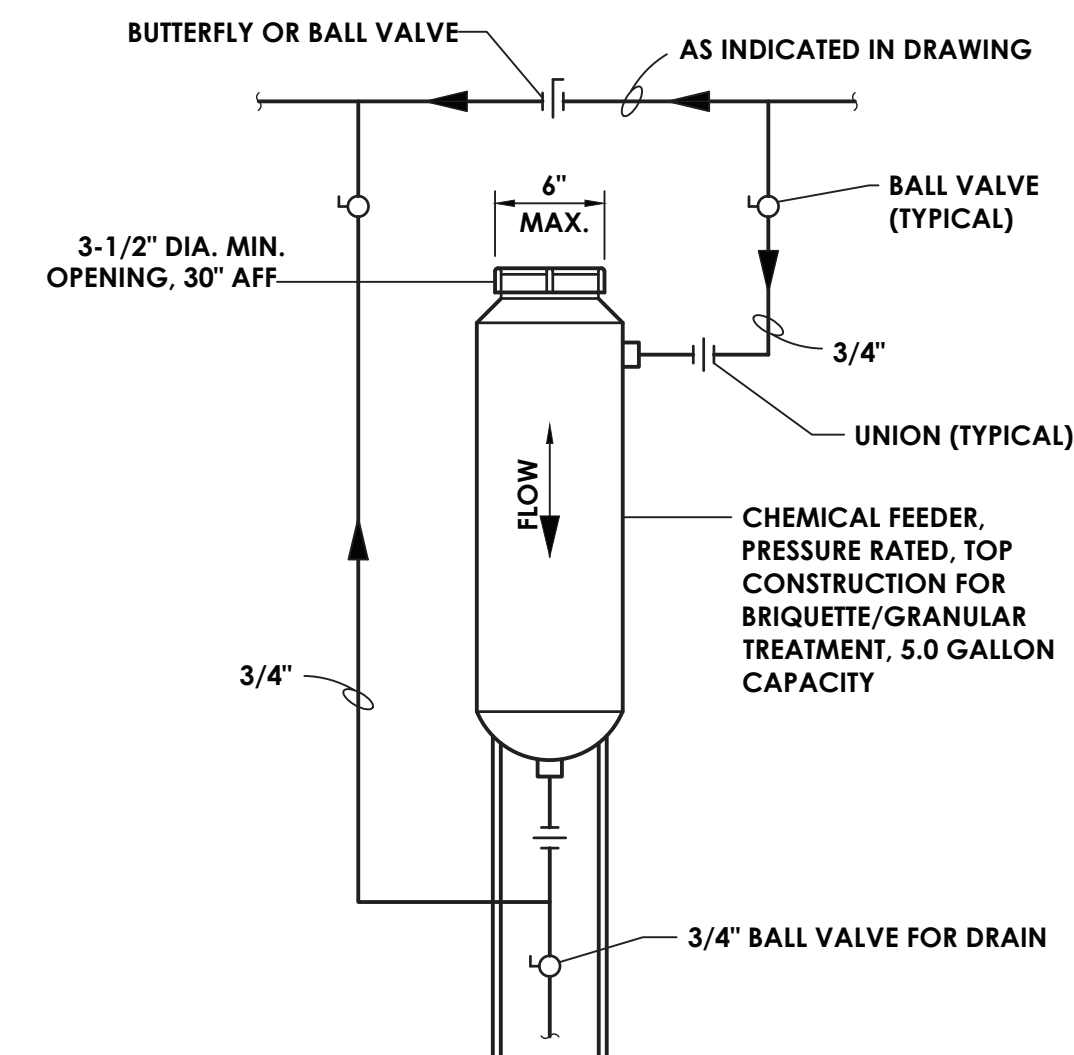


NOTE:
- FOR EXISTING ROOFS, SEE 5/H802 FOR ROOFING REQUIREMENTS.

