

MECHANICAL BOILER ROOM DEMOLITION PLAN $\int SCALE: 1/2" = 1' - 0"$

MECHANICAL GENERAL DEMOLITION NOTES

- PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY EXISTING CONDITIONS & DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ANY ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY BY EXPERIENCED OVERSEERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
- REMOVE & DISPOSE OF MECHANICAL EQUIPMENT, DUCTWORK, & PIPING TO EXTENT INDICATED. REMOVAL SHALL BE COMPLETE INCLUDING HANGERS, BRACKETS, VALVES FITTINGS, & APPURTENANCES UNLESS OTHERWISE INDICATED.
- 3. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
- 4. THESE PLANS ARE DIAGRAMMATIC & NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF MECHANICAL DEMOLITION WORK. ADDITIONAL DEMOLITION & MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.

MECHANICAL DEMOLITION KEY NOTES

- (MD) EXISTING HOT WATER PIPING TO REMAIN.
- (MD2) EXISTING DOMESTIC COLD WATER PIPING TO REMAIN.
- REMOVE EXISTING FUEL OIL PUMPS & ALL ASSOCIATED PIPING, VALVES, FITTINGS, & SUPPORTS; REMOVE ALL FUEL OIL PUMP CONTROLS & CONTROL
- REMOVE EXISTING IN-LINE PUMP STARTER & DISCONNECT SWITCHES & ALL ASSOCIATED CONTROL WIRING.
- (MD5) REMOVE EXISTING BURNER CONTROL PANEL & ASSOCIATED CONTROL WIRING.
- MD6 REMOVE EXISTING DOMESTIC COLD WATER ISOLATION VALVE.
- REMOVE SECTION OF EXISTING DOMESTIC COLD WATER PIPING FOR INSTALLATION OF NEW ISOLATION VALVE
- REMOVE EXISTING 48"x24" MOTORIZED DAMPER SECTION, CONTROL WIRING & MESH SCREEN. (TYPICAL FOR 2); EXISTING DUCTWORK & INTAKE AIR LOUVERS TO REMAIN.
- (MD9) EXISTING CO SENSOR TO REMAIN.
- (MD10) REMOVE EXISTING 2" NAT. GAS BRANCH PIPE & CAP BACK AT MAIN.
- REMOVE EXISTING IN-LINE HOT WATER PUMP & ASSOCIATED PIPING, VALVES, CONTROLS, CONTROL WIRING & SUPPORTS. MEASURE WATER FLOW & DISCHARGE HEAD FOR EACH PUMP PRIOR TO REMOVALS; PRESENT WRITTEN REPORT OF RESULTS TO ARCHITECT & ENGINEER.
- REMOVE EXISTING 4" HWS PIPING & SUPPORTS; PROVIDE TEMPORARY PIPE CAPS DURING CONSTRUCTION. (TYPICAL)
- EXISTING 18"x48" MOTORIZED DAMPER SECTIONS DUCTWORK & MESH SCREEN TO REMAIN; REMOVE EXISTING ACTUATOR.
- REMOVE EXISTING DUCTWORK BACK TO THE EXISTING MOTORIZED DAMPER SECTION; EXISTING 30"x48" MOTORIZED DAMPER SECTION & DUCTWORK SHALL REMAIN; REMOVE EXISTING ACTUATOR.
- MD15 EXISTING HOT WATER UNIT HEATER, & ASSOCIATED PIPING & WIRING SHALL REMAIN;
- REMOVE EXISTING DUAL FUEL HOT WATER BOILER, BURNER, CONTROLS, & CONTROL WIRING; EXISTING SUPPLY & RETURN PIPING MAINS SHALL REMAIN FOR REUSE; REMOVE EXISTING HOUSEKEEPING PADS IN THEIR ENTIRETY
- MD1 REMOVE EXISTING EXHAUST GRILLE
- (MD18) EXISTING FLOOR DRAIN TO REMAIN
- REMOVE EXISTING 4"Ø & 6"Ø HOT WATER RETURN PIPE UP TO POINT SHOWN. REMOVE HANGERS & SUPPORTS.
- REMOVE EXISTING INDUCED DRAFT FAN & ASSOCIATED DUCTWORK, DAMPERS, CONTROLS, PNEUMATIC PIPING, HANGERS & SUPPORTS.
- REMOVE EXISTING 24"x24" BOILER BREECHING & ASSOCIATED HANGERS & SUPPORTS.
- (MD2) EXISTING EMERGENCY SHOWER TO REMAIN.
- REMOVE EXISTING BOILER CONTROL PANEL & ASSOCIATED DISCONNECT SWITCHES & CONTROL WIRING.
- MD24 EXISTING DUAL WATER TEMPERATURE PIPING BRIDGE REMAIN.
- EXISTING EXHAUST FAN & ASSOCIATED MOTORIZED DAMPER SHALL REMAIN; REMOVE EXISTING ACTUATOR
- MD26 EXISTING SUSPENDED AIR SEPARATOR SHALL REMAIN.
- EXISTING BASE MOUNTED DUAL TEMPERATURE WATER PUMP & VARIABLE FREQUENCY DRIVE, PIPING & CONTROLS SHALL REMAIN; MEASURE WATER FLOW & DISCHARGE HEAD FOR EACH PUMP PRIOR TO DEMOLITION OF HOT WATER BOILERS & ASSOCIATED IN-LINE PUMPS; PRESENT WRITTEN REPORT OF RESULTS TO ARCHITECT & ENGINEER.
- WID28 EXISTING CHILLED WATER PUMP & ASSOCIATED PIPING & CONTROLS TO REMAIN.
- DISCONNECT & REMOVE EXISTING FLOOR MOUNTED EXPANSION TANK; CHEMICAL SHOT FEEDER SHALL REMAIN FOR REUSE.
- MD30 REMOVE EXISTING 3/4" NAT. GAS VENT PIPING & SUPPORTS; (TYP FOR 3); REMOVE PORTION OF EXISTING 1" NAT. GAS VENT; COORDINATE WITH NEW VENT PIPING CONNECT REQUIREMENTS.



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	REVISIONS						
NO.	DATE	DESCRIPTION					

PRENDERGAST SCHOOL HOT WATER BOILER **REPLACEMENT**

ANSONIA, CT

MECHANICAL BOILER ROOM DEMOLITION PLAN

DATE: PROJECT NO: DRAWN: CHECKED: **ISSUED FOR: REVISIONS:**

4/1/2020 2018168.00 ADC OHA

SHEET NO.



MECHANICAL FUEL OIL STORAGE TANK REMOVAL NOTES

EXISTING 10,000 GALLON CAPACITY FUEL OIL STORAGE TANK LOCATED BELOW GRADE SHALL BE DRAINED OF IT'S ENTIRE CONTENTS BY OWNER. TANK & ASSOCIATED PIPING SHALL BE REMOVED AT A LATER DATE UNDER A SEPARATE CONTRACT.

MD2) EXISTING FUEL OIL PIPING SHALL BE CAPPED OFF IN BOILER ROOM & THE REMAINING PIPING LOCATED IN INACCESSIBLE PIPE TUNNEL SHALL BE REMOVED AT A LATER DATE UNDER A SEPARATE CONTRACT.



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ANSONIA, CT

MECHANICAL FUEL OIL PIPING DEMOLITION PLAN

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SHEET NO.

MD-101

MECHANICAL FUEL OIL PIPING DEMOLITION PLAN

SCALE: 3/32" = 1' - 0"

HOT WATER BOILER SCHEDULE

UNIT NUMBER			LOCATION	SERVICE	BOILER TYPE	OUTPUT (MBH)	AHRI EFFICIENCY (BTS-2000)				WATER DA	ιΤΑ				В	URNER DATA		ELECTRICAL	. DATA			UNIT		REMARKS
NUMBER	MANUFACTUR	ER MODEL			TYPE	(MBH)	(BTS-2000) (%)	MEDIA	BOILER CAPACITY (GAL)	RELIEF VALVE PRESSURE SETTING (PSIG)	BOILER PRESSURE RATING (PSIG)	EWT/LWT (DEG F)	DESIGN FLOW (GPM)	MIN/MAX WATER FLOW (GPM)	PRESSURE DROP	FUEL	GAS INPUT (CFH)	MIN-MAX GAS INLET PRESSURE (IN W.C.)	VOLT/PHASE/HZ	FLA	BURNER MOTOR HP	DIMENSIONS L x W x H (IN)	OPERATING WEIGHT (LBS)	APPROVAL	
★ B-1	AERCO	BMK-3000	BOILER ROOM	BUILDING HEATING	CONDENSING FIRETUBE	2610-2880	93.5	WATER	55	50	160	157/180	240	25/350	3.0 PSIG @ 261 GPM	NATURAL GAS	3000	4 - 14	460/3/60	5	3.0	56 x 28 x 78	2580	UL/FM	ALL
★ B-2	AERCO	BMK-3000	BOILER ROOM	BUILDING HEATING	CONDENSING FIRETUBE	2610-2880	93.5	WATER	55	50	160	157/180	240	25/350	3.0 PSIG @ 261 GPM	NATURAL GAS	3000	4 - 14	460/3/60	5	3.0	56 x 28 x 78	2580	UL/FM	ALL

