2. PROVIDE 2" PLEATED, MERV 8 FILTER 3. PROVIDE 4" DEEP DRIP PAN BENEATH UNIT..

4. PROVIDE CONDENSATE PUMP, LITTLE GIANT MODEL VCC-20-UL 5. PROVIDE 6 -ROW HIGH CAPACITY COIL.

TAG	DESCRIPTION	FIXTURE	FAUCET/DRAIN	TRIM	SUPPORT	NOTES:
ina	DESCRIPTION	1 IATORE	, and a summer production of the state of th	1 (707)	SUFFORT	NOTES.
SK-A	WALL HUNG LAVATORY - ADA	AMERICAN STANDARD #0955.000 "MURRO" VITREOUS CHINA, 22"x21 1/4", CENTER HOLE ONLY. WITH OPTIONAL SHROUD.	SLOAN SOLIS FAUCET #EAF-275-ISM 0.5 GPM SPRAY OUTLET, MCGUIRE #155 WC DRAIN, OFFSET TAILPIECE, CHROME PLATED FINISHES.	MCGUIRE ANGLE STOPS P-TRAP, ESCUTCHEONS AND RISERS-CHROME PLATED	INTEGRAL	1

REGISTER, DIFFUSER & GRILLE SCHEDULE								
TAG	CFM	NECK SIZE (DIA)	TYPE	DP	MAX NC	TYPICAL MFG & MODEL NO.	NOTES	
S-1	1400	24x24	DIRECTIONAL	0.06	20	PRICE AMCD	1,4	
S-2	120	(8")	DIRECTIONAL	0.05	<20	PRICE ASCD	1,4	
R-1	1400	+	LOUVERED	0.06	25	PRICE 635 28x20	2	
R-2	160	-	LOUVERED	0.06	<20	PRICE 635 12x12	. 2	

2. PROVIDE TYPE TB/TBP MOUNTING PANEL FOR LAY-IN CEILING APPLICATION 3. PROVIDE TYPE F MOUNTING PANEL FOR SURFACE MOUNTING 4. 4-WAY PATTERN TYPICAL. PROVIDE 1, 2, 3-WAY PATTERN WHERE INDICATED. ON PLANS BY DIRECTIONAL ARROWS. PERFORMANCE BASED ON 4-WAY PATTERN.

PLUMBING FIXTURE CONNECTION						
TAG	FIXTURE	CW	HW	WASTE	VENT	NOTES
SK-A	SCRUB SINK	3/4"	3/4"	2"	1-1/2"	1
NOTES:	1. PROVIDE SHOCK .	ABSORBER W	/ ISOLATION	I VALVE- ACCI	ESSIBLE ON HV	AND CW

SHOCK ABSORBER SCHEDULE					
TAG	FIXTURE UNIT	BASIS OF DE			
TAG	RATING	MANUF.	FIG		
'A'	1-10	ZURN			
'B'	12-32	ZURN			
NOTES:	1.				

SPECIFICATIONS AND NOTES

1. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS INDICATED; ALL OFFSETS, OBSTRUCTIONS, AND EXISTING CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED. 2. RENOVATION WORK WILL TAKE PLACE IN AN OCCUPIED HOSPITAL. INSTALLATIONS SHALL NOT AFFECT ONGOING OPERATIONS. HOURS AVAILABLE TO PERFORM WORK AND DISRUPTION TO OPERATION OF SYSTEMS AND UTILITIES WILL NEED TO BE COORDINATED WITH MAINE MEDICAL CENTER.

3. OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED FEES.

4. COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER. 5. INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES AND STANDARDS, AND MAINE MEDICAL CENTER REQUIREMENTS.

6. DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD-VERIFY ALL EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH OTHER TRADES. COORDINATE ELECTRICAL POWER REQUIREMENTS FOR ALL MOTORS.

7. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO CALL FOR FINISHED WORK, FULLY TESTED AND READY FOR OPERATION. ANY COMPONENTS OR LABOR NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE PROVIDED. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR QUESTIONS OF INTENT, THE CONTRACTOR SHALL REFER THE MATTER TO THE ARCHITECT FOR DECISION BEFORE START OF ANY

RELATED WORK. 8. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES. 9. SEAL ALL DUCT AND PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS WITH FIRE SEALANT. 10. OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS.

FIRE PROTECTION

1. ALL WORK MUST BE CAREFULLY COORDINATED WITH THE NEW AND RENOVATED HVAC AND MEDICAL EQUIPMENT INSTALLATIONS.

2. REVISE THE EXISTING WET SPRINKLER SYSTEM TO ACCOMMODATE NEW EQUIPMENT INSTALLATIONS. DESIGN, FURNISH, INSTALL, AND TEST THE REQUIRED SPRINKLER SYSTEM. SPRINKLER TYPES SHALL BE QUICK RESPONSE TYPES, STYLE TO MATCH EXISTING. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA-13. 3. SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS: A. CARDIAC CATH LAB AND CONTROL ROOM:

LIGHT HAZARD. B. CARDIAC CATH LAB EQUIPMENT ROOM: ORDINARY HAZARD, GROUP 1.

