

COOLING NOTES

THE AIR CONDITIONING EQUIPMENT SHALL CONSIST OF A "YORK" MODEL KED090A33 AIR HANDLING UNIT WITH 208/230V, 1 HP, DELIVERING 3000 CFM AT 0" S.E.P., 750 RPM, 1827 DRIVEN. CONDENSING UNIT SHALL BE "YORK" MODEL NO. KCD090A25, 75 TONS NOMINAL CAPACITY, 208/230V-30-60 HZ, (2) COMPRESSORS AT 32 F.L.A. EACH, 176 L.P.A. EACH. CONDENSER FAN MOTOR SHALL BE 230-1-60, 4.4 FLA, 1/2 HP. PROVIDE LINE VOLTAGE CONTROL KIT FOR O.T. OPERATION, AND ANTI-SHORT CYCLE TIMER. FURNISH A COOLING ONLY THERMOSTAT WITH SUB-BASE HAVING "COOL-OFF" AND "FAN ON-AUTO" SWITCHING.

PROVIDE AND INSTALL A COMPLETE SYSTEM OF REFRIGERANT PIPING, INSULATED WITH 3/8" THICK "ANMARLEX" RUBBER INSULATION. PIPING SHALL BE CLEANED AND CAPPED TYPE L HARD COPPER TUBING, SOLDERED WITH "SILLOS" OR SILVER BEARING SOLDER IN A NITROGEN ATMOSPHERE. PROVIDE 1/8" O.D. SUCTION LINE WITH OIL-LIFT TRAP AT THE AIR HANDLER. LIQUID LINE SHALL BE 1/2" O.D.

ALL DUCTWORK SHALL BE FABRICATED FROM 1" THICK FOIL FACED FIBERGLASS DUCTBOARD AS MANUFACTURED BY "OMENS CORP" OR APPROVED EQUAL. DUCTBOARD SHALL BE CUT, ASSEMBLED, SHAPED AND REINFORCED AS DIRECTED BY THE MANUFACTURER'S INSTRUCTIONS AND BY THE "SMACNA FIBROUS GLASS DUCT MANUAL". DUCT SIZES SHOWN ON THE DRAWINGS ARE INSIDE DIMENSIONS. "NASHUA" OR EQUAL METAL FACED "SMACNA" DUCT TAPE SHALL BE USED FOR ALL DUCTBOARD.

FLEXIBLE ROUND DUCT SHALL BE "ARJO", "CERTAINTY" OR EQUAL, INSULATED WITH VAPOR BARRIER. FLEXIBLE DUCT SHALL BE SUSPENDED FROM THE STRUCTURE ABOVE ON 32" CENTERS AND SHALL NOT LAY ON THE CEILING. ROUND FLEXIBLE DUCT SHALL ATTACH TO THE DUCTWORK WITH "SPIN-TITE" COLLARS. PROVIDE INSULATED ROUND-TO-SQUARE SHEETMETAL TRANSITION AT SQUARE DIFFUSERS.

CEILING DIFFUSERS (C.D.) SHALL BE "GRILLMASTER" NO. PAD-4-OB PANEL DIFFUSERS WITH OPENED BLADE DAMPER. CEILING DIFFUSERS IN TOILET ROOMS SHALL BE "GRILLMASTER" NO. RF-2-S-0, WITH DAMPER, 6" DIAMETER.