1. VENTLESS GAS TRAIN

2. MINIMUM TURNDOWN: 15:1

THROUGHOUT ENTIRE FIRING RANGE

- 3. MAX NOX: 20 PPM, 3% 02 CORRECTED
- 6. BOILER STAGING POINT NOT TO EXCEED 40% 7. BOILER MANUFACTURE TO PROVIDE 10-YEAR 4. COMBUSTION O2 LEVELS SHALL NOT EXCEED 7% NON-PRORATED HEAT EXCHANGER WARRANTY
- 5. PROVIDE BOILER SEQUENCING WITH HW RESET
 - 9. BOILER MANUFACTURE TO PROVIDE LETTER OF GUARANTEE FOR AS BUILT FLUE AND COMBUSTION AIR INSTALLATION 10. PROVIDE CONDENSATE NEUTRALIZER FOR EACH BOILER AND COMMON FLUE DRAINS
- 11. ALTERNATE MANUFACTURES MUST COMPLY WITH ALL BASIS OF DESIGN PERFORMANCE, SAFETY, DURABILITY WARRANTY AND SYSTEM DESIGN REQUIREMENTS
- 12. SINGLE POINT POWER CONNECTION
- 🗶 NEW BOILER SHALL BE PURCHASED BY OWNER; MECHANICAL CONTRACTOR SHALL COORDINATE DELIVERY TO SITE & RIGGING OF BOILER PLACEMENT. SEE NOTE M3 ON NEW WORK PLAN

8. BOILER MANUFACTURE TO PROVIDE 2-YEAR

NON-PRORATED CONTROLLER WARRANTY

	EXPANSION TANK SCHEDULE							
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE/ CONFIG.	LOCATION	TANK WEIGHT (LBS)	MIN.TANK VOLUME (GAL)	MIN. ACCEPTANCE VOLUME (GAL)	SIZE (DIA x H)	
ET-1	THE JOHN WOOD COMPANY JBER-25-011	D/V	BOILER PUMP ROOM	380	158	158	30"x 58"	
TYPES: C = CON D = DIAI	MPRESSION PHRAGM	H =	IGURATION: HORIZONTAL VERTICAL					

	PUMP SCHEDULE															
SYMBOL	MANUFACTURER/	TYPE	LOCATION	SYSTEM	MEDIA	FLOW RATE	TDH (FT)	FLUID TEMP	PUMP EFF	IMPELLER DIAMETER	BHP	MOTOR DATA				REMARKS
STWIDOL	MODEL NUMBER	'''	LOCATION	SERVING	WILDIA	(GPM)	(FT)	(°F)	(%)	(INCHES)	5111	HP	RPM	VOLTS	PHASE	REWIARRS
PHWP-1	TACO KV4007	IL	MECHANICAL ROOM	BUILDING HEATING SYSTEM	W	240	50	180	74	7.2	4.1	5.0	1760	460	3	ALL
PHWP-2	TAC0 KV4007	IL	MECHANICAL ROOM	BUILDING HEATING SYSTEM	W	240	50	180	74	7.2	4.1	5.0	1760	460	3	ALL
CC = C	TYPE: ES = END SUCTION CC = CLOSE COUPLED HSC = HORIZONTAL SPLIT CASE					GLYCOL/WAT										

VSC = VERTICAL SPLIT CASE

- 1. VERTICAL CLOSE COUPLED. 2. ANSI CLASS 125 FLANGE.
- 3. PREMIUM EFFICIENCY MOTOR. 4. CAST IRON HOUSING.
- 6. CARBON STEEL SHAFT. 7. BRONZE SHAFT SLEEVE. 8. CERAMIC /EPT MECHANICAL SEAL. 9. COPPER & BRASS SEAL FLUSH LINE.
- 10. 4"x4" SUCTION DIFFUSER WITH DUCTILE IRON BODY, COVER & VANES &
- 5. BRONZE IMPELLER. 304 STAINLESS STEEL PERMANENT STRAINER

WATER TREATMENT PROCESS

STEPS TO CLEAN AND TREAT AN EXISTING HYDRONIC SYSTEM:

- 1. Flush the system
- Sentinel X400 system flush should be dosed at 1% of the system's water volume. Systems older than six months should be cleaned and flushed with X400 Sentinel X400 system restorer should be circulated, preferably at normal operating temperature, with all valves open and the pump turned to the maximum allowable system flow for a minimum period of 2 hours or until satisfactory performance is
- · Where systems are badly fouled, a longer period of circulation is recommended, up to four weeks. This product will not clear a completely blocked pipe. 2. Add Sentinel X100 inhibitor
 - Systems should be dosed at 1% of its total water volume. Feeding - If the system is empty, add to any convenient point before filling. If full, use a dosing vessel to inject via the filling loop or other access point.

INSTALLING WATER TREATMENT IN A NEW HYDRONIC SYSTEM:

- 1. Flush the system
- Sentinel X300 system flush should be dosed at 1% of the system's water volume. Systems up to 6 months old should be cleaned and flushed with X300 The water should be circulated at normal operating temperature for between 1-2
- . If it is not possible to heat the system water, extend the circulation time to a minimum of 24 hours but no longer than one week. X300 actually passivates the metal surfaces in the system, which prevents copper deposits from forming. This is a common cause of pinhole corrosion.
- 2. Add Sentinel X100 inhibitor Systems should be dosed at 1% of its total water volume.
- o Feeding If the system is empty, add to any convenient point before filling. If full, use a dosing vessel to inject via the filling loop or other access point. X300 is a neutral formulation so it is safe for all system metals.
- hours with a maximum of 24 hours.
- 1. PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY DIFFICULTIES THAT WILL AFFECT WORK TO BE PERF WILL BE GRANTED FOR ANY ADDITIONAL WORK CAL SITE CONDITIONS THAT ARE VISIBLE OR READILY B INCLUDE IN THE BID ALL NEW WORK REQUIRED.

- 2. BOILER BREECHING SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT BREECHING HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COORDINATION WITH EXISTING CONDITIONS.
- 3. CONTRACTOR SHALL COORDINATE WITH THE OWNER & SCHEDULE ANY INTERRUPTIONS OF THE EXISTING MECHANICAL SYSTEMS SYSTEM SERVICE 48 HOURS IN ADVANCE
- 4. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
- 5. THESE PLANS ARE DIAGRAMMATIC & NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF MECHANICAL NEW WORK. ADDITIONAL NEW & MODIFICATION TO EXISTING WORK NOT SHOWN SHOULD BE ANTICIPATED.

MECHANICAL GENERAL DEMOLITION NOTES TEMPERATURE CONTROL LEGEND

 PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY EXISTING CONDITIONS & DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION 	SYMBOLS	DESCRIPTION
WILL BE GRANTED FOR ANY ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY BY EXPERIENCED OVERSEERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.	A	AQUASTAT
 REMOVE & DISPOSE OF MECHANICAL EQUIPMENT, DUCTWORK, & PIPING TO EXTENT INDICATED. REMOVAL SHALL BE COMPLETE INCLUDING HANGERS, BRACKETS, VALVES FITTINGS, & APPURTENANCES UNLESS OTHERWISE INDICATED. 	T	TEMPERATURE SENSOR
3. DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.	T	THERMOSTAT
4. THESE PLANS ARE DIAGRAMMATIC & NOT INTENDED TO DEPICT THE ENTIRE	H	RELATIVE HUMIDITY SENSOR
SCOPE OF MECHANICAL DEMOLITION WORK. ADDITIONAL DEMOLITION WORK NOT SHOWN SHOULD BE ANTICIPATED.	C	CARBON DIOXIDE SENSOR
MECHANICAL GENERAL NOTES	CO	CARBON MONOXIDE SENSOR
PRIOR TO SUBMITTING BID, VISIT SITE & IDENTIFY EXISTING CONDITIONS & DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION	CSR	CURRENT SENSING RELAY
WILL BE GRANTED FOR ANY ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY BY EXPERIENCED OVERSEERS. INCLUDE IN THE BID ALL NEW WORK REQUIRED.	ES	EMERGENCY SWITCH
2. BOILER BREECHING SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT	VFD	VARIABLE FREQUENCY DRIVE

HVAC	DEMOLITION LEGEND
SYMBOL	DESCRIPTION
<i>V//////</i> \$.	REMOVE EXISTING DUCTWORK/EQUIPMENT
X/////XV\$////X,	REMOVE EXISTING PIPING/EQUIPMENT
ETR	EXISTING TO REMAIN
RE	REMOVE EXISTING
RL	RELOCATE EXISTING
NL	NEW LOCATION

