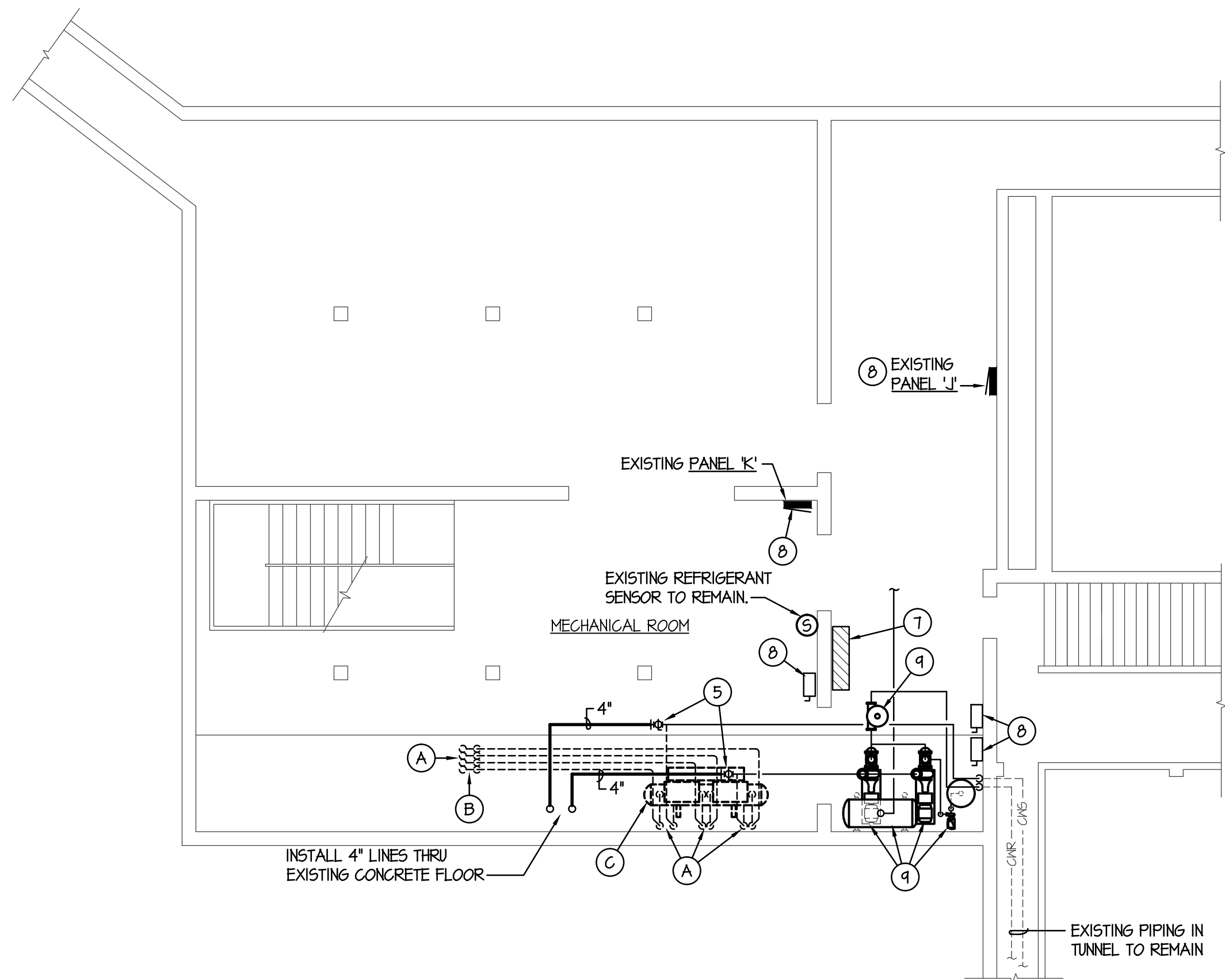
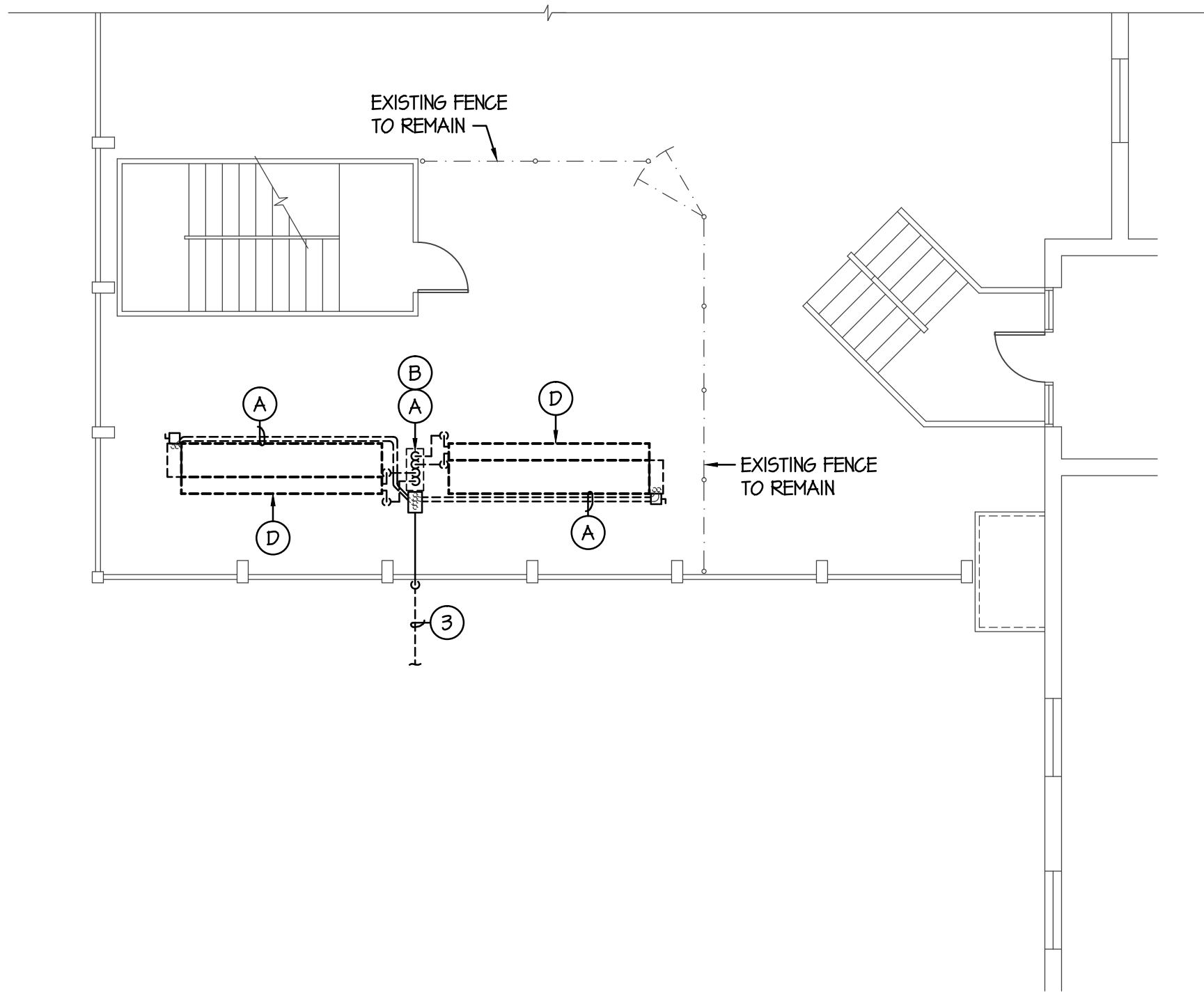


