

1. QUIKTRIP EQUIPMENT CONTRACTOR. REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT ITEMS FURNISHED AND WORK PERFORMED BY QUIKTRIP EQUIPMENT CONTRACTOR. VERIFY ROUGH-IN AND CONNECTION REQUIREMENTS WITH OWNER REPRESENTATIVE.
2. HEALTH DEPARTMENT. COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS. SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HD. WHEREVER POSSIBLE, INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
3. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO THE OWNER.
4. MAKE COMPLETE. PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT; TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
5. VERIFY LOCATIONS. EXISTING PIPING SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATIONS ON JOB SITE.
6. PLUMBING CONTRACTOR TO USE A COMPLETE SYSTEM OF PVC OR ABS DWV DRAIN, WASTE, AND VENT PIPING FOR ALL WASTE, INDIRECT DRAIN, VENT AND CONDENSATE PIPING.

K1 PLUMBING GENERAL NOTES

PLUMBING SYSTEM SECTION 15400

PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A THE WORK INCLUDES A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BEVERAGE DISPENSING EQUIPMENT PROVIDED BY OTHERS (UNLESS OTHERWISE NOTED). ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN INSULATING DIELECTIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

PLUMBING FIXTURES: PLUMBING FIXTURES SHALL BE AS SHOWN IN THE SCHEDULE ON THE DRAWINGS. ALL FIXTURES ARE TO BE NEW. ALL FIXTURES REQUIRING WATER SUPPLIES SUCH AS SINKS, LAVATORIES, WATER CLOSETS, ETC., SHALL BE PROVIDED WITH A BRASS WHEEL HANDLE STOP AND A COPPER FLEXIBLE SUPPLY RISER AND ESCUTCHEON. ALL CHROME PLATED. ALL PLUMBING FIXTURES NOT SPECIFIED WITH BUT REQUIRING TRAPS, SHALL BE PROVIDED WITH IT GAUGE TUBULAR BRASS TRAP, CHROME PLATED AND CHROME ESCUTCHEON. ALL FLOOR DRAINS CONNECTING TO THE SANITARY SYSTEM SHALL HAVE PVC TRAPS.

OWNER FURNISHED EQUIPMENT: PROVIDE ALL REQUIRED ROUGH-IN AND CONNECTIONS FOR OWNER FURNISHED EQUIPMENT IF/AS SHOWN ON PLANS.

SEWER AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE DRAINAGE SYSTEMS ON-SITE. BOTH SANITARY DRAINAGE PIPING INTERIOR TO THE BUILDING ABOVE GRADE AND SANITARY DRAINAGE PIPING BELOW GRADE WITHIN AND BEYOND THE BUILDING SHALL BE SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. ALL 90° ELBOWS TO BE LONG SHEEP. THERE SHALL BE PUSH ON TYPE JOINTS FROM THE SANITARY LINE EXITING THE BUILDING TO THE SANITARY MAIN CONNECTION. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

VENTS: PROVIDE A COMPLETE VENT RISER SYSTEM MADE OF SCHEDULE 40 POLYVINYL CHLORIDE (PVC) OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSOURE FROM VIEW.

WATER DISTRIBUTION PIPING: HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. TYPE K COPPER BELOW SLAB, TYPE L ABOVE SLAB, WITH BROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. ANNEALED COPPER FOR 1-1/2" OR SMALLER, DRAWN COPPER FOR 2" AND GREATER. PROVIDE MIN. 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP AND FDI LISTED WATER HAMMER ARRESTERS PER CODE REQUIREMENTS. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

WHERE ALLOWED BY LOCAL JURISDICTIONS, CONTRACTOR MAY USE CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING AND BRASS FITTINGS BY UPONOR, INC (NIBSBO) AQUIAFEX FOR HOT AND COLD WATER DISTRIBUTION SYSTEMS. PEX TUBING SHALL BE FULLY SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS, MINIMUM OF 32" HORIZONTAL AND 48" VERTICAL, AND BE RUN GENERALLY PARALLEL WITH BUILDING LINES. CONNECTIONS AND TRANSITIONS SHALL BE MADE WITH OFFICIAL UPONOR FITTINGS AND MATERIALS. INSULATE AND PROVIDE WATER HAMMER ARRESTERS PER DETAILS THE SAME AS FOR COPPER PIPING SYSTEMS. HANGERS, SUPPORTS, SLEEVES, AND GROMMETS SHALL BE DESIGNED FOR PEX TUBING. TUBING SHALL BE KEPT A MINIMUM OF 12" FROM RECESSED LIGHTS OR OTHER HEAT SOURCES.

PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING & ROOF DRAINAGE PIPING. PROVIDE 1/2" PREFORMED FIBERGLASS, A5J-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547, OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1/2" SELF-ADHESIVE ARMAFLEX UNICELLULAR FOAM PIPE INSULATION WITH PRE-FORMED FITTING COVERS - WITH K FACTOR OF 0.21 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO NIBCO T305-TQ-66-EL BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEATS AND PACKING, 150 LB. W.O.G., SOLDER END. CHECKVALVES SHALL BE EQUAL TO NIBCO T-433.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

