









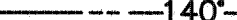







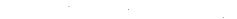






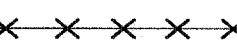

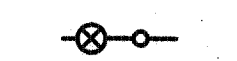




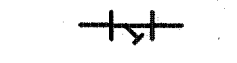

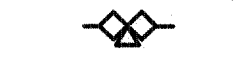


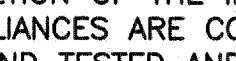


1. DRAWINGS ARE DIAGNOSTIC ONLY. BUT THE GENERAL SCHEME OF THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS OF PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO THE FIELD CONDITION.
3. THE CONTRACTOR SHALL CONSULT AND COORDINATE WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES WITH THEIR WORK DURING INSTALLATION OF PIPING, EQUIPMENT, ETC.
4. ALL EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
5. THE CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESSED PERMISSION OF THE AUTHORITY. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME SUITED BY THE OWNER.
6. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE IN ADVANCE TO THE AUTHORITY OF ANY REQUIRED SHUTDOWNS.
7. TO ENSURE CONTINUOUS OPERATION, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COSTS RESULTING TEMPORARY SHUT DOWNS SHALL BE BORNE BY THIS CONTRACTOR.
8. THE CONTRACTOR SHALL RECONNECT ALL EXISTING MAINS AND BRANCHES TO THE NEW WATER PIPING EITHER THEY ARE SHOWN ON DRAWINGS OR NOT.
9. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ACTIVE OR INACTIVE PIPING CONDITIONS, WHERE OCCUR.
10. THE CONTRACTOR SHALL CAP ANY INACTIVE LINES AT NO ADDITIONAL COST.
11. PROVIDE PUMPING & PIPING SERVICE TO EMPTY THE DRAIN WATER FROM THE SUMP PIT. CLEAN EXISTING SUMP PIT, ALL EXISTING UNDERGROUND WASTE PIPING AND BLOWDOWN PIPING IN BOILER ROOM, TOGETHER WITH ALL FLOOR DRAIN, IN THE BOILER ROOM AND AS SHOWN ON THE DRAWINGS.
12. ALL PLUMBING REMOVALS AND NEW WORK SHALL BE COORDINATED WITH PHASING PLANS AND WITH EXISTING CONDITIONS IN THE FIELD TO MAINTAIN THE CONTINUITY OF ALL THE PLUMBING SERVICES AND UTILITIES.
13. THE TYPE B GAS VENT MUST BE PLAINLY AND PERMANENTLY IDENTIFIED WITH A METAL LABEL THAT SAYS: TYPE B GAS VENT LISTED AND ACCEPTED IN ACCORDANCE WITH THE CONDITIONS OF THE ACCEPTANCE AND APPLICABLE PROVISIONS OF THE NEW YORK CITY BUILDING CODE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PIPING OCCURRING DURING CONSTRUCTION AND AFTER THE TESTING HAS BEEN COMPLETED.

ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE 2008 NEW YORK CITY PLUMBING CODE.

- | PUMP SCHEDULE | | | | | | | | | | | |
|---------------|------------|-------------------|---------------------------|-----|----------|------------|---------|-------|-------|-------|---|
| PUMP # | LOCATION | TYPE | SERVICE | GPM | TDH FEET | MOTOR DATA | | | | | REMARKS |
| | | | | | | RPM | HP | PHASE | CYCLE | VOLTS | |
| P-1 | BOILER RM. | IN LINE CIRC PUMP | DOMESTIC HOT WATER RETURN | 12 | 15 | 1725 | ¾ | 1 | 60 | 115 | BRONZE BODY & BRONZE FITTED BASED ON BELL & GOSSET MOD # SERIES 60 AQUASTAT SET TO START @ 90° F & TO STOP @ 100° F. |
| P-2 | BOILER RM. | IN LINE CIRC PUMP | KITCHEN HOT WATER RETURN | 7 | 12 | 1725 | ¾ | 1 | 60 | 115 | BRONZE BODY & BRONZE FITTED BASED ON BELL & GOSSET MOD # SERIES PR AQUASTAT SET TO START @ 120° F & TO STOP @ 130° F. |
| P-3 & P-4 | BOILER RM. | DUPLEX SUMP PUMPS | CLEAR WATER DRAINAGE | 125 | 25 | 1150 | 1½ EACH | 3 | 60 | 208 | BASED ON FEDERAL PUMP CO. MODEL VSP-3K-1 1/2-6 WITH 48" x 48" FRAME, COVER, CONTROLS AND ACCESSORIES. CONC. PIT SIZE: 48" X 48" X 54" DEEP (V.I.F.) |