DIFFERENTIAL PRESSURE

HVAC DUCTWORK LEGEND SYMBOL DESCRIPTION ACOUSTICAL LINED DUCTWORK (DOUBLE LINED) ACOUSTICAL LINED DUCTWORK (SINGLE LINED) ==== EXISTING DUCTWORK NEW DUCTWORK (DOUBLE LINE) NEW DUCTWORK (SINGLE LINE) RETURN DUCT DROP (DOUBLE LINE) RETURN DUCT DROP (SINGLE LINE) RETURN DUCT RISE (DOUBLE LINE) RETURN DUCT RISE (SINGLE LINE) SUPPLY DUCT DROP (DOUBLE LINE) SUPPLY DUCT DROP (SINGLE LINE) SUPPLY DUCT RISE (DOUBLE LINE) SUPPLY DUCT RISE (SINGLE LINE) MOTORIZED DAMPER RETURN/EXHAUST/OUTSIDE AIR ARROW **—** SUPPLY ARROW UNDERCUT DOOR ROOF MOUNTED EQUIPMENT POINT OF CONNECTION TO EXISTING POINT OF DEMOLITION OF EXISTING

PIPI	PIPING LEGEND								
SYMBOL	DESCRIPTION								
├ ────────────────────────────────────	HOT WATER SUPPLY								
<u></u>	HOT WATER RETURN								
├ ─── CW ── ├	DOMESTIC COLD WATER PIPE								
<u></u> CD ────	CONDENSATE DRAIN PIPE								
├── CHWS ──	CHILLED WATER SUPPLY								
	CHILLED WATER RETURN								
∫ —	DUAL TEMPERATURE WATER SUPPLY								
}DTWR	DUAL TEMPERATURE WATER RETURN								
├ FOS ├	FUEL OIL SUPPLY								
∫ FOR - 	FUEL OIL RETURN								
\(\rightarrow \text{NG} \rightarrow \rightarrow \text{NG} \right	NATURAL GAS PIPE								
	VENT TO ROOF								
├	GATE VALVE								
· · · · · · · · · · · · · · · · · · ·	BALL VALVE								
├	BALANCE VALVE								
Ş	BUTTERFLY VALVE								
├	NON-SLAM CHECK VALVE								
\\\\\\\\\\	UNION								
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STRAINER WITH VALVED BLOWDOWN								
├	PRESSURE REGULATING GAS VALVE								
	BOILER PRESSURE RELIEF VALVE								
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PIPE RISE								
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PIPE MOUNTED WATER THERMOMETER (IN THERMAL WELL) PIPE MOUNTED DIGITAL WATER TEMP. SENSOR (IN THERMAL WELL)								



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PRENDERGAST SCHOOL HOT WATER BOILER **REPLACEMENT**

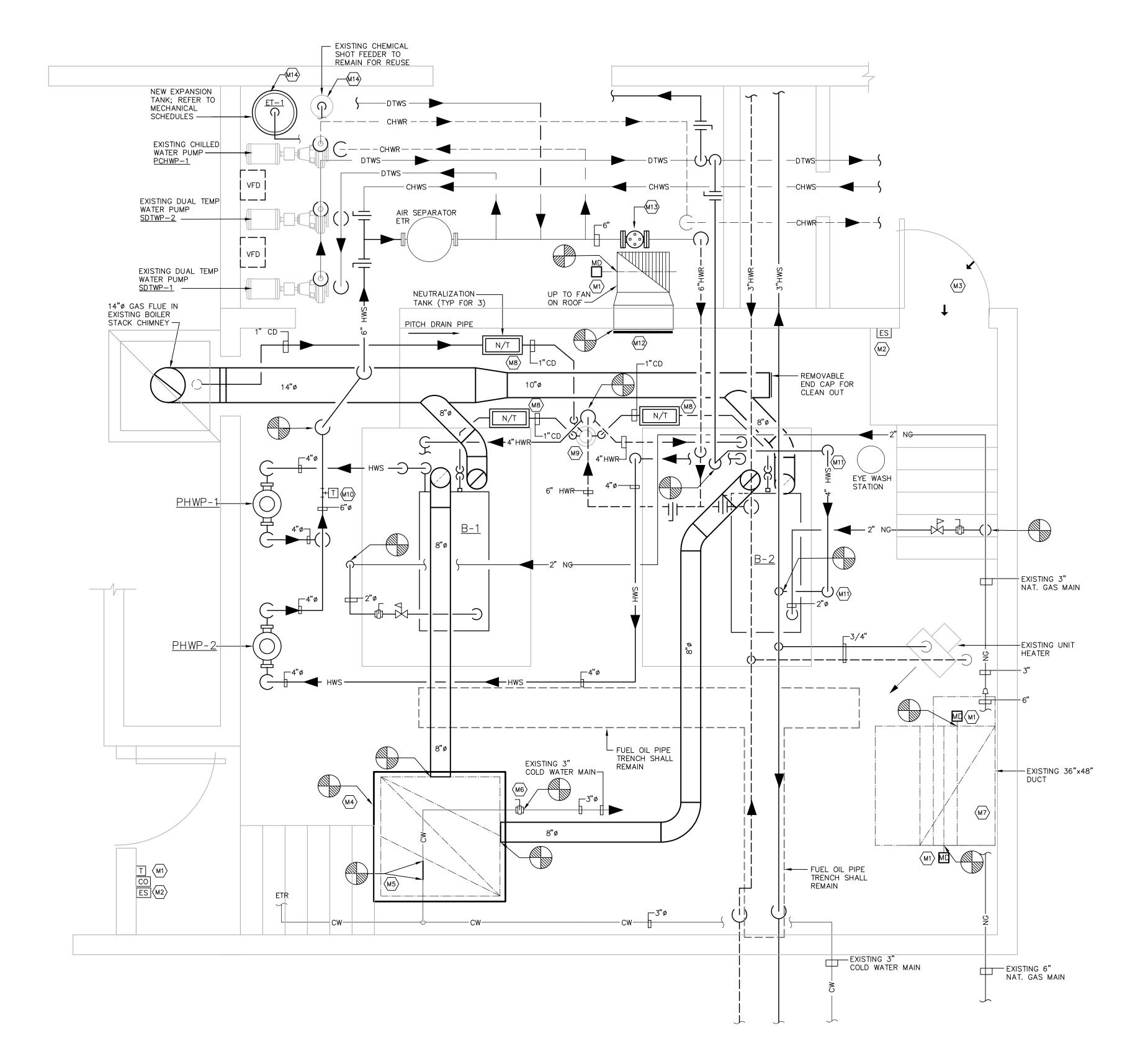
ANSONIA, CT

MECHANICAL LEGENDS & SCHEDULES

DATE: PROJECT NO: DRAWN: CHECKED: **ISSUED FOR: REVISIONS:**

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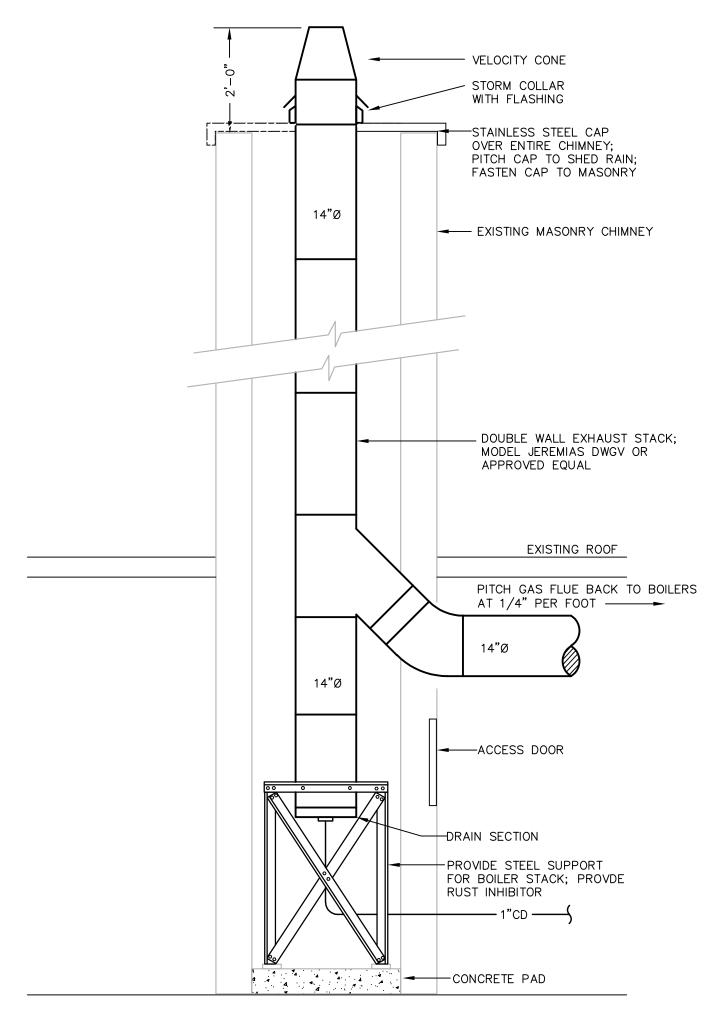
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1 MECHANICAL BOILER ROOM NEW WORK PLAN SCALE: 1/2" = 1'- 0"

