



A. CLOSELY COORDINATE INSTALLATION AND ROUTING OF CHILLED WATER PIPING WITH ALL OTHER TRADES. FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS. TYPICAL.

B. REFER TO CHILLER DETAIL FOR PIPING CONNECTION TO HYDRONIC REQUIREMENTS.

C. PROVIDE SAFE, ADEQUATE AND PRACTICAL ACCESS TO ALL APPLIANCES AND DEVICES ABOVE THE CEILING AND BEHIND WALLS FOR COMPLETE INSPECTION, TESTING AND MAINTENANCE WITHOUT DISTURBING ANY BUILDING SYSTEM OR DEVICE EXCEPT FOR ACCESS DOORS AND/OR REMOVAL OF CEILING PANELS.

D. ALL DUCTWORK PENETRATIONS OF RATED WALL SHALL BE PROTECTED BY AN APPROVED U/L LISTED FIRE DAMPER AND/OR COMBINATION SMOKE/FIRE DAMPER AS APPROPRIATE. ALL PIPING AND CONDUIT PENETRATIONS OF THE WALL SHALL BE PROTECTED BY AN APPROVED U/L LISTED FIRE RATING EQUIVALENT TO THE WALL FIRE RATING KEY ON THIS SHEET.

1. WALL MOUNTED MINI SPLIT. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. ROUTE REFRIGERANT PIPING AND PUMPED CONDENSATE DRAIN TO ROOF AS SHOWN. COORDINATE FINAL LOCATION IN FIELD. CONDENSATE DRAIN INCLUDE TRAP OR IN-LINE CHECK VALVE PER FPC 314.2.4.1. CONDENSATE PIPING SHALL BE INSULATED COPER.
2. 2" CHW&SP PIPING (COPPER) FROM HASKINS RF CHILLER (CH-MRI) TO EQUIPMENT ROOM. PROVIDE ISOLATION BALL VALVE. COORDINATE EXACT ROUTING AND LOCATION OF RISERS WITH MECHANICAL EQUIPMENT. DUCTWORK, LOUVERS, AND ALL OTHER TRADES. SLEEVE AND CAULK WALL PENETRATIONS. PROVIDE 1" MIN. INSULATION. PROVIDE ISOLATION BALL VALVES AT HIGHEST POINTS IN THE PIPING TO ALLOW AIR TO VENT PIPING PROVIDED CLOSED CELL FOAM INSULATION WITH ALL SERVICE JACK (INDOOR) REQUIREMENTS. OUTDOOR PIPING. PROVIDE ISOLATION BALL VALVES AT IFP CONNECTION. SEE SIEMENS MRI DOCUMENTS FOR PIPING REQUIREMENTS. PIPING DIAGRAM. REQUIRED PIPING ACCESSORIES, AND INSULATION REQUIREMENTS. CHILLED WATER SYSTEM TO BE CHARGED WITH 35-38% ETHYLENE GLYCOL MIXTURE.
3. ROUTE CHILLED WATER PIPING THROUGH BAR JOIST WEBBING AND TIGHT TO BOTTOM OF DECK.
4. 2" CHW&SP PIPING UP TO HASKINS RF CHILLER (CH-MRI) ON ROOF. SEAL ROOF PENETRATIONS AS REQUIRED.
5. FILTER FLOWMETER KIT. PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE FILTER BYPASS LOOP AS SHOWN.
6. MRI OXYGEN SENSOR WITHIN MRI SCAN ROOM AND REMOTE MONITOR OUTSIDE OF MRI SCAN ROOM. COORDINATE FINAL LOCATION OF OXYGEN SENSOR AND REMOTE MONITOR IN FIELD. INSTALL PER MANUFACTURERS REQUIREMENTS. PROVIDE REMOTE MONITOR. PROVIDE POWER REQUIREMENTS. SENSOR SHALL INCLUDE AUDIBLE AND VISUAL ALARM.
7. WALL MOUNTED MANUAL SWITCH AND ALARM IN BOTH MRI SCAN ROOM AND CONTROL ROOM. ALARM SHALL BE AUDIBLE/VISUAL AND SHALL ENERGIZE EXHAUST FAN EF-MRI AND CLOSE MOTORIZED DAMPER IN RETURN AIR DUCT DESCRIBED IN SEQUENCE OF OPERATION.
