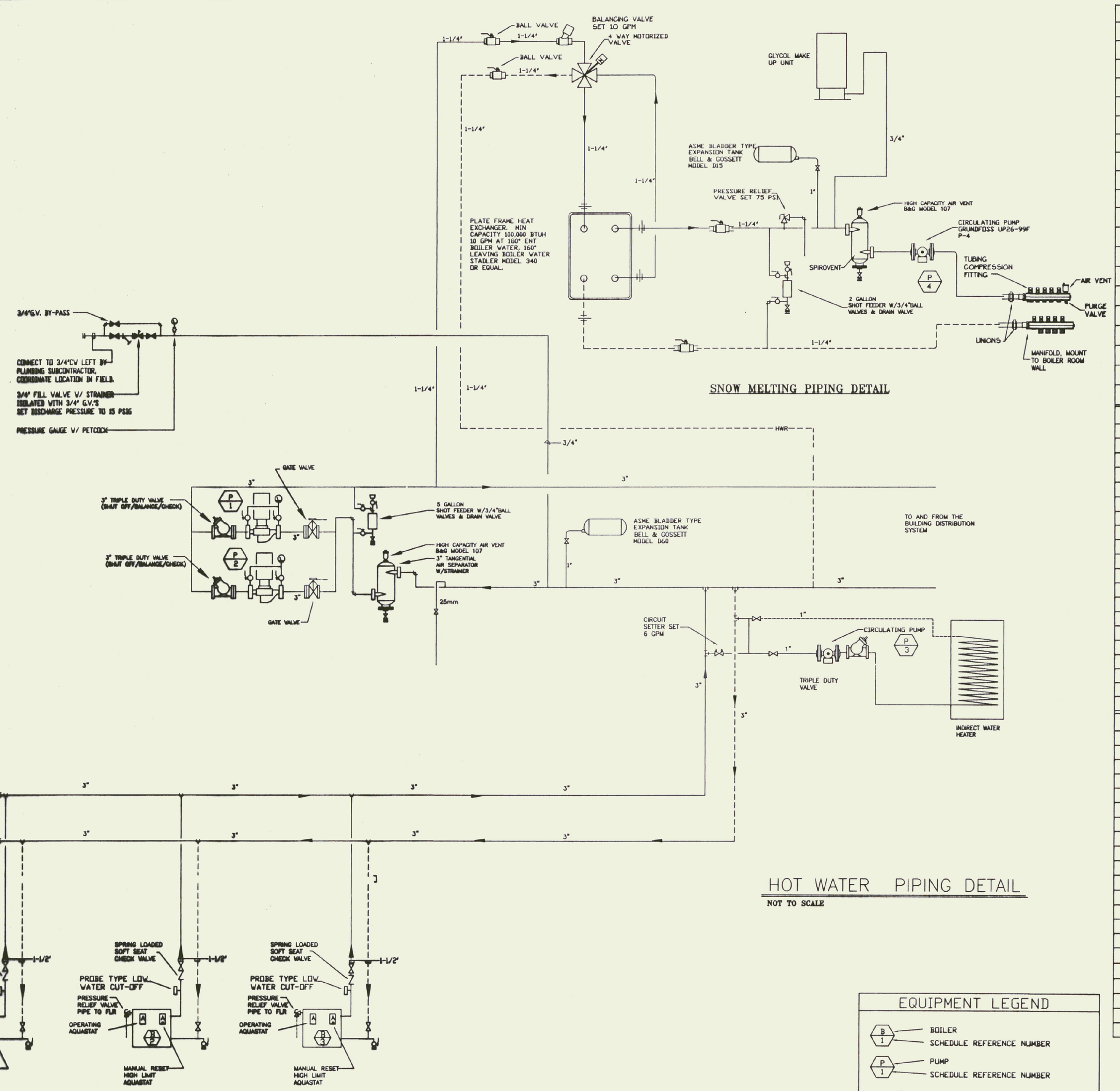

DUCTWORK LEGEND

	RETURN/EXHAUST AIR UP
	SUPPLY AIR UP
	RETURN/EXHAUST AIR DOWN
	SUPPLY AIR DOWN
	RETURN/EXHAUST GRILLE/ REGISTER
	SUPPLY AIR DIFFUSER
FC	FLEXIBLE CONNECTION
VD	VOLUME DAMPER
	MITER ELBOW WITH VANES
	RADIUS ELBOW
	RISE IN THE DIRECTION OF AIRFLOW
	DROP IN THE DIRECTION OF AIRFLOW
	SMOKE DAMPER
	ACCOUSTIC INSUALTED DUCT
	MOTORIZED DAMPER
	45 DEGREE ENTRY WITH VOLUME DAMPER
	BELLMOUTH WITH VOLUME DAMPER
	FLEX DUCT

