

**DOCUMENT 00 90 00**  
**ADDENDUM**

**ADDENDUM NO. [1]                      Date: March 23, 2021**

**RE:                      SCHOOL DISTRICT OF HOLMEN  
SAND LAKE ELEMENTARY BOILER REPLACEMENT  
3600 SAND LAKE ROAD  
HOLMEN, WI 54636  
HSR PROJECT NO. 21004**

**FROM:                  HSR Associates, Inc  
100 Milwaukee Street  
La Crosse, WI 54603  
(608) 784-1830**

**To:                      Prospective Bidders**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 2021. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [1] page, [0] specification sections, [] 8 ½ x 11 drawings, [] 24 x 36 drawings and [2] 30 x 42 drawings.

**CHANGES TO BIDDING REQUIREMENTS AND CONDITIONS OF THE CONTRACT:**

1. Pre-Bid meeting attendance sheet attached hereto.

**CHANGES TO SPECIFICATIONS:**

2. Section 23 25 00 WATER TREATMENT/CHEMICAL
  - a. Glycol systems shall be filled to 35% Propylene Glycol in lieu of 30% listed in drawings and specifications.
  - b. Clarification on Scope: Contractor shall do an initial test to determine existing hot water system glycol %. Contractor shall be responsible for adding glycol to all boiler room piping. If additional glycol is required for the rest of the building hot water system piping to bring it up to 35%, it will be negotiated with the owner at that time.

**CHANGES TO DRAWINGS**

3. Sheet M001 HVAC General Info Sheet 30 x 42 attached hereto
  - a. Detail 2M001 BOILER PIPING SCHEMATIC. Boiler circulating pump shall reference BCP in lieu of HWP.
  - b.
4. Sheet M100 Removal and Remodel Plans 30 x 42 attached hereto
  - a. Added (2) Emergency Boiler Shutoff Switches to the 4M100 Piping Remodel Plan. These switches are specified under Section 23 52 33 CONDENSING BOILERS 3.01 Paragraph V "REMOTE SHUTDOWN". Switches shall be supplied, installed, and wired by Electrical Contractor.
  - b. Removed new chemical feeder that was noted on 4M100. Old chemical feeder shall still be removed under alternate bid, but no new chemical feeder is required.

**END OF DOCUMENT 00 90 00**

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## "SIGN-IN" SHEET

**PROJECT: Holmen SD Sand Lake Elementary  
Boiler Replacement**

**HSR NO.: 21004**

**DATE: March 16, 2021**



ARCHITECTURE  
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INTERIOR DESIGN

## HSR Associates

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**PLEASE PRINT ALL INFORMATION CLEARLY**

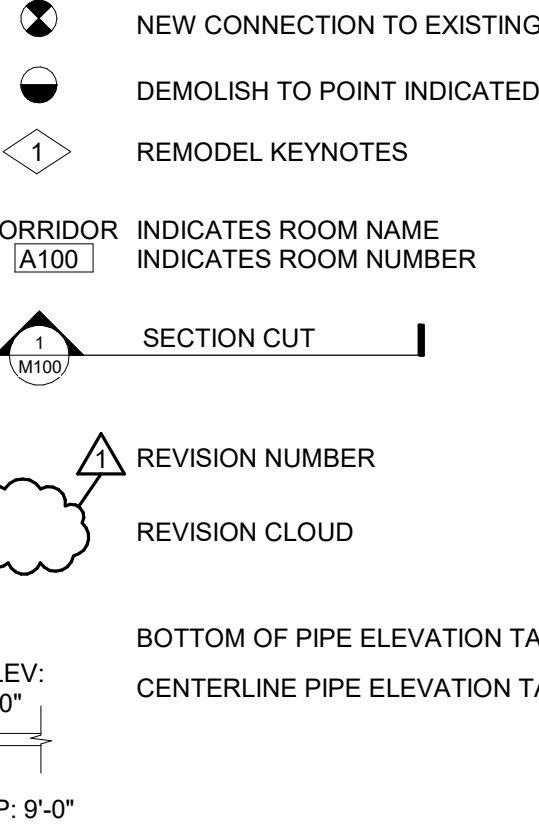
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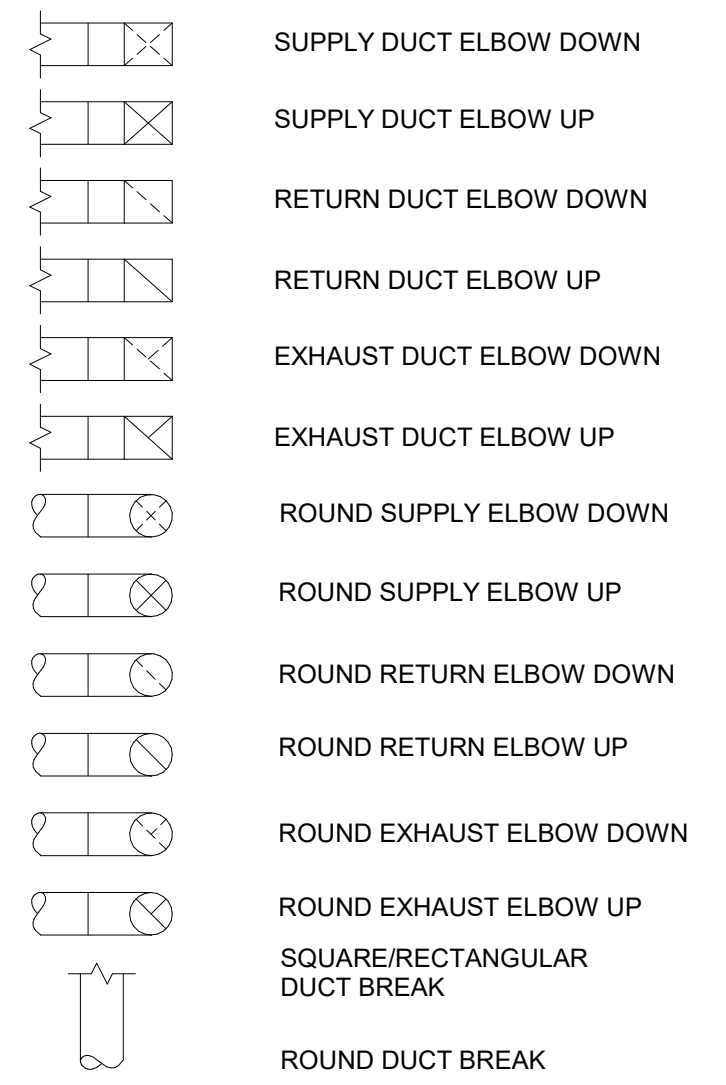
## HVAC GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & CODES, AS WELL AS, THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ON MECHANICAL "M1" SERIES DRAWINGS, ITEMS THAT ARE DARK LINES SHALL BE NEW WORK & ITEMS THAT ARE LIGHT LINES SHALL BE EXISTING TO REMAIN.
- ON MECHANICAL "M02" SERIES DRAWINGS, ITEMS THAT ARE DARK DASHED LINES SHALL BE REMOVED & ITEMS THAT ARE LIGHT LINES SHALL BE EXISTING TO REMAIN.
- ALL EQUIPMENT, DUCTWORK, & PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF DUCT & LINER TO GET DIRTY.
- PIPING SIZE LISTED ON PLANS ARE I.D. DIMENSIONS.
- ARROWS SHOWN ON THE HOT WATER PIPING INDICATE THE DIRECTION OF FLOW.
- AIR VENTS SHALL BE INSTALLED AT ALL HIGH POINTS & DRAINS AT ALL LOW POINTS OF WATER PIPING SYSTEMS. SHUT-OFF VALVES INSTALLED IN INSULATED PIPING SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- CONTRACTOR SHALL FIELD VERIFY LAYOUT AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ACTUAL EQUIPMENT PROVIDED.
- CONTRACTOR SHALL COORDINATE LOCATIONS OF HVAC MAINS, BRANCHES PIPING, ETC WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT, UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL TRADE FOR EXACT LOCATIONS.
- PROVIDE MOTOR COVERS FOR ALL BELT-DRIVEN MOTORS & MOTOR SHAFTS.
- ELEVATION OF PIPING & DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES.
- WHERE WORK INTERFERES WITH OWNER'S USE OF PREMISES, SCHEDULE WORK THROUGH OWNER TO MINIMIZE INCONVENIENCE TO OWNER. OWNER MUST APPROVE SCHEDULE IN WRITING BEFORE CONTRACTOR BEGINS ANY SUCH WORK.
- RECORD (AS-BUILT) DRAWING SHALL BE MAINTAINED ON THE JOB SITE AND SHALL BE SUBMITTED PRIOR TO JOB COMPLETION.

