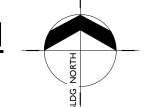


LINE UP THRU FLOOR FOR EQUIPMENT ON UPPER LEVEL-





PLAN NOTES:

- REFER TO SHEET P1.1 FOR CONTINUATION OF ALL WASTE, WATER, VENT AND CONDENSATE DRAIN PIPING; REFER TO SHEET M1.1 FOR CONTINUATION OF ALL
- DUCTWORK; AND REFER TO SHEET M1.3 FOR CONTINUATION OF ALL HYDRONIC PIPING.) REFER TO SHEET P1.2 FOR CONTINUATION OF ALL WASTE, WATER, VENT AND

CONDENSATE DRAIN PIPING; REFER TO SHEET M1.2 FOR CONTINUATION OF ALL

- DUCTWORK; AND REFER TO SHEET M1.3 FOR CONTINUATION OF ALL HYDRONIC PIPING. DROP WASTE LINE DOWN IN MECHANICAL ROOM TO BELOW FLOOR. REFER TO SHEET P1.1 AND TO LARGE SCALE FOUNDATION PLAN A/P2.1 FOR CONTINUATION. COORDINATE
- WASTE PIPING WITH OTHER PIPING, DUCTWORK, EQUIPMENT AND BUILDING STRUCTURE. 4) EXTEND 3" HEAT PUMP SUPPLY AND RETURN LINES THRU MECHANICAL ROOM WALL AND RUN TO EQUIPMENT ON MAIN LEVEL. PIPING TO BE ABOVE CLASSROOM CEILINGS. REFER TO SHEET M1.3 FOR ROUTING OF PIPING ON MAIN LEVEL TO EQUIPMENT. RISE 3" HEAT

PUMP SUPPLY LINE UP THRU FLOOR ABOVE FOR EQUIPMENT LOCATED ON UPPER LEVEL.

SCALE PLAN B/M2.1) CONNECT TO HEAT EXCHANGER AND RISE BACK UP IN MECHANICAL

- REFER TO LARGE SCALE PLAN B/M2.1 FOR CONTINUATION. 5) 4" HEAT PUMP SUPPLY PIPING DOWN FROM BOILERS ON UPPER LEVEL. (SEE LARGE
- PROVIDE AND INSTALL PLATE TYPE HEAT EXCHANGER AS SPECIFIED. CONNECT TO 4" HEAT PUMP SUPPLY LINE AND TO 4" COOLING TOWER SUPPLY LINE. COORDINATE PIPING WITH OTHER PIPING, DUCTWORK, EQUIPMENT AND BUILDING STRUCTURE. REFER TO BOILER / COOLING TOWER / CHILLER PIPING DIAGRAM ON SHEET M3.2 FOR TYPICAL PIPING CONNECTIONS.
- RISE 1-1/4" GAS LINE (2 PSI) UP THRU FLOOR ABOVE AND CONNECT TO BOILERS. REFER TO LARGE SCALE PLAN B/M2.1 FOR CONTINUATION.
- 8 PROVIDE AND INSTALL HEAT PUMP WITH 2" HIGH DRAIN PAN AS SPECIFIED. KEEP HEAT PUMP AS HIGH AS POSSIBLE. REFER TO DETAIL P/M3.1 FOR TYPICAL INSTALLATION AND
- PIPE CONNECTIONS. PROVIDE AND INSTALL BACK-FLOW PREVENTION DEVICE ON 3/4" COLD WATER LINE. RISE PIPING UP THRU FLOOR AND CONNECT TO BOILERS. DROP DRAIN LINE DOWN TO FLOOR
- SINK. REFER TO BOILER / COOLING TOWER / CHILLER PIPING DIAGRAM ON SHEET M3.2. 10) 6" ROOF DRAIN LINE DOWN IN CORNER OF MECHANICAL ROOM. COORDINATE WITH OTHER
- PIPING AND EQUIPMENT. RFER TO FOUNDATION PLAN SHEET P1.0 FOR CONTINUATION. 11) CONNECT 3/4" CONDENSATE DRAIN LINE TO HEAT PUMP WITH P-TRAP. REFER TO DETAIL
- P/M3.1 FOR TYPICAL PIPING CONNECTION. SLOPE DRAIN LINE AT 1/4" PER FOOT AND RUN TO NEAREST FLOOR DRAIN AS SHOWN. 2) CONNECT 3/4" DRAIN LINE TO SHEET METAL DRAIN PAN. REFER TO DETAIL P/M3.1 FOR
- TYPICAL PIPING CONNECTION. SLOPE DRAIN LINE AT 1/4" PER FOOT AND RUN TO NEAREST FLOOR DRAIN AS SHOWN.
- (14) RISE (2) 3" ROUND WATER HEATER VENTS UP THRU MECHANICAL ROOMS. OFFSET AWAY FROM ROOF DRAINS AND EXTEND VENT THRU ROOF WITH CONCENTRIC TYPE FITTING.

(13) RISE 2" VENT UP THRU FLOOR ABOVE. CONNECT TO 4" VTR AS SHOWN.

(15) DROP (2) 3/4" DRAIN LINES DOWN NEAR WATER HEATER AND EXTEND TO FLOOR DRAIN.