VALVES & ACCESSORIES

	BALL VALVE
	DS&Y GATE VALVE
	PRESSURE REDUCING VALVE
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	BUTTERFLY VALVE
	BALANCE/SHUT-OFF VALVE
	PLUG VALVE
	MANUAL AIR VENT
	PETCOCK
	BACKFLOW PREVENTER
RP	RED. PRESS. BACKFLOW PREV.
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	SOLENOID VALVE
	CONNECTION NEW TO EXIST
T	THERMOSTAT
T	NIGHT THERMOSTAT

PIPING LEGEND

HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CH	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CD	CONDENSATE DRAIN
CF	CHEMICAL FEED
	MAKE-UP WATER
	ELBOW DOWN
	ELBOW UP
	TEE
	CONNECTION TOP OF MAIN
	CONNECTION BOTTOM OF MAIN
	STRAINER
	STRAINER W/ VALVE
	PIPE ANCHOR
	ALIGNMENT GUIDE
	EXPANSION COMPENSATOR
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	THERMOMETER
	PRESS. GAUGE W/ COCK

EQUIPMENT LEGEND

B 1	BOILER SCHEDULE REFERENCE NUMBER
P 1	PUMP SCHEDULE REFERENCE NUMBER

ABBREVIATIONS

ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ARCH	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CR	CEILING REGISTER
CFM	CUBIC FEET PER MINUTE
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
Db	DRY BULB TEMP °F
dB	DECIBELS
DIA	DIAMETER
DWN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
FC	FLEX CONNECTOR
FCU	FAN COIL UNIT
FD	FIRE DAMPER
F.D.	FLOOR DRAIN
FTR	FIN TUBE RADIATION
GC	GENERAL CONTRACTOR
GH	GRAVITY HOOD
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSEPOWER
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IEF	INLINE EXHAUST FAN
IGV	INLET GUIDE VANES
IFB	INTERNAL FACE & BYPASS
LAT	LEAVING AIR TEMPERATURE °F
LCD	LINEAR CEILING DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LWT	LEAVING WATER TEMPERATURE °F
MB	MIXING BOX
MER	MECHANICAL EQUIPMENT ROOM
MBH	THOUSANS BTUH
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PBD	PARALEL BLADE DAMPER
PC	PLUMBING CONTRACTOR
PHC	PREHEAT COIL
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
Rh	RELATIVE HUMIDITY
RR	RETURN REGISTER
SA	SUPPLY AIR
SR	SIDEWALL REGISTER
SG	SIDEWALL GRILLE
SAT	SOUND ATTENUATOR
SF	SUPPLY FAN
SP	STATIC PRESSURE
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VSD	VARIABLE SPEED DRIVE
WMG	WIRE MESH GRILLE

GENERAL NOTES

THE HVAC DRAWINGS ARE DIAGRAMATIC. ALL OFFSETS AND/OR FITTINGS REQUIRED TO ACCOMODATE THE INSTALLATION CONDITIONS SHALL BE PROVIDED WITHOUT ADDITIONAL CHARGES. ALL WORK SHALL BE FIELD MEASURED PRIOR TO FABRICATION. EXACT LOCATIONS OF ALL PIPING, EQUIPMENT AND DUCTWORK SHALL BE DETERMINED IN THE FIELD.

REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL WORK SHALL BE CONCEALED IN WALLS OR CEILINGS UNLESS CEILINGS ARE NOT PROVIDED OR OTHERWISE NOTED.

RECORD DRAWING

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1-19-98

PROJECT NO.IM 091-1 (30)
SOUTHEAST VERMONT WELCOME CENTER
GUILFORD, VERMONT

SHEET TITLE: FLOW DIAGRAMS & LEGEND

DSGN BY: RFG
DRWN BY: RFG
CHKD BY: RFG
CHKD BY: RWH

STATE OF VERMONT
AGENCY OF ADMINISTRATION
DEPARTMENT OF
BUILDINGS & GENERAL SERVICES

DATE: 1-16-97 SHEET NO.____ OF____ SHEETS

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