PLUMI	BING PI	PING FITTING	G SCHEDULE		
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD	
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	LEAD-FREE SOLDER ASTM B828	ASTM B 16.22	
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH-ON	AWWA C110	
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPPER	LEAD FREE SOLDER ASTM B828	ASTM B 16.22	
SANITARY AND VENT (ABOVE GROUND)	ALL	SERVICE WEIGHT CAST IRON	NO-HUB ASTM C1277 ASTM C564	ASTM A 74	
SANITARY AND VENT (BELOW GROUND)	ALL	EXTRA—HEAVY CAST IRON	HUB AND SPIGOT ASTM C564	ASTM A 74	
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	TYPE 316L STAINLESS STEEL	PUSH-ON	ASME A 112.3.1	
PUMP DISCHARGE	ALL	DUCTILE IRON	ILE IRON THREADED		
GAS PIPING (ABOVE GROUND)	4" AND LESS	MALLEABLE IRON	THREADED OR WELDED	ASTM B 16.3	
GAS PIPING (ABOVE GROUND)	6" AND UP	MALLEABLE IRON	WELDED	ASTM B 16.3	

PLUMBING PIPING MATERIAL SCHEDULE								
SERVICE	SIZE (IN)	MATERIAL TYPE/WEIGH		STANDARD				
WATER PIPE (ABOVE GROUND)	3" AND LESS	COPPER	TYPE L TUBE	ASTM B 88				
WATER PIPE (ABOVE GROUND)	4" AND UP	DUCTILE IRON	MECHANICAL OR PUSH-ON	AWWA C151				
WATER PIPE (BELOW GROUND)	2½" AND LESS	COPPER	TYPE K SOFT	ASTM B 88				
SANITARY AND VENT (ABOVE GROUND)	ALL	CAST IRON	SERVICE WEIGHT	ASTM A 74				
SANITARY AND VENT (BELOW GROUND)	ALL	CAST IRON	EXTRA-HEAVY WEIGHT	ASTM A 74				
SANITARY AND VENT (BELOW GROUND SERVING BREWERY)	ALL	STAINLESS STEEL	TYPE 316L	ASME A 112.3.1				
PUMP DISCHARGE	ALL	DUCTILE IRON	THREADED	AWWA C110				
GAS PIPING (ABOVE GROUND)	ALL	BLACK STEEL	SCHEDULE 40	ASTM A 53				

PLUMBING PIPE INSULATION SCHEDULE									
INSULATION THICKNESS (INCHES)									
SERVICE PIPE SIZE (INCHES)									
BELOW 1½" 1½" AND OVER									
COLD WATER	1/2"	1"							
HOT WATER	1"	1½"							
HOT WATER RECIRCULATION	1"	1½"							
EXTERIOR PUMP DISCHARGE	1"	1"							
1. PIPE COVERING SHALL B	E FIBERGLASS PIF	PE INSULATION							

- 1. PIPE COVERING SHALL BE FIBERGLASS PIPE INSULATION WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
- 2. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING OVAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

WATTS WATER HAMMER ARRESTORS									
NO. 15 SIZE	FIXTURE UNITS	CROSS REF. PDI STANDARD							
1/2" M1	1-11	А							
3/4" M1	12-32	В							
1" M1	33-60	С							
1-1/4" M1	61-113	D							
1-1/2" M1	114-154	E							
2" M1	155-330	F							