WATER HEATER NO.	LOCATION	RECOVERY RATE (GPH) 40°-140°F	INPUT	GALLONS STORAGE	MOTOR DATA				VENT SIZE	GAS CONN.	APPROX. WEIGHT LBS.	DIMENSIONS	REMARKS
					AMPS	PHASE	CYCLE	VOLTS					
HWH-1	BOILER ROOM	305	300,000 BTU/HR	318	11	1Ø	60	120	6"	3/4"	363 (HTR. ONLY)	HEATER: L 31 1/4" W 23 3/4" H 28"	BASED ON LOCHINVAR PACKAGED SYSTEM PU CONFIGURATION WITH WATER HEATER MOD # EWN 300 PM F9 & RGA0318 VERTICAL TANK. WATER HEATER TO BE TESTED PER ANSI 21.10. WATER HEATER THERMAL EFFICIENCY IS 84%. PROVIDE CONDENSION APPROVED "VENTLESS" HIGH-LOW GAS PRESSURE SWITCHES.
											987 (TANK ONLY)	TANK: H 80" DIA. 40"	
USE WITH 14.0 GALLON ASME EXPANSION TANK, PRE-CHARGED, DIAPHRAGM TYPE, W/ 9.0 GALLON MAX. ACCEPTANCE VOLUME, OR APPROVED EQUAL											84	HT. 19 1/4" DIA. 16 1/4"	BASED ON BELL & GOSSETT MODEL # PTA-30V, W/55 PSI FACTORY PRE-CHARGED PRESSURE, FLOOR MOUNTED
HWH-2	BOILER ROOM	124	30 KW	119	(6) 5 KW HEAT ELEMENTS EQUAL TO 30 KW TOTAL 2ØBV, 3 PHASE, 83 AMP						430	H 65" DIA. 30"	TEMP. ELECT. HWH BASED ON LOCHINVAR MODEL # HCK30-120A, 2ØBV, 3 PHASE, 60 HZ MEA# 174-86

	NEW WORK		UNION
	EXISTING WORK		AQUASTAT
	SOIL OR WASTE (S/W)		PUMP
	UNDERGROUND PIPING		PIPE SLEEVE
	COLD WATER (CW)		FLOW-IN DIRECTION OF ARROW
	HOT WATER 140° (HW 140°)		FLOOR DRAIN (F.D.)
	HOT WATER 105° (TEMP)		FLOOR DRAIN TO BE REMOVED
	HOT WATER RETURN 105° (HWR)		CONNECTION TO EXISTING
	HOT WATER RETURN 140° (HWR 140°)		POINT OF DISCONNECTION
	VENT PIPING (V)	CLG.	CEILING
	SANITARY PIPING	CFH	CUBIC FEET PER HOUR
	STORM PIPING	MU	MAKE UP WATER
	FIRM GAS PIPING (G)	RPZ	REDUCED PRESSURE ZONE
	BLOW DOWN PIPING (BD)	R.T.	RUNNING TRAP
	PUMP DISCHARGE (PD)	WC	WATER COLUMN
	EXISTING TO BE REMOVED	BVA	BALANCING VALVE ASSEMBLY
	GATE VALVE (GV)	H.B.	HOSE BIBB
	CHECK VALVE (CV)	EXIST.	EXISTING TO REMAIN, UNLESS OTHERWISE NOTED
	GATE VALVE & DRAIN BIBB	TYP.	TYPICAL
	THREE WAY MIXING VALVE	H.P.	HIGH PRESSURE
	THERMOSTATIC MIXING VALVE	L.P.	LOW PRESSURE
	PLUG VALVE	A.W.D.	AREAWAY DRAINS
	GAS SAFETY SHUT-OFF VALVE	AFF	ABOVE FINISH FLOOR
	GAS COCK	V.I.F.	VERIFY IN FIELD
	BALL VALVE (BV)	E.T.	EXPANSION TANK
	STRAINER	PDE	POINT OF ENTRY
	CLEAN OUT DECK PLATE (CODP)		
	CLEAN OUT (CO)		
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER		

A. UPON COMPLETION OF THE INSTALLATION OF A SECTION OF A GAS SYSTEM OR OF THE ENTIRE GAS SYSTEM, AND BEFORE APPLIANCES ARE CONNECTED THERETO, THE ENTIRE GAS SYSTEM SHALL BE VERIFIED AS TO MATERIALS, AND TESTED AND PROVEN TIGHT BY THIS CONTRACTOR, AS FOLLOWS:

- 20 of 59