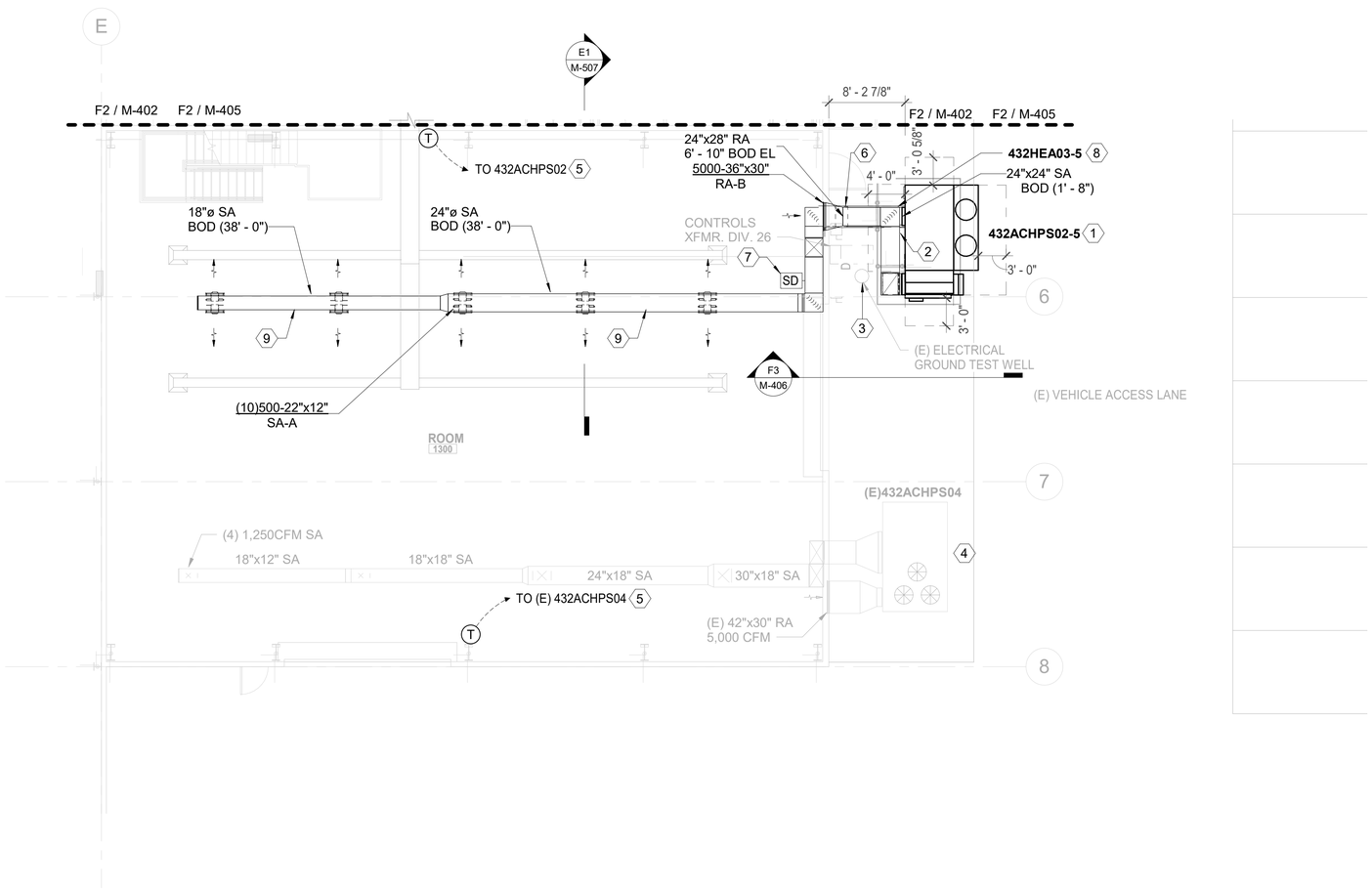


E2 / M-403 MECHANICAL ENLARGED 1ST FLOOR HIGH BAY NEW CONSTRUCTION PLAN - DUCTWORK

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

1/8" = 1'-0"

KEYED NOTES

8. FURNISH AND INSTALL NEW DUCT-MOUNTED ELECTRIC RESISTANCE HEATING COIL.

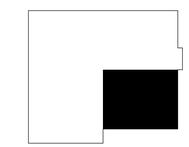
9. ROUTE NEW DUCTWORK IN HIGH BAY ABOVE ABOVE EXISTING LIGHTS AND BRIDGE CRANE AND BELOW EXISTING DUCTWORK.