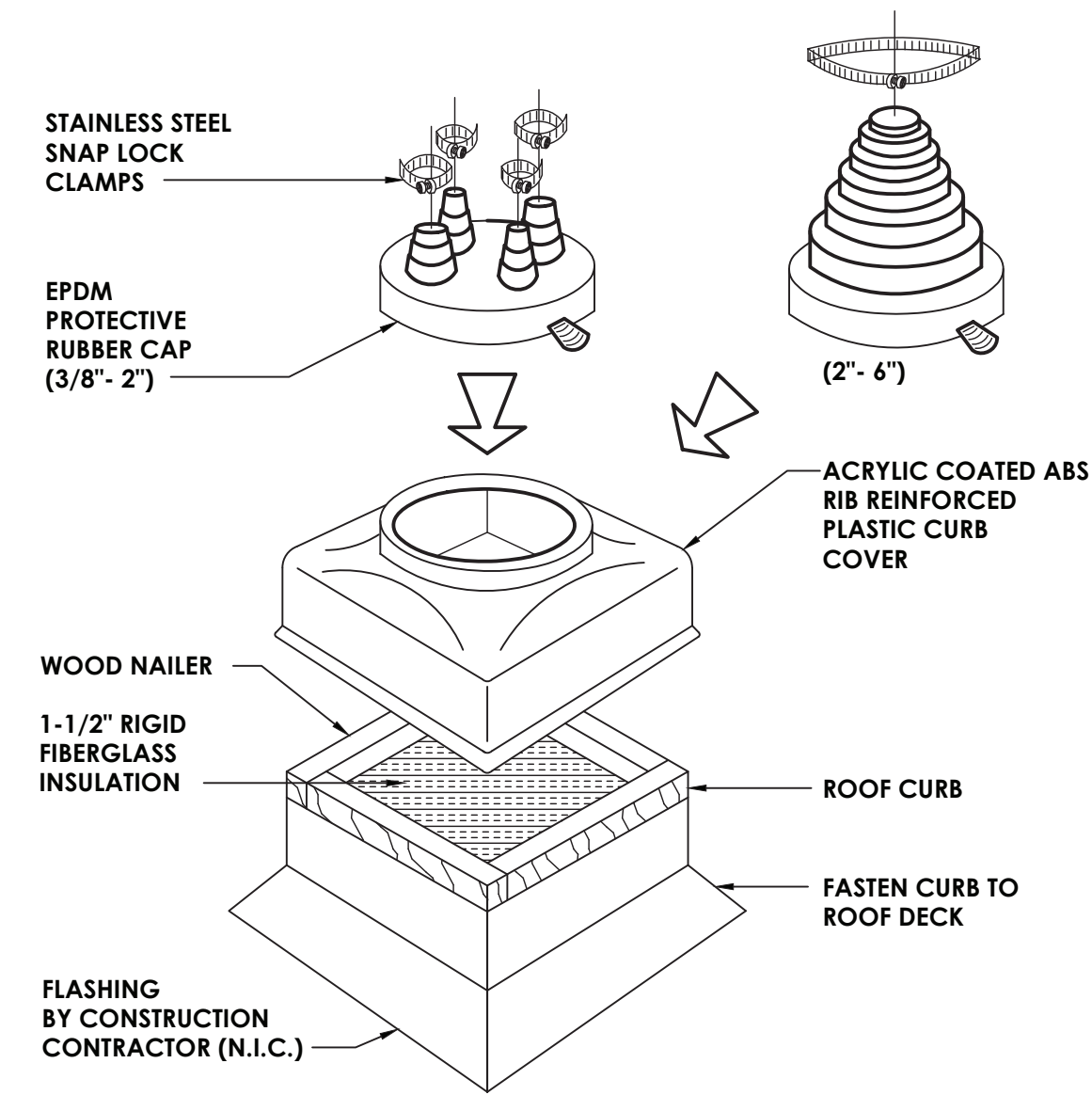
2
H801
EXHAUST FAN ROOF CURB DETAIL
NOT TO SCALE



4
H801
PIPE THROUGH NON-RATED WALL
NOT TO SCALE



6
H801
MANUAL CHEMICAL FEEDER SCHEMATIC
N.T.S.



8
H801
PIPE PORTAL DETAIL
N.T.S.

Plotted By: Brandon Wierawski

Date last accessed: 6/13/2023 2:23 PM

Date last accessed: 6/13/2023 1:20 PM

Sheet Size: 30x42
Drawing Name: S:\Projects\Surfern CSD\RP Connor\Hedding Con\VD Design\045 CAD\AutoCAD\MECH\UP\UP00.dwg |

