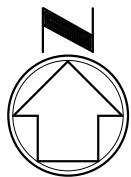


E2
M-411

MECHANICAL ENLARGED 1ST FLOOR CHILLER YARD PLAN

SCALE: 1/2" = 1'-0"

0 1' 2' 4'
1/2" = 1'-0"



KEYED NOTES

1. INSTALL SELECT PIPING AND LINE-SIZE ISOLATION VALVES WITHIN FIRST SYSTEM SHUTDOWN AT BEGINNING OF CONSTRUCTION PROJECT. REFER TO M-002.
2. EXISTING CONCRETE PAD TO BE EXTENDED AS PART OF THIS PROJECT TO SUPPORT NEW MECHANICAL EQUIPMENT INSTALLED OUTSIDE OF EXISTING SHELTER. NEW SHELTER TO BE INSTALLED OVER NEW CONCRETE PAD EXTENSION. REFER TO S-401 AND A-401 FOR ADDITIONAL REQUIREMENTS.
3. FURNISH AND INSTALL NEW WATER-COOLED CHILLER, PIPING, AND APPURTENANCES. INSTALL CHILLER ON EXISTING CONCRETE PAD. LOCATE CHILLER ACCESSORIES AS INDICATED. REFER TO F1 / M-506 FOR REQUIRED CHILLER PIPING, VALVES, AND ACCESSORIES.
4. REFER TO S-514 FOR CHILLER ANCHORAGE.
5. EQUIPMENT INCLUDING ALL PIPING, UTILITIES, AND APPURTENANCES IS EXISTING TO REMAIN. PROTECT IN PLACE FOR DURATION OF CONSTRUCTION.
6. FURNISH AND INSTALL NEW ALC DDC CONTROLLERS AND G5CE ROUTER IN NEMA 4X RATED ENCLOSURE TO SERVE ALL HVAC EQUIPMENT IN PROJECT SCOPE. DAISY-CHAIN NEW 432DDCP01 WITH 432DDCP02 AND FURNISH AND INSTALL NEW HOME-RUN NETWORK CONNECTION TO EXISTING YELLOW NETWORK SWITCH IN ROOM 1000 AT GRIDLINE 4-C. REFER TO M-700 SERIES CONTROL DRAWINGS FOR ADDITIONAL CONTROLS REQUIREMENTS.
7. 432TCH01-1. FURNISH AND INSTALL NEW CHEMICAL SHOT FEEDER TANK. REFER TO M-505 FOR INSTALLATION DETAILS.
8. FURNISH AND INSTALL NEW UNDERGROUND CONDENSATE SOAK PIT, REFER TO D6 / M-505 AND C6 / M-503. EXTEND AUTOMATIC AIR VENT AND MAKEUP WATER BFP DRAINS TO THIS LOCATION.
9. REFER TO F1 / M-506 FOR PIPELINE ACCESSORIES REQUIRE AT PUMPS.
10. REFER TO F4 / S-514 FOR AIR SEPARATOR INSTALLATION DETAIL.
11. CHILLER ELECTRICAL DISCONNECT. REFER TO E-401 AND COORDINATE WITH CHILLER INSTALLATION.
12. EXIST GROUND TESTING WELL TO REMAIN AS IS.
13. FURNISH AND INSTALL HEAD PRESSURE CONTROL VALVE ON VERTICAL PIPING. REFER TO M-506.
14. FURNISH AND INSTALL 3/4" NORMALLY-CLOSED 2-WAY ELECTRONIC BYPASS LCW CONTROL VALVE FOR LCW FREEZE PROTECTION.
15. FURNISH AND INSTALL INLINE DUAL TURBINE CHILLED WATER FLOW METER, ONICON F-1200. REFER TO M-506. INSTALL FLOW METER IN ACCORDANCE WITH MFR'S UPSTREAM AND DOWNSTREAM CLEARANCE RECOMMENDATIONS.

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.
3. DASHED REGIONS AROUND EQUIPMENT INDICATE CLEARANCE REQUIRED FOR EQUIPMENT ACCESS AND MAINTENANCE.
4. INSTALL ALL NEW CONTROL PANELS ON NEW, FREE-STANDING UNISTRUT SUPPORT STANDS. REFER TO S-512. FURNISH AND INSTALL REQUIRED ELECTRICAL CLEARANCES PER NEC.
5. CROSS-REFERENCE THIS DRAWING WITH M-412 SECTION VIEWS TO UNDERSTAND 3D ARRANGEMENT OF ELEMENTS WITHIN THIS AREA.
6. NEW RCHS CHILLER, PCHW PUMPS, AND CHILLED WATER SYSTEM APPURTENANCES IN EQUIPMENT YARD ARE EXPOSED TO OUTDOOR ELEMENTS ON TWO OF FOUR SIDES.

INSTALL IN FUTURE PROJECT NEW WALL(S) ON CHILLER SHELTER TO QUALIFY CHILLER INSTALLATION AREA AS AN INDOOR SPACE SUITABLE FOR EQUIPMENT UL LISTED ONLY FOR INDOOR INSTALLATION.
7. EXISTING FIRE SPRINKLER PIPING SERVING EXISTING EQUIPMENT AREA TO REMAIN. INSTALL NEW EQUIPMENT TO AVOID DISTURBING EXISTING FIRE SPRINKLER PIPING AND HEADS. INSTALL NEW FIRE SPRINKLER PIPING AND SPRINKLER HEADS AS INDICATED.
8. REFER TO M-001 AND SPEC. 21 00 00 FOR FIRE SPRINKLER DELEGATED DESIGN SUBMITTAL INFORMATION.

KEY PLAN

Des: C. DERKS	10/6/2021
Dwn: E. FERNANDEZ	10/6/2021
Chk: J. ALLEN	10/6/2021
PFN: 432-2021-001	Software: REVIT 2020

Sheet Title
MECHANICAL ENLARGED 1ST FLOOR CHILLER YARD PLAN - PIPING

Dwg. No.
PLM2021-0432-0019D

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M-411