GENERAL NOTES

1. REFER TO M-001 FOR MECHANICAL ABBREVIATIONS, LEGEND, SYMBOLS, AND GENERAL NOTES.
2. COMPONENTS SHOWN HALF-TONE ON THIS DRAWING ARE ITEMS TO REMAIN; BOLD COMPONENTS ARE NEW. REFER TO MD403 FOR DEMOLITION OF EXISTING DUCTWORK AFTER NEW DUCTWORK IS INSTALLED.
3. DASHED REGIONS AROUND EQUIPMENT INDICATE CLEARANCE REQUIRED FOR EQUIPMENT ACCESS AND MAINTENANCE.
4. INSTALL NEW 432ACHPS02 CLEAR OF EXISTING VEHICLE ACCESS LANE AND EXISTING, EXTERIOR FACILITY DOORS AS INDICATED. COORDINATE REQUIRED LOCATION FOR ACHPS UNIT WITH SUBCONTRACTOR RESPONSIBLE FOR INSTALLING CONCRETE PAD.
5. REFER TO STRUCTURAL DRAWINGS FOR DUCT SUPPORT AND EQUIPMENT ANCHORAGE DETAILS.
6. HIGH BAY CONTAINS AN EXISTING BRIDGE CRANE THAT SPANS THE ENTIRE HIGH BAY AREA AND IS INSTALLED AT APPROXIMATELY 34' AFF. ALL NEW DUCTWORK MUST NOT INTERRUPT THIS PATH OF TRAVEL.
7. FURNISH AND INSTALL NEW BOLLARDS AROUND 432ACHPS02. REFER TO C-101 AND C-502.
8. NEW DUCTWORK MUST BE INSTALLED PRIOR TO DEMOLITION OF EXISTING DUCTWORK TO LIMIT DURATION OF SYSTEM OUTAGE.
9. INSTALL MANUAL VOLUME DAMPER AT EACH SUPPLY AIR DIFFUSER, IN BRANCH DUCTWORK IMMEDIATELY UPSTREAM OF DIFFUSER CONNECTION.

KEYED NOTES

1. FURNISH AND INSTALL NEW PACKAGED HEAT PUMP UNIT AT GRADE WITH NEW CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL B1 / S-515 FOR CONCRETE PAD DETAILS AND B1 / S-514 FOR UNIT ANCHORAGE TO NEW CONCRETE PAD.
2. ROUTE DUCTWORK TO FURNISH AND INSTALL MFR'S RECOMMENDED MAINTENANCE CLEARANCES. COORDINATE DUCTWORK LAYOUT WITH SUBCONTRACTOR RESPONSIBLE FOR COLUMN DUCTWORK SUPPORTS. STACK RETURN DUCT ON TOP OF SUPPLY DUCT THROUGH WALL.
3. MAINTAIN MINIMUM 3'-0" CLEAR NORTH AND SOUTH OF EXISTING ELECTRICAL GROUND TEST WELL AND MINIMUM 6'-0" CLEAR OVERHEAD.
4. FURNISH AND INSTALL NEW TRANE BCI-R BACnet COMMUNCATION MODULE IN EXISTING 432ACHPS04 TRANE VOYAGER (RTRM CONTROL MODULE) TO ACCOMMODATE CONNECTION OF EXISTING UNIT TO NEW ALC BAS VIA BACnet/MSTP AS SHOWN ON CONTROL DRAWINGS. REFER TO M-703.
5. REPLACE EXISTING 7-WIRE WALL THERMOSTAT WITH NEW 10K TYPE II BARE SENSOR AND CONNECT TO EXISTING 432ACHPS04 TRANE VOYAGER.
6. FURNISH AND INSTALL NEW UNDERGROUND CONDENSATE SOAK PIT IN THIS LOCATION, REFER TO DETAIL D6 ON M-505. EXTEND 432ACHPS02 CONDENSATE TO THIS LOCATION, REFER TO DETAIL D3 ON M-505.
7. EXISTING, RE-USED, SD FURNISHED INSTALLED AND WIRED BY CONTROLS SUBCONTRACTOR. REFER TO MD404. WIRE DEVICE TO EXISTING ADDRESSABLE FIRE ALARM CONTROL LOOP IN SECOND FLOOR OFFICE AREA (REFER TO M-405) AND WIRE FIRE ALARM CONTROL LOOP TO 432ACHPS02 SUPPLY FAN MOTORS. INSTALL DEVICE 48" AFF.



KEY PLAN

Sheet Title

MECHANICAL ENLARGED 1ST FLOOR HIGH BAY NEW CONSTRUCTION PLAN - DUCTWORK

Dwg. No.

PLM2021-0432-0014D

Sht. No.

M-403