LOOSE LINTEL SCHEDULE		
WALL TYPE	SPAN	LINTEL
4" MASONRY / VENEER	1'-4" to 4'-6"	L 4 x 3 1/2 x 5/16 (LL.V.)
	4'-7" to 5'-6"	L 4 x 3 1/2 x 5/16 (LL.V.)
	5'-7" to 6'-6"	L 5 x 3 1/2 x 5/16 (LL.V.)
	6'-7" to 7'-6"	L 6 x 3 1/2 x 5/16 (LL.V.)
6" BLOCK	1'-4" to 4'-6"	WT 4 x 9
	4'-7" to 5'-6"	WT 4 x 10.5
	5'-7" to 6'-6"	WT 5 x 13
	6'-7" to 7'-6"	WT 5 x 13
8" BLOCK	1'-4" to 4'-6"	(2) - L 4 x 3 1/2 x 5/16 (LL.V.)
	4'-7" to 5'-6"	(2) - L 4 x 3 1/2 x 5/16 (LL.V.)
	5'-7" to 6'-6"	(2) - L 5 x 3 1/2 x 5/16 (LL.V.)
	6'-7" to 7'-6"	(2) - L 6 x 3 1/2 x 5/16 (LL.V.)
4" BRICK & 8" BLOCK OR 12" BLOCK	1'-4" to 4'-6"	(3) - L 4 x 3 1/2 x 5/16 (LL.V.)
	4'-7" to 5'-6"	(3) - L 4 x 3 1/2 x 5/16 (LL.V.)
	5'-7" to 6'-6"	(3) - L 5 x 3 1/2 x 5/16 (LL.V.)
	6'-7" to 7'-6"	(3) - L 6 x 3 1/2 x 5/16 (LL.V.)
1. PROVIDE LOOSE LINTELS OVER ALL OPENINGS IN EXTERIOR AND INTERIOR MASONRY WALLS AS SCHEDULED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.		
2. MINIMUM BEARING FOR ALL LINTELS SHALL BE 8" EACH END.		
3. BLOCK WALLS SHALL BE GROUDED SOLID 3 COURSES BELOW BEARING POINT FOR A WIDTH OF 14" UNLESS NOTED OTHERWISE ON STRUCTURAL FRAMING PLANS.		
4. SEE ARCH., HVAC, & PLUMBING DRAWINGS FOR SIZE AND LOCATION OF ALL WALL OPENINGS.		
5. CONTRACTOR SHALL PROVIDE AN ADDITIONAL 50 FT. OF ANGLE 5 x 3 1/2 x 5/16 OR THE EQUIVALENT.		
6. FOR LINTEL SPANS GRATER THAN 6'-0", BOLT ASSEMBLIES TOGETHER AT 1/3 POINTS.		
7. WHERE LINTELS REQUIRE 3 ANGLES, PROVIDE A 3/16" PLATE EQUAL TO WALL WIDTH ACROSS SPAN, ATTACHED TO BOTTOM OF THE LINTEL.		

UNIT HEATER SCHEDULE														
MARK	LOCATION	TYPE	CFM	EWT	LWT	OUTPUT MBH	GPM	PRESS. DROP (FT WC)	EAT	LAT	V/PH/Hz	HP	TYPICAL UNIT MFG & MODEL NO.	REMARKS
CUH-1	PASSAGE 119	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
CUH-2	LOBBY 121	WALL RECESSED	261	180	150	21	1.4	3.6	65	137.4	115/1/60	0.140	IEC FHY02	1
CUH-3	CORRIDOR 135	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
CUH-4	KINDERGARTEN 8	WALL RECESSED	271	180	150	17	1.2	1.7	65	121.6	115/1/60	0.140	IEC FHY02	1
REMARKS: 1. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH 2. COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.														

