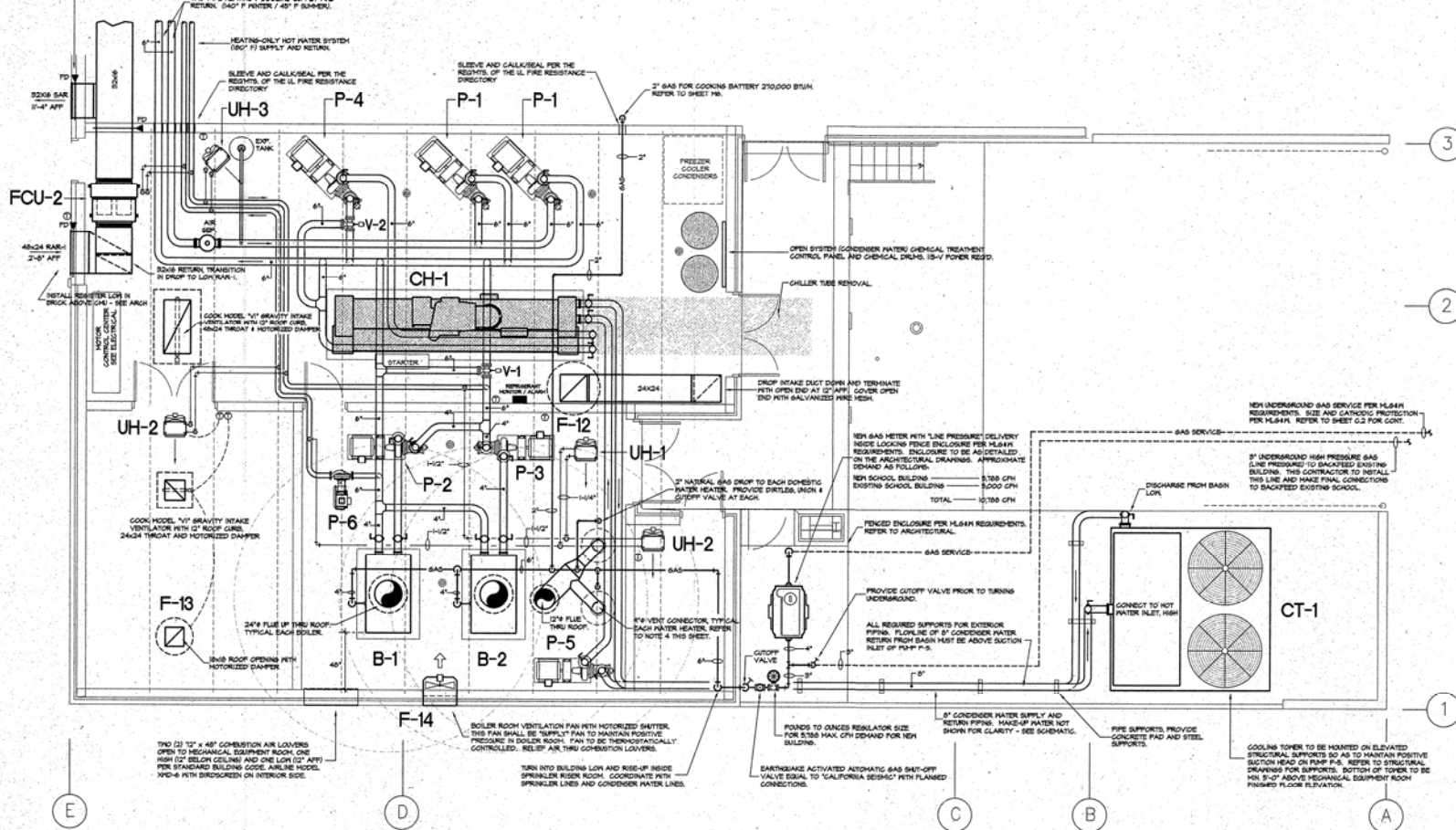




ENLARGED MECHANICAL EQUIPMENT ROOM PLAN - HEATING, VENTILATING AND AIR CONDITIONING

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

COMBUSTION AIR FOR MECHANICAL ROOM

BOILER B-1	2,444,000 BTU/Hr
BOILER B-2	2,444,000 BTU/Hr
DOMESTIC WATER HEATER NO.1	280,000 BTU/Hr
DOMESTIC WATER HEATER NO.2	280,000 BTU/Hr
TOTAL	5,508,000 BTU/Hr
550,000 / 4000 = 138 SQ. FT. FREE AREA REQUIRED PER STANDARD GAS CODE.	
TWO (2) 12" X 48" LOUVERS PROVIDED: ONE AT 12" AFF. AND ONE WITHIN 12" OF THE CEILING PER SAG. EACH LOUVER PROVIDES 4.1 S.F. FREE AREA INCLUDING EFFECT OF DISCHARGE.	

