

PLUMBING SPECIFICATIONS

HANDICAP SPECIFICATIONS: ARCHITECTURAL BARRIERS ACT 42/USC. 4151-4157

GENERAL

THE WORK COVERED BY THESE SPECIFICATIONS INCLUDES BUT IS NOT LIMITED TO PROVIDING ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLY WITH REQUIREMENTS OF THIS FACILITY.

PLUMBING FIXTURES

A. WATER CLOSET (STANDARD) - AS IDENTIFIED ON PLANS - WITH OLSONITE SEAT #95. 1/2" C.W. SUPPLY AND 4" VENTED WASTE.

HEIGHT OF WATER CLOSET SEAT SHALL BE 17" MIN. & 19" MAX. FORCE REQUIRED TO ACTIVATE FLUSH VALVE LEVER TO BE 5 LBS. MAXIMUM (4.1.5)

B. LAVATORY - AS IDENTIFIED ON PLANS WITH FAUCET, 1/2" C.W. AND H.W. SUPPLY AND 1-1/2" VENTED WASTE. (WHEN SPECIFIED BARRIER FREE, MOUNT BOTTOM OF RIM @ 29" A.F.F.)

PROVIDE 30"x48" CLEAR FLOOR SPACE FOR FORWARD APPROACH, INCLUDING KNEE AND TOE SPACE. PROVIDE CLEAR SPACE BENEATH LAVATORY 29" HIGH x 30" WIDE x 8" DEEP (KNEE SPACE) AND 9" HIGH FROM THE FLOOR x 30" WIDE x 17" DEEP FROM FRONT OF LAVATORY (TOE SPACE)

EXPOSED WATER AND DRAIN PIPING BELOW LAVATORY SHALL BE INSULATED WITH "PLUMBEX" (OR EQUAL) PIPE COVERS.

FAUCET CONTROLS SHALL BE OF THE TYPE NOT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST AND AN OPERATING FORCE NOT EXCEEDING 5 LBS.

SELF-CLOSING VALVES SHALL BE OF THE TYPE REMAINING OPEN FOR AT LEAST 10 SECONDS.

C. CLEAN-OUTS - SHALL BE AS MANUFACTURED BY JOSAM, ZURN, OR EQUAL, AND SHALL BE INSTALLED AT ALL BENDS, ANGLES, AND ENDS OF ALL WASTE AND SEWER LINES, AS CALLED FOR ON THE DRAWINGS AND AS REQUIRED BY LOCAL CODES. ALL CLEAN-OUTS SHALL BE FLUSH WITH FINISHED FLOOR TO GRADE, AND IN ALL CASES, SHALL BE PROVIDED WITH SUFFICIENT SPACE FOR ROODING.

D. FLOOR DRAIN - AS IDENTIFIED ON PLANS. CAST IRON DRAIN WITH CHROME PLATED ADJUSTABLE STRAINER. INSIDE CAULK. OUTLET AND CLAMPING DEVICE WHERE REQUIRED. PROVIDE WITH TRAP PRIMER TAP AND TRAP PRIMER WHERE INDICATED.

E. WATER HEATER - MANUFACTURER AS IDENTIFIED ON PLANS. REFER TO PLUMBING DRAWING TO DETERMINE IF NEW WATER HEATER IS A TANK TYPE OR IS OF THE INSTANTANEOUS VARIETY.

F. DRINKING FOUNTAIN - AS IDENTIFIED ON PLANS. B1 - LEVEL BARRIER FREE AS SCHEDULED WITH 1/2" CW WITH ANGLE VALVE, AND 1-1/2" VENTED WASTE WITH P-TRAP VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS

NOTE: OWNER'S GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION OF ALL TOILET ACCESSORIES INCLUDING SUPPORT BLOCKING INSIDE WALL.

MATERIALS

A. SANITARY SEWER - ALL SANITARY AND VENT PIPING TO BE CAST IRON, NO PVC OR PLASTIC PIPING IS PERMITTED ON THIS PROJECT.

B. DOMESTIC WATER AND HOT WATER PIPING TO BE COPPER TYPE "L" INSULATED WITH ARMAFLEX OR EQUIVALENT INSULATING TO A THICKNESS OF 1".