MECHANICAL NEW WORK KEY NOTES

- PROVIDE NEW JOHNSON CONTROLS DDC THERMOSTAT TO OPEN/CLOSE THE EXISTING MOTORIZED DAMPERS & START/STOP THE EXISTING EXHAUST FAN TO MAINTAIN BOILER ROOM TEMPERATURE AT 80°F (ADJUSTABLE). PROVIDE CONTROL WIRING AND SPRING RETURN ACTUATORS.
- EMERGENCY SWITCH BY ELECTRICAL CONTRACTOR; EXISTING BMS SHALL GENERATE AN ALARM UPON ACTIVATION OF THE EMERGENCY SWITCH.
- BRING HOT WATER BOILERS THROUGH ADJACENT CORRIDOR & ENTER BOILER ROOM THROUGH EXISTING DOOR; BOILER SHALL BE BROUGHT DOWN THE BOILER ROOM STAIR & PLACE ON NEW 7"Ht. REINFORCED CONCRETE PADS; REMOVE & REINSTALL EXISTING STAIR STEEL RAILING AS TO ACCOMMODATE NEW BOILER ENTRY.
- CLEAN EXISTING 48"x48" COMBUSTION AIR INTAKE LOUVERS, BIRD SCREENS & DUCT; EXTEND DUCT TO 3" ABOVE THE EXISTING COLD WATER PIPING; CAP ENTIRE PLENUM & INSULATE WITH 2" RIDGED BOARD INSULATION; PROVIDE NEW 8"Ø COMBUSTION AIR INTAKE DUCTS TO CONNECT TO BOILERS; REFER TO BOILER MFR'S INSTRUCTIONS.
- M5 PROVIDE NEW SECTION OF 3"CW PIPING AS SHOWN.
- $\overline{\text{M6}}$ provide NeW 3" isolation valve on existing 3" CW PiPE; field verify exact size.
- CLEAN EXISTING INTAKE AIR LOUVERS, BIRD SCREENS & DUCTWORK. PROVIDE 1"x1"x1/2" GALVANIZED MESH SCREEN IN REMOVABLE TRAY AT BOTTOM OF THE EXISTING 36"x48" DUCT.
- PROVIDE CONDENSATE NEUTRALIZER TANK & CONDENSATE PIPING; INSTALL NEUTRALIZER TANK & CONDENSATE PIPING IN STRICT ACCORDANCE WITH TANK MANUFACTURE'S RECOMMENDATIONS.
- M9 CLEAN THE EXISTING FLOOR DRAIN & ASSOCIATED DRAIN PIPE. INSPECT DRAIN FOR PROPER OPERATION.
- NEW WATER TEMPERATURE SENSOR IN PIPE THERMO-WELL FURNISHED BY BOILER MANUFACTURER AND INSTALLED BY ATC CONTRACTOR.
- PROVIDE 4"HWS PIPING. COORDINATE PIPING WITH EXISTING CONDITIONS AND PROVIDE FINAL CONNECTIONS TO EXISTING PIPING.
- PROVIDE 1"x1"x1/2" GALVANIZED MESH SCREEN IN REMOVABLE TRAY; FIELD VERIFY EXACT SIZE.
- PROVIDE IN-LINE 6" HEATING HOT WATER MAGNETIC FILTER; BOILERMAG XT MODEL NO.BMXT/6 PART. NO.BMXT300HF OR APPROVED EQUAL FOR A MAXIMUM FLOW OF 440 GPM.
- PROVIDE NEW PIPING & ALL REQUIRED PIPE FITTINGS FOR NEW FLOOR MOUNTED EXPANSION TANK & CHEMICAL SHOT FEEDER; CONNECT INTO HEATING WATER SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS.



NOTE: INSTALL BOILERS STACK IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS





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PRENDERGAST
SCHOOL HOT
WATER BOILER
REPLACEMENT

ANSONIA, CT

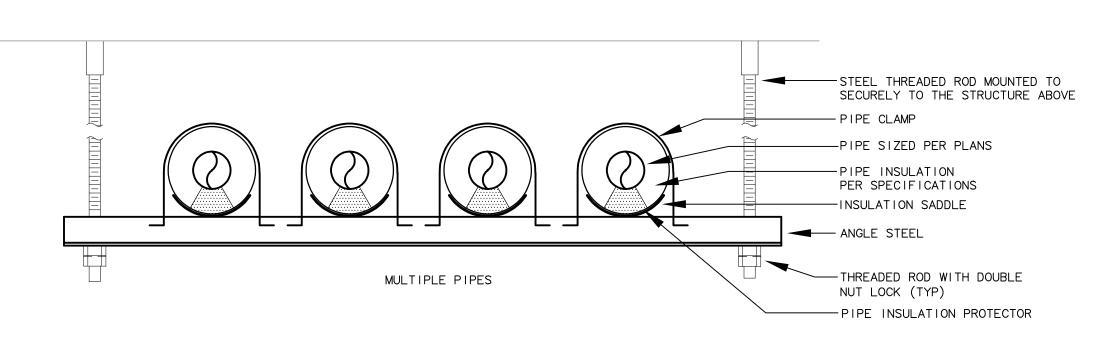
MECHANICAL BOILER ROOM NEW WORK PLAN

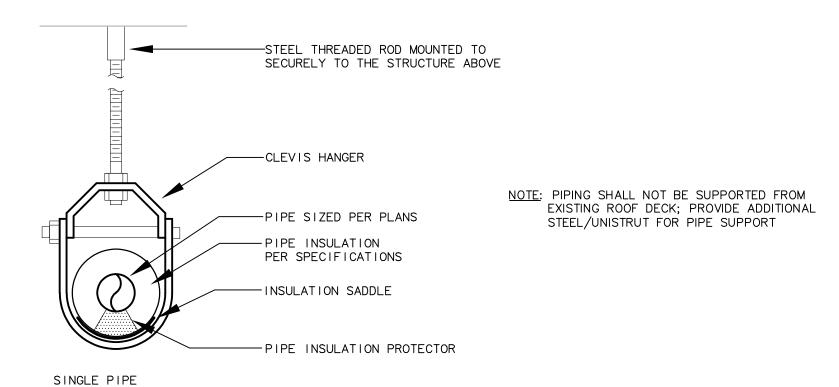
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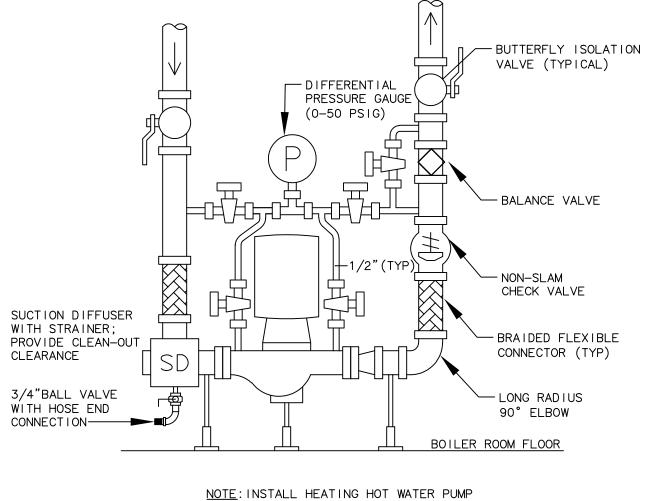
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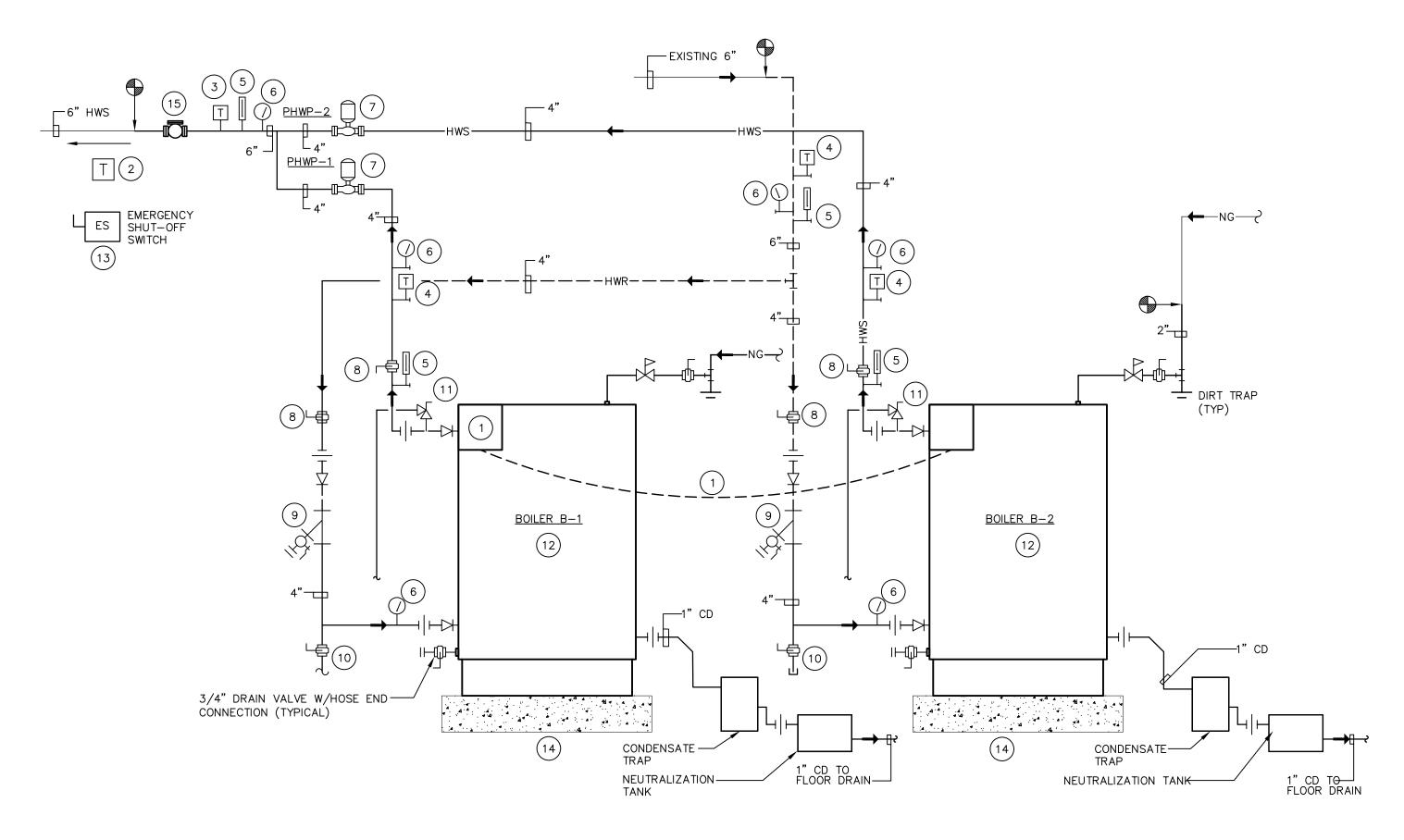