SYMBOL   ABBREVIATION   DESCRIPTION   SYMBOL   ABBREVIATION   DESCRIPTION		SYMBOLS AND ABBREVIATIONS									
— GPH   GALLONS PER HOUR   — —   — WALL HYDRANT	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION					
FD FLOOR DRAIN  TYP. TYPICAL  VOLTS  VOLTS  VIR VENT THROUGH ROOF  N INCHES  CW DOMESTIC COLD WATER  HW DOMESTIC HOT WATER  HW DOMESTIC HOT WATER RETURN  W WIDTH  LENGTH  S SANTARY  O DIA DIAMETER  VENT  PIPE CAP  PIPE CAP  PLUG VALVE  MAX MAXINUM  BALL VALVE  MAX MAXINUM  PRESSURE REDUCING VALVE  FD FLOOR DRAIN  FO PRESSURE REDUCING VALVE  PSIG POUNDS PER SQUARE INCH  HEIGHT  LENGTH  LENGTH  DIA DIAMETER  PIPE CAP  PIPE CAP  THERMOMETER  THERMOMETER  THERMOMETER  CO CLEAN OUT  PRESSURE GAUGE  WCO WALL CLEAN OUT  TEE UP	_	DN.	DOWN		_	HOSE-BIBB					
TYP.   TYPICAL   PN	_	GPH	GALLONS PER HOUR	+	-	WALL HYDRANT					
—         V         VOLTS         —         "F         DEGREES FAHRENHEIT           —         VTR         VENT THROUGH ROOF         —         IN         INCHES           —         CW         DOMESTIC COLD WATER         —         PSIG         POUNDS PER SQUARE INCH           —         HW         DOMESTIC HOT WATER         —         H         HEIGHT           —         HWR         DOMESTIC HOT WATER RETURN         —         W         WIDTH           —         G         PROPANE         —         L         LENGTH           —         S         SANITARY         Ø         DIA         DIAMETER           —         VENT         —         —         PIPE CAP           —         VENT         —         —         MIN         MINIMUM           —         BALL VALVE         —         MAX         MAXIMUM           —         —         MAX         MAXIMUM         —           —         —         MAX         MAXIMUM         —           —         —         MAX         MAXIMUM         —         —           —         —         MAX         MAXIMUM         —         —         —         <		GPM	GALLONS PER MINUTE		FD	FLOOR DRAIN					
—         VTR         VENT THROUGH ROOF         —         IN         INCHES           ——         CW         DOMESTIC COLD WATER         —         PSIG         POUNDS PER SQUARE INCH           ——         HW         DOMESTIC HOT WATER         —         H         HEIGHT           ——         HWR         DOMESTIC HOT WATER RETURN         —         W         WIDTH           ——         G         PROPANE         —         L         LENGTH           ——         S         SANITARY         Ø         DIA         DIAMETER           ——         V         VENT         —         PIPE CAP           ——         —         PIPE CAP         —         MIN         MINIMUM           ——         —         PLUG VALVE         —         MAX         MAXMUM           ——         —         BALL VALVE         —         MAX         MAXMUM           ——         —         MANUAL AIR VENT         —         FT²         SQUARE FEET           —         —         THERMOMETER         —         —         CO         CLEAN OUT           —         —         —         —         —         —         —         TEE UP		TYP.	TYPICAL	Å	PRV	PRESSURE REDUCING VALVE					
		V	VOLTS	_	°F	DEGREES FAHRENHEIT					
		VTR	VENT THROUGH ROOF	_	IN	INCHES					
————         HWR         DOMESTIC HOT WATER RETURN         —         W         WIDTH           —————         G         PROPANE         —         L         LENSTH           ———————————         S         SANITARY         Ø         DIA         DIAMETER           ——————————————————————         PIPE CAP         —         —         PIPE CAP           ————————————————————————————————————		CW	DOMESTIC COLD WATER	_	PSIG	POUNDS PER SQUARE INCH					
— L         LENGTH           — S         SANITARY         Ø         DIA         DIAMETER           — V         VENT         — ]         — PIPE CAP           — — PLUG VALVE         — MIN MINIMUM           — BALL VALVE         — MAX MAXIMUM           — • MANUAL AIR VENT         — FT²         SQUARE FEET           — THERMOMETER         — CO         CLEAN OUT           — PRESSURE GAUGE         — WCO         WALL CLEAN OUT           — UNION         — SD STORM DRAIN           ○ CODP         CLEANOUT DECK PLATE         — O — — TEE UP		HW	DOMESTIC HOT WATER	_	Н	HEIGHT					
S SANITARY  Ø DIA DIAMETER V V VENT  — PIPE CAP  — PLUG VALVE  — MIN MINIMUM  — BALL VALVE  — MAX MAXIMUM  — FT² SQUARE FEET  — THERMOMETER  — CO CLEAN OUT  — PRESSURE GAUGE  — WCO WALL CLEAN OUT  — UNION  — SD— SD STORM DRAIN  — TEE UP		HWR	DOMESTIC HOT WATER RETURN	_	W	WIDTH					
v V VENT —	—	G	PROPANE	_	L	LENGTH					
— → PLUG VALVE — MIN MINIMUM  — BALL VALVE — MAX MAXIMUM  — MANUAL AIR VENT — FT² SQUARE FEET  — THERMOMETER — CO CLEAN OUT  — PRESSURE GAUGE — WCO WALL CLEAN OUT  — UNION — SD— SD STORM DRAIN  — CODP CLEANOUT DECK PLATE — — — TEE UP	—-s—	S	SANITARY	ø	DIA	DIAMETER					
→         BALL VALVE         -         MAX         MAXIMUM           →         -         MANUAL AIR VENT         -         FT²         SQUARE FEET           →         -         THERMOMETER         -         CO         CLEAN OUT           →         -         PRESSURE GAUGE         -         WCO         WALL CLEAN OUT           →         -         SD         STORM DRAIN           ○         CODP         CLEANOUT DECK PLATE         -         -         TEE UP	v	V	VENT	— <u> </u>	_	PIPE CAP					
— — — — — — — — — — — — — — — — — — —	<b>─</b> ▽	_	PLUG VALVE	_	MIN	MINIMUM					
THERMOMETER  - THERMOMETER  - PRESSURE GAUGE  - PRESSURE GAUGE  - UNION  - SD STORM DRAIN  CODP CLEANOUT DECK PLATE  - TEE UP	•		BALL VALVE	_	MAX	MAXIMUM					
→         −         PRESSURE GAUGE         →         WCO         WALL CLEAN OUT           →         −         UNION         —SD         STORM DRAIN           ○         CODP         CLEANOUT DECK PLATE         —         −         TEE UP	<u> </u>	_	MANUAL AIR VENT	_	FT²	SQUARE FEET					
— III—         — SD—         SD         STORM DRAIN           ○         CODP         CLEANOUT DECK PLATE         — ○ —         — TEE UP		_	THERMOMETER	<b>—</b>	CO	CLEAN OUT					
CODP CLEANOUT DECK PLATE ————————————————————————————————————	<u></u>	_	PRESSURE GAUGE	<b>-</b>	WCO	WALL CLEAN OUT					
	<del>  </del>	_	UNION	— SD —	SD	STORM DRAIN					
NEW NEW WORK — — TEE DN	$\bigcirc$	CODP	CLEANOUT DECK PLATE		_	TEE UP					
		NEW	NEW WORK		_	TEE DN					
O ELBOW UP - BFP BACK FLOW PREVENTION DEVICE	0—	_	ELBOW UP	_	BFP	BACK FLOW PREVENTION DEVICE					
C ELBOW DOWN - DCDA DOUBLE CHECK DETECTOR ASSEMBLY	c—	_	ELBOW DOWN	_	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY					
—ЭС— — TRAP — RPZ REDUCED PRESSURE ZONE	—əc—	-	TRAP	_	RPZ	REDUCED PRESSURE ZONE					

