

PLUMBING SPECIFICATIONS:

PIPE AND FITTINGS:

- DOMESTIC WATER PIPING ABOVE GRADE; TYPE "L" HARD DRAWN COPPER TUBING, A.S.T.M. SPECIFICATION B-88. CONSTRUCTION; SUITABLE FOR A WATER PRESSURE OF 200 LBS. AT 200 DEG.F. FITTINGS: SWEAT TYPE WROUGHT COPPER FITTINGS CONFORMING TO ANSI B16.22. JOINTS; "SWEAT" TYPE CONSTRUCTION USING 95-5 SOLDER AND A SUITABLE NON-CORRODE PASTE OR APPROVED EQUAL SOLDERING SYSTEM.
- ALL UNDERGROUND WATER SERVICE PIPING; TYPE "K" HARD DRAWN COPPER TUBING, FED. SPEC. NO. WW-1-799 WITH BRAZED JOINTS AND WROUGHT COPPER SOCKET FITTINGS. BRAZED JOINTS; MADE USING A BCP-5 BRAZING ALLOY WITH A COMPATIBLE FLUX.
- SANITARY WASTE AND VENT PIPING; SERVICE WEIGHT HUBLESS CAST IRON WITH NO HUB FITTINGS CONFORMING TO CSPI 301. DWV PVC WITH SOLVENT FITTING SHALL BE ALLOWED AS A DEDUCTIVE ALTERNATE. PROVIDE ASU INSULATION WRAP FOR PVC LINES INSTALLED WITHIN HVAC PLENUM RETURN AREAS WHERE ALLOWED BY THE INSPECTOR OR LOCAL CODE AMENDMENTS.

WATER PIPING INSTALLATION:

- RUN CONCEALED IN CHASES, CEILING, OR WALL CONSTRUCTION UNLESS OTHERWISE INDICATED. PROVIDE ALL NECESSARY LOOPS, HANGERS, ANCHORS, OFFSETS, ETC., REQUIRED FOR PROPER SUPPORT AND CONTROL OF EXPANSION AND CONTRACTION OF PIPING.

SOIL, WASTE, AND VENT PIPING INSTALLATION:

- GRADE OR PITCH OF THE SOIL AND VENT SYSTEM; UNIFORM. SEWER PIPE UNDER FLOOR; NOT LESS THAN TWO PERCENT (.02) GRADE, AND PIPE OUTSIDE THE BUILDING; NOT LESS THAN ONE PERCENT (.01) GRADE.

SLEEVES:

- PROVIDE STANDARD WEIGHT GALVANIZED STEEL PIPE SLEEVES AROUND ALL PIPING PASSING THROUGH MASONRY WALLS, FLOORS, BEAMS, ETC. WHERE PIPES ARE INSULATED THE SLEEVES, OF SUCH A DIAMETER AS TO ALLOW THE INSULATED PIPE TO PASS THROUGH EASILY. SLEEVES IN OUTSIDE WALLS BELOW GRADE; CAULKED AS REQUIRED TO MAKE THEM WATERTIGHT.

UNIONS:

- UNIONS; LOCATED AS SHOWN ON THE PLANS AND AS REQUIRED SO THAT PIPING CAN BE EASILY DISMANTLED. DO NOT INSTALL UNIONS IN INACCESSIBLE LOCATIONS.

TRAPS:

- PROVIDE ALL FIXTURES, DRAINS, ETC. WITH TRAPS, UNLESS SPECIFICALLY SHOWN OTHERWISE. TRAPS; SET IN AN UPRIGHT POSITION, PERFECTLY LEVEL AND TRUE. VENTED AS REQUIRED. PROVIDE EXPOSED TRAPS WITH BRASS CLEANOUT PLUGS.
- PROVIDE ALL FLOOR DRAIN AND FLOOR SINKS WITH TRAP PRIMERS. ALTERNATE: DEEP SEAL TRAP PRIMERS SHALL BE INSTALLED AS ALLOWED BY THE INSPECTOR/ADOPTED CODE AMENDMENTS.

CLEANOUTS:

- PROVIDE READILY ACCESSIBLE CLEANOUTS WITH EASILY REMOVABLE PLUGS IN SOIL AND WASTE LINES AS REQUIRED BY CODES, AS SHOWN ON THE DRAWINGS, AND AS FOLLOWS: AT THE BOTTOM OF EACH EXPOSED TRAP WHICH IS NOT INTEGRAL WITH THE FIXTURE, AT OR NEAR THE END OF EACH BRANCH AND TRUNK DRAINAGE LINE, AND IN HORIZONTAL LINES AT INTERVALS OF NOT MORE THAN 50'.

PLUMBING FIXTURES AND TRIM:

- ALL PLUMBING FIXTURES AND TRIM; SUITABLE FOR USE BY HANDICAPPED PERSONS, AND IN ACCORDANCE WITH THE HANDICAPPED REQUIREMENTS OF ANSI A117.1-1986, AND THE BUILDING CODE.