PIPING

A. PIPING AND FITTINGS SHALL BE OF THE WEIGHTS AND TYPES SHOWN ON DRAWINGS. SIZES SHOWN ON ON DRAWINGS ARE NOMINAL PIPE SIZES.

B. ALL PIPING SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES WITH THE BUILDING WALLS AND PARTITIONS AND SHALL BE INSTALLED WITH THE PROPER PITCH.

C. ALL PIPING SHALL BE UPENDED AND POUNDED TO REMOVE ANY FOREIGN MATERIAL PRESENT AND SHALL BE SWABBED IF NECESSARY.

PREPARING PIPE

A. SCREWED PIPE SHALL BE INSTALLED WITH PIPE COMPOUND APPLIED TO THE MALE THREAD WITH NOT MORE THAN TWO THREADS LEFT EXPOSED. PIPE SHALL BE REAMED AFTER THREADING.

B. COPPER JOINTS SHALL BE MADE UP WITH LEADLESS 95-5 SOLDER.

HANGERS AND SUPPORTS

HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'-0" WITH SWIVEL SPLIT PIPE HANGERS EQUAL TO CRANE #199F OR GRINNELL #104. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF WROUGHT IRON CLAMPS SUSPENDED FROM THE UNDERSIDE OF STRUCTURE WITH HANGER RODS.

VALVES

ALL VALVES SHALL BE BRASS AND MANUFACTURED BY CRANE, NIBCO, STOCKHAM, LUNKENHEIMER, NORDSTROM, GRINNELL, OR EQUAL.

TESTING AND ADJUSTING

CONTRACTOR SHALL DEMONSTRATE OPERATION OF PIPING SYSTEM TO FULL SATISFACTION OF TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING CODES.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED PLUMBING SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE TENANT.

PLUMBING SYMBOL LEGEND

| | | | |
|--|------------------------|--|-----------------------------------|
| | SANITARY SEWER LINE | | TEMPERATURE PRESSURE RELIEF VALVE |
| | VENT LINE | | POINT OF CONNECTION |
| | COLD WATER SUPPLY | | HI-LOW DRINKING FOUNTAIN |
| | HOT WATER SUPPLY | | HOSE BIBB |
| | SHUT-OFF VALVE | | MOP SINK |
| | BACKFLOW PREVENTER | | LAVATORY |
| | VENT THRU ROOF | | WATER CLOSET |
| | CAST IRON | | ABOVE FINISHED FLOOR |
| | FLOOR CLEAN OUT | | BELOW FINISHED FLOOR |
| | WALL CLEAN OUT | | WATER METER |
| | FLOOR DRAIN | | WATER HEATER |
| | ASSE 1070 MIXING VALVE | | INSTANTANEOUS WATER HEATER |
| | TRAP PRIMER | | |

