

Brian E. Boyle A.I.A.

75 Spring Street 6th Flr  
New York, NY 10012  
212.334.7422  
Fax 212.334.6112

General Notes

NOTE:

## STANDPIPE GENERAL NOTES

- SIAMESE SHALL BE 3" X 3" X 4" FLUSH CONNECTION, OF APPROVED TYPE WITH SEPARATE CLAPPER AND CHAIN AS PER RS17-1-2.
- SIAMESE SHALL BE LOCATED 18" TO 36" ABOVE FINAL GRADE AND BE PROVIDED WITH APPROVED METAL "STANDPIPE" SIGN AS PER RS17-1-2(b)&(c).
- SIAMESE SHALL HAVE APPROVED TYPE 3/4" AUTOMATIC BALL DRIP SET IN A HORIZONTAL POSITION, AS PER RS17-1-2(e).
- HOSE SHALL BE "FLAX-LINE" UNLINED LINEN HOSE COUPLED IN 25 AND 50 FEET LENGTHS, AS PER 27-942(c).
- HOSE VALVES SHALL BE APPROVED TYPE 2-1/2" ANGLE GLOBE VALVE LOCATED NOT MORE THAN SIX FEET AND NOT LESS THAN FIVE FEET ABOVE FLOOR OR STAIR LANDING, AS PER 27-942(a)(1) AND RS17-1-3.
- HOSE RACKS SHALL BE APPROVED TYPE AS PER RS17-1-3(h).
- COUPLINGS AND NOZZLES SHALL BE APPROVED TYPE AS PER RS17-1-3(f) & (g).
- APPROVED 3-WAY MANIFOLD WILL BE LOCATED ABOVE THE ROOF. IF THE AREA IS NOT HEATED, A CONTROL VALVE AND AUTOMATIC BALL DRIP WILL BE PROVIDED IN HEATED SPACE BELOW, AS PER 27-942(a)(2).
- PIPE AND FITTINGS FOR STANDPIPE WILL BE ACCORDING TO RS17-1-1, ALL PIPE AND FITTINGS AS APPROVED BY BOARD OF STANDARDS AND APPEALS.
- SUPPORTS WILL COMPLY WITH RS17-1-1(e).
- TESTS SHALL COMPLY WITH 27-951.
- FROST PROTECTION TO BE PROVIDED AS PER 27-949.
- RISER LOCATION SHALL COMPLY WITH 27-936.
- INSTALL RISER CONTROL VALVES AS PER RS17-1-1(c)(3).
- FIRE PUMP SHALL BE INSTALLED AS PER RS17-1-5 AND 27-947, 27-948 AND 27-951.
- ELECTRICAL EQUIPMENT USED IN CONJUNCTION WITH THE STANDPIPE SYSTEM SHALL COMPLY WITH RS17-3.
- ALL DEVICES USED SHALL BEAR MANUFACTURER'S NAME AND NUMBER OF APPROVAL AS PER 27-939.
- CONTROL VALVES SHALL BE INDICATED BY SIGNS AND ARROWS; VALVES GREATER THAN 7'-0" ABOVE FLOOR AS PER RS17-1-1(c)(3)&(7) WILL BE MADE ACCESSIBLE BY MEANS OF APPROVED IRON LADDERS.
- VALVES SHALL BE SEALED OPEN BY MEANS OF HEAVY CHAIN AND APPROVED TYPE LOCKS AS PER RS17-1-1(c)(9).
- AN ELEVATOR SHALL BE MAINTAINED AT ALL TIMES FOR FIRE DEPARTMENT USE AS PER 27-989.
- THE COMPLETE STANDPIPE SYSTEM SHALL COMPLY WITH SUBCHAPTER 17, ARTICLE 3 AND REFERENCE STANDARD RS17-1 AND DIVISION OF FIRE PREVEN-TION.
- ALL BRANCH LINES TO HOSE RACKS SHALL BE IN ACCORDANCE WITH RS17-1-3(c)(1). 2-1/2" BRANCH LINES SHALL NOT EXCEED 4 FEET.