VERTICAL IN-LINE PUMP DETAIL

4'0" ABOVE BOILER ROOM FLOOR

HEATING HOT WATER PIPING DIAGRAM KEY NOTES

- BOILER CONTROL PANEL PROVIDED BY BOILER MANUFACTURER; BACNET INTERFACE TO THE EXISTING BUILDING MANAGEMENT SYSTEM & CONTROL WIRING BY ATC CONTRACTOR; INTERLOCKING CONTROL WIRING BETWEEN BOILERS, CONTROL PANELS
- (2) OUTSIDE AIR TEMPERATURE SENSOR FURNISHED BY BOILER MANUFACTURER & INSTALLED BY ATC CONTRACTOR ON NORTH
- WALL IN ULTRA-VIOLET SENSOR ENCLOSURE; 7'-0" ABOVE FINISHED GRADE.
- HOT WATER SUPPLY TEMPERATURE SENSOR IN PIPE THERMO-WELL SHALL BE FURNISHED BY BOILER MANUFACTURER & INSTALLED BY ATC CONTRACTOR. CONTROL WIRING BY ATC CONTRACTOR; PROVIDE THERMO-WELL FITTINGS.
- HOT WATER TEMPERATURE SENSORS SHALL BE PROVIDED BY ATC CONTRACTOR; PIPE THERMO-WELL FITTINGS FURNISHED BY ATC CONTRACTOR & INSTALLED BY MECHANICAL CONTRACTOR.
- (5) THERMOMETER (0° F 200° F RANGE) IN PIPE THERMO-WELL BY MECHANICAL CONTRACTOR (TYPICAL)
- 6 HEATING HOT WATER PRESSURE GAUGE (0 50 PSIG RANGE) BY MECHANICAL CONTRACTOR.
- 7 HEATING HOT WATER PUMP BY MECHANICAL CONTRACTOR. REFER TO "VERTICAL IN-LINE PUMP DETAIL" FOR ADDITIONAL REQUIRED VALVES, FITTINGS & ACCESSORIES. 8 ISOLATION & SHUT-OFF BUTTERFLY VALVE BY MECHANICAL CONTRACTOR.
- (9) WYE STRAINER WITH 3/4" BALL VALVE WITH HOSE END CONNECTION BY MECHANICAL CONTRACTOR.
- (10) 3/4" BALL VALVE WITH HOSE END CONNECTION BY MECHANICAL CONTRACTOR.
- PRESSURE RELIEF VALVE (SET FOR 50 PSIG) BY MECHANICAL CONTRACTOR. TERMINATE PIPING FROM PRESSURE RELIEF VALVE 18" ABOVE FINISHED FLOOR.
- (12) GAS FIRED HEATING HOT WATER BOILER BY MECHANICAL CONTRACTOR.
- (13) EMERGENCY SHUT-OFF SWITCH & WIRING BY ELECTRICAL CONTRACTOR.(TYPICAL FOR 2)
- (14) PLACE NEW BOILER(S) ON NEW 7" Ht. REINFORCED CONCRETE HOUSEKEEPING COORDINATE EXACT SIZE IN FIELD.
- PROVIDE IN-LINE 6" HEATING HOT WATER MAGNETIC FILTER; BOILERMAG XT MODEL NO.BMXT/6 PART. NO.BMXT300HF OR APPROVED EQUAL FOR A MAXIMUM FLOW OF 440 GPM.



4 HEATING HOT WATER BOILER PIPING DIAGRAM
N.T.S.

& DOLL, INC.

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PRENDERGAST SCHOOL HOT WATER BOILER **REPLACEMENT**

ANSONIA, CT

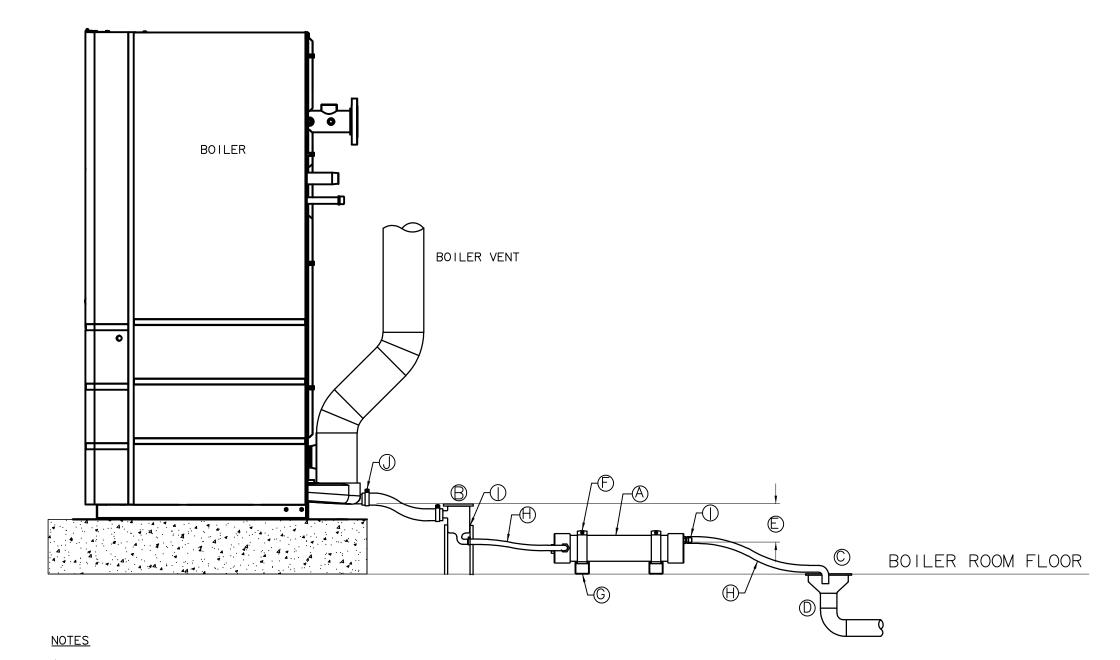
MECHANICAL DETAILS & DIAGRAMS

DATE: PROJECT NO: DRAWN: CHECKED: **ISSUED FOR: REVISIONS:**

4/1/2020 2018168.00 ADC OHA

SHEET NO.