PLUMBING FIXTURE SCHEDULE

| FIXTURE DATA | | | | CONNECTION DATA | | | | REMARKS | |
|-------------------------|------|--------------------|-------------------------|-----------------|-----------|--------|----------------|----------|---|
| FIXTURE | QTY. | MFG. | CATALOG NO. | SOIL SIZE | VENT SIZE | TRAP | WATER COLD HOT | | |
| WATER CLOSET | 1 | *AMERICAN STANDARD | 2467.100 CADET | 4" | 2" | 2" | 1/2" | ---- | 1.1 GPF, 16-1/2" HIGH, PRESSURE ASSISTED, "RISE & SHINE" OPEN FRONT SEAT (MODEL #5325.024). FLUSH HANDLE ON WIDE SIDE OF ROOM. |
| WATER CLOSET | 1 | *AMERICAN STANDARD | 4142.801 3483.100 CADET | 4" | 2" | 2" | 1/2" | ---- | 1.1 GPF, 16-1/2" HIGH, PRESSURE ASSISTED, RIGHT HAND TRIP LEVER, "RISE AND SHINE" FRONT SEAT (MODEL#5325.024). FLUSH HANDLE ON WIDE SIDE OF TANK. |
| LAVATORY | 2 | *AMERICAN STANDARD | 0124.024 COMRADE | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" | 20"x18" VITREOUS CHINA, 4" CENTERSET, METERING FAUCET MODEL# 1340.225 W/O.5 GPM AERATOR |
| HI-LO DRINKING FOUNTAIN | 1 | *ELKAY | EZSTLBC | 1 1/4" | 1 1/4" | 1 1/4" | 3/8" | ---- | FRONT AND SIDE PUSHBARS ADA COMPLIANT, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS |
| FLOOR DRAIN | 2 | *JOSAM | 3000-SA-CP | 4" | 2" | 4" | ---- | ---- | ROUND TOP W/CHROME PLATED STRAINER |
| TRAP PRIMER | 1 | *PPP | PR-500 DU-2 | ---- | ---- | ---- | 1/2" | ---- | |
| WALL CLEAN OUT | 2 | *JOSAM | ---- | ---- | SEE RISER | ---- | ---- | ---- | |
| FLOOR CLEAN OUT | 1 | *JOSAM | ---- | ---- | SEE RISER | ---- | ---- | ---- | |
| WATER HEATER | 2 | *EEMAX | SP3208 | ---- | ---- | ---- | 3/8" IN | 3/8" OUT | INSTANTANEOUS TYPE WATER HEATER, 3000 WATTS, 208V, 1PH. |
| HOSE BIBB | 1 | *ZURN | Z1343 | ---- | ---- | ---- | ---- | 1/2" | PROVIDE A 5' HOSE AND INSTALL PER DETAIL 3 |

* - OR APPROVED EQUAL

PLUMBING FIXTURE CALCULATIONS

| PLUMBING FIXTURE | PLUMBING FIXTURE QUANTITY | DRAINAGE FIXTURE UNIT EA. | DRAINAGE FIXTURE UNIT TOTAL | VENT SIZE EACH | C.W. FIXTURE UNIT EACH | C.W. FIXTURE UNIT TOTAL |
|-------------------------|---------------------------|---------------------------|-----------------------------|----------------|------------------------|-------------------------|
| WATER CLOSET | 2 | 4 | 8 | 2" | 5 | 10 |
| LAVATORY | 2 | 1 | 2 | 1 1/2" | 2 | 4 |
| EMERGENCY FLOOR DRAIN | 1 | 0 | 0 | 2" | - | - |
| TRAP PRIMER | 1 | ---- | ---- | ---- | 0.5 | 0.5 |
| DRINKING FOUNTAIN | 1 | 0.5 | 0.5 | 1 1/2" | 0.25 | 0.25 |
| TOTALS | | | | 10.5 | - | 14.75 |
| | | | | SAN. | VENT | C.W. |
| SERVICE CONNECTION SIZE | | | | 4" | 3" | 1" |

PLUMBING KEYED NOTES

1 NEW INSTANTANEOUS TYPE WATER HEATER SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

2 PROVIDE AND INSTALL NEW ADA WATER CLOSET. REFER TO SCHEDULE, SPECIFICATIONS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

3 PROVIDE AND INSTALL NEW ADA LAVATORY. PROVIDE FAUCET, SHUT-OFFS, FLOOR MOUNT HANGER WITH SUPPORT ARMS, AND INSULATION AS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO SCHEDULE, SPECIFICATIONS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

4 EXTEND NEW 1" COLD WATER LINE TO LANDLORD'S 3/4" STUB-IN BELOW FLOOR. FIELD VERIFY EXACT LOCATION AND SIZE.

5 EXTEND AND CONNECT NEW 4" SANITARY PIPING TO LANDLORD'S 4" STUB-IN BELOW SLAB. FIELD VERIFY EXACT LOCATION AND SIZE.

6 EXTEND NEW 2" VENT PIPING AND CONNECT TO EXISTING 3" VENT PIPING ABOVE CEILING. FIELD VERIFY EXACT LOCATION AND SIZE.

7 NEW 3" FLOOR DRAIN WITH TRAP PRIMER. REFER TO SCHEDULE, RISER DIAGRAM AND DETAIL FOR ADDITIONAL INFORMATION.

8 PROVIDE AND INSTALL NEW TRAP PRIMER. SEE SCHEDULE AND WATER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

9 PLUMBING CONTRACTOR TO SUPPLY AND INSTALL A MANUAL MIXING VALVE. REFER TO SCHEDULE ON THIS SHEET AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