GENERAL REVISION 12.04.07  
GENERAL REVISION 10.18.06

4 ISSUED FOR PERMIT 01.22.08  
3 CONSTRUCTION SET 10.18.06  
2 BID SET 06-01-06  
1 ISSUED 03.20.06

No. Revision/Issue Date

The Deuce  
534 West 42nd Street  
New York NY 10036

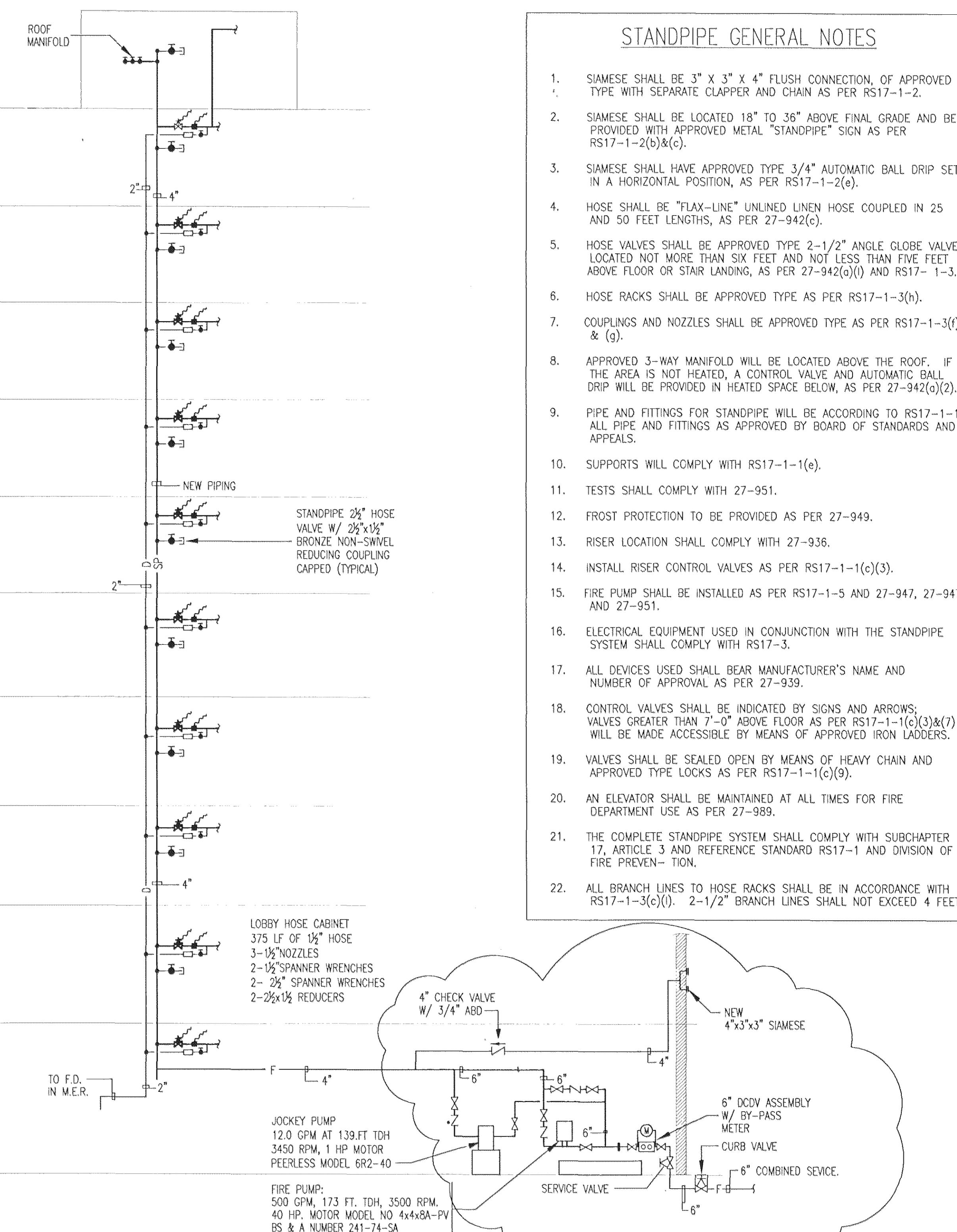
## SPECIFICATIONS RISER & NOTES

Scale	AS NOTED	Sheet No.
Date	10-10-2006	
Drawn By	...	