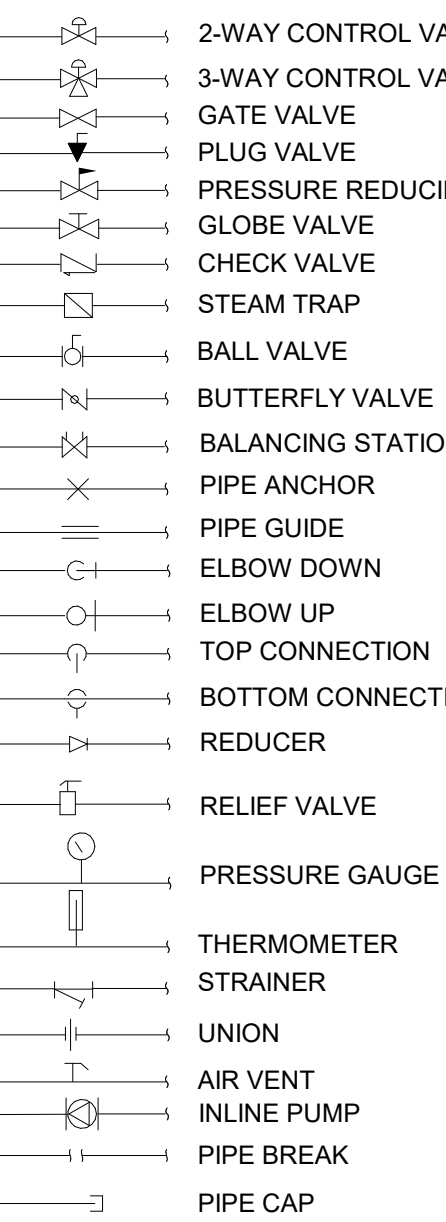
### HVAC GENERAL SYMBOLS



### HVAC EXISTING DUCTWORK SYMBOLS



### HVAC PIPING SYMBOLS



### HVAC EQUIPMENT ABBREVIATIONS

B-1	BOILER
BC-1	BLOWER COIL UNIT
BCP-1	BOILER CIRCULATING PUMP
C-1	CONNECTOR
ET-1	EXPANSION TANK
P-1	PUMP
PRV-1	PRESSURE REDUCING VALVE
SFU-1	SYSTEM FEEDER UNIT
UH-1	UNIT HEATER
VFD-1	VARIABLE FREQUENCY DRIVE
WFU-1	WATER FILTER UNIT

### HVAC DUCTWORK SYSTEM ABBREVIATIONS

SYSTEM ABBREVIATION	SYSTEM TYPE
(X) SA	EXISTING SUPPLY AIR
(X) RA	EXISTING RETURN AIR
(X) EA	EXISTING EXHAUST AIR
(X) OA	EXISTING OUTSIDE AIR

### HVAC PIPING SYSTEM ABBREVIATIONS

SYSTEM ABBREVIATION	SYSTEM TYPE
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
NGAS	NATURAL GAS
(E) HWS	EXISTING HOT WATER HEATING SUPPLY
(E) HWR	EXISTING HOT WATER HEATING RETURN
(E) CWS	EXISTING CHILLED WATER SUPPLY
(E) CWR	EXISTING CHILLED WATER RETURN
(X) NGAS	EXISTING NATURAL GAS

### GENERAL ABBREVIATIONS

AMPERE	AMPERS	AC	ALTERNATING CURRENT	IN	INSIDE DIAMETER
AMPS	AMPERES	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
BOD	BOTTOM OF DUCT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
BOP	BOTTOM OF PIPE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
BHP	BRAKE HORSEPOWER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
BTU	BRITISH THERMAL UNIT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
BTUH	BRITISH THERMAL UNIT PER HOUR	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
CAP.	CAPACITY	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
CH	CHANGE IN PRESSURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
CH	CHANGE IN TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DEGREE	DEGREE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DB	DRY BULB	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DDC	DIRECT DIGITAL CONTROLS	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DIA	DIAMETER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DISC.	DISCONNECT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DN	DOWN	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DP	DEWPOINT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
DWG	DRAWING	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EAT	ENTERING AIR TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EDB	ENTERING DRY BULB TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EFF	EFFICIENCY	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EWB	ENTERING WET BULB TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
ESP	EXTERNAL STATIC PRESSURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
ETR	EXISTING TO REMAIN	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EWI	ENTERING WATER TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
EX	EXISTING	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
F	DEGREES FAHRENHEIT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
FLA	FULL LOAD AMPS	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
FPM	FEET PER MINUTE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
FPS	FEET PER SECOND	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
FT	FEET	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
GPM	GALLONS PER MINUTE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
HD	HEAD (FEET)	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
HP	HORSEPOWER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
HW	HOT WATER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
HZ	FREQUENCY	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
ID	INSIDE DIAMETER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
IN	INCH OR INCHES	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
KW	KILOWATT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
LAT	LEAVING AIR TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
LBS	POUNDS	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
LDB	LEAVING DRY BULB TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
LWB	LEAVING WET BULB TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
LWT	LEAVING WATER TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MAX	MAXIMUM	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MBH	THOUSAND BTUs PER HOUR	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MCA	MINIMUM CIRCUIT AMPS	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MECH	MECHANICAL	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MFR	MANUFACTURER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MOCP	MAXIMUM OVER CURRENT PROTECTION	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
MTD	MOUNTED	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NC	NORMALLY CLOSED	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NIC	NOT IN CONTRACT	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NO	NORMALLY OPEN	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NOM	NOMINAL	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NPS	NOMINAL PIPE SIZE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
NTS	NOT TO SCALE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
OA	OUTSIDE AIR	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
OAT	OUTSIDE AIR TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
OBD	OPPOSED BLADE DAMPER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
OC	OUTSIDE DIAMETER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PD	PRESSURE DROP	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PRS	PRESSURE REDUCING STATION	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PRV	PRESSURE REDUCING VALVE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PSI	POUNDS PER SQUARE INCH	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PSIG	PSI GAUGE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
PVC	POLYVINYL CHLORIDE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
Ø	ROUND DIAMETER	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
RAT	RETURN AIR TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
RPM	REVOLUTIONS PER MINUTE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
SAT	SUPPLY AIR TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
SE	SQUARE FEET	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
SP	STATIC PRESSURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
TEMP	TEMPERATURE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
TYP.	TYPICAL	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
V	VOLTS	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
VEL	VELOCITY	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
VFD	VARIABLE FREQUENCY DRIVE	AC	ALTERNATING CURRENT	IN	INCH OR INCHES
WB	WET BULB	AC	ALTERNATING CURRENT	IN	INCH OR INCHES