M-200

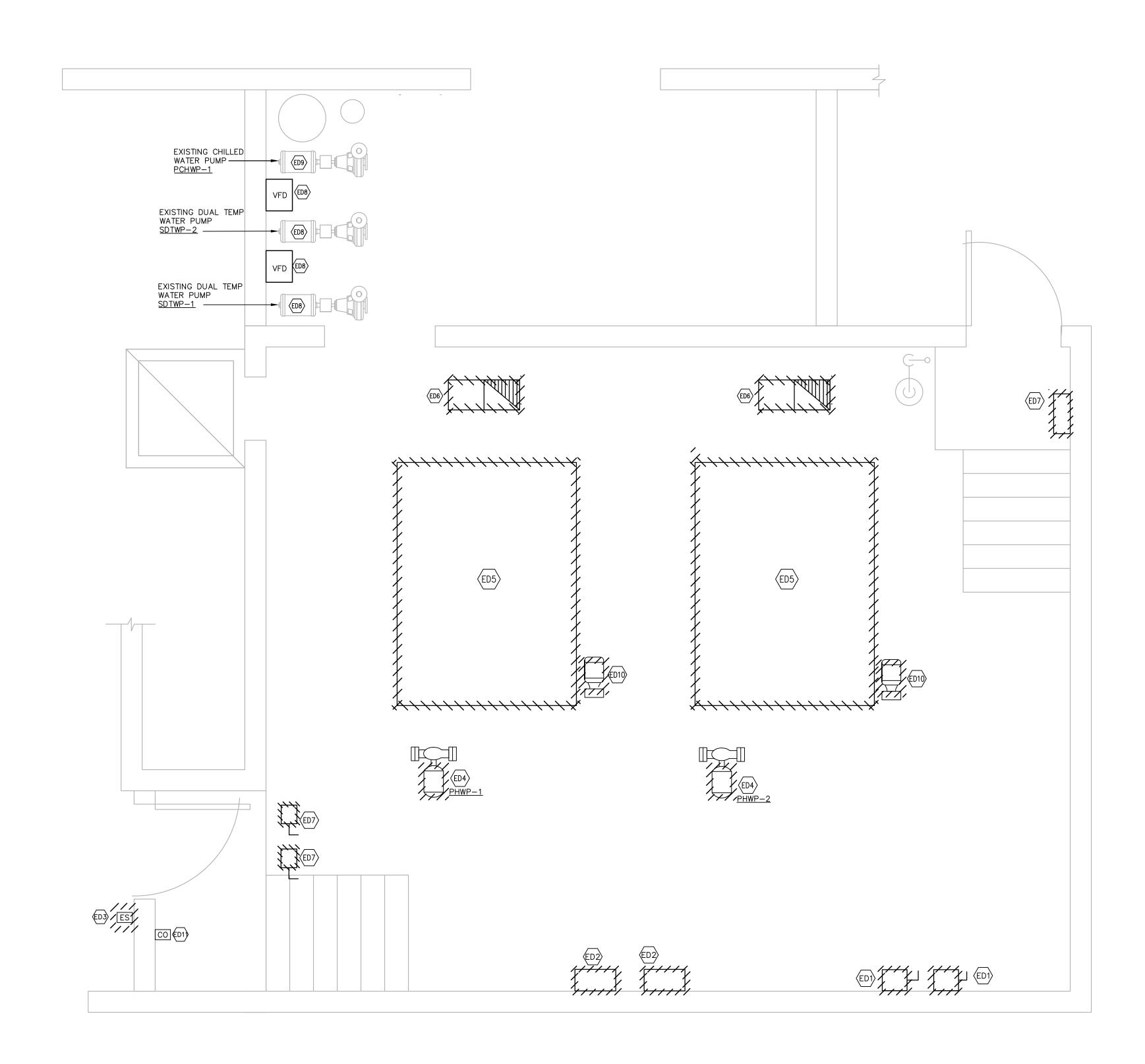


TYPICAL PIPE SUPPORT DETAILS

A. CONDENSATE NEUTRALIZING TUBE

- B. FACTORY SUPPLIED CONDENSATE TRAP. PROVIDE FIELD FABRICATED SUPPORTS AS REQUIRED.
- C. CONDENSATE DRAIN TERMINATION AT FLOOR DRAIN. SECURE IN PLACE AS REQUIRED.
- D. FLOOR DRAIN.
- E. BOTTOM OF BOILER CONDENSATE OUTLET MUST BE ABOVE THE THE BOTTOM OF THE CONDENSATE OUTLET.
- F. UNISTRUT CLAMPS, SECURE TUBE IN POSITION AND SECURELY. CONDENSATE OUTLET MUST BE ORIENTED UP, WITH CONDENSATE INLET TO THE SIDE.
- G. C-CHANNEL BASE, BOLT TO FLOOR OR MOUNTING PAD.
- H. PLASTIC TUBING OR PVC PIPE.
- I. USE HOSE CLAMPS AT ALL CONNECTIONS WHEN USING FACTORY SUPPLIED RUBBER HOSE.
- J. PROVIDE 316 STAINLESS STEEL TUBING FROM BOILER/FLUE OUTLET TO CONDENSATE TRAP.

3 HEATING HOT WATER BOILER & FLUE STACK CONDENSATE PIPING DETAIL N.T.S.



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

ELECTRICAL DEMOLITION KEY NOTES

- EDD EXISTING IN-LINE PUMP STARTER & DISCONNECT SWITCHES: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- EXISTING BURNER CONTROL PANEL: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- ED3 EXISTING EMERGENCY SHUTOFF SWITCH: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- ED4 EXISTING IN-LINE HOT WATER PUMP: REMOVE ALL ASSOCIATED CONDUIT AND WRE. REMOVE EXISTING STARTER IN ELECTRICAL ROOM & ALL ASSOCIATED CONDUIT AND WRE.

 PHWP-1 STARTER: ELECTRICAL 1234
 PHWP-2 STARTER: ELECTRICAL 1289
 REFER TO E-200 FOR APPROXIMATE LOCATIONS OF STARTERS.
- EXISTING DUAL FUEL HOT WATER BOILER: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- (ED6) EXISTING INDUCED DRAFT FAN: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- ED7 EXISTING BOILER CONTROL PANEL: REMOVE PANEL AND ALL ASSOCIATED DISCONNECT SWITCHES, CONDUIT AND WIRE.
- EXISTING BASE MOUNTED DUAL TEMPERATURE WATER PUMP & VARIABLE FREQUENCY DRIVE, PIPING & CONTROLS SHALL REMAIN.
- ED9 EXISTING CHILLED WATER PUMP & ASSOCIATED PIPING & CONTROLS TO REMAIN.
- EDIO EXISTING FUEL OIL PUMPS: REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- EDIT EXISTING CARBON MONOXIDE DETECTOR TO REMAIN.



DeCarlo & Doll, Inc. 89 Colony Street Meriden, Connecticut 06451



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	REVISIONS						
NO.	DATE	DESCRIPTION					

PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

ANSONIA, CT

ELECTRICAL DEMOLITION PLAN

DATE:
PROJECT NO:
DRAWN:
CHECKED:
ISSUED FOR:
REVISIONS:

4/1/2020 2018168.00 MFC SAS

SHEET NO.

ED-100

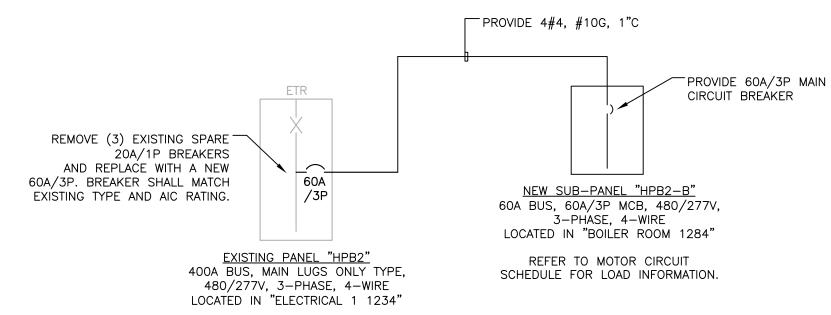
			MOTOR	CIRCUIT	SCH	EDUL	E					
EQUIPMENT	SOURCE PANEL	O C P DEVICE	FEEDER SIZE	LOCAL DISC. SW.	TYPE	MOTOR SIZE	STARTER LOCATION	HP	LOA MCA		VOLT	REMARKS
B-1	HPB2-B	15A/3P	4#12, #12G, 3/4"C	30A/3P	DIV. 23	DIV. 23	DIV. 23	-	15	3	480	SEE NOTE #4
B-2	HPB3-B	15A/3P	4#12, #12G, 3/4"C	30A/3P	DIV. 23	DIV. 23	DIV. 23	-	15	3	480	SEE NOTE #4
PHWP-1	HPB2-B	15A/3P	3#12, #12G, 3/4"C	30A/3P	DIV. 23	DIV. 23	DIV. 23	5	_	3	480	
PHWP-2	HPB3-B	15A/3P	3#12, #12G, 3/4"C	30A/3P	DIV. 23	DIV. 23	DIV. 23	5	_	3	480	

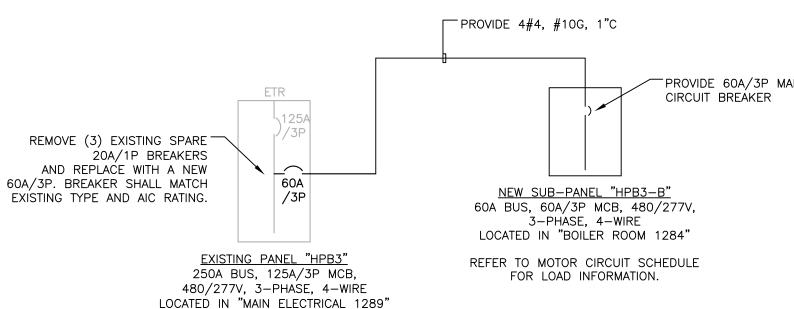
NOTES:

- 1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
- ABBREVIATIONS:
- VFD VARIABLE FREQUENCY DRIVE, FURNISHED & INSTALLED BY DIV. 23, WIRED BY DIV. 26 STOL - 20A/1P OR 20A/2P THERMAL OVERLOAD SWITCH, PROVIDED BY DIV. 26 CONTRACTOR
- DIV. 23 PROVIDED BY DIV. 23 CONTRACTOR
- 3. O.C.P. DEVICE (OVERCURRENT PROTECTIVE) SHALL BE MOLDED CASE CIRCUIT BREAKER UNLESS NOTED WITH AN 'F' FOR FUSE.
- 4. PROVIDE ALL CONTROL WIRING PER MANUFACTURERS REQUIREMENTS FROM EACH BOILER TO BOILER CONTROL PANEL (FURNISHED BY DIV. 23)