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## STANDPIPE RISER DIAGRAM

NO SCALE



NOTE  
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS BEING EITHER APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

MAR  
M. A. RUBIANO, P.C.  
CONSULTING ENGINEERS  
64 FULTON STREET, SUITE 505  
N.Y., N.Y. 10038 (212) 732-7842

**PLUMBING SPECIFICATIONS**

**SCOPE OF WORK**

- PROVIDE ALL THE LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- DOMESTIC WATER AND GAS PIPING INCLUDING VALVES AND FITTINGS.
- STORM, SOIL, WASTE AND VENT PIPING.
- HANGERS AND SUPPORTS.
- CUTTING AND PATCHING.
- STERILIZATION.
- TESTING.
- INSULATION.
- PLUMBING FIXTURES AND TRIM.
- MISCELLANEOUS (PUMPS, HOSE BIBBS, VACUUM BREAKERS, ETC.)
- SHOP DRAWINGS.

**CODES, RULES, PERMITS AND FEES**

- ALL WORK AND MATERIALS TO CONFORM TO THE N.Y. CITY BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION.
- GIVE NOTICES, OBTAIN PERMITS, PERFORM TESTS AND PAY ALL FEES OR COSTS IN CONNECTION WITH THIS WORK. FILE PLANS AND OBTAIN APPROVALS OF AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- SUBMIT "CERTIFICATE OF COMPLIANCE" RESULTING FROM FINAL INSPECTION BY LOCAL GOVERNING BODY BEFORE REQUEST FOR FINAL PAYMENT OF CONTRACT.

**INTERIOR PIPING MATERIAL**

- UNDERGROUND INTERIOR SOIL/WASTE, VENT AND STORM PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE, AND BELL AND SPIGOT FITTINGS, WITH OAKUM PACKING AND CAULKED MOLLEN LEAD IN ONE CONTINUOUS FOUR. FITTINGS FOR CAST IRON SOIL PIPE BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON BELL AND SPIGOT, AND SHALL BE AS MANUFACTURED BY TYLER OR CENTRAL FOUNDRY COMPANY, OR APPROVED EQUAL.
- HORIZONTAL INTERIOR SOIL, INDIRECT WASTE, WASTE, STORM, VENT, AND LEADER PIPING ABOVE GROUND SHALL BE NO-HUB, STANDARD WEIGHT, CAST IRON SOIL PIPE AND GALVANIZED STEEL SCREW PIPE WITH GALVANIZED CAST IRON RECESSED DRAINAGE FITTINGS, WITH GALVANIZED MALLEABLE BEADED FITTINGS FOR VENT PIPING.
- UNDERGROUND (BELOW SLAB) DOMESTIC WATER PIPING SHALL BE TYPE "K" COPPER TUBING, SOFT TEMPER ASTM B-88 WITH WROUGHT COPPER BRAZED FITTINGS. MINIMUM 125 PSI W.P. BRAZED JOINTS SHALL BE AS SPECIFIED FOR DOMESTIC WATER PIPING. ALL UNDERGROUND PIPE AND FITTINGS SHALL BE ASPHALT COATED.
- INTERIOR ABOVE-GROUND DOMESTIC WATER PIPING 5" AND SMALLER SHALL BE SEAMLESS DRAWN OR EXTRUDED COPPER TUBING TYPE 7" HARD TEMPER ASTM B-88. FITTINGS SHALL BE COPPER, BRAZING TYPE. JOINTS SHALL BE MADE WITH A BRAZING ALLOY (95/5) CONSISTING OF COPPER, SILVER AND PHOSPHOR.
- GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40, SEAMLESS. PIPING 3" AND LARGER SHALL BE PROVIDED WITH WELDING FITTINGS; 2-1/2" AND SMALLER, BLACK MALLEABLE IRON SCREWED FITTINGS.