HEATING NOTES

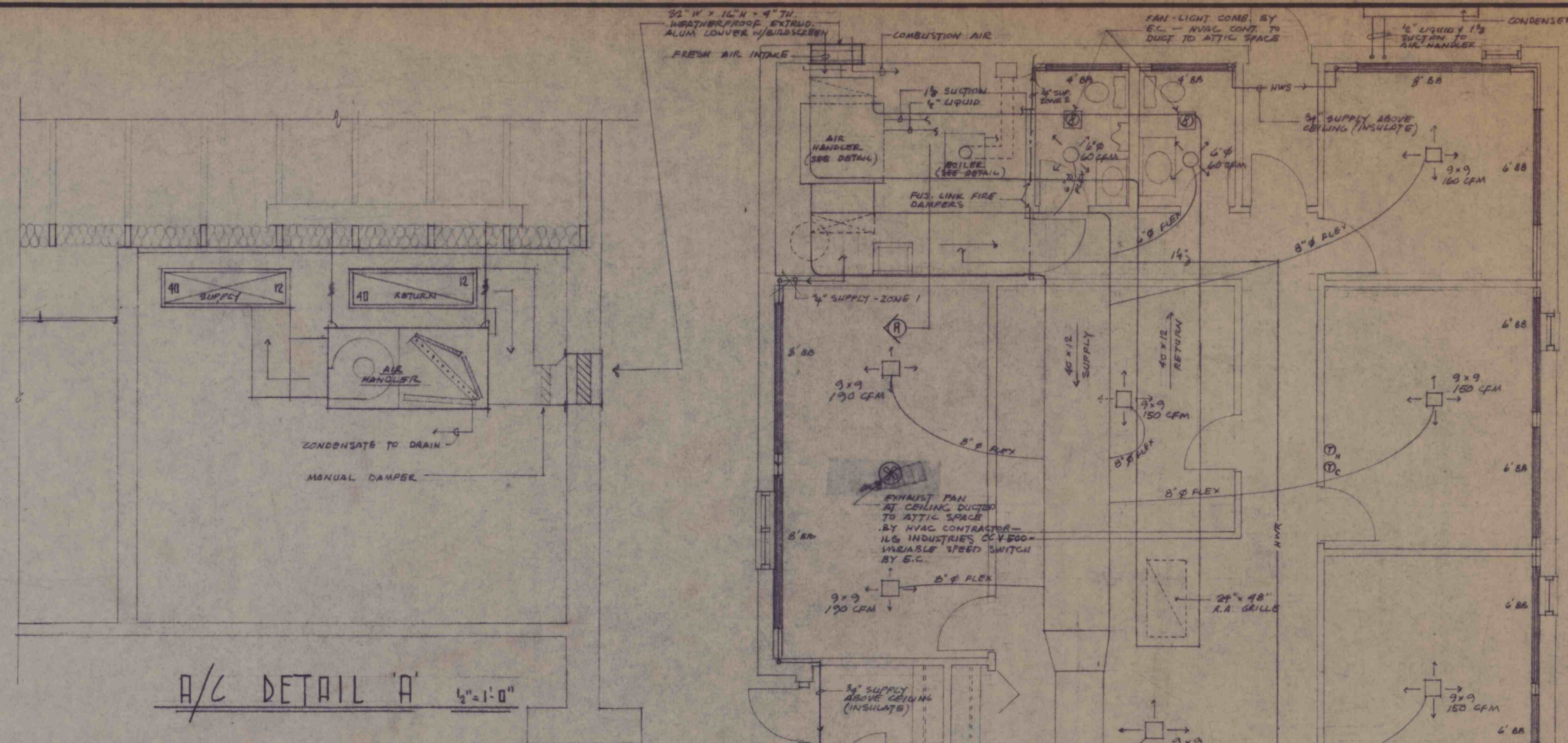
THE GAS-FIRED HOT WATER BOILER SHALL BE CAST-IRON SECTIONAL PACKAGED TYPE WITH ELECTRIC IGNITION AND VENT DAMPER, "BURBANK" MODEL P-206-H-EID OR APPROVED EQUAL. THE FACTORY MOUNTED CIRCULATOR ON THE RETURN SHALL BE REMOVED, AND (2) ZONE CIRCULATORS "BELL & GOSSETT" SERIES 100 OR EQUAL SHALL BE MOUNTED IN THE SUPPLY PIPING. PROVIDE "B & G" SA-1/4" FLOW CONTROL VALVES AT EACH PUMP DISCHARGE. PROVIDE IN-LINE AIR ELIMINATOR PIPED TO ASME RATED 18 GALLON EXPANSION TANK AT CEILING WITH 1/4" PRESSURE REDUCING VALVE SET AT 12 PSIG IN MAKE-UP WATER LINE.

FURNISH FOR EACH CIRCULATOR A "HENDERWELL" B832A1066 RELAY WITH T87F1859 ROOM THERMOSTAT FOR HEATING ONLY. ON A CALL FOR HEAT, THE RELAY SHALL START ITS RESPECTIVE CIRCULATOR AND ENERGIZE THE GAS VALVE THRU THE "X-X" TERMINALS WITH ADDITIONAL TRANSFORMER, AT720.