				PIP	E HANGE	ER SCHE	DULE				
PIPE MAXIMUM HORIZONTAL SPACING (FEET)		SINGLE STEEL ROD HANGER SIZE (INCHES)		HANGER	MAXIMUM VERTICAL SPACING (FEET)						
SIZE (INCHES)	COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE	TUBING	PIPING	1725	COPPER TUBE	CAST IRON	STEEL PIPE	PVC PIPE
1/2"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10
3/4"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10
1"	6	5	8 (5)	3	1/4"	3/8"	BAND	10	15	15	10
11/4"	6	5	9 (5)	4	1/4"	3/8"	CLEVIS	10	15	15	10
1½"	6	5	9 (5)	4	1/4"	3/8"	CLEVIS	10	15	15	10
2"	10	5	10(5)	4	1/4"	3%"	CLEVIS	10	15	15	10
21/2"	10	5	12(5)	4	3/8"	1/2"	CLEVIS	10	15	15	10
3"	10	5	12(5)	4	3/8"	1/2"	CLEVIS	10	15	15	10
4"	10	5	12(5)	4	1/2"	5%"	CLEVIS	10	15	15	10
5"	10	5	12(5)	4	1/2"	5%"	CLEVIS	10	15	15	10
6"	10	5	12(5)	4	1/2"	3/4"	CLEVIS	10	15	15	10
8"	10	5	12(5)	4	5/8"	7⁄8"	CLEVIS	10	15	15	10
10"	10	5	12(5)	4	5/8"	7∕ <sub>8</sub> "	CLEVIS	10	15	15	10
12"	10	5	12(5)	4	5%"	7⁄8"	CLEVIS	10	15	15	10

NOTES:

. MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.

2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE

3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.

4. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.

5.  $\frac{1}{2}$ " Propane piping shall be supported every 6'-0".  $\frac{3}{4}$ " and 1" propane piping shall be supported every 8'-0".  $\frac{1}{4}$ " and larger propane piping shall be supported every

6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

## PLUMBING NOTES:

- 1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING CODE, NEW YORK STATE FIRE CODE, NEW YORK STATE FUEL GAS CODE, AND NEW YORK STATE BUILDING CODE, NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
- CONSERVATION CONSTRUCTION CODE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.

  2. PLUMBING CONTRACTOR SHALL PROVIDE ALL FIXTURES, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS
- COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.