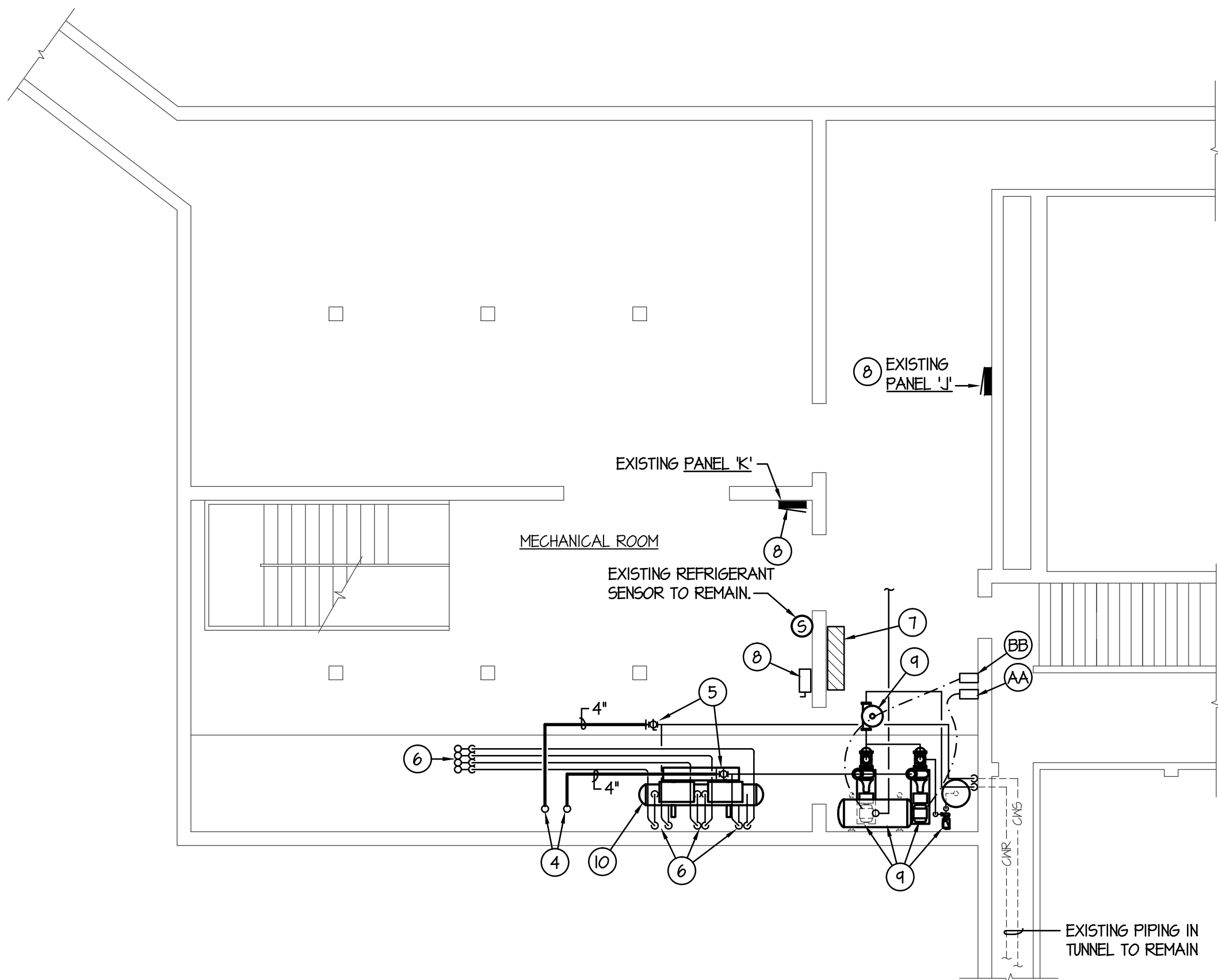
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