TEST AND INSPECTIONS:

- TEST NEW AND EXISTING WATER PIPING BEFORE FIXTURES ARE CONNECTED BY CAPPING OR PLUGGING ALL OPENINGS, PURGING AIR FROM PIPING SYSTEMS, AND APPLYING LINE PRESSURE AT THE HIGHEST AVAILABLE PRESSURE FOR THREE (3) HOURS. DISMANTLE LEAKING JOINTS OR PIPING, REPLACE DEFECTIVE PIPE OR FITTINGS, AND RETEST THE SYSTEM.
- TEST SOIL, WASTE, AND VENT SYSTEM WITHIN THE BUILDING AND TO 5' OUTSIDE THE BUILDING WALL BEFORE BEING CONCEALED BY CAPPING OR PLUGGING ALL NECESSARY OPENINGS AND FILLING ENTIRE SYSTEM WITH WATER TO A LEVEL OF THE HIGHEST VENT STACK ABOVE THE ROOF. THE SYSTEM SHALL HOLD THIS TEST FOR NOT LESS THAN ONE HOUR WITHOUT A DROP IN THE WATER LEVEL. REMOVE DEFECTIVE JOINTS, PIPE, AND FITTINGS, INSTALL NEW JOINTS, PIPE, OR FITTINGS, AND RETEST THE SYSTEM. NO CRACKED HUBS WILL BE PERMITTED.

STERILIZATION:

- UPON COMPLETION OF INSTALLATION AND TEST OF POTABLE WATER SUPPLY PIPING, DISINFECT WITH A MIXTURE CONTAINING NOT LESS THAN 0.6 POUND OF HIGH TEST CALCIUM HYPOCHLORITE, OR 2 POUNDS OF CHLORINATED LIME TO EACH 1000 GALLONS OF WATER TO PROVIDE NOT LESS THAN 50 PPM OF AVAILABLE CHLORINE. INJECT THE MIXTURE INTO THE SYSTEM AND RETAIN FOR NOT LESS THAN 24 HOURS, AT WHICH TIME THE CHLORINE LEVEL SHALL BE AT 10 PPM OR GREATER. DRAIN THE SYSTEM, FLUSH WITH POTABLE WATER UNTIL ONLY A NORMAL CHLORINE RESIDUAL REMAINS (.2 PPM) AND PLACE IN SERVICE OR,
- IF THE LOCAL HEALTH AUTHORITY REQUIRES DIFFERENT OR ADDITIONAL PROCEDURES, MEET THOSE REQUIREMENTS, AND SUBMIT A CERTIFICATE, OR LETTER CERTIFYING ACCEPTANCE BY THE LOCAL HEALTH AUTHORITY.

GAS PIPING:

- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS WELDED JOINTS IN CONCEALED SPACES.
- GAS PIPING SHALL BE PRESSURE TESTED PER CHAPTER 4 OF THE INTERNATIONAL FUEL GAS CODE.
- ALL GAS PIPING SHALL BE CONTINUOUSLY PAINTED YELLOW IDENTIFIED WITH BLACK LETTERS, INCLUDE DIRECTION OF FLOW.

PLUMBING FIXTURE SCHEDULE					
MARK	FIXTURE	DESCRIPTION	WASTE CONN.	C.W. SUPPLY	H.W. SUPPLY
PF1	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE	AMERICAN STANDARD MODEL NO. 2234.650 ELONGATED BOWL, MANUAL FLUSH VALVE- MODEL 6047.122.002, 1.28 GPF, 27" CENTER LINE. WHITE VITREOUS CHINA FINISH, SIPHON ACTION, 15" HIGH BOWL, AMERICAN STANDARD 5905.100 WHITE SOLID PLASTIC OPEN FRONT HEAVY DUTY SEAT.	3"	1"	---
PF4A	LAVATORY - DROP-IN ADA COMPLIANT	AMERICAN STANDARD 0491.019 RONDALYN, VITREOUS CHINA, DROP-IN, SELF RIMMING, 19" DIA. PUNCHED ON 4" CENTERS. AMERICAN STANDARD FAUCET; 8123F WRIST BLADE FAUCET WITH 0.5GPM AERATOR, LESS DRAIN, 1/2" MALE THREADED CONNECTIONS. ADJUSTABLE TEMPERING VALVE. AMERICAN STANDARD 2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE. MCQUIRE 170 SUPPLY TO WALL WITH WHEEL HANDLE STOPS, EXTENSION TUBE TO WALL AND FLEXIBLE RISERS. MCQUIRE 8872 P-TRAP 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG.	1 1/4"	1/2"	1/2"
PF7	SINGLE COMPARTMENT SINK	17X15 STAINLESS STEEL SINK, WALL MOUNTED, 4" CENTER MOUNT, 5 1/2" DEEP BOWL, 20GA THICKNESS. BACK-SPLASH MOUNTED FAUCET, WRIST BLADES, REGENCY #600HS17	3"	1/2"	1/2"
FD	FLOOR DRAIN	FLOOR DRAIN - JOSAM 30000-5A WITH 1/2" TRAP PRIMER CONNECTION, ADJUSTABLE STRAINER NECK, ROUND STRAINER	2"	---	---

NOTES:
1. EQUAL PLUMBING FIXTURES SELECTED BY THE CONTRACTOR SHALL BE ACCEPTABLE.