HOT WATER PIPING SHALL BE TYPE M HARD DRAWN COPPER TUBING WITH WROT FITTINGS, MADE UP WITH 1/4" 50 TON LEAD SOLDER. "SILENT GLIDE" OR EQUAL NYLON HANGERS SHALL BE USED. PIPING AT THE BOILER SHALL BE MADE UP OF STEEL PIPE nipples AND CAST IRON SCHEDULE FITTINGS TO BETTER SUPPORT THE CIRCULATORS. PROVIDE CLEVIS HANGERS AT EACH END OF CIRCULATORS, SUPPORTED BY 3/8" THREADED ROD ATTACHED TO STRUCTURE ABOVE WITH LOCKWASHERS.

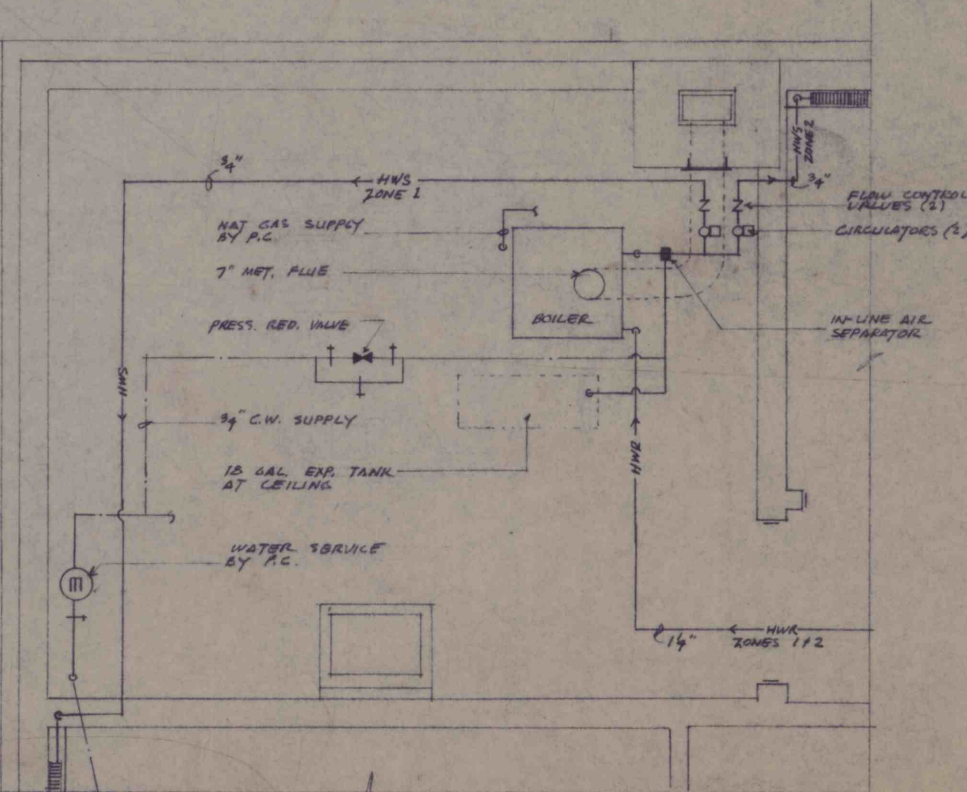
BASEBOARD HEATERS SHALL BE 3/4" COPPER ELEMENT TYPE WITH ALUMINUM FINS. ENCLOSURE SHALL BE STEEL WITH OPERABLE DAMPER. FINISH SHALL BE BAKED ENAMEL PAINT, BEIGE OR OFF-WHITE. PROVIDE ALL REQUIRED CORNERS, SPLICE KITS, WALL TRIM, ETC.

PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS IN THE HEATING PIPING. PIPING SHALL SLOPE UP SLIGHTLY IN THE DIRECTION OF FLOW TOWARD THE VENTS. PROVIDE DRAINS AT ALL LOW POINTS.



