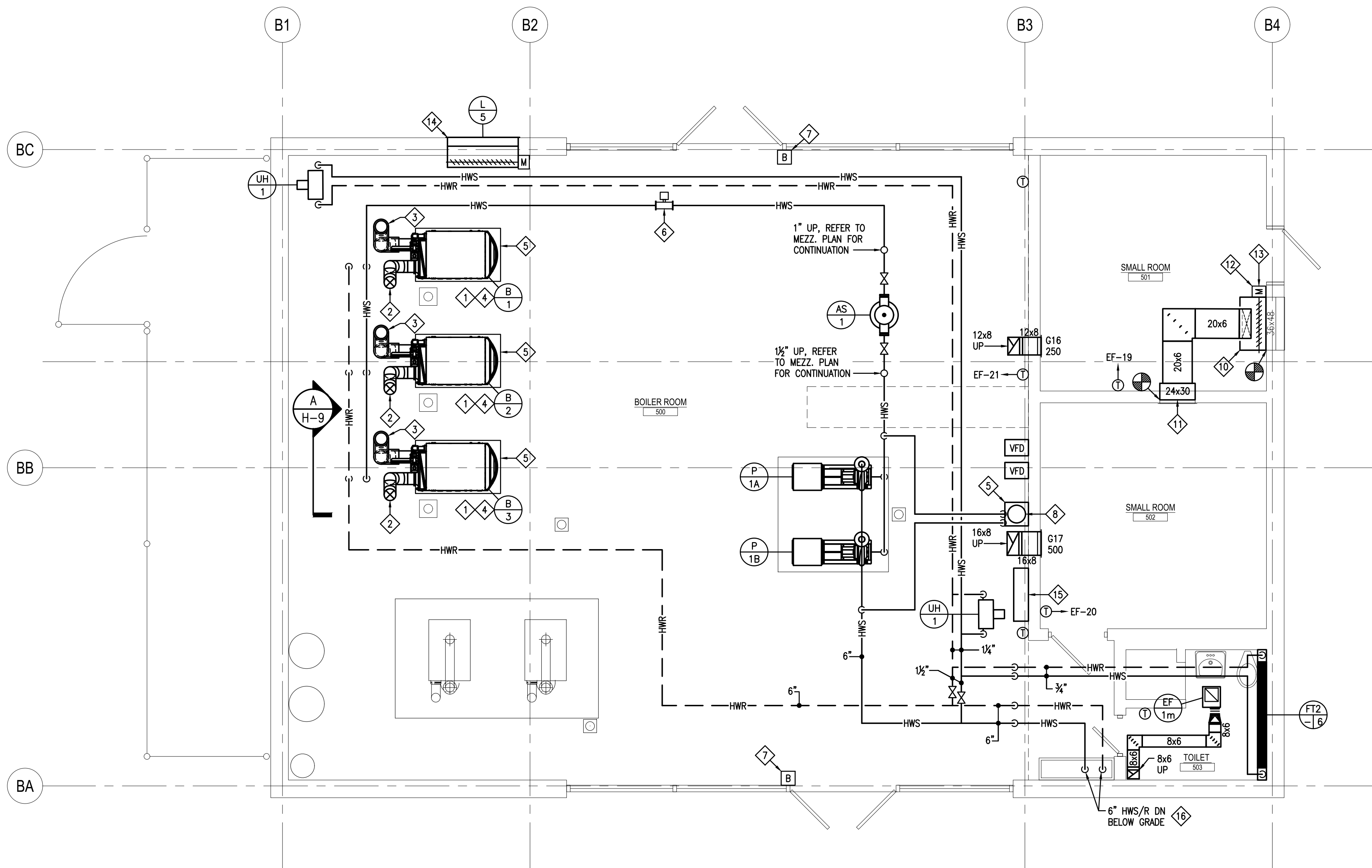


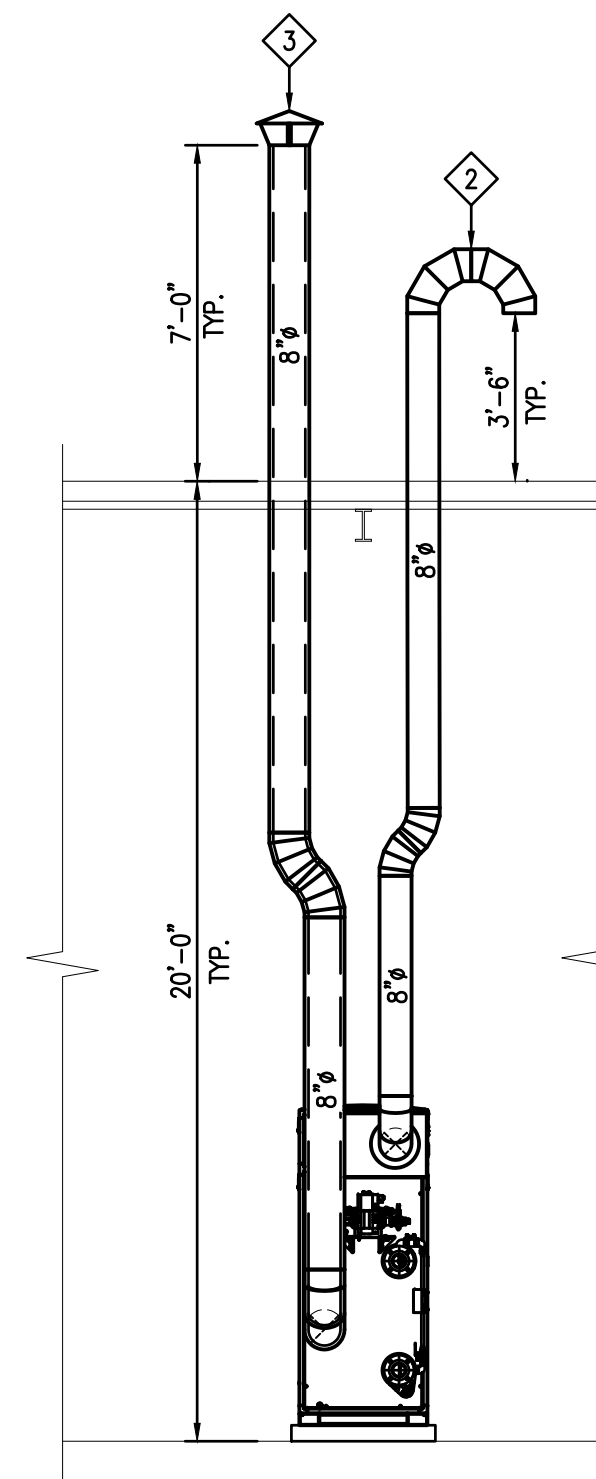
BOILER HOUSE PLAN MEZZANINE PLAN - HVAC

SCALE: 1/4" = 1'-0"



BOILER HOUSE PLAN - HVAC

SCALE: 1/4" = 1'-0"



SECTION A

SCALE: 1/4" = 1'-0"

THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL PANEL LOCATIONS (INSIDE ELECTRICAL AND OUTSIDE ELECTRICAL ROOMS) WITH PIPING AND DUCTWORK LAYOUTS PRIOR TO PIPING AND DUCTWORK INSTALLATION. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL N.E.C. (NATIONAL ELECTRIC CODE) CLEARANCES BEFORE INSTALLING ANY PIPING AND DUCTWORK. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS RESULTING TO REWORKING (REMOVING AND REINSTALLING) PIPING AND DUCTWORK INSTALLED IN CONFLICT WITH ELECTRICAL PANELS/EQUIPMENT CLEARANCES.

THE HVAC CONTRACTOR WILL BE RESPONSIBLE TO FOLLOW THE PROJECT PHASING SCHEDULE AND ONLY REMOVE SYSTEM COMPONENTS FROM AREAS OF THE PROJECT THAT ARE NO LONGER OCCUPIED AND ARE WITHIN THE CURRENT PHASING LIMITATIONS.

THE HVAC CONTRACTOR WILL NEED TO PROVIDE ALL REQUIRED ISOLATION VALVES AND TEMPORARILY HVAC CONNECTIONS NECESSARY TO KEEP THE EXISTING HEATING/COOLING SYSTEMS FULLY OPERATIONAL WITHIN THE OCCUPIED PORTIONS OF THE BUILDING THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.

