ABBREVIATIONS

A

ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AS	AIR SEPERATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS

B

BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS/HOUR

C

CA	COMBUSTION AIR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CMPR	COMPRESSOR
COND	CONDENSATE
CP	CONDESATE PUMP
CT	COOLING TOWER
CTR	CENTER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU IN	CUBIC INCH
Cv	COEFFICIENT, VALVE FLOW
CONN	CONNECTION
CH	CHILLER
CO	CLEANOUT
CW	COLD WATER (DOMESTIC)
CV	CONSTANT VOLUME

D

D	DRAIN
DB	DRY BULB
DEG	DEGREE
DIA	DIAMETER
DISCH	DISCHARGE
DIFF	DIFFUSER
DIL	DYNAMIC INSERTION LOSS
DPT	DEWPOINT TEMPERATURE
DN	DOWN
Δ Pt	TOTAL DIFFERENTIAL PRESSURE
DWG	DRAWING

E

E	EXAHUST AIR DEVICE
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EWB	ENTERING WET BULB TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EXIST	EXISTING
EXH	EXHAUST
EXT	EXTERIOR

F

F	FILTER
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FLASH TANK
F&T	FLOAT & THERMOSTATIC TRAP
FTR	FIN TUBE RADIATION
FF	FINAL FILTER
FLR	FLOOR
FT	FLASH TANK
°F	DEGREE FAHRENHEIT

G

GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE

H

HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HP	HEAT PUMP
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HOUR
HUH	HORIZONTAL UNIT HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY
HVAC	HEATING, VENTILATING AND AIR CONDITIONING

I

ID	INSIDE DIAMETER
IN	INCH
IN. W.G.	INCHES – WATER GAUGE
IPS	INTERNATIONAL PIPE STANDARD

K

KW	KILOWATT
KWH	KILOWATT PER HOUR

L

LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LBS	POUNDS
LH	LATENT HEAT
LH	LEFT HAND
LHG	LATENT HEAT GAIN
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
LPSH	LOW PRESSURE STEAM SUPPLY TO HUMIDIFIERS
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS

M

MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MFGR	MANUFACTURER
MIN	MINIMUM
MPH	MILES PER HOUR
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MHP	MOTOR HORSEPOWER

N

NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION

O

OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OC	ON CENTER
OPER	OPERATING

P

P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PF	PROPELLER FAN
PH	PHASE
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PF	PRE–FILTER

Q

QTY	QUANTITY

R

R	RETURN AIR DEVICE
RA	RETURN AIR
RECIRC	RECIRCUALTE
RH	REHEAT
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RL	REFRIGERANT LIQUID
RD	REFRIGERANT DISCHARGE
RAF	RETURN AIR FAN
RECT	RECTANGULAR
RLA	RUNNING LOAD AMPS
REFRIG	REFRIGERANT
RM	ROOM

S

S	SUPPLY AIR DEVICE
SA	SUPPLY AIR
SCFM	CFM STANDARD CONDITIONS
SD	SMOKE DAMPER
SEC	SECOND
SENS	SENSIBLE
SH	STEAM HUMIDIFIER
SH	SENSIBLE HEAT
SHG	SENSIBLE HEAT GAIN
SP	STATIC PRESSURE (INCHES OF WATER)
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STM	STEAM
SUCT	SUCTION
SS	STAINLESS STEEL
SAT	SATURATED
SA	SOUND ATTENUATOR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

T

T	TRANSFER AIR DEVICE
TB	TERMINAL BOX
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TOT	TOTAL
TSTAT	THERMOSTAT
TYP	TYPICAL

U

U	HEAT TRANSFER COEFFICIENT
UH	UNIT HEATER
USG	UNIFIRED STEAM GENERATOR

V

V	VOLTS
VAC	VACUUM
VD	VOLUME DAMPER
VOL	VOLUME
VHWS	VARIABLE TEMPERATURE HOT WATER SUPPLY
VHWR	VARIABLE TEMPERATURE HOT WATER RETURN
VV	VARIABLE VOLUME
VEL	VELOCITY

