

A

B

C

D

E

F

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

## PLUMBING DEMOLITION NOTES

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
- REMOVE ALL PIPING COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DOCUMENTS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
- REMOVE ALL PIPING TO BELOW FLOOR, ABOVE CEILING OR IN WALLS AND BACK TO MAINS OR SHUT OFF VALVES AT MAINS, CAP AND SECURE PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
- NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
- ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE SOURCES. THE DOCUMENTS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT SYSTEM EQUIPMENT AND PIPING IS TO BE REMOVED IN ALL RENOVATED AREAS AS NOTED AND MAY NOT ALL BE SHOWN.
- VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
- ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
- ALL PHASING OF THE PLUMBING DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER (OR GENERAL CONTRACTOR) IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNER'S OCCUPANCY REQUIREMENTS.
- ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED SHALL BE TURNED OVER TO THE OWNER, AT OWNERS REQUEST. FIXTURES AND EQUIPMENT SHALL BE STORED TO PREVENT DAMAGE. DAMAGED EQUIPMENT SHALL BE REPLACED BY THIS CONTRACTOR.
- REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK.
- COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.

## PLUMBING GENERAL NOTES

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK; SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND COORDINATION OF CONTRACTUAL WORK FOR OPERATIONS AND CONNECTIONS TO OTHER SYSTEMS.
- PROVIDE ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: GAS SUPPLY PIPING, CONDENSATE PIPING, COLD WATER SUPPLY PIPING, DRAINS, AND CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, UNIT HEATERS, BOILERS, CHILLERS, ETC. ALSO, PROVIDE ADDITIONAL DEVICES INCLUDING BUT NOT LIMITED TO: BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, AND SHUT-OFF VALVES REQUIRED FOR AFOREMENTIONED EQUIPMENT. REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
- PROVIDE PIPE EXPANSION JOINTS AND APPROVED SEISMIC LOOPS ON PIPING PASSING THRU ALL BUILDING EXPANSION JOINT AND SEISMIC JOINT LOCATIONS AS REQUIRED PER BUILDING CODES WHETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING EXPANSION AND SEISMIC JOINT LOCATIONS AND EXPANSION DIMENSIONS.
- REFER TO SITE PLAN AND CIVIL ENGINEER'S DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO COORDINATION OF SITE UTILITIES, BOTH EXISTING AND NEW.
- IN RENOVATION WORK, COORDINATE SYSTEMS SHUTDOWN WITH OWNER IN ORDER TO MAKE NEW PIPING CONNECTIONS. ALLOW MINIMUM OF TEN (10) DAYS ADVANCE NOTICE FOR OWNER APPROVAL TO PROCEED WITH CONTRACT WORK.

## PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	PD	PUMPED DISCHARGE
AFG	ABOVE FINISHED GRADE	PRV	PRESSURE REDUCING VALVE
AHU	AIR HANDLING UNIT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER DEVICE	RD	ROOF DRAIN
BWV	BACKWATER VALVE	RPD	REDUCED PRESSURE BACKFLOW PREVENTER
CO	CLEANOUT	RWC	RAIN WATER CONDUCTOR
COND	CONDENSATE	S	SOIL
CTE	CONNECT TO EXISTING	SAN	SANITARY
CV	CHECK VALVE	SP	SUMP PUMP/SEWAGE PUMP
CW	COLD WATER	SS	SOIL STACK
DF	DRINKING FOUNTAIN	ST	STORM
DN	DOWN	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
EL	ELEVATION	TD	TRENCH DRAIN
EW	ELECTRIC WATER COOLER	TP	TRAP PRIMER
DWH	ELECTRIC WATER HEATER	TWV	THERMOSTATIC MIXING VALVE
EX	EXISTING	TW	TEMPERED OR TEPID WATER
EXP	EXPANSION TANK	TWR	TEMPERED OR TEPID WATER RECIRCULATION
FCO	FLOOR CLEANOUT	TYP	TYPICAL
FCU	FAN COIL UNIT	UH	UNIT HEATER
FD	FLOOR DRAIN	V	VENT
G	GAS (NATURAL)	VB	VACUUM BREAKER
GP	GALLONS PER MINUTE	VF	VERIFY IN FIELD
GSV	GAS SOLENOID VALVE	VS	VENT STACK
GV	GAS VENT	VTR	VENT THRU ROOF
HB	HOSE BIBB	W	WASTE
HC	HANDICAPPED ACCESSIBLE	W&T	WASTE & TRAP
HW	HOT WATER	W&V	WASTE & VENT
HWR	HOT WATER RECIRCULATION	WC	WATER CLOSET
INV	INVERT	WCO	WALL CLEANOUT
IW	INDIRECT WASTE	WH	WALL HYDRANT
LAV	LAVATORY	WHA	WATER HAMMER ARRESTER
LPG	LIQUIFIED PETROLEUM GAS	WS	WASTE STACK
MBH	THOUSAND B.T.U. PER HOUR		
MEDGAS, MG	MEDICAL GAS		