## HVAC PIPE SIZING CHART

REQUIRED PIPE SIZE	COPPER PIPE GPM	IRON PIPE GPM
1/2"	0 - 1.1	
3/4"	1.2 - 3.0	
1"	3.1 - 6.6	
1-1/4"	6.7 - 11.3	6.8 - 14.0
1-1/2"	11.4 - 18.0	14.1 - 21.0
2"	18.1 - 38.0	21.1 - 41.0
2-1/2"	38.1 - 69.0	41.1 - 66.0
3"	69.1 - 109.0	66.1 - 119.0
4"		119.1 - 242.0
5"		242.1 - 440.0
6"		440.1 - 710.0

### REMOVED ITEMS NOTE:

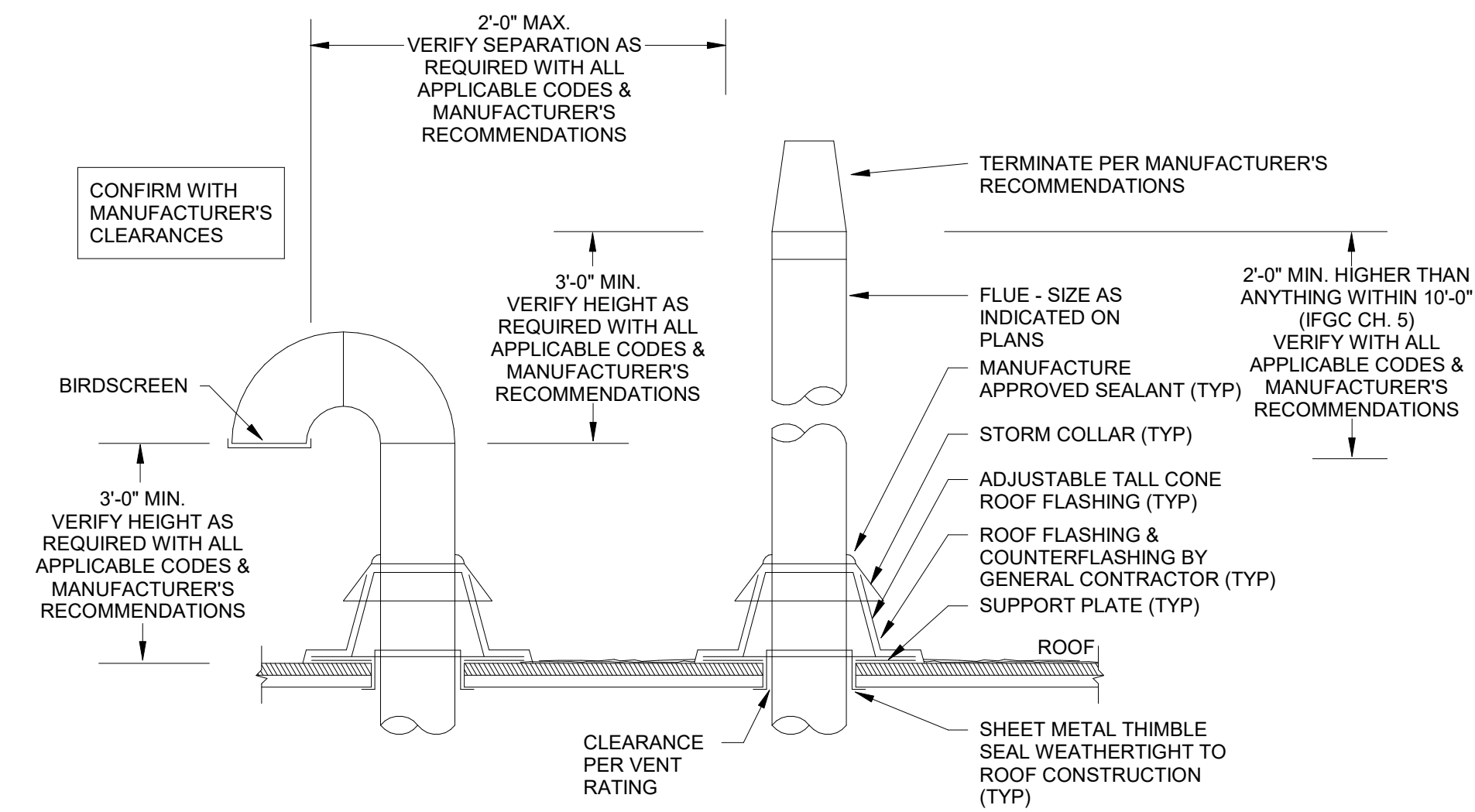
ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