DRAWING NOTES:

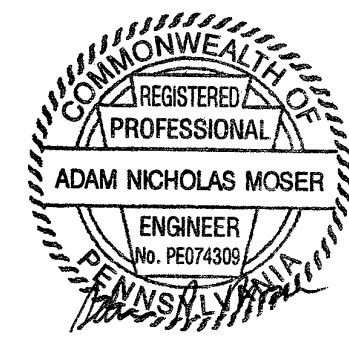
- REFER TO DRAWING H-4 FOR GENERAL PROJECT NOTES.
- PROVIDE REQUIRED SERVICE CLEARANCES FOR ALL EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- COORDINATE AND SCHEDULE ALL WORK IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND PHASING PLANS AS REQUIRED TO ACCOMMODATE PROJECT PHASING.
- REFER TO PROJECT PHASING DRAWING AND SCHEDULE. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMMODATE PROJECT PHASING.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO COMPLETE ALL INDICATED WORK.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILLING NOT INDICATED TO BE PROVIDED BY THE GENERAL CONTRACTOR ELSEWHERE IN THE DOCUMENTS THAT IS REQUIRED TO COMPLETE ALL INDICATED HVAC WORK.
- HVAC CONTRACTOR SHALL PROVIDE MANUAL AIR VENTS AT ALL PIPING HIGH POINTS FOR BOTH THE HEATING WATER SYSTEM PIPING AND CHILLED WATER SYSTEM PIPING, TYPICAL THROUGHOUT THE ENTIRE PROJECT.
- HVAC CONTRACTOR SHALL COORDINATE INSTALLED HEIGHT OF HVAC SYSTEM PIPING WITH ALL OTHER TRADES. BOTTOM OF AIR SEPARATOR MUST INSTALLED A MINIMUM OF 10'-0" ABOVE FINISHED FLOOR. PROVIDE OFFSETS, RISES AND DROPS AS REQUIRED TO COMPLETE PIPING INSTALLATION.
- REFER TO HOT WATER SYSTEM SCHEMATIC PIPING DIAGRAM SHOWN ON DWG. H-7 FOR REQUIRED PIPING ARRANGEMENT, SYSTEM COMPONENTS AND PIPE SIZES.
- PROVIDE ALL REQUIRED TEMPORARY PIPING CONNECTIONS NEEDED TO KEEP EXISTING DUAL TEMPERATURE PIPING LOOP ACTIVE UNTIL FINAL PHASE OF CONSTRUCTION IS COMPLETE.
- PRIOR TO COMPLETION OF FINAL PHASE OF CONSTRUCTION, ALL TEMPORARY PIPING CONNECTIONS AND ASSOCIATED INSULATION, VALVES HANGERS AND SUPPORTS MUST BE COMPLETELY REMOVED.

KEYED DRAWING NOTES:

- CONTRACTOR MUST POSITION BOILERS AND INSTALL PIPING AND BREECHING AS REQUIRED TO MAINTAIN A MINIMUM OF 30" CLEARANCE AROUND ALL APERTUREANCES. INSTALLATION OF BOILERS AND ASSOCIATED EQUIPMENT SHALL MEET REQUIREMENTS OF ALL APPLICABLE CODES. PROVIDE MINIMUM SERVICE CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURERS.
- INDIVIDUAL BOILER COMBUSTION AIR INTAKE BREECHING TO BE 8" Ø I.D., EXTEND THRU ROOF AND TERMINATE AT MINIMUM OF 3'-6" ABOVE FINISHED ROOF WITH AN 180° TURNED DOWN ELBOW, REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- INDIVIDUAL BOILER EXHAUST BREECHING TO BE 8" Ø I.D., EXTEND THRU ROOF AND TERMINATE AT MINIMUM OF 7'-0" ABOVE FINISHED ROOF WITH A STORM CAP, REFER TO BOILER BREECHING STACK INSTALLATION DETAIL 9, SHOWN ON DWG. H-4, REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- PROVIDE CONDENSATE TRAP, NEUTRALIZATION KIT AND ASSOCIATED CONDENSATE PIPING AS REQUIRED IN MANUFACTURES WRITTEN INSTRUCTIONS, PIPE CONDENSATE WASTE DISCHARGE TO NEAREST FLOOR DRAIN AND TERMINATE WITH 2" AIR CAP.
- PROVIDE A CONCRETE EQUIPMENT PAD UNDER HVAC EQUIPMENT, PAD SHALL BE 2" LARGER THAN PROVIDED EQUIPMENT AS MEASURED ON ALL SIDES.
- ELECTROMAGNETIC FLOW METER.
- PROVIDE EMERGENCY SHUT-OFF SWITCH, INTERLOCK SWITCH TO SHUT-DOWN EACH BOILER AND EACH EXISTING WATER HEATER.
- BYPASS CHEMICAL FILTER/FEEDER.
- EXTEND FULL SIZE DUCT DROP (EQUAL TO FAN INLET SIZE) DOWN FROM EXHAUST FAN TO 1'-4" BELOW ROOF DECK, PROVIDE 1/2" x 1/2" STAINLESS STEEL SCREEN OVER DUCT OPENING AND SECURE IN PLACE.
- PROVIDE A 36" WIDE x 24" H HIGH x 1'-6" DEEP SHEET METAL PLENUM ON REAR, UPPER HALF OF EXISTING WALL LOUVER. FIELD VERIFY EXISTING LOUVER DIMENSIONS PRIOR TO FABRICATION OF PLENUM AND ADJUST SIZE AS NEEDED.
- PROVIDE A 24" WIDE x 30" H HIGH x 1'-0" DEEP SHEET METAL PLENUM ON REAR OF EXISTING WALL GRILLE. FIELD VERIFY EXISTING GRILLE DIMENSIONS PRIOR TO FABRICATION OF PLENUM AND ADJUST SIZE AS NEEDED.
- PROVIDE A 36" W x 24" H MOTOR OPERATED DAMPER AND ASSOCIATED CONTROLS, INSTALL ON REAR OF UPPER HALF OF EXISTING EXTERIOR WALL LOUVER. FIELD VERIFY EXISTING LOUVER DIMENSIONS PRIOR TO ORDERING DAMPER AND ADJUST SIZE AS NEEDED. INTERLOCK MOD WITH EXHAUST FAN EF-20, MOD SHALL OPEN FULLY WHEN EF-19 ENERGIZES AND SHALL FULLY CLOSE WHEN EXHAUST FAN IS DE-ENERGIZED.
- PROVIDE A 36" W x 24" H MOTOR OPERATED DAMPER AND ASSOCIATED CONTROLS, INSTALL ON REAR OF LOWER HALF OF EXISTING EXTERIOR WALL LOUVER. FIELD VERIFY EXISTING LOUVER DIMENSIONS PRIOR TO ORDERING DAMPER AND ADJUST SIZE AS NEEDED. INTERLOCK MOD WITH EXHAUST FAN EF-19, MOD SHALL OPEN FULLY WHEN EF-20 ENERGIZES AND SHALL FULLY CLOSE WHEN EXHAUST FAN IS DE-ENERGIZED.
- INSTALL BOTTOM OF LOUVER 1'-6" ABOVE FINISHED FLOOR AND PROVIDE A FULL SIZE MOTOR OPERATED DAMPER ON REAR OF LOUVER AND ASSOCIATED REQUIRED CONTROLS, INTERLOCK MOD WITH EXHAUST FAN EF-21, MOD SHALL FULLY OPEN WHEN EF-21 ENERGIZES AND SHALL FULLY CLOSE WHEN EXHAUST FAN IS DE-ENERGIZED.
- ATC PANEL TO BE INSTALLED IN THIS LOCATION
- INSTALL TOP OF ALL EXTERIOR HOT WATER SUPPLY AND RETURN PIPING A MINIMUM OF 4'-0" BELOW FINISHED GRADE, REFER TO SPECIFICATION FOR REQUIRED PIPING MATERIAL.

CONSOLIDATED
ENGINEERS

CIE



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BOILER HOUSE PLAN - HVAC
RENOVATIONS TO THE COCALICO MIDDLE SCHOOL
COCALICO SCHOOL DISTRICT
SOUTH 4TH STREET, DENVER BOROUGH, LANCASTER COUNTY PA

ALL DIMENSIONS AND EXISTING CONDITIONS
shall be CHECKED AND VERIFIED
by THE CONTRACTOR at the SITE.
JOB NO.: 23001.00
DRAWN BY: RLC
DATE: 04.12.24