W

W	WATT
W	WIDTH
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WR	WATER RETURN
WS	WATER SUPPLY
WT	WEIGHT
WTR	WATER

DRAWING LIST

HVAC

H001	HVAC GENERAL NOTES AND LEGEND
H100	HVAC BASEMENT DEMOLITION DUCTWORK–SECTOR "B"
H101	HVAC BASEMENT DEMOLITION PIPING–SECTOR "B"
H200.A	HVAC BASEMENT DUCTWORK PLAN–SECTOR "A"
H200.B	HVAC BASEMENT DUCTWORK PLAN–SECTOR "B"
H200.ALT	HVAC BASEMENT DUCT/PIPE PLAN–SECTOR "B" (ADD ALTERNATE NO.5)
H201	HVAC SNOW MELT SYSTEM AREA PLAN
H300.A	HVAC BASEMENT PIPING PLAN–SECTOR "A"
H300.B	HVAC BASEMENT PIPING PLAN–SECTOR "B"
H301	HVAC SUB–BASEMENT (BEAN BUILDING) PART PLAN PIPING
H400	HVAC FIFTH FLOOR MECHANICAL ROOM PLAN DUCTWORK
H401	HVAC FIFTH FLOOR MECHANICAL ROOM PLAN PIPING
H402	HVAC SECTIONS
H403	HVAC PART PLANS AND SECTIONS
H500	HVAC AIR HANDLING UNIT CONTROL SEQUENCE AND POINTS LIST
H501	HVAC CONTROL SEQUENCES AND POINTS LIST
H502	HVAC SNOW MELT PIPING SCHEMATIC/CONTROL SEQUENCE OF OPERATION
H503	HVAC SNOW MELT SYSTEM DETAILS AND SCHEDULES
H600	HVAC PRE–PURCHASE AIR HANDLING UNIT DETAIL DRAWING
H601	HVAC TYPICAL DETAILS SHEET NO. 1
H602	HVAC TYPICAL DETAILS SHEET NO. 2
H603	HVAC TYPICAL DETAILS SHEET NO. 3
H700	HVAC SCHEDULES SHEET NO. 1
H701	HVAC SCHEDULES SHEET NO. 2

General Notes:

MARK	ISSUE DATE	DESCRIPTION
BID	12/14/07	BID SET

Issue Log

SHEET METAL LEGEND

DUCTWORK

- RECTANGULAR SUPPLY AIR DUCT TURN TOWARDS
- RECTANGULAR SUPPLY AIR DUCT TURN AWAY
- ROUND SUPPLY AIR DUCT TURN TOWARDS
- ROUND SUPPLY AIR DUCT TURN AWAY
- OVAL SUPPLY AIR DUCT TURN TOWARDS
- OVAL SUPPLY AIR DUCT TURN AWAY
- RETURN/EXHAUST AIR DUCT TURN TOWARDS
- RETUN/EXHAUST AIR DUCT TURN AWAY
- WxH — RECTANGULAR DUCT W=WIDTH H=HEIGHT
- X"ø — ROUND DUCT X"ø=DIAMETER
- DN — DUCT OFFSET DOWN
- UP — DUCT OFFSET UP
- LINED DUCTWORK
- FLEXIBLE DUCTWORK

FITTINGS

- 90 DEGREE ELBOW WITH VANES
- 90 DEGREE ELBOW WITHOUT VANES
- 90 DEGREE ROUND ELBOW
- 45 DEGREE ELBOW WITH VANES
- 45 DEGREE ELBOW WITHOUT VANES
- 45 DEGREE ROUND ELBOW
- DUCT SECTION (SUPPLY)
- DUCT SECTION (RETURN)
- DUCT SECTION (EXHAUST)

AIR TERMINALS

- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- SIDEWALL SUPPLY GRILLE
- SIDEWALL RETURN/EXHAUST GRILLE
- LINEAR SUPPLY DIFFUSER
- LINEAR RETURN GRILLE