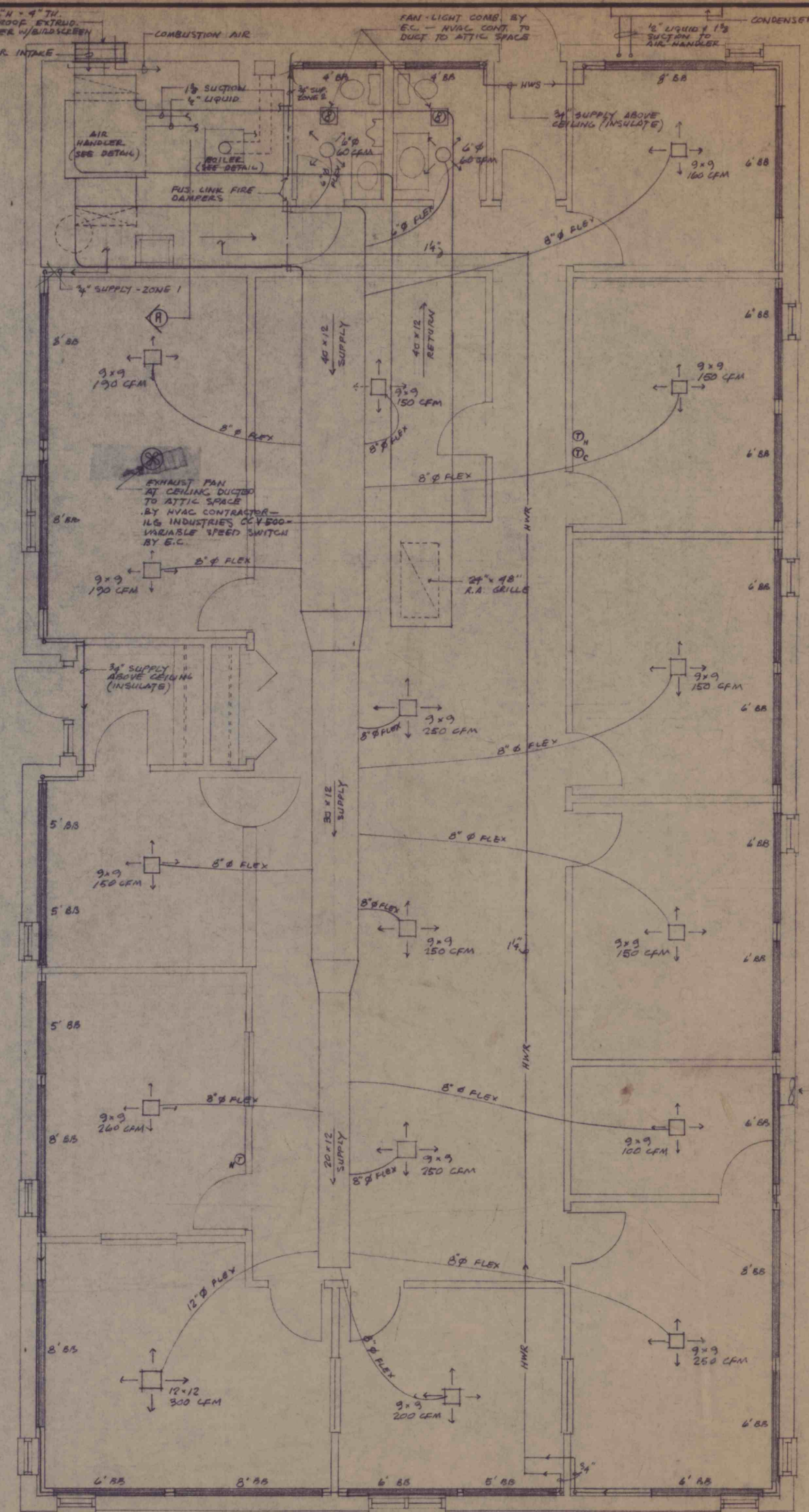
MECH. RM HEATING PLAN

1/2" = 1'-0"



FLOOR PLAN

1/4" = 1'-0"



FINAL CONTRACT DRAWINGS

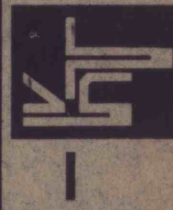
NEW OFFICE BUILDING
FOR P & N COAL CO.
WEST MAHONING ST.
PUNXSUTAWNEY PA.

MAR 15 1982
MAR 29 1982
APR 30 1982

HV
AC

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