NOTE: 1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS SEQUENCE OF OPERATION (CH-09): SPECIFICATIONS AND NOTES THE CHILLER, CH-09, SHALL OPERATE UNDER ITS FACTORY MOUNTED CONTROLS CONST 3.10 TO MAINTAIN THE CHILLED WATER LOOP TEMPERATURE. THE CHILLED WATER 2. FLEXIBLE ELASTOMERIC THERMAL INSULATION, EQUAL TO 4. PREPARE WORKING PLANS FOR APPROVAL BY THE STATE INSULATE SUPPLY DUCTWORK WITH 1-1/2" FIBERGLASS SYSTEM SHALL BE ENABLED VIA THE BMS SYSTEM "ON/OFF" SOFTWARE FUNCTION 1. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS NOMACO K-FLEX LS, 25 FLAME SPREAD, 50 SMOKE BLANKET WITH VAPOR BARRIER JACKET EQUAL TO SCHULLER PROVIDED ALL SAFETIES HAVE BEEN SATISFIED. AN ALARM CONDITION SHALL BE FIRE MARSHALL'S OFFICE, LOCAL FIRE DEPARTMENT, AND IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS DEVELOPED. COOLING COIL CONDENSATE AND CHILLED MICROLITE TYPE 75, ASTM C533, WITH FSK FACING. GENERATED AT THE BMS SYSTEM IF THE CHILLER FAILS TO OPERATE. 9 9 INDICATED; ALL OFFSETS, OBSTRUCTIONS, AND EXISTING WATER: 2" THICKNESS OUTSIDE OF BUILDING AND 1" 4. SEAL NEW AND EXISTING DUCTWORK (WHERE POSSIBLE) TO OWNER'S INSURANCE CARRIER. CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED. THICKNESS INSIDE OF BUILDING, APPLY CONTINIOUS PVC THE CHILLED WATER TEMPERATURE SET POINT (44°F) SHALL BE ADJUSTABLE COORDINATE ANY SYSTEM IMPAIRMENTS WITH MAINE SMACNA SEAL CLASS A STANDARDS. RENOVATION WORK WILL TAKE PLACE IN AN OCCUPIED JACKETING ON OUTDOOR INSTALLATIONS. THROUGH THE DDC SYSTEM TO MEET THE COOLING LOADS. THE LOOP WATER MEDICAL CENTER. BEFORE SHUTTING OFF A SECTION 5. DUCTWORK OUTSIDE SHALL RECIEVE 2 LAYERS OF 2" SUED HOSPITAL. INSTALLATIONS SHALL NOT AFFECT ONGOING OF THE SPRINKLER SYSTEM TO MAKE SPRINKLER TIE-SHALL BE CONTINUOUSLY MONITORED AT THE BMS AND AN ALARM CONDITION POLYISOCYANURATE W/ FLEX CLAD OR ENGINEER APPROVED OPERATIONS. HOURS AVAILABLE TO PERFORM WORK SHALL BE GENERATED IF THE TEMPERATURE FALLS OUT OF ITS SET POINT INS, NOTIFY THE LOCAL FIRE DEPARTMENT, PLAN THE EQUAL FOR WEATHERTIGHT SEAL. AND DISRUPTION TO OPERATION OF SYSTEMS AND 1. ALL PIPING SHALL BE PRESSURE TESTED. SUPPORT ALL WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO UTILITIES WILL NEED TO BE COORDINATED WITH MAINE PIPING IN ACCORDANCE WITH MSS STANDARD PRACTICE ENABLE COMPLETION IN THE SHORTEST TIME POSSIBLE. INSULATED FLEXIBLE DUCTS MEDICAL CENTER. SP-69. PROVIDE ADJUSTABLE CLEVIS HANGERS, WITH C. THE CHILLER CONTROLS SHALL PROVIDE AN OUTPUT TO CONTROL THE CHILLED WORK STARTED ON CONNECTIONS SHOULD BE ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED INSULATION SHIELDS AS REQUIRED. COMPLETED WITHOUT INTERRUPTION AND PROTECTION WATER PUMPS. WHEN COMMANDED "ON" BY THE CHILLER, PUMP SHALL RUN ADHESIVE SUPPORTED BY HELICALLY WOUND SPRING STEEL FORCED DWV AND INDIRECT WASTE: COPPER TUBE, TYPE L: RESTORED AS PROMPTLY AS POSSIBLE. DURING THE CONTINUOUSLY. A SCHEDULE SHALL AUTOMATICALLY ROTATE THE PUMPS FOR WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER. COPPER PRESSURE FITTINGS; SOLDERED JOINTS. IMPAIRMENT, PROVIDE EMERGENCY HOSE EXTINGUISHERS EVEN RUN TIME AND SHALL BE INDEXED WEEKLY. FAILURE OF EITHER PUMP BARRIER FILM. R-VALUE = 4.2, UL 181, CLASS 1. INSTALL ALL COMPONENTS IN ACCORDANCE WITH AND MAINTAIN EXTRA WATCH SERVICE