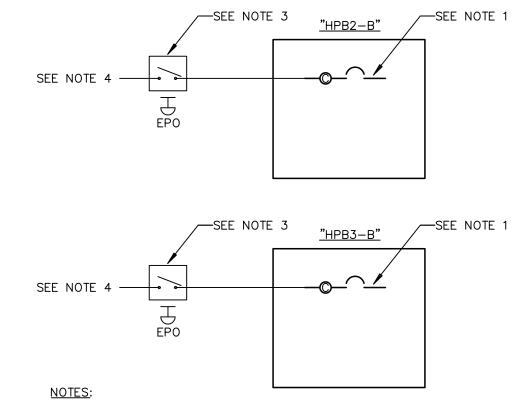
PANEL: HPB2-B		MAIN:		60A MCE	}		NOTES:					
ANSONIA PRENDERGAST -			:									
PRC)JEC	T:	BOILER REPLACEMENT	VOLT:	480	V, L-L	277	V, L-N				
PRC	PROJECT NO.: 2018168.00		A.I.C.	A.I.C. 42K								
LOC	ATIC	ON:	BOILER ROOM 1284	FED FR	OM:	HPB2						
MOL	JNTII	NG:	SURFACE - NEMA 1									
ВІ	REA	KER			PHAS	E LOAD	- KVA		-	E	BREA	KER
NO	Α	Р	DESCRIPTION	KVA	Α	В	С	KVA	DESCRIPTION	Α	Р	NO
1	15	3	BOILER #1	1.38	3.48			2.10	PHWP-1	15	3	2
3	"	"	и	1.38		3.48		2.10	II.	11	11	4
5	"	"	и	1.38			3.48	2.10	II.	11	11	6
7	7 " " SHUNT TRIP ACCESSORY			-				SPARE	15	3	8	
9	15 3 SPARE				-			"	"	"	10	
11	"	"	u.				-		"	"	"	12
13	"	"	u.		-				SPACE & BUSSING			14
15			SPACE & BUSSING			-			SPACE & BUSSING			16
17			SPACE & BUSSING				-		SPACE & BUSSING			18
TOTAL LOAD PER PHASE:				3.5	3.5	3.5						
TOTAL AMPS PER PHASE:				12.6	12.6	12.6						
тот	TOTAL LOAD ON PANEL:				10.44 KVA							
TOT	AL A	AMPS	ON PANEL:		12.57 AMPS							

PANEL: HPB3-B		MAIN: 60A MCB					NOTES:					
ANSONIA PRENDERGAST -												
PRO	JEC	T:	BOILER REPLACEMENT	VOLT:	480	V, L-L	277	V, L-N				
PRO	JEC	T NO.:	2018168.00	A.I.C.		65K						
LOC	ATIC	ON:	BOILER ROOM 1284	FED FR	OM:	HPB3						
MOL	JNTII	NG:	SURFACE - NEMA 1									
EAK	ER			PHAS	E LOAD	- KVA				BREA	(ER	
NO	Α	Р	DESCRIPTION	KVA	Α	В	С	KVA	DESCRIPTION	Α	Р	NO
1	15	3	BOILER #2	1.38	3.48			2.10	PHWP-2	15	3	2
3	11	11	11	1.38		3.48		2.10	11	"	17	4
5	- 11	11	11	1.38			3.48	2.10	11	"	11	6
7	11	u u	SHUNT TRIP ACCESSORY		-				SPARE	15	3	8
9	15	3	SPARE			-			11	"	17	10
11	11	11	11				-		11	"	17	12
13	11	II.	11		-				SPACE & BUSSING			14
15			SPACE & BUSSING			-			SPACE & BUSSING			16
17			SPACE & BUSSING				-		SPACE & BUSSING			18
тот	TOTAL LOAD PER PHASE:				3.5	3.5	3.5					
TOTAL AMPS PER PHASE:					12.6	12.6	12.6					
TOT	TOTAL LOAD ON PANEL:				10.44 KVA							
TOT	TOTAL AMPS ON PANEL:				12	.57	AMPS					





PARTIAL ELECTRICAL ONE-LINE DIAGRAM



- 1. PROVIDE SHUNT-TRIP CIRCUIT BREAKER FOR BOILER WITH 120V COIL
- 2. COORDINATE CONNECTIONS TO EQUIPMENT/CONTROL PANELS IN FIELD.
- 3. STI MODEL #SS202-4-PO-EN PUSHBUTTON, QUANTITY SHOWN ON PLANS: A. WITH (1) N.O. AND (1) N.C. CONTACT COMPATIBLE WITH CONTRACTOR B. RED COLOR WITH "EMERGENCY POWER OFF" LEGEND C. NON-ALARMED FLIP UP FLUSHED COVER D. MOMENTARY OPERATION
- 4. POWER VIA SPARE 20A/1P CIRCUIT BREAKER IN PANEL "ELP1"

BOILER ROOM EMERGENCY SHUTOFF DETAIL

N.T.S.

ELECTRICAL SYMBOL LIST

SYMBOL DESCRIPTION

SURFACE MOUNTED PANELBOARD



ELECTRICAL MOTOR LOAD: REFER TO MOTOR CIRCUIT SCHEDULE



JUNCTION BOX

H) EPO EMERGENCY SHUTOFF FOR BOILERS. REFER TO DETAIL 2/E-100.

ELECTRICAL ABBREVIATIONS AC ALTERNATING CURRENT KCMIL THOUSAND CIRCULAR MILS AIR CONDITIONING UNIT KVA | KILOVOLT AMPERE KW KILOWATT MAXIMUM

MAKE UP AIR UNIT

METAL HALIDE

MAIN LUGS ONLY

NOT APPLICABLE

NOT TO SCALE

POWER FACTOR

REMOVE EXISTING

ROOFTOP UNIT

SPECIFICATION

SWITCHBOARD

TELEVISION

TRANSFORMER

UNIT HEATER

| VOLT AMPERE

WATT, WIRE

TYPICAL

VOLTS

WG WIRE GUARD WP WEATHERPROOF

RELOCATE EXISTING

PHASE

NOT IN CONTRACT

MINIMUM

MOTOR CONTROL CENTER

NATIONAL ELECTRIC CODE

NEW TO REPLACE EXISTING

PRIMARY ELECTRICAL SERVICE

POLYVINYL CHLORIDE CONDUIT

RIGID GALVANIZED STEEL CONDUIT

SECONDARY ELECTRICAL SERVICE

TELECOMMUNICATIONS/TELEPHONE

VOLTS ALTERNATING CURRENT

REMOVE AND REPLACE ON NEW SURFACE

TRANSIENT VOLTAGE SURGE SUPPRESSION

NEW LOCATION OF EXISTING RELOCATED

MCCB | MOLDED CASE CIRCUIT BREAKER

MAU

NEC

NR

NTS

PH/ø

PVC

RM

RR

SE

SPEC

TVSS

T/TX

ΤΫ́Ρ

VAC

W

UH

MCC

ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT AMPS INTERRUPTING CURRENT AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BSMT BASEMENT CONDUIT CATV | CABLE TELEVISION CIRCUIT BREAKER CIRCUIT

EXISTING TO REMAIN

ELECTRIC METALLIC TUBING

ELECTRIC UNIT HEATER

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

FIRE ALARM CONTROL PANEL

GROUND FAULT INTERRUPTER

HIGH PRESSURE SODIUM

EXHAUST FAN

ELECTRICAL

FAHRENHEIT

FIRE ALARM

FOOT CANDLE

GROUND

HOUR

HERTZ

INCHES

FAN COIL UNIT

HORSE POWER

ISOLATED GROUND

ELEVATOR

C/B COMP COMPRESSOR CONDENSATE PUMP CURRENT TRANSFORMER CONDENSING UNIT, COPPER CUH CABINET UNIT HEATER DEGREE DIA/Ø DIAMETER DOWN DRAWING

ELEC

ELEV

EMT

GFI

HZ

A/AMP AMPERE

ACU

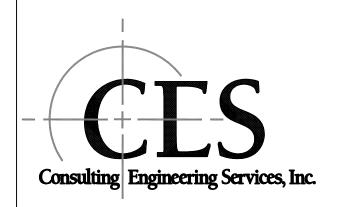
PROVIDE 60A/3P MAIN

GENERAL NOTES - ELECTRICAL DEMOLITION

- 1. ALL ELECTRICAL DEVICES, WIRING AND CONDUIT RELATED TO MECHANICAL EQUIPMENT BEING DEMOLISHED (AS INDICATED ON MD-100) SHALL BE REMOVED, UNLESS OTHERWISE NOTED. REMOVAL SHALL BE COMPLETE INCLUDING BOXES, BRACKETS, HANGERS, AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ITEMS TO BE REMOVED IN A SAFE, LEGAL AND RESPONSIBLE MANNER.
- 3. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
- 4. THIS PLAN IS DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
- 5. THIS PROJECT COMPRISES ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING. THE EXISTING BUILDING IS CURRENTLY OCCUPIED AND THE PROJECT WILL PROCEED IN A MANNER WHICH WILL MINIMIZE ANY INCONVENIENCE TO THE BUILDING OCCUPANTS.
- 6. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
- 7. DEMOLITION IS TO BE PERFORMED IN A SELECTIVE FASHION AND PERFORMED TO MAINTAIN EXISTING SYSTEMS IN AREAS REMAINING OPERATIONAL. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE DISRUPTION OF SYSTEMS OR CIRCUITS AND TO INVESTIGATE ALL CIRCUITING AND DEVICES SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY MEASURES TO MAINTAIN EXISTING SYSTEMS AND CIRCUITS AS REQUIRED.