EQUIPMENT

- TERMINAL BOX WITH REHEAT COIL
- UNIT HEATER
- REHEAT COIL
- FILTER
- ACCESS DOOR
- INLINE FAN
- ROOF EXHAUST FAN
- ROOF VENT

SINGLE LINE

- WYE BRANCH TAKE–OFF
- RADIUS DUCT ELBOW
- WYE DOVETAIL
- DN — DUCT OFFSET DOWN
- UP — DUCT OFFSET UP
- SIDEWALL SUPPLY GRILLE
- SIDEWALL RETURN GRILLE

DAMPERS

- DSD — DUCT MOUNTED SMOKE DETECTOR
- FS — FLOW SWITCH
- SP — STATIC PRESSURE SENSOR
- S — SMOKE DAMPER
- SD/FD — COMBINATION SMOKE FIRE DAMPER
- SD — SMOKE DAMPER
- FD — FIRE DAMPER
- VD — VOLUME DAMPER

PIPING SYMBOL LEGEND

- OPEN STRAIGHT GATE VALE
- OPEN ANGLED GATE VALVE
- O.S.& Y. GATE VALVE
- NEEDLE VALVE
- OPEN BALL VALVE
- OPEN STRAIGHT GLOBE VALVE
- OPEN ANGLED GLOBE VALVE
- 2–WAY AUTOMATIC CONTROL VALVE (PNEUMATIC)
- 3–WAY AUTOMATIC CONTROL VALVE (PNEUMATIC)
- LABEL — MOTOR OPERATED 2–WAY VALVE
- LABEL — MOTOR OPERATED 3–WAY VALVE
- LABEL — SOLENOID VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REDUCING VALVE
- CHECK VALVE
- CHECK VALVE
- OPEN PLUG VALVE
- BUTTERFLY VALVE (TYPE 1)
- PRESSURE RELIEF VALVE
- PRESSURE RELIEF VALVE
- SAFETY VALVE
- COMBINATION BALANCING/FLOW MEASURING DEVICE
- BALL VALVE WITH HOSE CONNECTION, CAP AND CHAIN
- GATE VALVE WITH HOSE CONNECTION, CAP AND CHAIN
- QUICK CLOSING VALVE 1
- QUICK CLOSING VALVE 2
- FLOAT VALVE
- DIAPHRAGM VALVE
- LOCK SHEILD VALVE
- DRAIN VALVE
- SELF CONTAINED
- EXTERNAL
- DIFFERENTIAL
- BALL & SHUT CHECK VALVE
- SWING GATE CHECK VALVE
- SPRING CHECK VALVE
- ANGLED CHECK VALVE
- OPEN THREE WAY VALVE
- OPEN FOUR WAY VALVE
- GATE VALVE W/ HOSE CONNECTION
- ANGLED GATE VALVE W/ HOSE CONNECTION
- GLOBE VALVE W/ HOSE CONNECTION
- ANGLED GLOBE VALVE W/ HOSE CONNECTION
- STRAINER
- STRAINER
- THERMOSTATIC TRAP
- INVERTED BUCKET TRAP
- FLOAT AND THERMOSTATIC TRAP
- UNION
- REDUCER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- THERMOMETER
- PRESSURE GAUGE
- XV — FLOW SWITCH
- PIPE GUIDES
- PIPE ANCHOR
- CO — CONDENSATE DRAIN LINE W/CLEANOUT
- AUTOMATIC FLOW CONTROL VALVE
- PRESSURE TEMPERATURE MEASUREMENT PORT
- AIRN CIRDESCRIPTION — MANUAL AIR VENT
- AIRN CIRDESCRIPTION — AUTOMATIC AIR VENT
- HUMIDIFIER
- PIPE TURN TOWARDS
- PIPE TURN AWAY
- CAPPED PIPE