KEEP PIPING CLEAR OF EQUIPMENT AND OTHER PIPING.

(16) CONNECT 3/4" GAS LINE TO WATER HEATER WITH PRESSURE REGULATOR, SHUT-OFF VALVE AND FLEXIBLE HOSE. REFER TO DETAIL N/P3.1 FOR TYPICAL GAS LINE CONNECTION.

7) GAS FIRED WATER HEATER FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

- WATER HEATER TO BE COMPLETE WITH HEAT TRAP NIPPLES, MIXING VALVE, THERMAL EXPANSION TANK, SHUT-OFF VALVE AND RECIRCULATING PUMP. REFER TO DETAIL F/P3.2 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.
- 18 DROP 2-1/2" COLD WATER LINE DOWN AND PLACE MAIN SHUT-OFF AT 5'-0" ABOVE FLOOR. RISE PIPING BACK UP TO ABOVE TOILET ROOM CEILINGS. REFER TO LARGE SCALE PLANS ON SHEET P2.1 FOR CONTINUATION OF WATER LINES.
- (19) PROVIDE AND INSTALL SEPRATED COMBUSTION BOILERS AS SPECIFIED. MOUNT BOILERS ON 4" HIGH CONCRETE HOUSEKEEPING PAD. MAINTAIN REQUIRED CLEARANCES AROUND EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO BOILER PIPING DIAGRAM ON SHEET M3.2 FOR TYPICAL PIPING CONNECTIONS.
- (20) PROVIDE AND INSTALL LOW LOSS HEADER AS SPECIFIED. CONNECT HEAT PUMP LOOP AND BOILER LOOP PIPING TO HEADER AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT PROVIDED.
- 21) FLOOR MOUNTED DIAPHRAGM TYPE EXPANSION TANK. REFER TO BOILER / COOLING TOWER / CHILLER PIPING DIAGRAM ON SHEET M3.2 FOR TYPICAL PIPING CONNECTIONS.
- (22) RISE 4" ROUND INTAKE VENT UP FROM EACH BOILER. EXTEND THRU ROOF WITH GOOSENECK ABOVE ROOF.
- (23) RISE 6" ROUND EXHAUST VENT UP FROM EACH BOILER. EXTEND THRU ROOF WITH WEATHER CAP.
- (24) DISCONNECT AND REMOVE EXISTING 4" CHILLED WATER PIPING BELOW GRADE AND THRU
- FOUNDATION WALL. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING. DISCONNECT AND REMOVE EXISTING GAS LINE IN BOILER ROOM AND BELOW GRADE BACK TO EXISTING METER. (REFER TO EXISTING COURTYARD MECH. DEMO PLAN ON
- SHEET M1.1) ALL EXISTING GAS TRAIN COMPONENTS TO REMAIN. (26) PROVIDE PRESSURE REGULATOR IN 2" GAS LINE (2 PSI). DROP NEW 2-1/2" GAS LINE DOWN AND CONNECT TO EXISTING GAS TRAIN. PROVIDE NEW FITTINGS AS REQUIRED FOR
- CONNECTION. 27 PROVIDE IN-LINE FAN AS SPECIFIED AND CONNECT TO NEW ROUND COMBUSTION AIR DUCT. PROVIDE DUCT TRANSITIONS AS REQUIRED FOR CONNECTION. NEW FAN TO BE INTERLOCKED WITH BOILER OPERATION TO SUPPLY OUTSIDE AIR DURING HOURS OF
- OPERATION. COORDINATE FAN LOCATION WITH EXISTING BOILER, FLUE AND PIPING. 28) CONNECT NEW 2-1/2" COLD WATER LINE TO EXISTING 2-1/2" (OR LARGER) COLD WATER LINE NEAR CEILING OF MECHANICAL ROOM. PROVIDE SHUT-OFF VALVE IN NEW LINE.
- FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING WATER PIPING. (29) PLUMBING CONTRACTOR TO PROVIDE AND INSTALL BACK-FLOW PREVENTION DEVICE ON 1-1/4" COLD WATER LINES. REFER TO DETAIL G/P3.1 FOR TYPICAL INSTALLATION. RUN
- DRAIN LINE TO NEAREST FLOOR DRAIN. (30) ALL CLASSROOM AND LAB SINK TO BE COMPLETE WITH VACUUM BREAKERS ON HOT AND



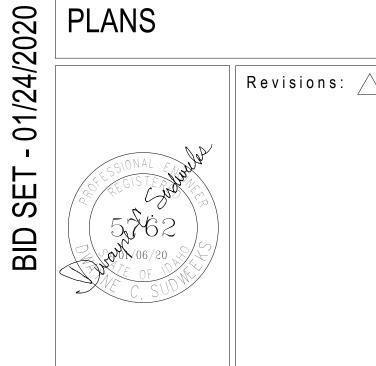
COLD WATER LINES. REFER TO SHEET P1.1 AND P1.2.

Project:

POCATELLO HIGH SCHOOL -ADDITION & RENO.

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LARGE SCALE MECHANICAL PLANS



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M2.1

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01/24/2020