SPECIFICATIONS AND NOTES

4. PREPARE WORKING PLANS FOR APPROVAL BY THE STATE

OWNER'S INSURANCE CARRIER. 5. COORDINATE ANY SYSTEM IMPAIRMENTS WITH MAINE MEDICAL CENTER. BEFORE SHUTTING OFF A SECTION OF THE SPRINKLER SYSTEM TO MAKE SPRINKLER TIE-INS, NOTIFY THE LOCAL FIRE DEPARTMENT, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST TIME POSSIBLE. WORK STARTED ON CONNECTIONS SHOULD BE COMPLETED WITHOUT INTERRUPTION AND PROTECTION RESTORED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY HOSE EXTINGUISHERS AND MAINTAIN EXTRA WATCH SERVICE IN THE AFFECTED

6. PROVIDE RECORD DRAWINGS AND CALCULATIONS TO THE OWNER UPON COMPLETION OF THE WORK.

MECHANICAL VIBRATION AND SEISMIC CONTROLS 1. MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE.

2. MECHANICAL SYSTEMS SHALL BE SEISMICALLY BRACED TO ALLOW THEM TO REMAIN IN PLACE WITHOUT SEPARATION OF ANY PART WHEN SUBJECTED TO THE SEISMIC FORCES SPECIFIED AND THE SYSTEMS WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT. MECHANICAL SYSTEMS WILL INCLUDE ALL NEW EQUIPMENT, DUCTWORK AND PIPING.

REQUIREMENTS: A. APPLICABLE CODE: INTERNATIONAL BUILDING CODE 2003.

B. GENERAL: PERFORMANCE REQUIREMENTS TO BE USED IN THE DESIGN OF SEISMIC CONTROLS SHALL USE DESIGN FORCES CALCULATED AS FOLLOWS:

I. SEISMIC USE GROUP: GROUP III. II. SEISMIC DESIGN CATEGORY: D. III. COMPONENT IMPORTANCE FACTOR (IP): 1.5. IV. SDS: 0.371

PIPING INSULATION

1. FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 25 FLAME SPREAD, 50 SMOKE DEVELOPED. DOMESTIC COLD WATER: 1" THICKNESS, DOMESTIC HOT WATER: PIPE SIZES 1" AND SMALLER RUNOUTS UP TO 12' IN LENGTH: 1 INCH THICKNESS. ALL OTHER DHW PIPING SIZES: 1"

2. FLEXIBLE ELASTOMERIC THERMAL INSULATION, EQUAL TO NOMACO K-FLEX LS, 25 FLAME SPREAD, 50 SMOKE DEVELOPED. COOLING COIL CONDENSATE AND CHILLED WATER: 2" THICKNESS OUTSIDE OF BUILDING AND 1" THICKNESS INSIDE OF BUILDING, APPLY CONTINIOUS PVC JACKETING ON OUTDOOR INSTALLATIONS.

1. ALL PIPING SHALL BE PRESSURE TESTED, SUPPORT ALL PIPING IN ACCORDANCE WITH MSS STANDARD PRACTICE SP-69. PROVIDE ADJUSTABLE CLEVIS HANGERS, WITH INSULATION SHIELDS AS REQUIRED.

2. FORCED DWV AND INDIRECT WASTE: COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; SOLDERED JOINTS. 3. CHILLED WATER 2" AND LESS: TYPE L COPPER. CHILLED WATER 2-1/2" AND LARGER: TYPE L COPPER OR SCHEDULE 40 STEEL.

<u>VALVES</u> HOT WATER;

A. BALL VALVES, NPS 2 AND SMALLER: TWO-PIECE, 600-PSIG CWP RATING, COPPER

B. BALANCE VALVES, NPS 2 AND SMALLER: BRONZE BODY, BALL TYPE, 125-PSIG RATING, CONNECTIONS FOR PORTABLE DIFFERENTIAL PRESSURE METER, MEMORY STOP.

VAV WATER HEATING COILS 1. TUBES: 5/8 INCH OD SEAMLESS COPPER ARRANGED IN PARALLEL OR STAGGERED PATTERN, EXPANDED INTO FINS, BRAZED JOINTS.