IN THE AFFECTED CHILLED WATER 2" AND LESS: TYPE L COPPER. CHILLED SHALL ACTIVATE AN ALARM CONDITION. PUMP SPEED SHALL BE MANUALLY MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES WATER 2-1/2" AND LARGER: TYPE L COPPER OR SCHEDULE ADJUSTED UTILIZING THE VFD. AND STANDARDS, AND MAINE MEDICAL CENTER PROVIDE RECORD DRAWINGS AND CALCULATIONS TO THE 40 STEEL. PIPE-MARKING LABELS: FURNISH AND INSTALL IN REQUIREMENTS. OWNER UPON COMPLETION OF THE WORK. D. A FLOW SWITCH PROVIDED BY THE CHILLER MANUFACTURER SHALL PROVE WATER ACCORDANCE WITH ANSI/OSHA REQUIREMENTS. IDENTIFY DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD-VERIFY ALL FLOW AND ENABLE COMPRESSOR OPERATION. <u>VALVES</u>
1. HOT WATER: VALVES WITH TAGS. IDENTIFY ALL EQUIPMENT SUCH AS AIR EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH MECHANICAL VIBRATION AND SEISMIC CONTROLS CONDITIONING UNITS, CONDENSING UNITS, AND HUMIDIFIER OTHER TRADES. COORDINATE ELECTRICAL POWER MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BALL VALVES, NPS 2 AND SMALLER: TWO-F. PUMP STATUS SHALL BE DETERMINED BY CURRENT SENSING DEVICE AND WITH STENCIL PAINTING OR TAGS. REQUIREMENTS FOR ALL MOTORS. BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE PIECE, 600-PSIG CWP RATING, COPPER DIFFERENTIAL PRESSURE SENSOR ACROSS PUMP SUCTION AND DISCHARGE. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO TRANSMISSION OF VIBRATION AND MECHANICALLY AUTOMATIC TEMPERATURE CONTROLS CALL FOR FINISHED WORK, FULLY TESTED AND TRANSMITTED SOUND TO THE BUILDING STRUCTURE BALANCE VALVES, NPS 2 AND SMALLER: CONTROLS SHALL BE AN EXTENSION OF THE EXISTING G. INTEGRAL GLYCOL FILL STATION SHALL MAINTAIN A 35% GLYCOL/WATER SOLUTION READY FOR OPERATION. ANY COMPONENTS OR LABOR BRONZE BODY, BALL TYPE, 125-PSIG RATING, MECHANICAL SYSTEMS SHALL BE SEISMICALLY BRACED TO HONEYWELL EXCELL DDC SYSTEM. (ADJ). THE GLYCOL TANK SHALL BE CONTINUALLY MONITORED BY THE BMS NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT CONNECTIONS FOR PORTABLE DIFFERENTIAL ALLOW THEM TO REMAIN IN PLACE WITHOUT SEPARATION OF EXTEND EXITING DDC CONTROL SYSTEM TO SERVE THE NEW SYSTEM AND AN ALARM CONDITION SHALL BE GENERATED IF THE GLYCOL FILL REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE ANY PART WHEN SUBJECTED TO THE SEISMIC FORCES PRESSURE METER, MEMORY STOP. TANK LEVEL BECOMES LOW OR IF THERE IS A GLYCOL PUMP FAILURE. ROOF-TOP UNIT (AHU-13), NEW BLOWER COILS (BC-1), PROVIDED. SHOULD THERE APPEAR TO BE ANY SPECIFIED AND THE SYSTEMS WILL BE FULLY OPERATIONAL AND TO ASSOCIATED REHEAT COILS. DISCREPANCIES OR QUESTIONS OF INTENT, THE AFTER THE SEISMIC EVENT. MECHANICAL SYSTEMS WILL VAV WATER HEATING COILS 3. PROVIDE TEMPERATURE SENSORS AND HUMIDITY SENSOR CONTRACTOR SHALL REFER THE MATTER TO THE INCLUDE ALL NEW EQUIPMENT, DUCTWORK AND PIPING. 1. TUBES: 5/8 INCH OD SEAMLESS COPPER ARRANGED IN WHERE INDICATED OR AS REQUIRED TO MEET THE ARCHITECT FOR DECISION BEFORE START OF ANY REQUIREMENTS: PARALLEL OR STAGGERED PATTERN, EXPANDED INTO FINS, SEQUENCES. CHILLER SEQUENCE OF OPERATION RELATED WORK. A. APPLICABLE CODE: INTERNATIONAL BUILDING BRAZED JOINTS. 4. REFER TO DRAWINGS FOR SEQUENCE OF CONTROLS. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES. CODE 2003. 