RP CONNOR OUTSIDE AIR CALCS													
TOTAL													
OCCUPANCY													
O.A. PER													
O.A. PER													
EXHAUST AIRFLOW RATE CFM/FT2													
VOLT/VOL													
ADJUSTED													
REMARK													
Unit	Space	CFM/ft2	FOR	TOTAL	PERSON	SQ. FT.	Vbz						
Tag	Description	at Maximum	VENTILATION	SQ. FT.	(CFM)	(CFM)	Ez						
UV-1	001 KINDER	29	1121	10	0.12	425	0.9					472	600
UV-2	002 KINDER	28	1080	10	0.12	411	0.9					456	600
UV-3	003 FIRST GRADE	21	823	10	0.12	309	0.9					343	450
UV-4	004 FIRST GRADE	21	807	10	0.12	307	0.9					341	450
UV-5	005 FIRST GRADE	21	807	10	0.12	307	0.9					341	450
UV-6	006 FIRST GRADE	21	823	10	0.12	309	0.9					343	450
UV-7	008 KINDER	29	1137	10	0.12	426	0.9					474	600
UV-8	009 KINDER	29	1128	10	0.12	425	0.9					472	600
UV-9	013 MUSIC	25	765	10	0.08	292	0.9					335	400
UV-9	013A PRACTICE	2	49	10	0.06	23	0.9					25	50
UV-9	012B PRACTICE	2	49	10	0.06	23	0.9					25	50
UV-10	014 ART	50	1164	10	0.18	710	0.9	0.7				788	450
UV-11	014 ART	-	-	-	-	-	-	-				-	450
CU-1	014A KLN	1	50	10	0.18	19	0.9	0.7				21	50
UV-17	19 CAFETERIA	257	2561	7.5	0.18	2388	0.9					2654	450 1
UV-18	19 CAFETERIA	-	-	-	-	-	-	-				-	450 1
UV-19	19 CAFETERIA	-	-	-	-	-	-	-				-	450 1
UV-12	36 LIBRARY	71	2020	10	0.12	952	0.9					1058	370
UV-13	36 LIBRARY	-	-	-	-	-	-	-				-	370
UV-14	36 LIBRARY	-	-	-	-	-	-	-				-	370
UV-15	36A RESOURCE	16	613	10	0.12	234	0.9					260	260
UV-15	36B OFFICE	2	204	5	0.06	22	0.9					25	50
UV-15	36C COMPUTER OFFICE	3	402	5	0.06	39	0.9					43	50
UV-16	040 FACULTY	5	816	5	0.06	74	0.9					82	100
REMARKS: 1. ADDITIONAL OUTSIDE AIR PROVIDED BY EXISTING ROOFTOP UNIT.													

AIR COOLED CONDENSER UNIT SCHEDULE															
MARK	LOCATION	SERVES	NOMINAL TONS	REFRIGERANT TYPE	RATED COOLING CAPACITY (BTU/HR)	SST °F	ELECTRICAL DATA					EER/SEER	OPERATING WEIGHT (LBS.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS
							FAN		COMPRESSOR	VOLT/Ø	MCA				
							NO.	QTY.							
CU-1	ROOF	UV-12	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0461	1,2
CU-2	ROOF	UV-13	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0461	1,2
CU-3	ROOF	UV-14	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0461	1,2
CU-4	ROOF	UV-15	4	R-401A	45,500	32	1	1	19.9	208/1	26.2	11.7/14	220	DAIKIN DX14SA0461	1,2
REMARKS: 1.ENERGY EFFICIENT SCROLL COMPRESSOR 2. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT															

REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
R1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE 500	1
REMARKS: 1.PROVIDE WITH 24"x24" CEILING MODULE FRAME LAY IN STYLE.						