PIPING LEGEND

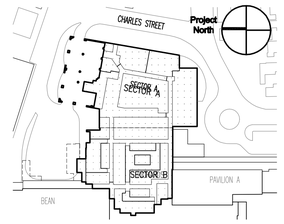
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
WS	WATER SUPPLY PIPING
WR	WATER RETURN PIPING
VHWS	VARIABLE TEMPERATURE HOT WATER SUPPLY PIPING
VHWR	VARIABLE TEMPERATURE HOT WATER RETURN PIPING
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
CWS	CONDENSER WATER SUPPLY PIPING
CWR	CONDENSER WATER RETURN PIPING
LPS	LOW PRESSURE STEAM SUPPLY PIPING
LPR	LOW PRESSURE STEAM RETURN PIPING
MPS	MEDIUM PRESSURE STEAM SUPPLY PIPING
MPR	MEDIUM PRESSURE STEAM RETURN PIPING
HPS	HIGH PRESSURE STEAM SUPPLY PIPING
HPR	HIGH PRESSURE STEAM RETURN PIPING
PD	PUMP DISCHARGE PIPING
D	CONDENSATE DRAIN PIPING
FOS	FUEL OIL SUPPLY PIPING
FOR	FUEL OIL RETURN PIPING
FOV	FUEL OIL VENT LINE
FOG	FUEL OIL GAUGE LINE
FOF	FUEL OIL FILL LINE
V	ATMOSPHERIC VENT
	DOMESTIC COLD WATER (MAKE–UP)
	PITCH PIPE–DIRECTION OF ARROW
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
LPSH	LOW PRESSURE STEAM TO HUMIDIFIERS

SYMBOLS LEGEND

- A– / AXXX — DRAWING NUMBER / SHEET NUMBER — DETAIL DESIGNATION
- A– / AXXX — DRAWING NUMBER / SHEET NUMBER — SECTION DESIGNATION
- CONNECT TO EXISTING
- POINT BETWEEN EXISTING TO BE REMOVED AND EXISTING TO REMAIN
- UNIT ABBREVIATION / EQUIPMENT DESIGNATION / UNIT NUMBER
- X — DEMOLITION PLAN KEYED NOTE
- X — NEW PLAN KEYED NOTE
- X / X — EQUIPMENT TYPE DESIGNATION
- X / XX — REVISION DESIGNATION
- FLOW DIRECTION
- EXISTING EQUIPMENT
- EXISTING EQUIPMENT TO BE REMOVED
- T — THERMOSTAT
- H — HUMIDISTAT
- S — SWITCH
- P — ROOM PRESSURIZATION MONITOR