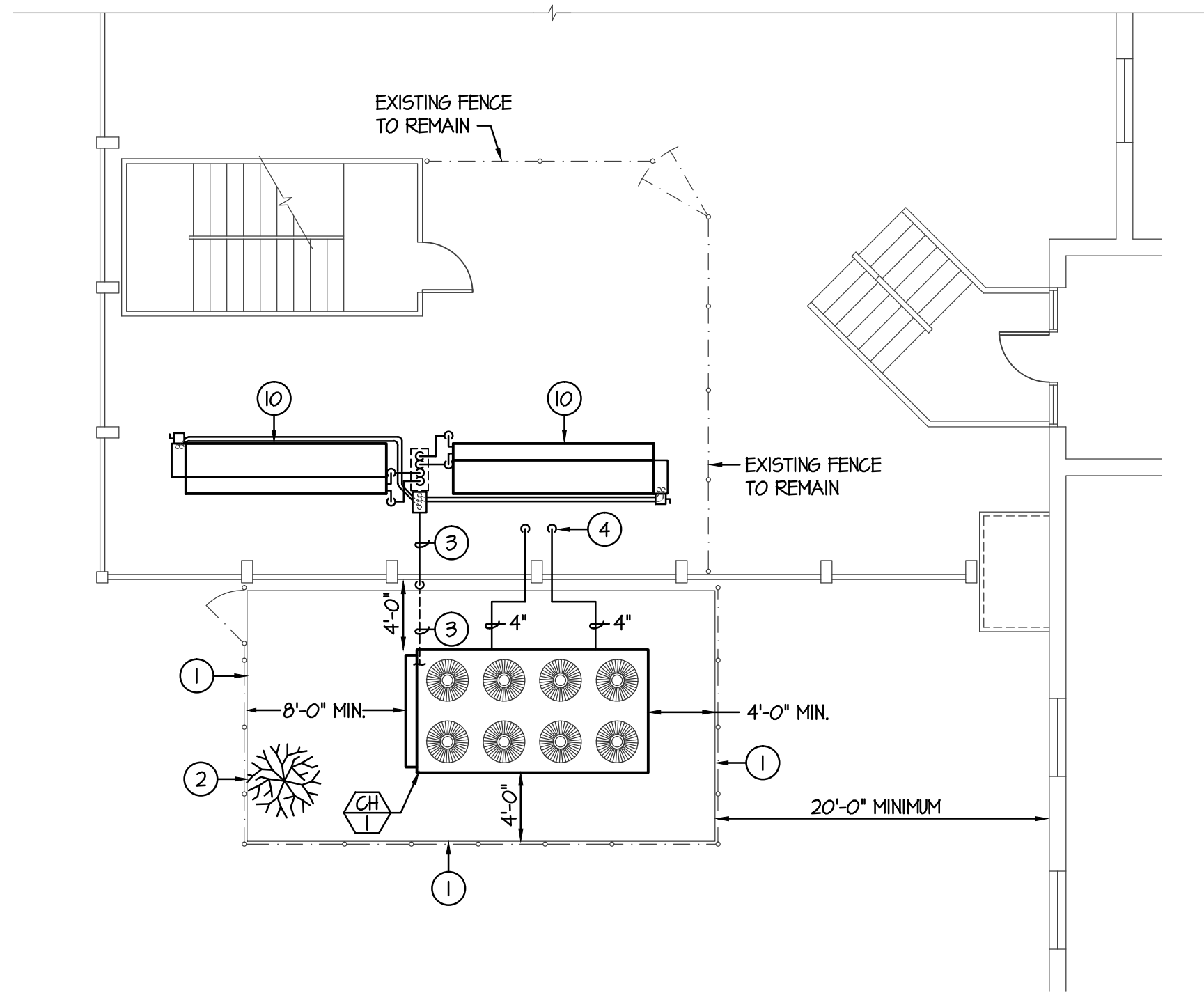
MECHANICAL ROOM PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