NOTES

1. PAINT ALL INTERIOR EXPOSED (UN-INSULATED) CONDENSER, WATER LINES AND SUPPORTS IN THE MECHANICAL ROOM.
2. PAINT ALL NATURAL GAS PIPING AND SUPPORTS.
3. PAINT ALL EXPOSED DUCTWORK IN THE MECHANICAL EQUIPMENT SPACES.
4. PROVIDE MINIMUM 24" VENT CONNECTOR RISE OFF GAS PRESS. APPLIANCES (WATER HEATERS OR BOILERS) PRIOR TO RE-ENTRY ANY OFFSETS.
5. MAINTAIN MINIMUM 48" CLEARANCE ON ALL SIDES OF EACH BOILER B-1 AND B-2.
6. INSULATE CHILLED WATER AND DUAL TEMPERATURE WATER PUMP CASINGS. SEE SPECIFICATIONS. INSULATE AIR SEPARATOR AND EXPANSION TANK.
7. COORDINATE MOUNTING HEIGHT OF REFRIGERANT SENSOR WITH SENSOR MANUFACTURER.
8. PROTECT ALL EXISTING CONDENSER WATER AND MAKE-UP WATER PIPING INSULATION WITH PEATHERPROOF ALUMINUM JACKETING.

NATURAL GAS NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE NEW GAS SERVICE AND REMOVAL OF THE EXISTING GAS SERVICE WITH H.S.B.M. ON THE BEHALF OF MEMPHIS CITY SCHOOLS. ALL ARRANGEMENTS SHALL BE MADE IN A TIMELY MANNER SO AS TO NOT DELAY ANY PORTION OF THE CONSTRUCTION.
2. THE EXISTING GAS SERVICE AND METER FOR THE EXISTING SCHOOL BUILDING SHALL REMAIN IN SERVICE UNTIL THE NEW METER CENTER IS IN PLACE AND THE NEW 3" LINE IS INSTALLED TO BACKFEED THE EXISTING SCHOOL.
3. REFER TO SHEET C-2 FOR NEW 3" INTERMEDIATE PRESSURE (I) GAS LINE TO BE ROUTED UNDERGROUND TO THE EXIST. GAS SERVICE ENTRANCE AT THE EXISTING SCHOOL BUILDING TO BACKFEED THE EXISTING SCHOOL BUILDING. PROVIDE POUNDS TO GAGES REGULATOR AND MAKE CONNECTION TO EXISTING GAS LINE ENTERING THE BUILDING. FIELD VERIFY EXISTING LOAD AT EXISTING BUILDING FOR SIZING OF REGULATOR. LOCATE REGULATOR INSIDE EXISTING FENCED ENCLOSURE AT EXIST. METER CENTER.
4. EXISTING GAS METER AND SERVICE AT EXISTING SCHOOL TO BE REMOVED ONLY AFTER ALL NEW SERVICES ARE IN PLACE TO PROVIDE GAS FOR THE NEW SCHOOL, AS WELL AS THE EXISTING SCHOOL. EXISTING FENCED ENCLOSURE AT EXISTING GAS METER TO REMAIN AND SERVE AS THE PROTECTIVE ENCLOSURE FOR THE NEW GAS REGULATOR (SEE NOTE 3). REMOVE EXISTING METER / SERVICE AS PER HEALTH REQUIREMENTS.
5. PROVIDE NEW PLANNED EARTHQUAKE VALVE FOR THE NEW SCHOOL (SEE THIS SHEET AND THE EXISTING SCHOOL). FIELD VERIFY LINE SIZE AT EXISTING SCHOOL.
6. THE NEW GAS METER CENTER AND SERVICE AS WELL AS THE NEW 3" LINE TO BACKFEED EXISTING SCHOOL (SEE NOTE 3) SHALL BE COMPLETELY IN PLACE, STURDED-UP AND TESTED AND READY FOR IMMEDIATE CHANGE OVER PRIOR TO DISCONTINUING THE SERVICE TO THE EXISTING SCHOOL. NOTIFY THE ARCHITECT TWO WEEKS IN ADVANCE OF THE INTERRUPTION OF GAS SERVICE TO THE EXISTING SCHOOL. ALL COORDINATION WITH H.S.B.M. TO BE BY THIS CONTRACTOR.