**VALVES**

- VALVES AS SHOWN AND/OR REQUIRED FOR THE PROPER CONTROL OF PIPING AND FUNCTIONS OF EQUIPMENT SHALL BE APPROVED EQUAL OF JENKINS, STOCKHAM AND CRANE. NUMBERS GIVEN ARE STOCKHAM IN ORDER TO DETERMINE TYPE REQUIRED UNLESS OTHERWISE NOTED.
- SERVICE VALVES AND BALANCING VALVES UP TO 2": STOCKHAM BALL VALVE, BRONZE BODY, CHROME PLATED BRASS BALL, BRASS STEM, TEFON SEAT, 600 PSI W.W. FIGURE NUMBER S216 BRRS WITH SOLDER OR THREADED ENDS.
- VALVES 2-1/2 INCH AND LARGER SHALL BE IRON BODY, BRONZE MOUNTED, SWING CHECKS, CLASS 125, FLANGED ENDS, FIGURE NUMBER G-623.
- CHECK VALVES UP THROUGH 2 INCH SHALL BE BRONZE BODY SWING CHECKS, CLASS 125, SOLDER OR THREADED ENDS, FIGURE NUMBER B-309.
- CHECK VALVES 2-1/2 INCH AND LARGER SHALL BE IRON BODY, BRONZE MOUNTED, SWING CHECKS, CLASS 125, FLANGED ENDS, FIGURE NUMBER G-931.
- PRESSURE REDUCING VALVES - WATTS NO. N2235 WITH STRAINER.
- BACK FLOW PREVENTERS - WATTS U909S COMPLETE WITH UNIONS, BRONZE STRAINER AND BALL VALVES.
- MAIN SERVICE VALVES AT METER - JENKINS FIG. 368, O.S. & Y. BRONZE GATE VALVE, THREADED, UP TO SIZE 2", ABOVE SIZE 2", JENKINS FIG. 651A, IRON BODY BRONZE FITTED, FLANGED.
- GAS EQUIPMENT SERVICE VALVES - CRANE FIG. 270 FLATHEAD STOVE COCK.
- MAIN GAS VALVES AT METER - ROCKWELL FIG. 142.

**HANGERS AND SUPPORTS**

- ALL HORIZONTAL CAST IRON PIPE SHALL BE SUPPORTED EVERY FIVE (5) FEET AND AT EACH HUB AND/OR "NO-HUB" CLAMPING ASSEMBLY. WHEN CONCENTRATION OF FITTINGS OCCUR, ADDITIONAL SUPPORT SHALL BE INSTALLED CONSISTENT WITH GOOD TRADE PRACTICES. "NO-HUB" SYSTEM MUST BE SUPPORTED IN ACCORDANCE WITH STANDARD CISP1-310-78.
- ASSUME THE RESPONSIBILITY FOR THE PROPER TRANSFER OF THE LOADS OF THE PIPING SYSTEM TO THE STRUCTURE. NO ADDITIONAL COST TO THE OWNER SHOULD BE EXPECTED FOR ANY CORRECTIVE WORK DURING CONSTRUCTION.
- ALL OTHER HORIZONTAL RUNS OF PIPING SHALL BE FIRMLY SUPPORTED IN PLACE WITH APPROVED CLEVIS OR TRAPEZE HANGERS AND SUPPORTED IN MAXIMUM INTERVALS AS FOLLOWS:

COPPER PIPE

UP TO 1-1/4.....	6'-0"
1-1/2" TO 2-1/2".....	8'-0"
3" AND LARGER.....	10'-0"

CUTTING AND PATCHING

- THE CONTRACTOR SHALL, AS PART OF HIS CONTRACT, DO ALL CUTTING, PATCHING AND FITTING THAT MAY BE REQUIRED FOR THE INSTALLATION OF HIS WORK. CUTTING OF STRUCTURAL MEMBERS WILL NOT BE PERMITTED.
- ALL CUTTING AND PATCHING SHALL BE DONE TO THE APPROVAL AND SATISFACTION OF THE ARCHITECT. ALL SURFACES DAMAGED BY THIS INSTALLATION SHALL BE REFINISHED OR REPAINTED TO RESTORE THEM TO THEIR ORIGINAL CONDITION.