  3. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS. ROUGHING—IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE
- ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES.

  4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE RATED PARTITIONS, CEILINGS AND FLOORS THE CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI
- INTUMESCENT FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS. CT.

  5. PLUMBING CONTRACTOR SHALL PITCH ALL SANITARY PIPING UNDER 3" A MINIMUM OF 1/4" PER FOOT. SANITARY PIPING 3" AND ABOVE MAY BE PITCHED A MINIMUM OF 1/8" PER FOOT. ALL SANITARY PIPING UPSTREAM OF A GREASE INTERCEPTOR
- SHALL BE PITCHED A MINIMUM OF ¼" PER FOOT.

  6. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO
- AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.

  7. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING

FIXTURES TO OWNER AND ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNERS AND REVIEW

- MAINTENANCE PROCEDURES.

  8. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED
- AREAS.

  9. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL
- PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENEF CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES.
   PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.
- 11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
- 12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (LATEST ADOPTED ADDITION) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION. 120V/1 MINIMUM CONDUCTOR SIZE # 12. 24V MINIMUM CONDUCTOR SIZE # 18.
- 13. PLUMBING CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING
- 14. WHERE REQUIRED PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL CONTRACTOR.
- 15. PLUMBING CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL ENGINEER.
- 16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT, COLD, AND HOT WATER RECIRCULATION
- 17. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".
- 18. ALL PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM EXISTING PIPING OR DUCTWORK.

  19. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING SYSTEMS AS REQUIRED FOR COMPLETION OF
- 20 PROVIDE DIFLECTRIC FITTINGS OR COLIPLINGS WHEREVER DISSIMILAR METALS ARE JOINED
- 20. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
  21. ALL PROPANE PIPING AND EQUIPMENT INSTALLATIONS SHALL BE AS PER THE NEW YORK STATE FUEL GAS CODE AND NFPA
- 22. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, HOT WATER, COMPRESSED AIR, LUBRICATION LINES, AND PROPANE SUPPLY PIPES.
- 23. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED.
- 24. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.
- 25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- 26. FIXTURE (GENERAL):

  A. FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED ESCUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDLEPROOF.
- B. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P'
  TRAPS WITH SCREW PLUG CLEANOUT, SLIP—JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME
  PLATED BRASS NIPPLE AT WALL WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140' SWING LIMIT
  STOPS
- C. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.
- JUSAM, OR A
- A. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN, STORM DRAIN, AND VENT SYSTEM, THE CONTRACTOR SHALL PERFORM AN AIR TEST WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY. THIS TEST SHALL BE HELD FOR A PERIOD OF AT LEAST 15 MINUTES.
- B. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM: OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.
- C. PROPANE DISTRIBUTION PIPING SHALL COMPLY WITH THE FOLLOWING:
- 1. TEST MEDIUM SHALL BE AIR, NITROGEN, CARBON DIOXIDE, OR AN INERT GAS. OXYGEN SHALL NOT BE USED.

  2. ABOVE GROUND PIPING SYSTEMS WITH WORKING PRESSURE UP TO ½ PSIG SHALL BE TESTED AT A PRESSURE OF 3 PSIG FOR A DURATION OF ½ HOUR FOR EACH 500 CUBIC FEET OF PIPE VOLUME BUT SHALL NOT BE LESS THAN 30
- D. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL TESTING REQUIREMENTS.
- 28. DOMESTIC WATER PIPING DISINFECTION:

29. PIPING AND EQUIPMENT IDENTIFICATION:

- A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED, TO MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.
- B. THE PLUMBING CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE.
- C. THE PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW.
- D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS.
- E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET MAIN OR THE ACTIVE WATER PIPING WITHIN THE BUILDING.
- F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
- A. PLUMBING CONTRACTOR TO PROVIDE OPTI—CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND FLOW DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED OVER INSULATION ONLY
- B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS "S" HOOK OR BRASS JACK CHAIN FASTENER.
- C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE.
  FRAME SHALL BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8-1/2" x 11"
  VALVE CHART
- D. EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL NEW EQUIPMENT.
- 30. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START—UP OF ALL EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
- 31. PLUMBING CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.

  32. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUITING PATCHING AND PAINTING ASSOCIATED WITH
- 32. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK.33. ALL HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. USE CAUTION WHEN CORE DRILLING
- 33. ALL HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 34. ALL EXTERIOR GAS PIPING SHALL BE PREPARED, PRIMED AND PAINTED BY THE GENERAL CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE.

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