## MECHANICAL SHEET INDEX

SHEET #	SHEET NAME
M000	HVAC COVER SHEET
M001	HVAC GENERAL INFO SHEET
M100	REMOVAL & REMODEL PLANS

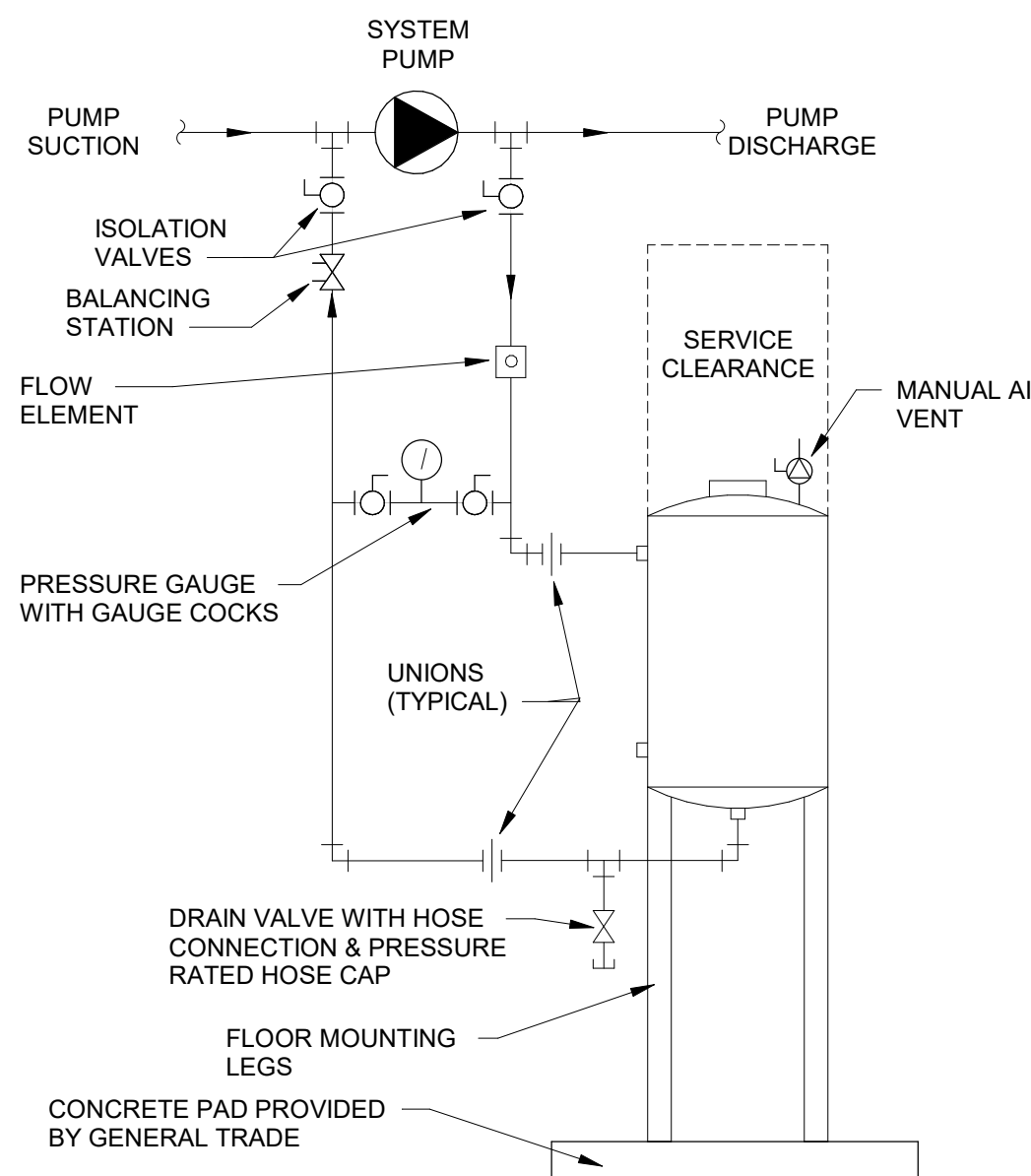
## 6 FLUE VENT AND FLASHING DETAIL

N.T.S.



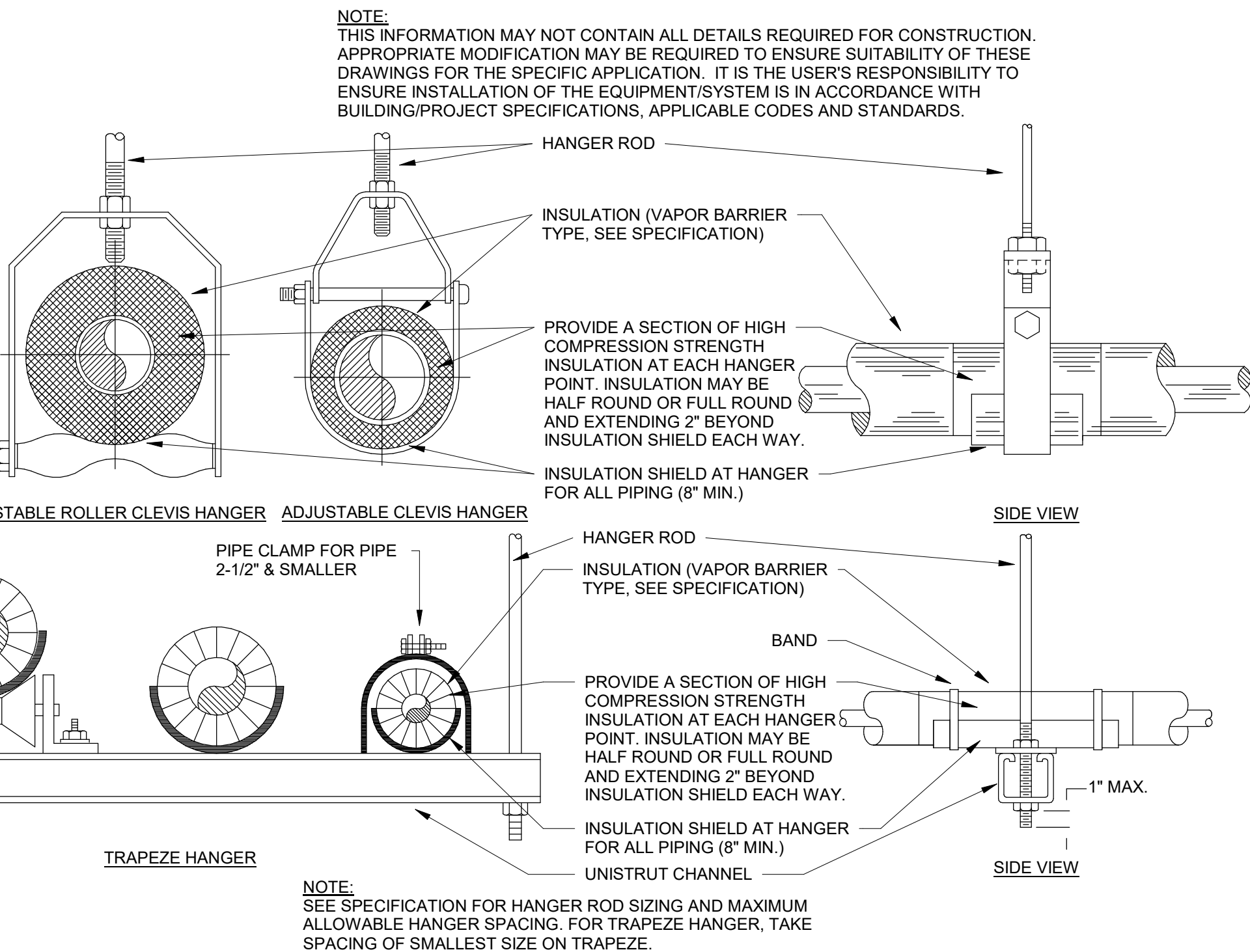
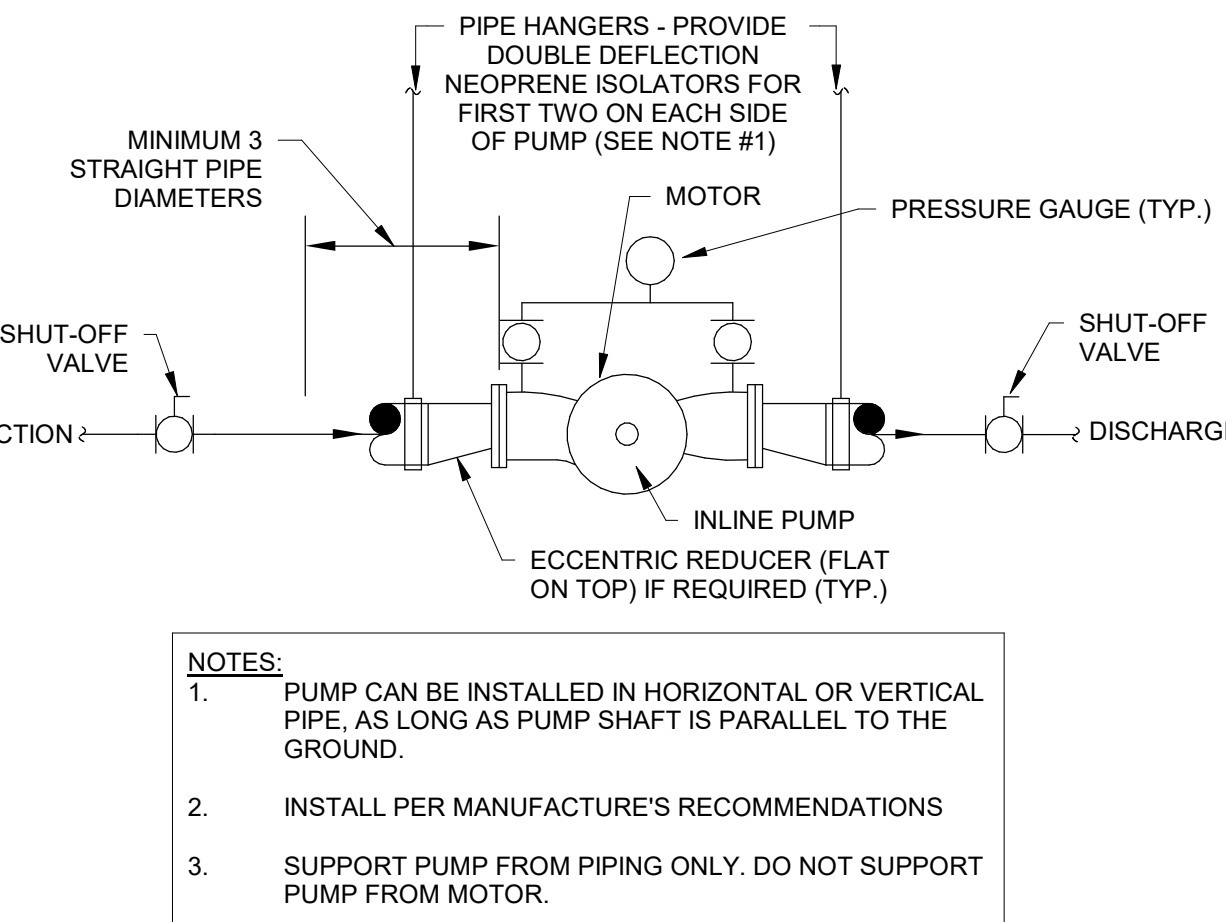
## 4 CHEMICAL POT FEEDER