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PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

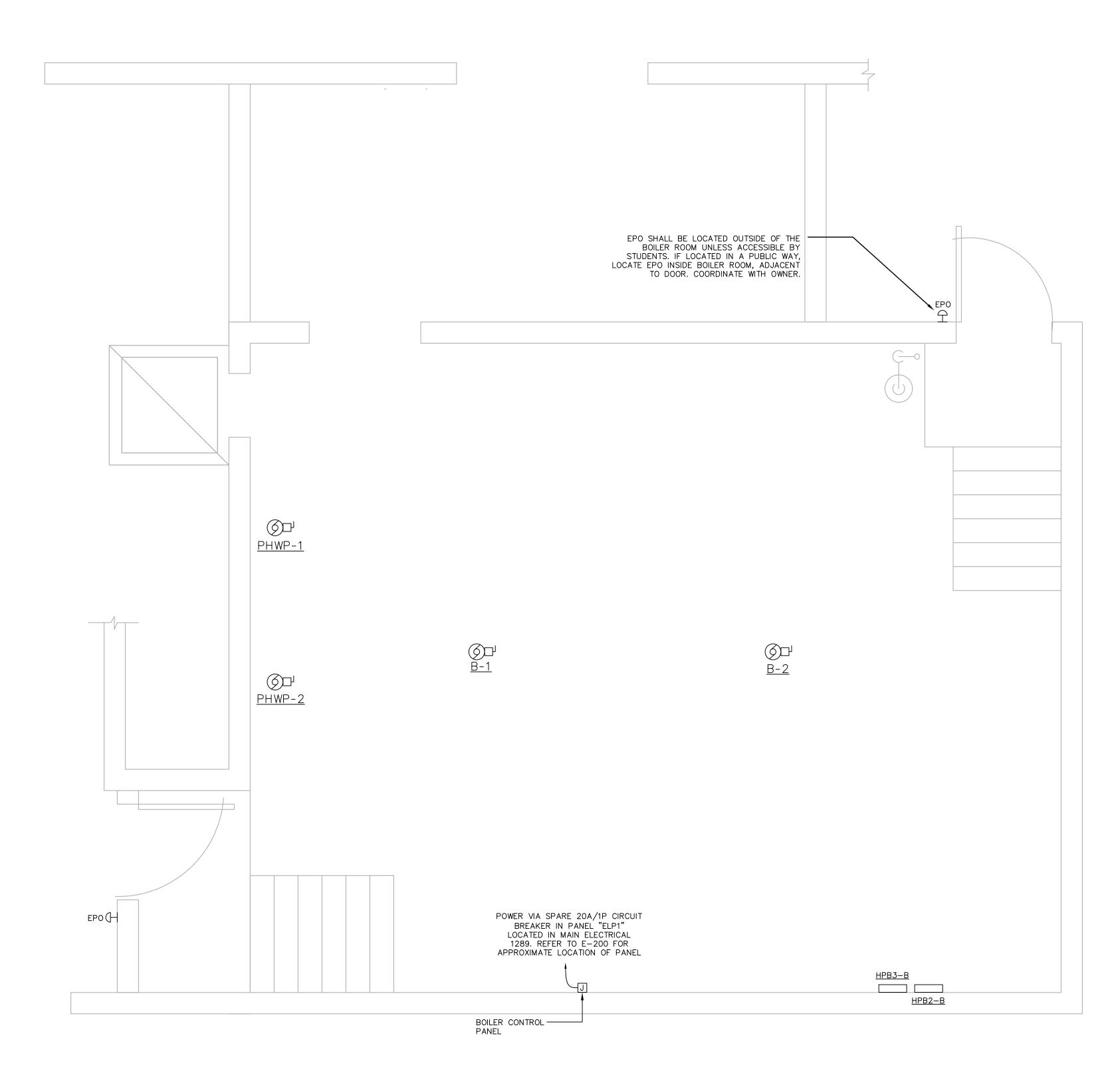
ANSONIA, CT

ELECTRICAL SYMBOLS, SCHEDULE, & RISER DIAGRAM

DATE: PROJECT NO: DRAWN: CHECKED: **ISSUED FOR: REVISIONS:**

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



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PRENDERGAST
SCHOOL HOT
WATER BOILER
REPLACEMENT

ANSONIA, CT

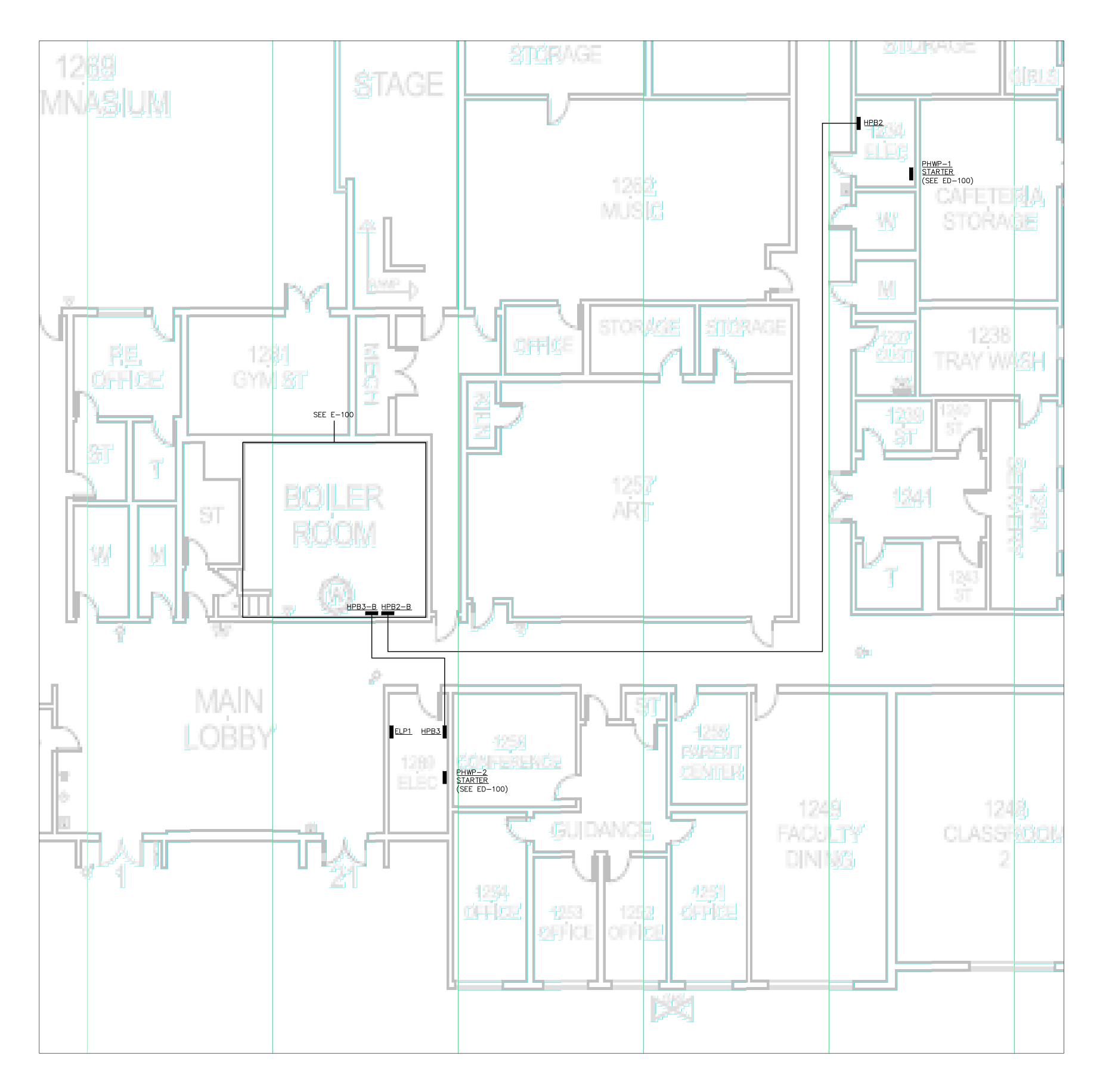
ELECTRICAL PLAN

DATE:
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E-100







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PRENDERGAST SCHOOL HOT WATER BOILER REPLACEMENT

ANSONIA, CT

ELECTRICAL PARTIAL PLAN

DATE:
PROJECT NO:
DRAWN:
CHECKED:
ISSUED FOR:
REVISIONS:

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SHEET NO.

E - 200