FOR CONSTRUCTION 12-21-10

MAINE MEDICAL CENTER
CATH LAB #6
PORTLAND, ME
ISSUED FOR (

D ISSUED FOR CONSTRUCTION 12-21-10

SCALE: NOT TO SC
PROJECT MANAGER:

JC/DRAWN BY:

A/E OF RECORD:

PROJECT NO:

10112

12-21-10

SHEET TITLE:

LEGEND AND
ABBREVIATIONS

M- 001

PIPING SYMBOLS ORIFICE FLOWMETER FLEXIBLE CONNECTOR EXPANSION JOINT STEAM TRAP (FLOAT AND THERMOSTATIC INDICATED T.T. THERMOSTAT, B.T. BUCKET PIPE GUIDE OR SLEEVE TRAP, T.D. THERMODYNAMIC TRAP) PIPE ELBOW TURNED DOWN — CONCENTRIC REDUCER/INCREASER PIPE ELBOW TURNED UP ECCENTRIC REDUCER/INCREASER PIPING TEE-DOWN DIRECTION OF FLOW PIPING TEE-UP 0 PIPE RISER FINNED TUBE BASEBOARD PIPE PITCHES DOWN HUMIDIFIER GATE VALVE DIFFERENTIAL PRESSURE TRANSMITTER —— 6 —— BALL VALVE BUTTERFLY VALVE (MANUAL) 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE BALANCING VALVE (CIRCUIT SETTER) CHECK VALVE PLUG VALVE GLOBE VALVE NEEDLE VALVE BACKFLOW PREVENTER SOLENOID VALVE PRESSURE REGULATING VALVE PRESSURE RELIEF VALVE STRAINER W/ BLOWDOWN MANUAL AIR VENT AUTOMATIC AIR VENT VALVE WITH TAMPER SWITCH PRESSURE GAUGE AND COCK THERMOMETER AND WELL TEMPERATURE AND PRESSURE TAP (PETE'S PLUG) HOSE END DRAIN VALVE WITH CAP

REFRIGERANT LIQUID

RS REFRIGERANT SUCTION

ZONE VALVE BOX

TEMPERED CHILLED WATER SUPPLY

TEMPERED CHILLED WATER RETURN

AIR DISTRIBUTION SYMBOLS\_

12" Ø 12 INCH ROUND DUCT

MOTORIZED DAMPER

DUCT FLEXIBLE CONNECTOR (FC)

ROUND DUCT ELBOW DOWN

ROUND DUCT ELBOW UP

CAP (DUCT AND/OR PIPE)

TRANSITION

EA EXHAUST AIR

——— SA ———— SUPPLY AIR

<u>ප</u>ු ස

D R DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW

RETURN DUCT TURNED UP OR DOWN (DASHED)

SUPPLY DUCT TURNED UP OR DOWN (DASHED)

EXHAUST DUCT TURNED UP OR DOWN (DASHED)

ACOUSTICAL LINING (DUCT DIM. FOR NET FREE AREA)

INDICATES DUCT, PIPING, EQUIPMENT TO BE REMOVED.

VOLUME DAMPER

FIRE DAMPER

SMOKE DAMPER

COMBINATION FIRE/SMOKE DAMPER

RECTANGULAR ELBOW W/TURNING VANES

DIRECTION OF AIR FLOW (IN)

DIRECTION OF AIR FLOW (OUT)

HUMIDISTAT OR HUMIDITY SENSOR

SMOKE DETECTOR

S-3 DIFFUSER, REGISTER OR GRILLE TAG

300 CFM AIR FLOW QUANTITY

FTR-1 FINNED TUBE TAG

2 GPM FLOW

DETAIL NO.

EQUIPMENT TAG EQUIPMENT NO.

PIPING SYSTEMS

——— CD ——— CONDENSATE DRAIN

---- CHWR ---- CHILLED WATER RETURN

CWS CONDENSER WATER SUPPLY

----- CWR ----- CONDENSER WATER RETURN

DISTRIBUTION VALVE BOX

FCS FREE COOLING SUPPLY

----- FCR ----- FREE COOLING RETURN

FOS — FUEL OIL SUPPLY

FOV FUEL OIL VENT

GLYCOL

———— GCR ———— GRAVITY STEAM CONDENSATE RETURN

----- HCR ----- HOT/CHILLED WATER RETURN

HCS HOT/CHILLED WATER SUPPLY

HG HOT GAS

HPS HIGH PRESSURE STEAM

HWS HOT WATER SUPPLY

-----HWR ----- HOT WATER RETURN

----- MPR ----- MEDIUM PRESSURE RETURN

NPW NON POTABLE COLD WATER

PC PUMPED STEAM CONDENSATE

PD PUMPED DISCHARGE

PW POTABLE WATER

RELIEF LINE

PROCESS COOLING WATER RETURN

10 LENGTH OF FINNED ELEMENT

MH401 SHEET NO. WHERE DETAIL IS LOCATED

THERMOSTAT (T'STAT) OR TEMP. SENSOR

FLEXIBLE DUCT

12x16 RECTANGULAR DUCT. (FIRST NUMBER IS SIDE SHOWN) DIMENSIONS IN INCHES

GENERAL NOTE:

**ABBREVIATIONS** 

AAV AUTOMATIC AIR VENT

ACU AIR CONDITIONING UNIT

ACCESS DOOR

ACID EXHAUST

AIR COOLED CONDENSER

ABOVE FINISHED FLOOR

AUTOMATIC TEMPERATURE CONTROL

AFMS AIR FLOW MEASURING STATION

AHU AIR HANDLING UNIT

BASEBOARD

BDD BACKDRAFT DAMPER

BLDG BUILDING

BOD BOTTOM OF DUCT

BRITISH THERMAL UNIT

CAPPED FOR FUTURE

CEILING

COORD COORDINATION

CONTINUATION

COOLING TOWER

CABINET UNIT HEATER

CONTROL VALVE

DOUBLE CONTAINED

DIRECT DIGITAL CONTROL

COLD WATER

DIAMETER

DOWN IN CHASE

DOWN IN WALL

DRAWING

DWH DOMESTIC WATER HEATER

EXHAUST AIR

EXHAUST FAN

DROP AND TRANSITION

DN DOWN

CUBIC FEET PER MINUTE

COUNTER BALANCED DAMPER

PSE PROCESS SOLVENT EXHAUST

PPE PREPURCHASED EQUIPMENT

PRS PRESSURE REDUCING STATION

PRV PRESSURE REDUCING VALVE

PVD PNEUMATIC VOLUME DAMPER

PP POLY-PROPYLENE

REMOVE

RA RETURN AIR

(REL) RELOCATED

RF RETURN FAN

RG RETURN GRILLE

RHC REHEAT COIL

RR RETURN REGISTER

SCV SELF CONTAINED VALVE

SUPPLY REGISTER

TEMPERATURIZED ELEMENT (SENSOR)

SD SMOKE DETECTOR

SF SUPPLY FAN

SG SUPPLY GRILLE

SS STAINLESS STEEL

TG TRANSFER GRILLE
TOD TOP OF DUCT

TOP OF PIPE

TTS TIGHT TO STEEL

TYP TYPICAL

UH UNIT HEATER

UIC UP IN CHASE

UIW UP IN WALL

VB VACUUM BREAKER

TURNING VANE(S)

UNIT VENTILATOR

VARIABLE AIR VOLUME BOX

VCFF VALVED AND CAPPED FOR FUTURE

VD MANUAL VOLUME DAMPER

VTR VENT THROUGH ROOF

W/ WITH

VFD VARIABLE FREQUENCY DRIVE

VOC VOLITILE ORGANIC COMPOUND

RV RELIEF VALVE

SA SUPPLY AIR

RM ROOM

EXHAUST REGISTER

FURNISHED BY OWNER

FACE AND BYPASS

FIRE DAMPER

FIBERGLASS

FLAT OVAL

FTR FINNED TUBE RADIATION

FLOW SWITCH

GPM GALLONS PER MINUTE

HUMIDIFIER

HRU HEAT RECOVERY UNIT

H & V HEATING AND VENTILATING

HEAT EXCHANGER

MAKEUP AIR UNIT

MOTORIZED DAMPER

MANUFACTURER

MINIMUM

MUA MAKE UP AIR

NTS NOT TO SCALE

OA OUTSIDE AIR

NPW NON-POTABLE WATER

OBD OPPOSED BLADE DAMPER

OED OPEN ENDED DUCT

PAE PROCESS ACID EXHAUST

PHE PROCESS HEAT EXHAUST

MECHANICAL ENGINEER

MULTI-PURPOSE VALVE

IN WG INCHES WATER GAUGE

MAXIMUM

MBH 1000 BTU/HR

HVAC HEATING, VENTILATING AND AIR CONDITIONING

HB HOSE BIBB

HTR HEATER

HW HOT WATER

GENERAL CONTRACTOR

F&T FLOAT AND THERMOSTATIC

FLEXIBLE CONNECTOR

EXISTING

EXISTING

1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL MECHANICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.