AIR SEPARATOR SCHEDULE						
MARK	LOCATION	SERVED	GPM	DIA. (IN)	LNG. (IN)	STRAINER SQ. IN. FA
AS-1	BOILER ROOM	HOT WATER SYSTEM	225	16	31.44	140
REMARKS: 1. BELL AND GOSSETT R-4F						

CONVECTOR SCHEDULE							
MARK	SERVICE	MBH	LENGTH	HEIGHT	DEPTH	GPM	TYPICAL UNIT MFG & MODEL NO.
CV-1	1C	2.7	28	24	4	0.5	SIGMA CFRB
CV-2	2B	2.7	28	24	4	0.5	SIGMA CFRB
CV-4	10B	5	48	24	4	0.5	SIGMA CFRB
CV-5	10B	5	48	24	4	0.5	SIGMA CFRB
CV-6	11B	6.7	56	32	4	0.5	SIGMA CFRB
CV-7	11B	6.7	56	32	4	0.5	SIGMA CFRB
CV-8	122	9.7	56	32	6	0.65	SIGMA CFRB
CV-9	129	9.8	64	24	6	0.65	SIGMA CFRB
CV-10	129	9.8	64	24	6	0.65	SIGMA CFRB
CV-11	132	9.8	64	24	6	0.65	SIGMA CFRB
CV-12	133	6.7	56	32	4	0.5	SIGMA CFRB
CV-13	133	6.7	56	32	4	0.5	SIGMA CFRB
CV-14	134	7.7	64	32	4	0.51	SIGMA CFRB
CV-15	134	7.7	64	32	4	0.51	SIGMA CFRB
CV-16	136A	2.7	34	28	4	0.5	SIGMA CFRB
CV-17	136A	2.7	34	28	4	0.5	SIGMA CFRB
REMARKS: 1.COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.							

UNIT VENTILATOR SCHEDULE																					
MARK	ROOM SERVES	OA FAN	UNIT TYPE	CFM	ELECTRICAL		WINTER		HW COIL CAPACITY						COOLING COIL CAPACITY				CABINET SIZE (LXHXD) IN	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
					MCA	VOLT/Ø	OA °F	RA °F	EWI °F	LWT °F	EAT °F	LAT °F	MBH	GPM	TONS	EAT °F	LAT °F	MBH			
UV-1	1	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-2	2	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-3	3	350	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-4	4	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-5	5	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-6	6	350	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-7	8	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-8	9	475	HORIZONTAL	1500	6.3	115/1	2	72	180	113.5	37.0	100.6	99.7	3.0	5.0	81.3	55	57.9	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-9	12	500	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-10	14	450	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-11	14	450	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	4.0	81.9	54.2	47.1	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,8
UV-12	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UJAV5PH15	1,2,4,5,6,7
UV-13	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UJAV5PH15	1,2,4,5,6,7
UV-14	36	370	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UJAV5PH15	1,2,4,5,6,7
UV-15	36A	310	HORIZONTAL	1500	6.3	115/1	2	72	180	117.3	37.0	101.9	78.4	2.5	3.5	80.2	54.9	40.4	98X30X22	DAIKIN UJAV5PH15	1,2,4,5,6,7
UV-16	40	100	HORIZONTAL	1500	6.3	115/1	2	72	180	143.8	60.0	103.8	54.3	3.0	3.0	76.4	54.9	30.5	98X30X22	DAIKIN UJAV5PH15	1,2,3,4,5,6,7
UV-17	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UJAV5PH15	1,4,5,6
UV-18	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UJAV5PH15	1,4,5,6
UV-19	19	450	HORIZONTAL	1500	6.3	115/1	2	72	180	111.3	37.0	99	103.1	3.0	-	-	-	-	98X30X22	DAIKIN UJAV5PH15	1,4,5,6
REMARKS:																					
1. FACTORY MOUNTED AND WIRE DISCONNECT.																					
2. CONDENSATE PUMP, DRAIN PAN ALARM.																					
3. PROVIDE DX COIL FOR FUTURE CONNECTION BY OTHERS.																					
4. FLOOR MOUNTED.																					
5. COLOR TO BE SELECTED BY ARCHITECT BASED ON MANUFACTURER'S STANDARD COLORS.																					
6. PROVIDE FACE AND BYPASS DAMPER.																					
7. ALTERNATE MC-01, REPLACE EXISTING UV LOUVER WITH NEW 72" X 10-3/8" LOUVER.																					
8. PROVIDE NEW LOUVER 72" X 10-3/8".																					