**INSULATION**

- INSULATION SHALL BE IN ACCORDANCE WITH NFPA FIRE AND SMOKE RATING OF 25/50.
- FITTING AND VALVES: ZESTON 25/50 RATED - 20 MIL PVC COVERS OVER FIBERGLASS INSULATION.
- COLD WATER PIPING:
  - COLD WATER - ALL SIZES - 1/2" INSULATION, A.S. JACKET.
  - STORM DRAINAGE PIPING AND DRAIN BODY - MINIMUM 1/2" INSULATION, A.S. JACKET.
  - FROSTPROOFED PIPING - 3" INSULATION, DUAL TEMPERATURE FIRE RETARDANT JACKET.
- HOT WATER PIPING:
  - HOT WATER SUPPLY - 1/2" TO 2" I.D. - 1" INSULATION, A.S. JACKET.
  - HOT WATER SUPPLY - 2-1/2" AND LARGER - 1-1/2" INSULATION.
  - HOT WATER CIRCULATING - ALL SIZES - 1" INSULATION, A.S. JACKET.
- MISCELLANEOUS EQUIPMENT:
  - INSULATE WATER METER WITH 4 POUND DENSITY 1" THICK VAPOR BARRIER GLASS INSULATION BLANKET, FITTED AND CONTOUR TO SHAPE AND SECURED IN PLACE WITH BANDS OF WIRE. APPLY TWO COATS OF MINERAL WOOL, CEMENT AND TROWEL TO A SMOOTH FINISH, AND FINISH WITH TWO APPLICATIONS OF BENJAMIN FOSTER 30-36 VAPOR BARRIER FINISH.

**STERILIZATION**

- ISOLATE NEW WATER LINES FROM EXISTING AND STERILIZE WITH A MIXTURE OF 2 POUNDS OF CHLORINATED LIME TO EACH 1,000 GALLONS OF WATER (50 PPM OF AVAILABLE CHLORINE), RETAIN THE MIXTURE IN PIPES FOR 24 HOURS AND FLUSH IT THOROUGHLY WITH POTABLE WATER BEFORE PLACING IT IN SERVICE.

**TESTING**

- Fixture, piping, and equipment shall be given an in-service test after completion of the installation.
- DOMESTIC WATER PIPING:
 

ISOLATE THE NEW HOT AND COLD WATER PIPING FROM THE EXISTING. UPON COMPLETION OF THE ROUGH-ING AND BEFORE SETTING FIXTURES, THE ENTIRE NEW HOT AND COLD WATER PIPING SYSTEMS SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF NOT LESS THAN ONE HUNDRED TWENTY-FIVE (125) POUNDS PER SQUARE INCH GAUGE, AND PROVED TIGHT AT THIS PRESSURE FOR NOT LESS THAN TWO (2) HOURS.
- DRAINAGE AND VENT PIPING:
 

THE PIPING OF THE DRAINAGE AND VENTING SYSTEMS SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES.
- ALL OPENINGS IN THE PIPING SHALL BE TIGHTLY CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. THE WATER SHALL BE KEPT IN THE SYSTEM FOR AT LEAST THIRTY (30) MINUTES BEFORE THE INSPECTION STARTS; THE SYSTEM SHALL THEN BE TIGHT AT ALL JOINTS.