2. FINS: ALUMINUM OR COPPER CONTINUOUS PLATE TYPE WITH FULL FIN COLLARS. 3. CASING: DIE FORMED CHANNEL FRAME OF 16 GAGE GALVANIZED STEEL WITH 16 GAGE MOUNTING HOLES ON 3 INCH CENTERS.

4. HEADERS: SEAMLESS COPPER TUBE WITH SILVER BRAZED JOINTS. 5. INSTALL IN DUCTS AND CASINGS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. PROVIDE ACCESS DOORS FOR CLEANING.

METAL DUCTWORK

1. GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, AND G90 ZINC COATING, ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT DUCT SYSTEMS SO THAT LEAKAGE DOES NOT EXCEED ONE PERCENT OF THE TOTAL AIR QUANTITIES. SEAL ALL DUCT JOINTS. 2. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS.

3. INSULATE SUPPLY DUCTWORK WITH 1-1/2" FIBERGLASS BLANKET WITH VAPOR BARRIER JACKET EQUAL TO SCHULLER MICROLITE TYPE 75, ASTM C533, WITH FSK

4. SEAL NEW AND EXISTING DUCTWORK (WHERE POSSIBLE) TO SMACNA SEAL CLASS A STANDARDS. 5. DUCTWORK OUTSIDE SHALL RECIEVE 2 LAYERS OF 2" POLYISOCYANURATE W/ FLEX CLAD OR ENGINEER APPROVED EQUAL FOR WEATHERTIGHT SEAL.

INSULATED FLEXIBLE DUCTS

1. ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR BARRIER FILM. R-VALUE = 4.2, UL 181, CLASS 1.

IDENTIFICATION

1. PIPE-MARKING LABELS: FURNISH AND INSTALL IN ACCORDANCE WITH ANSI/OSHA REQUIREMENTS. IDENTIFY VALVES WITH TAGS, IDENTIFY ALL EQUIPMENT SUCH AS AIR CONDITIONING UNITS, CONDENSING UNITS, AND HUMIDIFIER WITH STENCIL PAINTING OR TAGS.

AUTOMATIC TEMPERATURE CONTROLS

 CONTROLS SHALL BE AN EXTENSION OF THE EXISTING HONEYWELL EXCELL DDC SYSTEM. 2. EXTEND EXITING DDC CONTROL SYSTEM TO SERVE THE

NEW BLOWER COILS (BC-1). 3. PROVIDE TEMPERATURE SENSORS WHERE INDICATED

OR AS REQUIRED TO MEET THE SEQUENCES. REFER TO DRAWINGS FOR SEQUENCE OF CONTROLS.

TESTING, ADJUSTING, AND BALANCING (T-A-B) 1. TEST, ADJUST, AND BALANCE EQUIPMENT AND

DISTRIBUTION SYSTEMS IN ACCORDANCE WITH NEBB OR AABC PROCEDURAL STANDARDS. TESTS SHALL BE PERFORMED BY AND INDEPENDENT T-A-B AGENCY. 2. T-A-B NEW AHU, NEW BLOWER COILS, AND ASSOCIATED

3. T-A-B NEW CHILLED WATER SYSTEM AND REHEAT COILS. 4. T-A-B ALL NEW AND REVISED AIR INLETS AND OUTLETS, INCLUDING DESIGN AND ACTUAL CFM. TEST AND ADJUST ADJACENT AFFECTED AREAS IF REQUIRED. 5. CATH LAB #2 SHALL BE CONFIGURED FOR 15 AC/HR (AS INDICATED) W/ 3 ACH/HR OF OUTSIDE AIR. PRECENTAGE OF OUTSIDE AIR AT THE AIR HANDLER

SHALL BE CALIBRATED FOR DUCT LEAKAGE

BLOWER COIL SEQUENCE OF OPERATION (BC-1)

WITH INTERFACE TO COMMUNICATE WITH EXISTING BAS SYSTEM.

2. WITH THE H-O-A SWITCH IN THE "AUTO" POSITION, UNIT SHALL START THROUGH THE BAS SYSTEM PROVIDED THE SAFETIES HAVE BEEN SATISFIED.

B. SUPPLY FAN CONTROL: THE UNIT SUPPLY FAN SHALL RUN BASED ON THE SPACE COOLING TEMPERATURE SET POINT.

ROOM HIGH TEMPERATURE ALARM.

A. GENERAL:

UNIT SHALL BE PROVIDED WITH FACTORY MOUNTED CONTROLS

C. DISCHARGE AIR TEMPERATURE CONTROL: 1. THE COOLING COIL 3-WAY VAYLE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 75°F (ADJ).

D. SAFETY DEVICES:





CONST-21-10

SCALE PROJECT MANAGER: JC/DRAWN BY: A/E OF RECORD: PROJECT NO:

SCHEDULES, SPECIFICATIONS AND

M-601

NOT TO SCALE