10 NEW WALL CLEAN OUT. SEE SCHEDULE, SANITARY RISER DIAGRAM AND DETAIL FOR ADDITIONAL INFORMATION.

11 NEW FLOOR CLEAN OUT. SEE SCHEDULE, SANITARY RISER DIAGRAM AND DETAIL FOR ADDITIONAL INFORMATION.

12 PROVIDE AND INSTALL NEW HI-LOW ADA COMPLIANT DRINKING FOUNTAIN. REFER TO SCHEDULE, SPECIFICATIONS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

13 NEW WATER METER, NEPTUNE MODEL T-10, PROVIDE BY LANDLORD AT TENANT'S EXPENSE. INSTALL IN TOILET ROOM IN AN EASILY ACCESSIBLE LOCATION NEAR THE FLOOR +/-5FT A.F.F. WATER METER TO REGISTER IN GALLONS. COORDINATE WITH LANDLORD ON EXACT LOCATION. TRANSMITTER AND ADDRESS OF METER PROVIDED BY LANDLORD AT TENANT'S EXPENSE.

14 EXISTING 3/4" COLD WATER STUB-IN FOR ADJACENT TENANT. FOR REFERENCE ONLY. AVOID WITH ALL NEW CONSTRUCTION.

PLUMBING RESPONSIBILITY SCHEDULE

| ITEM | FURNISHED BY | INSTALLED BY | REUSE | N/A | REMARKS | | |
|---------------------|--------------|--------------|----------|-------|---------|----------|--|
| | OR LANDLORD | CONTR | LANDLORD | CONTR | OTHER | EXISTING | |
| PLUMBING FIXTURES | | PC | | PC | | | |
| SEWER & VENT PIPING | | PC | | PC | | | |
| AS-BUILT DRAWINGS | | PC | | PC | | | |

PC PLUMBING CONTRACTOR
CR CHARLOTTE RUSSE

PLUMBING CONTRACTORS NOTES

ALL OF THE PLUMBING/PIPING WORK IS NOT NECESSARILY SHOWN OR NOTED ON THESE DRAWINGS. THE CONTRACTORS SHALL VISIT THE JOB SITE AND FIELD VERIFY ALL EXISTING CONDITIONS RELATED TO THE WORK PRIOR TO BIDDING. THOSE ITEMS NOT SHOWN OR NOTED BUT WHICH ARE DEEMED NECESSARY FOR REMOVAL OR RELOCATION BY OWNER OR HIS REPRESENTATIVE SHALL BE PART OF HIS CONTRACT. THE SUBMISSION OF THE PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTORS HAVE VISITED THE SITE. NO EXTRA PAYMENTS WILL BE ALLOWED THESE CONTRACTORS ON ACCOUNT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO VISIT THE JOB SITE.

ALL ROOF PENETRATION AND FLASHING SHALL BE PERFORMED BY LANDLORD'S DESIGNATED ROOFING CONTRACTOR AT TENANT G.C.'S EXPENSE.

4 WATER PLAN

SCALE: 1/4" = 1'-0"

1 SANITARY PLAN

SCALE: 1/4" = 1'-0"

7 WALL CLEANOUT DETAIL

SCALE: NONE

8 FLOOR DRAIN DETAIL

SCALE: NONE

5 WATER RISER DIAGRAM

SCALE: NONE

2 SANITARY RISER DIAGRAM

SCALE: NONE

3 WATER HEATER/HB DETAIL

SCALE: NONE

6 PIPE HANGER DETAIL

SCALE: NONE

9 TRAP PRIMER DETAIL

SCALE: NONE

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| 4 | | PHONE: 375-383-0072 | |
| 5 | | FACE: 375-383-0072 | |
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| 7 | | NOTED BY TOWN | |

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ISSUE DATE: 07/26/14

PLUMBING PLAN

P1