2. FINS: ALUMINUM OR COPPER CONTINUOUS PLATE TYPE WITH SEAL ALL DUCT AND PIPE PENETRATIONS THROUGH B. GENERAL: PERFORMANCE REQUIREMENTS TO BE FULL FIN COLLARS. TESTING, ADJUSTING, AND BALANCING (T-A-B) FIRE RATED WALLS AND FLOORS WITH FIRE SEALANT. USED IN THE DESIGN OF SEISMIC CONTROLS 3. CASING: DIE FORMED CHANNEL FRAME OF 16 GAGE TEST, ADJUST, AND BALANCE EQUIPMENT AND DISTRIBUTION OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS. SHALL USE DESIGN FORCES CALCULATED AS GALVANIZED STEEL WITH 16 GAGE MOUNTING HOLES ON 3 SYSTEMS IN ACCORDANCE WITH NEBB OR AABC PROCEDURAL FOLLOWS: INCH CENTERS. STANDARDS. TESTS SHALL BE PERFORMED BY AND SEQUENCE OF OPERATION (BC-1) I. SEISMIC USE GROUP: GROUP III. 4. HEADERS: SEAMLESS COPPER TUBE WITH SILVER BRAZED INDEPENDENT T-A-B AGENCY. ALL WORK MUST BE CAREFULLY COORDINATED WITH THE II. SEISMIC DESIGN CATEGORY: D. JOINTS. 2. T-A-B NEW AHU, NEW BLOWER COILS, AND ASSOCIATED GRAPHIC SCALE: NEW AND RENOVATED HVAC AND MEDICAL EQUIPMENT III. COMPONENT IMPORTANCE FACTOR (IP): 5. INSTALL IN DUCTS AND CASINGS IN ACCORDANCE WITH SYSTEMS. INSTALLATIONS. SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL 1. UNIT SHALL BE PROVIDED WITH FACTORY MOUNTED CONTROLS WITH T-A-B NEW CHILLED WATER SYSTEM AND REHEAT COILS. REVISE THE EXISTING WET SPRINKLER SYSTEM TO IV. SDS: 0.371 AND FLEXIBLE. PROVIDE ACCESS DOORS FOR CLEANING. INTERFACE TO COMMUNICATE WITH EXISTING BAS SYSTEM. T-A-B ALL NEW AND REVISED AIR INLETS AND ACCOMMODATE NEW EQUIPMENT INSTALLATIONS. DESIGN, 2. WITH THE H-O-A SWITCH IN THE "AUTO" POSITION, UNIT SHALL START OUTLETS, INCLUDING DESIGN AND ACTUAL CFM. TEST FURNISH, INSTALL, AND TEST THE REQUIRED THROUGH THE BAS SYSTEM PROVIDED THE SAFETIES HAVE BEEN AND ADJUST ADJACENT AFFECTED AREAS IF REQUIRED. SPRINKLER SYSTEM. SPRINKLER TYPES SHALL BE 1. FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 25 GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED SATISFIED. IC/DRAWN BY 5. CATH LAB #2 SHALL BE CONFIGURED FOR 15 AC/HR QUICK RESPONSE TYPES, STYLE TO MATCH EXISTING. FLAME SPREAD, 50 SMOKE DEVELOPED. DOMESTIC COLD STEEL SHEET, LOCK-FORMING QUALITY, AND G90 ZINC (AS INDICATED) W/ 3 ACH/HR OF OUTSIDE AIR. A/E OF RECORD: ALL WORK SHALL BE IN ACCORDANCE WITH NFPA-13. WATER: 1" THICKNESS. DOMESTIC HOT WATER: PIPE SIZES 1" COATING. ALL DUCTWORK SHALL BE FURNISHED AND B. SUPPLY FAN CONTROL: THE UNIT SUPPLY FAN SHALL RUN BASED ON THE PRECENTAGE OF OUTSIDE AIR AT THE AIR HANDLER SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS: PROJECT NO: INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. AND SMALLER RUNOUTS UP TO 12' IN LENGTH: 1 INCH SPACE COOLING TEMPERATURE SET POINT. SHALL BE CALIBRATED FOR DUCT LEAKAGE A. CARDIAC CATH LAB AND CONTROL ROOM: CONSTRUCT DUCT SYSTEMS SO THAT LEAKAGE DOES NOT THICKNESS. ALL OTHER DHW PIPING SIZES: 1" THICKNESS. LIGHT HAZARD. EXCEED ONE PERCENT OF THE TOTAL AIR QUANTITIES. C. DISCHARGE AIR TEMPERATURE CONTROL: B. CARDIAC CATH LAB EQUIPMENT ROOM: SPECIFICATIONS, SEAL ALL DUCT JOINTS. 1. THE COOLING COIL 3-WAY VAVLE SHALL MODULATE TO MAINTAIN THE ORDINARY HAZARD, GROUP 1. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS. SPACE TEMPERATURE SET POINT OF 55°F (ADJ). NOTES AND SEQUENCE OF D. SAFETY DEVICES: 1. ROOM HIGH TEMPERATURE ALARM. **OPERATIONS** MISC. SEQUENCE OF OPERATION **SPECIFICATIONS** M-651