**CLOSING IN UNINSPECTED WORK**

- DO NOT COVER UP OR ENCLOSE WORK UNTIL IT HAS BEEN PROPERLY AND COMPLETELY INSPECTED AND APPROVED. SHOULD ANY OF THE WORK BE COVERED UP OR ENCLOSED, PRIOR TO ALL REQUIRED INSPECTIONS AND APPROVALS, UNCOVER THE WORK AS REQUIRED, AND AFTER IT HAS BEEN COMPLETELY INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS WITH SUCH MATERIALS AND WORKMANSHIP AS ARE NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

**PLUMBING FIXTURES**

- ALL EXPOSED BRASS TRIMMINGS, INCLUDING FAUCETS, FLUSH VALVES, TRAPS, WASTE, STRAINERS, STOP VALVES, ESCUTCHEONS, SUPPLIES, ETC., SHALL BE CHROME-PLATED. ALL FIXTURES INSTALLED BY THIS CONTRACTOR SHALL BE PROVIDED WITH INDIVIDUAL STOP VALVES ON HOT AND COLD WATER SUPPLIES. ALL COLD WATER VALVES SHALL BE TO THE RIGHT AND HOT WATER VALVES TO THE LEFT OF FIXTURES.
- SCHEDULE: FIXTURES SHALL BE SPECIFIED ON ARCHITECTURAL DRAWINGS.

**MISCELLANEOUS**

- DRAINS:
 

ALL DRAINS, EXCEPT AS NOTED, SHALL BE SIMILAR TO OR EQUAL TO ZURN MFG. CO. AND SHALL BE AS FOLLOWS:

  - ROOF DRAINS R.D. TYPE A - SIMILAR AND EQUAL TO NO. Z-100 DURACOATED CAST IRON BODY WITH COMBINATION FLASHING COLLAR AND GRAVEL STOP, CAST IRON DOME AND PERFORATED EXTENSION COLLAR TO ACCOMMODATE ROOF INSULATION.
  - ROOF DRAINS R.D. TYPE B - SIMILAR AND EQUAL TO NO. Z-100-ERC DURACOATED CAST IRON BODY WITH COMBINATION FLASHING COLLAR AND GRAVEL STOP, CAST IRON DOME, UNDERDECK CLAMP AND SUMP RECEIVER AND PERFORATED EXTENSION COLLAR TO ACCOMMODATE ROOF INSULATION.
  - FLOOR DRAINS F.D. (MECHANICAL EQUIPMENT ROOMS) - SIMILAR AND EQUAL TO NO. Z-505 CAST IRON BODY AND FLASHING COLLAR, SQUARE NICKEL BRONZE TOP AND ZN-414 FUNNEL ATTACHED TO GRATE WHERE INDICATED ON THE DRAWINGS.
  - FLOOR DRAINS F.D. (FINISHED AREA, SHOWER, ETC.) - SIMILAR AND EQUAL TO NO. ZN-415-B CAST IRON BODY, FLASHING COLLAR, SQUARE NICKEL BRONZE TOP AND ZN-414 FUNNEL ATTACHED TO GRATE WHERE INDICATED ON THE DRAWINGS.
  - FLOOR SINK F.D. - SIMILAR AND EQUAL TO NO. Z-1900-1 CAST IRON ACID RESISTING ENAMELED, WITH DOME STRAINER, FLASHING FLANGE LESS GRATE.
  - AREA DRAINS F.D. - NO. Z-550 CAST IRON, DURACOATED, BOTTOM OUTLET, NO-PUNCTURING FLASHING CLAMP DEVICE, EXTENSION, NON-tilting GRATE.
- ESCUCHEOONS:
  - THIS CONTRACTOR SHALL PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPE WHEREVER THEY PASS THROUGH FLOORS, CEILINGS, WALLS OR PARTITIONS.
  - ESCUCHEOONS FOR PIPES PASSING THROUGH OUTSIDE WALLS AND FLOORS SHALL BE RITTER PATTERN AND CASTING CO. NO. 1, SOLID CAST BRASS, FLAT TYPE SECURED TO PIPE WITH SET SCREWS.