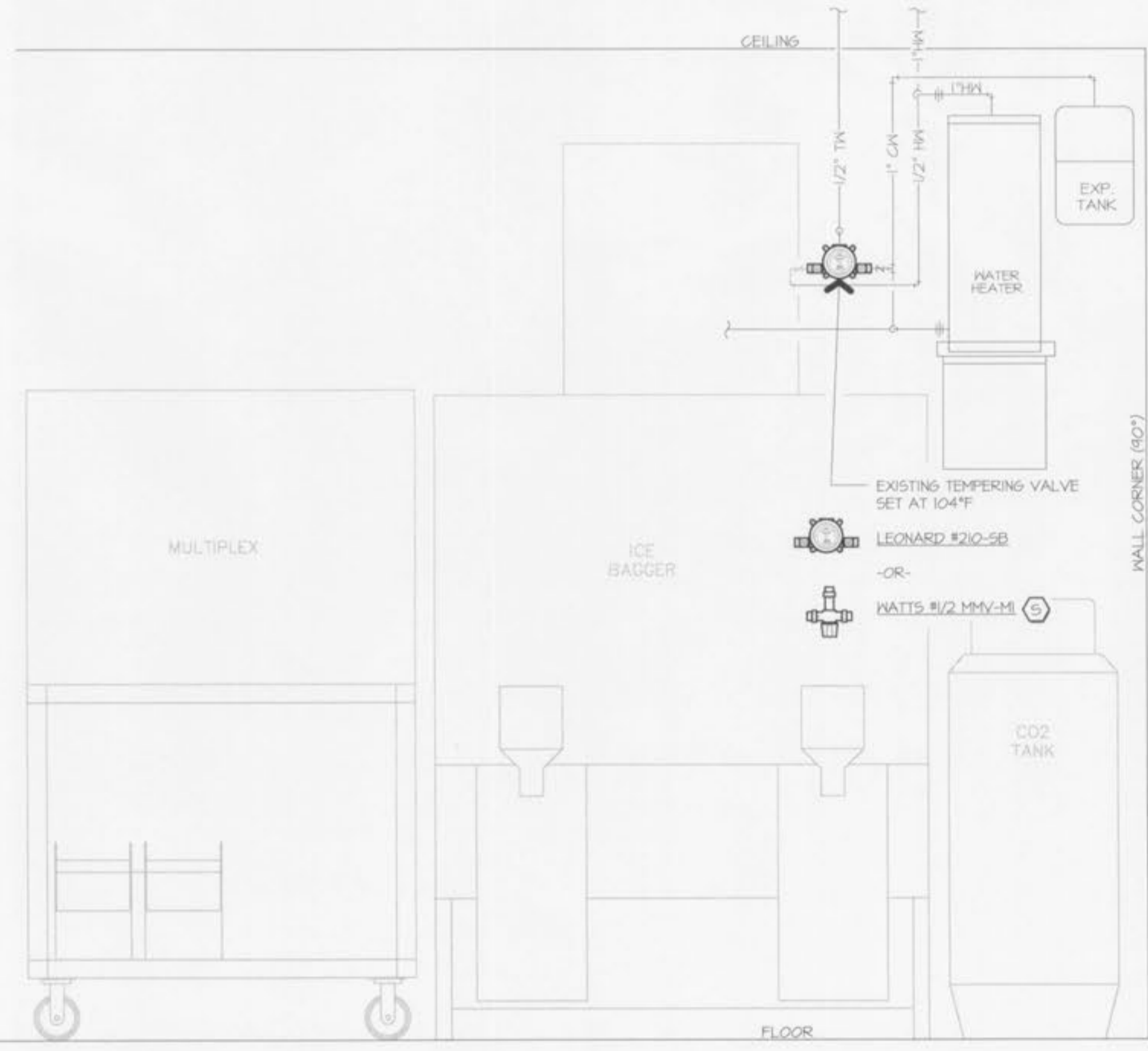
SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED ESCUTCHEON PLATES. EXPOSED TRAPS IN EXPOSED AREAS SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC). REMOVE ALL MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE USE SUITABLE CLEANER AND JOINT GLUE COMPATIBLE WITH SCHEDULE 40 POLYVINYL CHLORIDE (PVC) DWV PIPING.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

CLEAN WATER PIPING PER LOCAL HEALTH DEPT. REQUIREMENTS. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

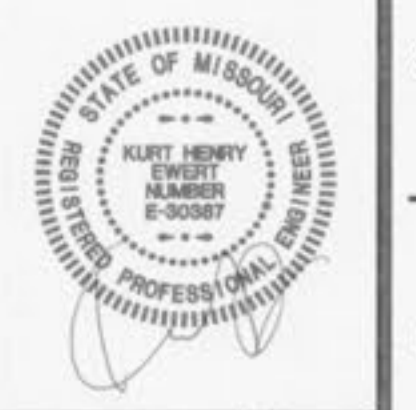
A1 PLUMBING SPECIFICATIONS



FIELD-VERIFY EXISTING PIPING LAYOUT AND ADAPT AS REQUIRED. IF NO EXISTING TEMPERING VALVE EXISTS, PROVIDE NEW AS SCHEDULED.

ALWAYS TIE TEMPERED WATER RETURN TO COLD WATER SIDE OF MIXING VALVE AS WELL AS TO THE COLD WATER INLET OF THE WATER HEATER AND INCLUDE CHECKVALVES AS INDICATED TO PREVENT REVERSE FLOW.

TO MINIMIZE NATURAL HEAT CONVECTION UP FROM THE WATER HEATER, THE MIXING VALVE SHOULD BE LOCATED BELOW HOT WATER SOURCE OR WITH A HEAT TRAP WHICH IS A DROP IN THE HOT WATER PIPE BEFORE GOING UP TO THE MIXING VALVE.



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Quik Trip No. 662

955 Bryan Rd.
O'Fallon, MO 63366



PROTOTYPE	P-01
DIVISION	6
VERSION	1
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REV	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING GENERAL DETAILS

SHEET NUMBER:

P200

A9 WATER WALL DETAIL

NTS A8-P100