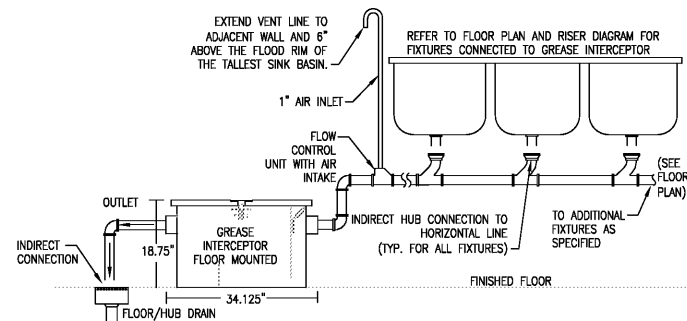
PLUMBING LEGEN

— S —	SOIL OR WASTE ABOVE FLOOR OR GRADE (S. or W.) (PLAN VIEW)
— S —	SOIL OR WASTE BELOW GRADE (S. or W.) (PLAN VIEW)
— V —	VENT LINE (V.) (PLAN VIEW)
— C —	COLD WATER LINE (CW)
— H —	HOT WATER LINE (140 DEG HW)
— R —	HOT WATER RETURN LINE.
— G —	GAS PIPING
— D —	PIPE DOWN
— U —	PIPE UP
— B —	BREAK
— J —	RISER VENT THRU ROOF
— F —	FLOOR DRAIN (F.D.) OR FLOOR SINK (FS)
— C —	FLOOR CLEAN OUT
— C.W. —	COLD WATER
— H.W. —	HOT WATER
— HC —	HANDICAPPED
— W.H. —	WATER HEATER
— P.R.V. —	PRESSURE REDUCING VALVE
— B.F.P. —	BACK-FLOW PREVENTER
— CO —	CLEAN-OUT
— GCO —	GRADE CLEAN-OUT
— DGCO —	DOUBLE GRADE CLEAN-OUT
— FCO —	FLOOR CLEAN-OUT
— WCO —	WALL CLEAN-OUT
— FD —	FLOOR DRAIN
— SAN —	SANITARY WASTE
— GW —	GROUSE WASTE
— V —	VENT
— V.T.R. —	VENT THRU ROOF

KITCHEN EQUIPMENT - PLUMBING CONNECTION SCHEDULE

EQUIPMENT FURNISHED BY OWNER, INSTALLED BY GENERAL CONTRACTOR AND CONNECTED BY PLUMBING SUB-CONTRACTOR, UNLESS OTHERWISE NOTED.

ITEM	QTY	DESCRIPTION	MODEL	BY	SANITARY SIZE (IN)	COLD WATER SIZE (IN)	110 DEG. HOT WTR. SIZE (IN)	140 DEG. HOT WTR. SIZE (IN)	FILTER WATER	DIRECT DRAIN SIZE (IN)	INDIRECT DRAIN SIZE (IN)	GAS CONNECTION SIZE (IN)	GAS BTUH	BACK-FLOW PREVENTER
1	1	REFRIGERATOR	TURBO #MSR47-2-N	OWNER										
2	1	3 COMPART SINK	KLINGER'S #ECS32024	OWNER	1/2"		1/2"			2"				
3	2	SINK CASE	FEDERAL #	OWNER										
4	1	SINK PREP LINE	TURBO AIR #MST-60-24-N	OWNER										
5	1	COOKER/BURNER	WYATT #	OWNER										
6	1	OVER RANGE WALL MOUNTED SHELF	GERMAN KNIFE #GS-12LD	OWNER										
7	1	TURBO CHIEF	MODEL #H-9500-400	OWNER										
8	1	CONVEYOR TOASTER	STAR #GCS1	OWNER										



6 GREASE TRAP DETAIL
SCALE: NO SCALE

GREASE INTERCEPTOR SIZING PER P I-G101

3-COMP: 18wx18x8d" BOWL x 3 = 7,776 CU IN

TOTAL: 7,776 CU IN

7,776 CU IN/231 CU IN/GAL = 33.6 GALLONS

33.6 GALLONS x 75% WATER USAGE= 25.2 GALLONS

FLOW RATE FOR 2 MINUTE PERIOD:
25.2 GALLONS/2 = 12.6 GPM

PER MANUF. SPECS AT 12.6 GPM,
10.0GPM = 20LB INTERCEPTOR IS REQUIRED.
15.0GPM = 30LB INTERCEPTOR IS REQUIRED.

MAX. CAPACITY FOR FIXTURES CONNECTED TO THE INTERCEPTOR IS 12.6 GALLONS FOR 30 POUND INTERCEPTOR



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PLUMBING DETAIL AND SCHEDULES

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