GENERAL NOTES

1. EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES TO BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.
2. DIMENSIONS SHOWN FOR ALL DUCTS ARE NET INSIDE DIMENSIONS.
3. COORDINATE ALL CEILING, WALL AND FLOOR PENETRATIONS WITH OPENING ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. PROVIDE INSTRUMENT TEST HOLES ON DUCTWORK WHEREVER VOLUME DAMPERS ARE INDICATED.
5. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL TRADES BEFORE ANY INSTALLATION.
6. ALL SUPPLEMENTAL STEEL CONNECTIONS TO MAIN STRUCTURE FOR SUPPORT OF HVAC EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL OPENINGS IN BEAMS AND ROOF SHALL BE APPROVED BY THE GENERAL CONTRACTOR AND STRUCTURAL ENGINEER.
8. EXACT LOCATION OF THERMOSTATS, HUMIDISTATS, AND ROOM PRESSURE CONTROLLER MONITORS TO BE COORDINATED WITH FINAL LOCATION OF WALL MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT.
9. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRE PIPING TO BE ABOVE.
10. HVAC SUBCONTRACTOR SHALL PROVIDE FOR ALL SHEETMETAL AND PIPING TRANSITIONS TO COILS AND OTHER HVAC EQUIPMENT.
11. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
12. ALL EXPOSED EQUIPMENT (CABINET HEATERS, UNIT HEATERS, etc.) SHALL HAVE COLORS SELECTED BY THE ARCHITECT, UNLESS NOTED OTHERWISE.
13. ALL THERMOSTATS INSTALLED IN AREAS EXCEPT PRIVATE OFFICES SHALL HAVE HEAVY DUTY TAMPERPROOF GUARDS.
14. EXACT ELEVATIONS FOR SIDE WALL REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
15. REFER TO HVAC DETAIL SHEET(S) FOR TYPICAL DUCTWORK, PIPING AND EQUIPMENT DETAILS.
16. ALL LOUVERS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
17. HVAC SUBCONTRACTOR SHALL BE RESPONSIBLE FOR BLANKING OFF ALL INACTIVE PORTIONS OF LOUVERS UTILIZED FOR INTAKE OR EXHAUST FOR HVAC EQUIPMENT.
18. THE HVAC CONTRACTOR AND ALL SUB–CONTRACTORS SHALL COORDINATE , COOPERATE, AND PROVIDE ALL WORK ACCORDING TO THE GENERAL CONTRACTORS OWNER APPROVED PHASING SCHEDULE AND AS REQUIRED AS PROVIDE A COMPLETE AND PROPER OPERATING SYSTEMS.
19. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL TRADES PRIOR TO ANY FABRICATION AND INSTALLATION OF ALL WORK. THE HVAC CONTRACTOR, HVAC SUB–CONTRACTORS, ALL TRADE CONTRACTORS AND GENERAL CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS PLANS AND SECTIONS TO COORDINATE ALL WORK OF ALL TRADES AS SPECIFIED IN SECTION 01150 – SPECIAL PROVISIONS.
ALL TRADE CONTRACTORS AND GENERAL CONTRACTOR SHALL PRODUCE AND BE RESPONSIBLE TO CLEARLY SHOW ON PLANS AND SECTIONS HOW THE WORK IS TO BE INSTALLED IN RELATION TO ALL NEW WORK AND EXISTING CONDITIONS; FOR ALL TRADES. ANY AND ALL WORK THAT IS INSTALLED PRIOR TO THE COORDINATION WITH OTHER TRADES OR THAT CAUSES INTERFERENCES WITH ANY NEW WORK OR EXISTING CONDITIONS SHALL BE CHANGED TO CORRECT THE CONDITION AT NO COST TO THE OWNER. THE CONTRACTORS SHALL PROVIDE COORDINATION AS SOON AS POSSIBLE PRIOR TO THE SHOP DRAWING SUBMISSION PROCESS IN ORDER TO AVOID DELAYS IN THE CONSTRUCTION SCHEDULE.
20. THE HVAC CONTRACTOR AND ALL SUB– CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID PRICE FOR PROJECT WORK. THE CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS WITH ALL NEW WORK AS SHOWN, NOTED, AND REQUIRED TO PROVIDE WORK OF THE CONTRACT DOCUMENTS. IN ORDER FOR THE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH ALL WORK AND CARRY ALL ASSOCIATED COSTS. NO EXTRA COMPENSATION SHALL BE ACCEPTED OR PERMITTED AFTER SUBMISSION OF THE BID PRICE.
21. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR (ATC) SHALL PROVIDE ALL 120 VOLTS/1 PHASE /60 HZ ELECTRICAL WIRING REQUIRED TO POWER ALL CONTROLS, TERMINAL BOXES, DDC/EMS CONTROLLERS, DDC/EMS CONTROL PANELS, AND ALL CONTROLS ON THIS PROJECT. THE ATC CONTRACTOR SHALL CONNECT TO THE JUNCTION BOXES PROVIDED UNDER DIVISION 16 AND ACCESSORIES AS REQUIRED. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.



Key Plan

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Maine Medical Center

ED Expansion and Renovation

Portland, Maine MMC Project No. 21843

Drawing Title

HVAC GENERAL NOTES AND LEGEND

Drawn By	FWC	Commission No.	4696
Approved By	MJC	Date Issued	12/14/07

Phase / Package Number	Sheet Number
	H001

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