2020 MULTISTACK CHILLER REPLACEMENT

SHEET DESCRIPTION

M0.1 TITLE SHEET & GENERAL MECHANICAL INFORMATION

M1.1 LOWER LEVEL CHILLER SYSTEM MECHANICAL PLAN

M1.2 LIBRARY MECHANICAL ROOM BOILER PLAN, BOILER SCHEMATIC AND SCHEDULES

M3.1 CHILLER SYSTEM PIPING SCHEMATIC AND SCHEDULES

MECH CODE COMPLIANCE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF SYSTEM IN COMPLIANCE WITH 2015 MICHIGAN MECHANICAL CODE (MMC), ASHRAE 90.1-2013 ENERGY STANDARD.

MECHANICAL (DIVISION 23) SPECIFICATION:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF SYSTEM IN COMPLIANCE WITH 2015 MICHIGAN MECHANICAL CODE (MMC), ASHRAE 90.1-2013 ENERGY STANDARD.

MECHANICAL EQUIPMENT IDENTIFICATION: PROVIDE ENGRAVED PLASTIC LAMINATE LABEL FOR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT & EACH OPERATIONAL DEVICE. LETTERS TO BE A MINIMUM OF ½ "HIGH.

PUMPS: PROVIDE PIPE MARKERS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

HVAC ABBREVIATIONS

HVAC PIPING LEGEND

GENERAL NOTES:

1. CONTRACTOR SHALL INCLUDE ALL APPLICABLE SALES AND USE TAXES FOR MATERIAL AND EQUIPMENT PROVIDED AS REQUIRED.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING OPENINGS THROUGH ANY ROOFS, CEILINGS, AND WALLS FOR THEIR VENT AND PIPING SYSTEMS; OVERSIZE OPENINGS WHERE NECESSARY TO ACCOUNT FOR THERMAL EXPANSION. UTILIZE Pipe ROOF JACK FOR ROOF PIPE PENETRATIONS THROUGH ROOF AND SEAL WEATHERTIGHT.

3. ROUTE ALL NEW PIPE AT RIGHT ANGLES TO WALLS, INSTALL HORIZONTAL PIPE DEAD LEVEL UNLESS IDENTIFIED OTHERWISE.

4. CONTRACTOR SHALL FURNISH & INSTALL HANGERS AND BUILDING ATTACHMENTS AS REQUIRED FOR ALL NEW PIPING SYSTEMS.

5. CONTRACTOR SHALL PROVIDE CLOSET-OUT DOCUMENTS TO OWNER THAT INCLUDE TWO (2) SETS OF OPERATING, MAINTENANCE AND WARRANTY MANUALS AND AS-BUILT DRAWING MARK-UPS.

6. PROVIDE 1 YEAR WARRANTY ON WORKMANSHIP.

7. PROJECT DELIVERY IS 'MECHANICAL PRIME' CONTRACT BETWEEN CONTRACTOR AND OWNER; MECHANICAL CONTRACTOR SHALL BE INCLUDE ALL CONSTRUCTION, ACCESS, SCHEDULING AND STAFFING (INCLUDING SUBCONTRACTOR WORK FORCE) WITH OWNER PRIOR TO COMMENCING WITH WORK.

8. PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.

9. MECHANICAL EQUIPMENT IDENTIFICATION: PROVIDE ENGRAVED PLASTIC LAMINATE LABEL FOR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT & EACH OPERATIONAL DEVICE. LETTERS TO BE A MINIMUM OF ½ "HIGH.

PUMPS: PROVIDE PIPE MARKERS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

HEATING HOT WATER & CHILLED WATER PIPING: 2" AND SMALLER: SCH 40 STEEL PIPE, ASTM A53, WITH SCREWED JOINTS AND 150LB MALLEABLE IRON FITTINGS OR TYPE L COPPER TUBE WITH SOLDERED OR BRAZED JOINTS AND FITTINGS. FOR NPS 2-1/2" AND LARGER: SCH 40 WELDED JOINTS AND MALLEABLE IRON FITTINGS OR風格 COPPER TUBE WITH SOLDERED OR BRAZED JOINTS AND FITTINGS. FOR NPS 2-1/2" AND LARGER WITH LEVEL HANDLE, STAINLESS STEEL STEM AND BUNA-N OR EPDM SEAT.

HVAC ABBREVIATIONS