COURTYARD PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



MECHANICAL ROOM PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"



COURTYARD PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

PLAN NOTES:

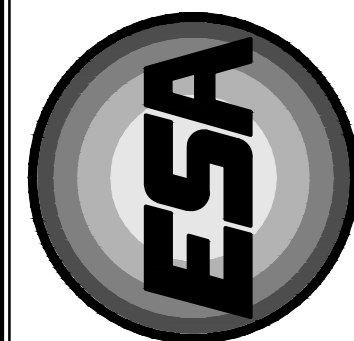
- 1 CONCRETE PAD AND CHAIN LINK FENCE BY GENERAL CONTRACTOR. REFER TO SHEET A-1.
- 2 EXISTING TREE TO BE RELOCATED BY GENERAL CONTRACTOR. REFER TO SHEET A-1.
- 3 REFER TO ELECTRICAL DRAWINGS FOR COORDINATE OF EQUIPMENT AND PIPING WITH EXISTING CONDUIT.
- 4 CORE DRILL EXISTING CONCRETE FLOOR FOR NEW 4" CHILLED WATER LINES AND POWER CONDUIT TO DROP DOWN INTO MECHANICAL ROOM BELOW. PROVIDE SHEET METAL FLANGE AROUND PIPING AND SEAL WATER TIGHT. CORE DRILL AS REQUIRED THRU DECORATIVE BLOCK WALL FOR NEW PIPING. FIELD VERIFY EXISTING CONDITIONS AND PLACE PIPING TO PASS THRU (1) CONCRETE BLOCK ONLY. ALL NEW EQUIPMENT AND PIPING TO BE INSTALLED AS MUCH AS POSSIBLE BEFORE EXISTING EQUIPMENT IS SHUT-DOWN AND PIPING IS REMOVED TO MINIMIZE SHUT-DOWN TIME.
- 5 CONNECT NEW 4" CHILLED WATER SUPPLY AND RETURN LINES TO CORRESPONDING 6" LINES ABOVE EXISTING CHILLER. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING. OPEN EXISTING SHUT-OFF VALVE AFTER NEW CHILLER IS OPERATIONAL AND CLOSE EXISTING SHUT-OFF VALVE TO EXISTING CHILLER.
- 6 ALL EXISTING CONDUIT AND REFRIGERANT PIPING THRU FLOOR AND TO EXISTING CHILLER TO REMAIN IN OPERATION AS LONG AS POSSIBLE TO MINIMIZE SHUT-DOWN TIME. PROTECT PIPING AND CONDUITS INSTALLATION OF NEW EQUIPMENT AND PIPING.
- 7 EXISTING CONTROL PANEL TO REMAIN. PROVIDE NEW JOHNSON CONTROLS AS REQUIRED TO OPERATE NEW REMOTE CHILLER. FIELD VERIFY EXISTING CONTROLS AND RELAYS IN PANEL. NEW EQUIPMENT AND RELAYS ARE TO BE INSTALLED AS MUCH AS POSSIBLE BEFORE EXISTING EQUIPMENT AND RELAYS ARE REMOVED TO MINIMIZE SHUT-DOWN TIME.
- 8 EXISTING EQUIPMENT DISCONNECT AND/OR PANEL TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
- 9 EXISTING AIR SEPARATOR, CIRCULATING PUMPS, CHEMICAL FEED TANK AND EXPANSION TANK TO REMAIN. PROTECT ALL PIPING AND EQUIPMENT DURING CONSTRUCTION.
- 10 DISCONNECT EXISTING EQUIPMENT AND ABANDON IN PLACE UNDER BASE BID CONDITIONS.