N.T.S.



## 3 INLINE PUMP DETAIL (BCP-#)

N.T.S.

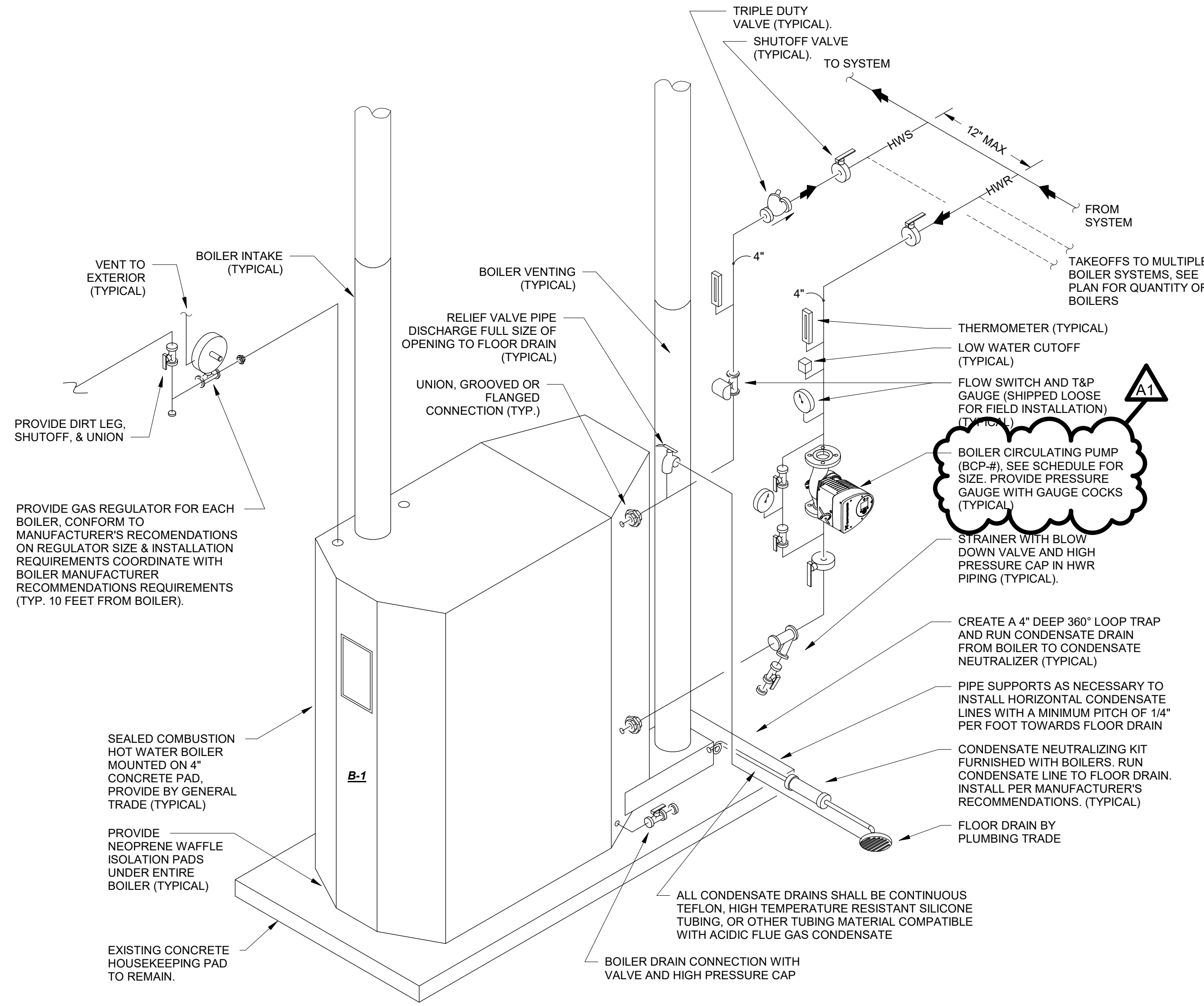


## 5 TYPICAL PIPE HANGER DETAIL

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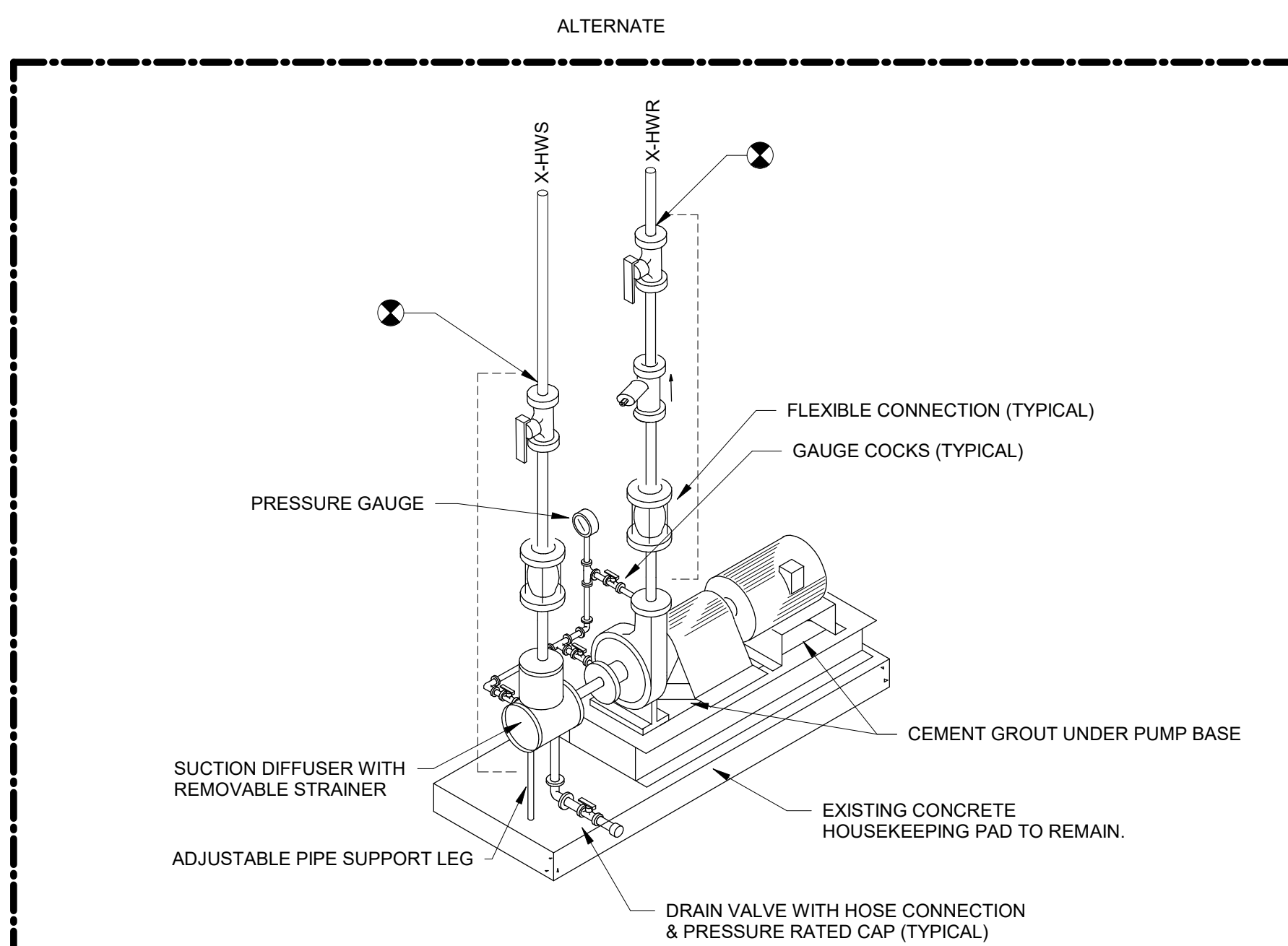
## 2 BOILER PIPING SCHEMATIC

N.T.S.



## 1 BASE MOUNTED PUMP DETAIL

N.T.S.



ARCHITECTURE  
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**HSR ASSOCIATES INC.**  