## PLUMBING PIPING LEGEND

----	COLD WATER
----	HOT WATER
----	HOT WATER RECIRCULATION
150'----	HOT WATER 150' F
150'----	HOT WATER RECIRCULATION 150' F
TW----	TEMPERED OR TEPID WATER
TWR----	TEMPERED OR TEPID WATER RECIRCULATION
----	WASTE OR SANITARY
----	WASTE OR SANITARY BURIED
ST----	STORM
ST----	STORM BURIED
OST----	OVERFLOW STORM
----	VENT
C----	CONDENSATE WASTE
OPD----	CONDENSATE WASTE - PUMP DISCHARGE
IW----	INDIRECT WASTE
PD----	PUMPED DISCHARGE
G----	GAS (NATURAL)
LPG----	LIQUIFIED PETROLEUM GAS
HPG----	HIGH PRESSURE GAS
GV----	GAS VENT
PCW----	BACKFLOW PREVENTER-PROTECTED COLD WATER
----	DIRECTION OF FLOW
=====	REMOVE EXISTING PIPING OR EQUIPMENT
=====	EXISTING PIPING OR EQUIPMENT
----->	PIPE DOWN
----->	PIPE DROP
----->	PIPE RISE
----->	PIPE ANCHOR
=====	PIPE GUIDE OR SLEEVE
----->	PIPE EXPANSION FITTING
----->	VIBRATION ISOLATION FITTING
----->	PLUGGED OR CAPPED PIPE
----->	CLEANOUT PLUG (WITH FINISHED PLATE FOR WCO)
----->	FLOOR CLEANOUT

## PLUMBING SYMBOL LEGEND

⊥	THERMOMETER
⊙	PRESSURE GAUGE WITH PETCOCK
⊥	WATER HAMMER ARRESTER WITH SHUTOFF VALVE
Y	STRAINER - "Y" TYPE
⊥	P-TRAP
⊥	ROOF DRAIN
⊙	FLOOR DRAIN
⊥	SHOWER HEAD
⊥	TRAP PRIMER (REFER TO SPECIFICATIONS FOR TYPE)
⊥	UNION
⊙	PETCOCK
⊙	BALANCING VALVE
⊥	BALL VALVE
⊥	BUTTERFLY VALVE
⊥	CURB GATE VALVE & BOX
⊥	BACKWATER VALVE
⊥	CHECK VALVE
⊥	BACKFLOW PREVENTER (DOUBLE CHECK VALVE TYPE)
⊥	BACKFLOW PREVENTER ASSEMBLY (RPD) WITH SHUTOFF VALVES
⊥	THERMOSTATIC MIXING VALVE
⊥	SOLENOID VALVE
⊥	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR TYPE)
⊥	GAS VALVE
⊥	OS&Y GATE VALVE
⊥	VALVE IN PIPE DROP
⊥	VALVE IN PIPE RISER
⊥	ANGLE VALVE
⊥	WALL HYDRANT (WH) OR HOSE BIBB (HB)
⊥	PRESSURE REDUCING VALVE (* = PSI SETTING)
⊥	GAS PRESSURE REGULATOR
⊥	DRAIN
⊥	TEMPERATURE & PRESSURE RELIEF VALVE (T&P)
⊥	WATER METER
⊥	GAS METER
⊥	CONNECT TO EXISTING
⊥	FIXTURE TYPE (REFER TO SPECIFICATIONS FOR TYPE)
⊥	EMERGENCY SHOWER/EYEWASH
⊥	PUMP
⊥	ADA ACCESSIBLE FIXTURE
⊥	VALVE NORMALLY CLOSED

## LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

## ENGINEERS:

HVAC / ELECTRICAL / PLUMBING /  
FIRE PROTECTION:  
VanZelm Heywood & Shadford  
10 Talcott Notch  
Farmington, CT 06032  
T: 860. 284.5064  
F: 860. 284.5098  
VZHS PROJECT# 2007190.88

## CONSULTANTS:

STRUCTURAL:  
The Louis Berger Group, Inc.  
1001 Elm Street, Suite 203  
Manchester, NH 03101  
T: 603. 644. 5200  
F: 603. 644. 5220

## Drawing Title PLUMBING LEGENDS, ABBREVIATIONS AND GENERAL NOTES

Approved: Safety Manager

Approved By: Project Engineer

Approved By: Chief, FMS

## Project Title BOILER PLANT MODIFICATIONS VETERANS INTEGRATED SERVICE NETWORK 1

Location  
**MANCHESTER, N.H.**

Building #  
**7**

Scale  
**NONE**

Checked  
**CWP**

Drawn  
**WAP**

Date  
03/21/2011

VA Project Number  
**608-11-110**

Drawing Number

**P000**

Dwg. 6 of 20

**Office of  
Facilities  
Management**

**Department of  
Veterans Affairs**

4	Construction Documents	03-21-11
3	100% Review	04-30-10
2	90% Construction Documents	01-22-10
1	PROGRESS SET	07-20-09
<b>Revisions:</b>		<b>Date</b>