ALT. BID #1 NOTES:

- A DISCONNECT AND REMOVE ALL EXISTING REFRIGERANT PIPING AND CONTROL WIRING WHICH SERVE EXISTING CONDENSERS. REMOVE FROM COURTYARD, DOWN THRU CONCRETE FLOOR, AND IN MECHANICAL ROOM BELOW. EXISTING CIRCUIT OUT TO LAMB AREA IS TO REMAIN. OWNER TO CAPTURE AND STORE ALL EXISTING R-22 REFRIGERANT. COORDINATE WORK SCHEDULE WITH OWNER. ALL NEW EQUIPMENT AND PIPING TO BE INSTALLED AS MUCH AS POSSIBLE BEFORE EXISTING EQUIPMENT IS SHUT-DOWN AND PIPING IS REMOVED TO MINIMIZE SHUT-DOWN TIME.
- B DISCONNECT AND REMOVE EXISTING METAL PIPE COVER IN COURTYARD; REFER TO SHEET A-1 FOR PATCHING OF EXISTING OPENING THRU CONCRETE SLAB.
- C DISCONNECT AND REMOVE EXISTING CHILLER FROM EXISTING REFRIGERANT PIPING, POWER WIRING AND CONDUITS AND CONTROL WIRING. ALL NEW EQUIPMENT AND PIPING TO BE INSTALL AS MUCH AS POSSIBLE BEFORE EXISTING EQUIPMENT IS SHUT-DOWN AND PIPING IS REMOVED TO MINIMIZE SHUT-DOWN TIME.
- D DISCONNECT AND REMOVE EXISTING VERTICAL AIR COOLED CONDENSING UNIT, EXISTING REFRIGERANT PIPING, AND EXISTING CONTROL WIRING. ALL NEW EQUIPMENT AND PIPING TO BE INSTALLED AS MUCH AS POSSIBLE BEFORE EXISTING EQUIPMENT IS SHUT-DOWN AND PIPING IS REMOVED TO MINIMIZE SHUT-DOWN TIME.

ALT. BID #2 NOTES:

- AA PROVIDE AND INSTALL NEW VFD FOR EXISTING CHILLED WATER CIRCULATING PUMP. EXISTING PUMP HAS 20 HP (208/60/3) MOTOR. SEE ELECTRICAL.
- BB PROVIDE AND INSTALL NEW VFD FOR EXISTING CHILLED WATER CIRCULATING PUMP. EXISTING PUMP HAS 25 HP (208/60/3) MOTOR. SEE ELECTRICAL.

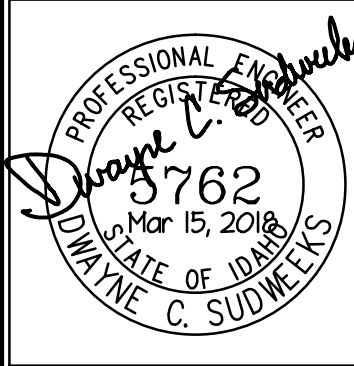


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DPW PROJECT #18223 - CHILLER REPLACEMENT FOR:
LIBERAL ARTS BUILDING
IDAHO STATE UNIVERSITY POCATELLO, IDAHO

PROJECT:
SHEET TITLE:
MECHANICAL PLANS



DRWN. BY:	OKD. BY:
M. JENSEN	D. SUDWEEKS
JOB NO.	DATE:
17054	FEB. 2018

SHEET:
M-1
OF: SIX