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Consultant:

HOLMEN SCHOOL DISTRICT  
SAND LAKE ELEMENTARY SCHOOL BOILER  
REPLACEMENT

Project Title:

HSR Project Number:  
**21004**

Project Date:  
**MARCH 2021**

Drawn By:  
**LESCHER**

Key Plan:

Revisions:

No. Description Date

A1 Addendum #1 03/23/21

Graphic Scale:

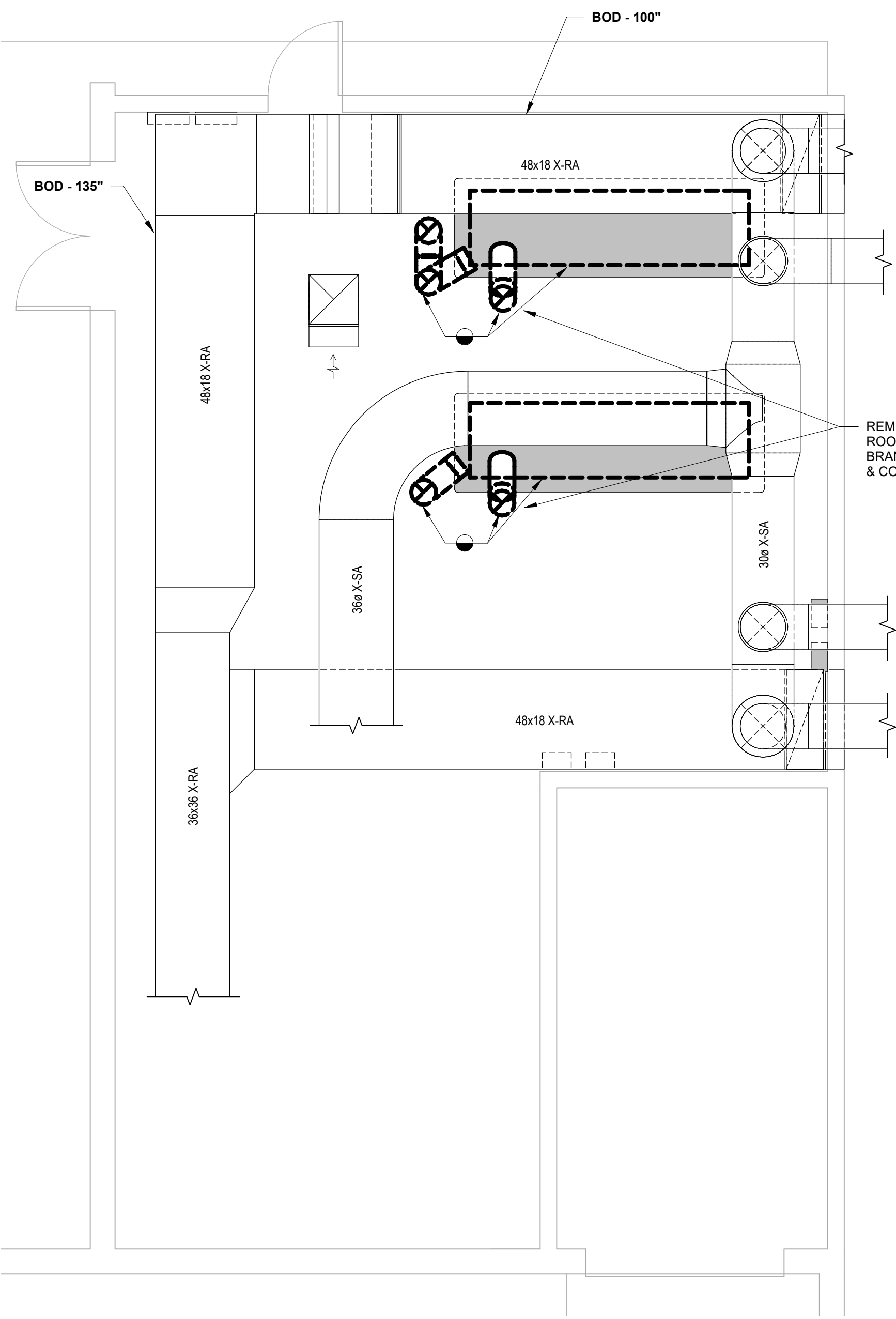
**VARIES**

Last Update:

**3/23/2021 12:53:09 PM**

**M001**





GAS FIRED BOILER SCHEDULE																													
UNIT NO.	LOCATION		MANUFACTURER	MODEL NO.	TYPE	GAS FIRED HEAT EXCHANGER														EFFICIENCY	MAX. ALLOWABLE WORKING PRESS.	MAX. ALLOWABLE WORKING TEMP.	UNIT OPERATING WEIGHT	ELECTRICAL				REFERENCE	
	ROOM	NUMBER				GAS BURNER				WATERSIDE				AHR		MCA	MOP	VOLTAGE	PHASE					DETAIL NO.					
						INPUT @ HIGH FIRE	OUTPUT @ HIGH FIRE	INPUT @ MIN. FIRE	OUTPUT @ MIN. FIRE	MIN. TURNDOWN	FUEL TYPE	PRESSURE AVAILABLE	FLOW	ENTERING WATER TEMP.	LEAVING WATER TEMP.	PRESS. DROP	GLYCOL TYPE	GLYCOL (%)											REMARKS
B-1			LAARS	MGH2500-HTD	CONDENSING, SEALED COMBUSTION	2,500,000 Btu/h	2,187,500 Btu/h	125,000 Btu/h	109,375 Btu/h	5:1	NAT. GAS	2.00 psi	190.0 GPM	180 °F	160 °F	34.0 fH2O	PROPYLENE	30	95%	160.0 psig	200 °F	2064 lbf	12 A	20 A	208 V	3	2M001	1. 50 PSI PRESSURE RELIEF VALVE. 2. CONDENSATE TO CONNECT TO NEUTRALIZING KIT AS SHOWN ON PLAN AND DETAIL.	
B-2			LAARS	MGH2500-HTD	CONDENSING, SEALED COMBUSTION	2,500,000 Btu/h	2,187,500 Btu/h	125,000 Btu/h	109,375 Btu/h	5:1	NAT. GAS	2.00 psi	190.0 GPM	180 °F	160 °F	34.0 fH2O	PROPYLENE	30	95%	160.0 psig	200 °F	2064 lbf	12 A	20 A	208 V	3	2M001	1. 50 PSI PRESSURE RELIEF VALVE. 2. CONDENSATE TO CONNECT TO NEUTRALIZING KIT AS SHOWN ON PLAN AND DETAIL.	
Grand total: 2																													

REMOVE DRAFT INDUCERS ON ROOF. ELECTRICAL TO REMOVE BRANCH WIRING, DISCONNECTS, & CONDUIT BACK TO PANEL.

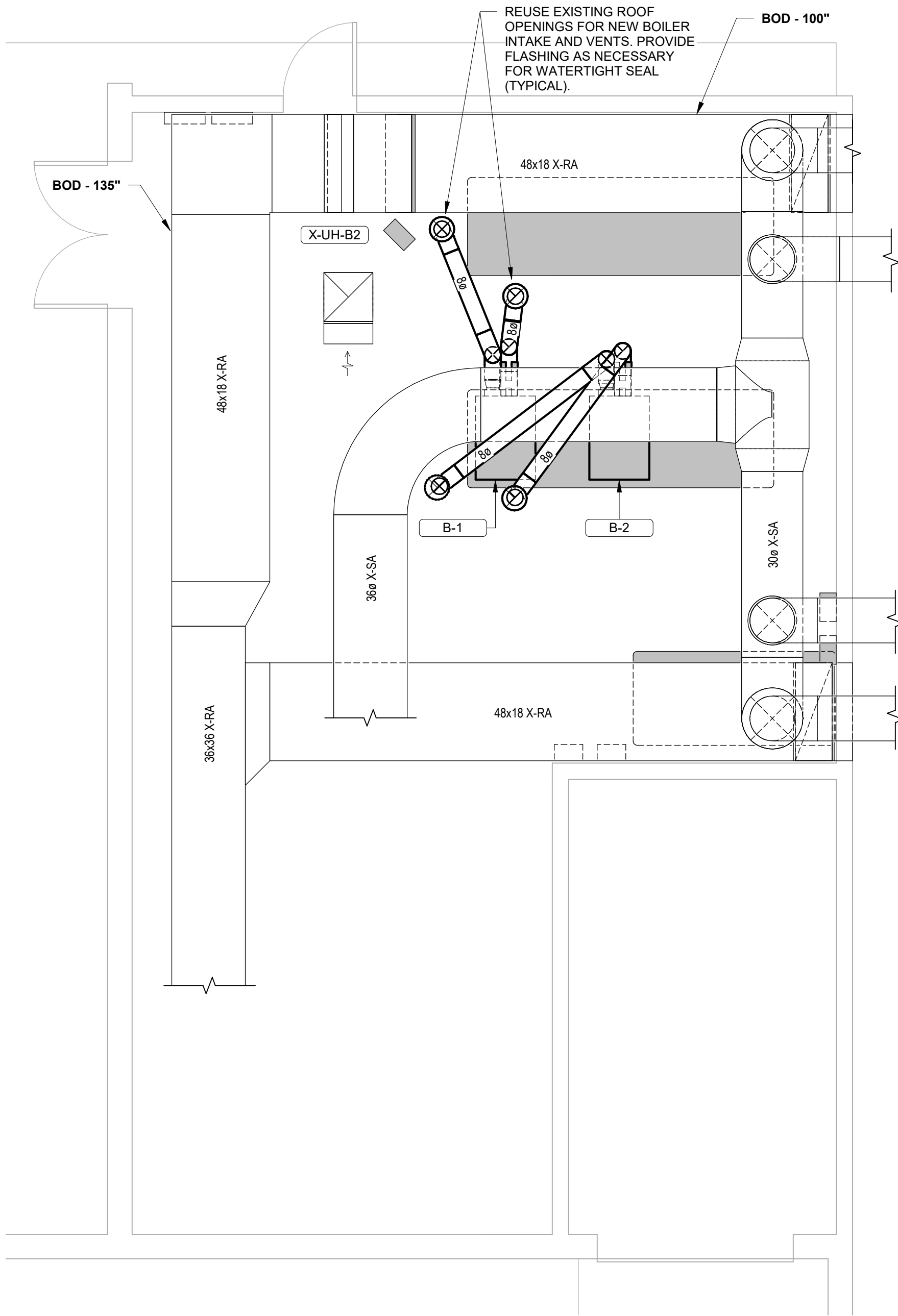
CIRCULATING PUMP SCHEDULE																			
UNIT NO.	LOCATION		MANUFACTURER	MODEL NO.	SYSTEM	TYPE	PUMP				UNIT WEIGHT	ELECTRICAL		INTERLOCK	REMARKS				
	ROOM	NUMBER					FLOW	MIN. FLOW	HEAD	QUANTITY		MOTOR POWER	RPM			VOLTAGE	PHASE	UNIT NO.	
BCP-1			Bell & Gossett	ECOCIRC XL 45-375	BOILER	INLINE	190.0 GPM	0.0 GPM	38 fH2O	1	3 hp	3421	50 lbf	460 V	3	B-1	1. PROVIDED WITH BOILER 2. SELECTION INCLUDES 30% PROPYLENE GLYCOL.		
BCP-2			Bell & Gossett	ECOCIRC XL 45-375	BOILER	INLINE	190.0 GPM	0.0 GPM	38 fH2O	1	3 hp	3421	50 lbf	460 V	3	B-2	1. PROVIDED WITH BOILER 2. SELECTION INCLUDES 30% PROPYLENE GLYCOL.		
P-B3			Bell & Gossett	3 EB	HOT WATER	BASE MOUNTED	290.0 GPM	0.0 GPM	110 fH2O	1	15 hp	1800	752 lbf	460 V	3	-	1. SELECTION BASED UPON 30% PROPYLENE GLYCOL.		
P-B4			Bell & Gossett	3 EB	HOT WATER	BASE MOUNTED	290.0 GPM	0.0 GPM	110 fH2O	1	15 hp	1800	752 lbf	460 V	3	-	1. SELECTION BASED UPON 30% PROPYLENE GLYCOL.		
ALTERNATE																			