8. PROVIDE 8" QUENCH VENT EXHAUST FROM MAGNET CONNECTION TO ROOF THROUGH QUENCH VENT ROOF CURB. QUENCH VENT TO BE 3MM THICK ALUMINUM. PROVIDE 1" MIN. INSULATION. PROVIDE ISOLATION BALL VALVE. COORDINATE EXACT ROUTING WITH EQUIPMENT MANUFACTURERS DRAWINGS. COORDINATE CONNECTION POINTS. REQUIRED ACCESSORIES, TRANSITIONS, WAVE GUIDE. PROVIDE REMOTE MONITOR WITH EQUIPMENT MANUFACTURER. VERIFY FINAL VENT SIZE AND ROUTING WITH EQUIPMENT MANUFACTURER. EXHAUST SHALL NOT TERMINATE WITHIN 25'-0" OF OPERABLE OPENING TO BUILDING. SEE SIEMENS MRI DOCUMENTS AND DETAILS SHEET FOR DETAILS.
9. ALL PENETRATIONS IN THE RF SHIELD SHALL HAVE A RF WAVEGUIDE AS REQUIRED.
10. ALL PIPINGS AND ASSOCIATED EQUIPMENT WITHIN RF SHIELD IN MRI SCAN ROOM TO BE ALUMINUM CONSTRUCTION. COORDINATE ALL DUCTWORK, AIR DEVICES, AND PIPING WITH ELECTRICAL EQUIPMENT, CABLE TRAYS, AND CONDUIT ABOVE CEILING.
11. WALL MOUNTED THERMOSTAT-HUMIDISTAT. PROVIDE LOCKING COVER FOR PUBLIC AREAS.
12. WALL MOUNTED THERMOSTAT. PROVIDE LOCKING COVER FOR PUBLIC AREAS.
13. DUCT MOUNTED TEMPERATURE SENSOR OUTSIDE OF RF SHIELD. SENSORS TO CONTROL THERMOSTAT THAT SERVES VAV TERMINAL UNIT (B3.19) FOR MRI SCAN ROOM.
14. DUCT STATIC PRESSURE SENSOR FOR SUPPLY FAN SPEED CONTROL. REFER TO SEQUENCE OF OPERATION. COORDINATE FINAL LOCATION IN FIELD.
15. DUCT MOUNTED MOTORIZED DAMPER. DAMPER SHALL CLOSE UPON RECEIVING OF EMERGENCY EXHAUST CALL. REFER TO SEQUENCE OF OPERATION.
16. HVAC CONTROL PANEL. COORDINATE FINAL LOCATION IN FIELD.
17. VERIFY ROUTING OF PIPING WITH HARD CEILING. LOCATE VALVES AT AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING TILES.
18. CONTRACTOR SHALL CONFIRM THAT ANY NEW PIPING IS NOT ROUTED OVER ANY NEW ELECTRICAL PANEL.
19. 1" BAC&P CITY WATER SUPPLY PIPING. CITY WATER TO BE USED IN THE EQUIPMENT ROOM. PROVIDE ISOLATION BALL VALVE. PROVIDE ISOLATION BALL VALVE NEAR IFP. PROVIDE PLUMBING FLANS FOR SUPPLY LINE FROM BUILDING.
20. 1" CITY WATER DISCHARGE PIPING. PROVIDE ISOLATION BALL VALVE NEAR IFP. ROUTE PIPING TO CORNER OF EQUIPMENT ROOM AS SHOWN, DOWN TO FLOOR, AND OUTSIDE TO EXTERIOR DRY WELL AS SHOWN. COORDINATE FINAL LOCATION IN FIELD. SEAL WALL PENETRATION AS REQUIRED.
21. HASKINS RF CHILLER (CH-MRI) REMOTE CONTROL PANEL. PROVIDED BY MANUFACTURER. COORDINATE WITH MECHANICAL CONTRACTOR. PANEL SHALL BE IN FIELD.

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INSTITUTE
Surgery Center at Millenia, LLC

Hunton Brady
ARCHITECT

DATE	SUBMISSION	N
12.12.2023	CONSTRUCTION DOCUMENTS	
05.19.2026	CCD NO. 1	1
08.07.2026	CCD #2R	2

HVAC CONTROLS & PIPING PLAN

PROJ. NO.	H-23016.00	SHEET
DRAWN	OA	

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