SYSTEM FEEDER UNIT SCHEDULE														
UNIT NO.	LOCATION		MANUFACTURER	MODEL NO.	SYSTEM	PUMP		TANK VOLUME	UNIT WEIGHT	ELECTRICAL (PLUG AND CORD)			REFERENCE	REMARKS
	ROOM	NUMBER				FLOW	DISCHARGE PRESSURE			FLA	VOLTAGE	PHASE		
SFU-1			AXIOM	SF100	HOT WATER	1.0 GPM	18.0 psig	55.0 gal	460 lbf	1 A	120 V	1	4M001	PROVIDE RIA10-1-SAA LOW LEVEL ALARM
Grand total: 1														

- ELECTRICAL NOTES**
- CONFIRM TO STATE AND LOCAL CODES AND REGULATIONS.
  - DISCONNECT WIRING FROM EXISTING BOILERS & BOILER DRAFT INDUCERS AS NOTED BELOW & ON PLAN.
  - REMOVE AND/OR RELOCATE EXISTING CONDUITS, J-BOXES, WIRING, SWITCHES, ETC. SERVING EXISTING BOILERS, ETC. AS REQUIRED.
  - PROVIDE AND INSTALL SAFETY SWITCH DISCONNECT FOR TWO (2) NEW BOILERS.
  - INSTALL NEW 208 VOLT, 3 PHASE, 20 AMP BRANCH CIRCUITS TO FEED NEW TWO (2) BOILERS FROM PANEL PPK.
  - RELOCATE EXISTING CONDUIT, WIRING, J-BOXES, ETC. AS REQUIRED TO COMPLETE THE INSTALLATION.
  - UNDER ALTERNATE BID, DISCONNECT WIRING TO HOT WATER PUMPS (XP-B3 & XP-B4) TO BE REMOVED AS SHOWN ON 3M100 & PROVIDE NEW CONNECTION TO NEW HOT WATER PUMPS AS NOTED ON 4M100. EXISTING PUMP VFD'S TO BE REUSED. EXTEND CONDUIT AND WIRING AS NECESSARY.
  - EXTEND CONDUIT AND WIRING TO BOILER CIRC. PUMPS (BCP-1 & BCP-2) & PROVIDE SAFETY SWITCH DISCONNECT FOR TWO (2) NEW BOILER PUMPS. REMOVE EXISTING STARTERS.
  - PROVIDE 20A-1P DUPLEX RECEPTACLE FROM WITH 20 AMP CIRCUIT FROM PANEL PPK TO SERVE SFU-1.

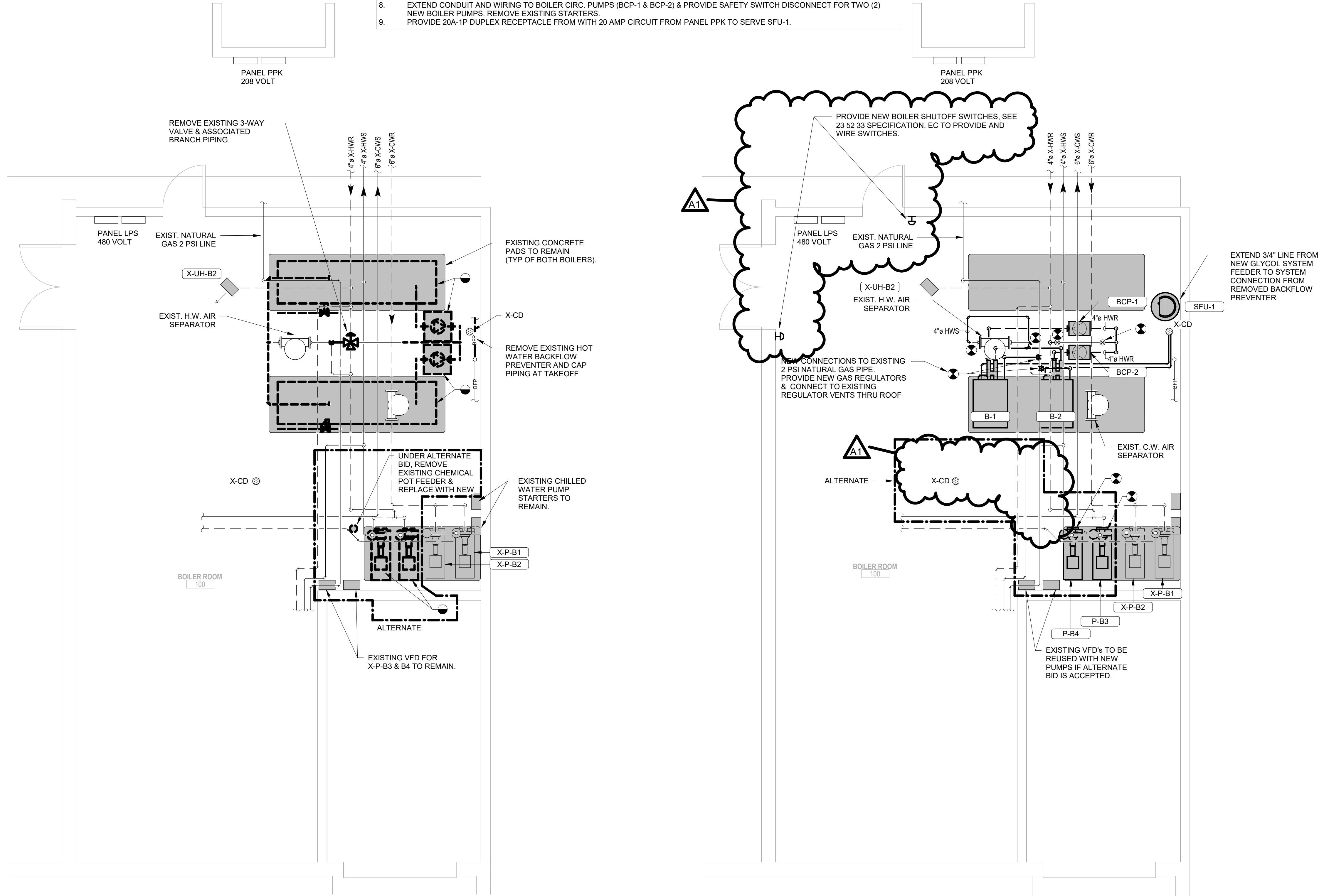
## 1 MECHANICAL DUCTWORK REMOVAL PLAN

1/4" = 1'-0"



## 2 MECHANICAL DUCTWORK REMODEL PLAN

1/4" = 1'-0"



## 3 MECHANICAL PIPING REMOVAL PLAN

1/4" = 1'-0"

## 4 MECHANICAL PIPING REMODEL PLAN

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



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Consultant:

**HOLMEN SCHOOL DISTRICT  
SAND LAKE ELEMENTARY SCHOOL BOILER  
REPLACEMENT**

Project Title:  
Project Location: 3600 SAND LAKE ROAD, HOLMEN, WI 54636  
Sheet Title:

HSR Project Number:  
**21004**

Project Date:  
**MARCH 2021**

Drawn By:  
**LESCHER**

Key Plan:

No.	Description	Date
A1	Addendum #1	03/23/21

Graphic Scale:  
**VARIES**

Last Update:  
**3/23/2021 12:53:10 PM**

**M100**