

GENERAL NOTES

- SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- ALL DRAIN & WATER LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
- ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
- REFER TO MECHANICAL SHEETS FOR HVAC REQUIREMENTS.
- ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
- PROVIDE EITHER WATER HAMMER ARRESTER OR AIR CHAMBERS FOR WATER LINES AS REQUIRED BY CODE.
- PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE 1.5 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- PRIOR TO COMMENCING WORK ON THIS PROJECT, CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD BEFORE STARTING WORK. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
- CONTRACTOR SHALL FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.
- EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- ALL WORK TO BE IN COMPLIANCE WITH PREVAILING CODES.
- VERIFY W/ ARCHITECT AND/OR OWNER FOR ANY PLUMBING CONNECTIONS FOR EQUIPMENT NOT SHOWN OR SUPPLIED BY OTHERS.
- ALL DRAIN LINES TO BE TRAPPED. SUPPLY ALL INDIRECT WASTE LINES WITH A TRAP AND AN AIR GAP AT FLOOR RECEPTACLE. (AIR GAP TO BE A MINIMUM OF TWO TIMES THE DIAMETER OF THE WASTE LINE)
- INSULATE 140°F OR HIGHER WATER LINES RUNNING FROM WATER TO FINAL HOOKUP ON EQUIPMENT.
- PLUMBING CONTRACTOR TO MOUNT ALL DISPOSERS, FAUCETS, BASKET DRAINS, LEVER DRAINS, TO/ON KITCHEN EQUIPMENT WITH FINAL CONNECTION TO ROUGH-INS AFTER EQUIPMENT IS SET IN PLACE.
- ALL PLUMBING CONNECTION HEIGHTS ARE TO CENTER LINE, UNLESS NOTED OTHERWISE.
- ALL WATER LINES TO BE VALVED AT STUB-IN LOCATIONS.
- MECHANICAL CONTRACTOR TO MAKE ADJUSTMENTS IN ROUGH-IN LOCATIONS FOR BEAMS, FOOTINGS AND ETC. IF REQUIRED.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER HAMMER ARRESTORS AND PRESSURE REDUCING VALVES (PRV) IN LINE BEFORE ALL SOLENOID VALVES, IE: AT DISHWASHER, DISPOSER(S), ICE MAKER(S), STEAMER(S), ETC.
- VERIFY WITH HEALTH AND PLUMBING CODES IF WASTES SHOULD BE DIRECT OR INDIRECT. VERIFY IF CLEAN WATER WASTES ARE REQUIRED TO EMPTY INTO STORM SEWERS.
- PROVIDE FOR FIRE SUPPRESSION WHERE REQUIRED, WITH AUTOMATIC SHUT-OFFS ON GAS AND ELECTRIC EQUIPMENT AS REQUIRED, UNLESS OTHERWISE NOTED.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	QUANTITY	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE FU	WATER FU	TOTAL WASTE FU	TOTAL WATER FU	TOTAL WATER HW FU
E17	ICE MACHINE	1	PS	--	1/2"	--	--	0.25	--	0.25	--
FCO	FLOOR CLEANOUT	1	--	--	--	--	--	--	--	--	--
FD	FLOOR DRAIN	1	2"	2"	--	--	2	--	2	--	--
FS	FLOOR SINK	3	3"	2"	--	--	2	--	6	--	--
GT	GREASE TRAP	1	3"	2"	--	--	--	--	--	--	--
LAV	LAVATORY	1	2"	2"	1/2"	1/2"	1	1.4	1	1.4	2
MV	MIXING VALVE	1	--	--	1/2"	1/2"	--	--	--	--	--
P01	DIPPERWELL	2	PS	--	1/2"	--	--	0.25	--	0.5	--
P03	DUMP SINK	1	PS	--	1/2"	1/2"	2	1.4	2	1.4	1
P04	HAND SINK	1	2"	1-1/2"	1/2"	1/2"	1	1.4	1	1.4	1
P07	MOP SINK	1	3"	2"	1/2"	1/2"	2	3	2	2.25	2.25
WC	WATER CLOSET	1	4"	2"	1/2"	--	4	5.0	4	5.0	--
WCO	WALL CLEANOUT	1	--	--	--	--	--	--	--	--	--
DWH	DOMESTIC WATER HEATER	1	--	--	3/4"	3/4"	--	--	--	--	--
FIXTURE UNIT TOTALS									18	12.2	6.25

RESPONSIBILITIES

	F	I	N	S	T	A	L	N	O	T	E
	U	N	I	S	H						
E - EXISTING											
L - LANDLORD											
C - TENANT'S GENERAL CONTRACTOR											
T - TENANT											
V - OWNER VENDOR											
A PLUMBING											
A-1	WATER CLOSETS										
A	WATER CLOSETS										
B	UNDERSLAB ROUGH-IN	E	E								
C	FINAL CONN. & VENTS	E	E								
A-2	LAVATORIES										
A	LAVATORIES										
B	UNDERSLAB ROUGH-IN	E	E								
C	FINAL CONN. & VENTS	E	E								
A-3	MOP SINK										
A	MOP SINK										
B	UNDERSLAB ROUGH-IN	E	E								
C	FINAL CONN. & VENTS	E	E								
A-4	FLOOR DRAINS & FLOOR SINKS										
A	FLOOR DRAINS & FLOOR SINKS										
B	UNDERSLAB ROUGH-IN	C	C								
C	FINAL CONN. & VENTS	C	C								
A-5	CLEANOUTS										
A	CLEANOUTS										
B	UNDERSLAB ROUGH-IN	C	C								
C	FINAL CONN. & VENTS	C	C								
A-6	HAND SINK										
A	HAND SINK										
B	UNDERSLAB ROUGH-IN	C	C								
C	FINAL CONN. & VENTS	C	C								
A-7	WATER HEATER										
A	WATER HEATER										
B	FINAL CONN.	C	C								
C	INSULATION - HOT WATER LINE	C	C								
A-8	SPRINKLER SYSTEM										
A	ENGINEERING	E	E								
B	EQUIPMENT	E	E								
A-9	WATER FILTRATION SYSTEM										
A	EQUIPMENT	-	-								
B	PIPING ROUGH-IN & VALVES	-	-								
A-10	NATURAL GAS SYSTEM										
A	GAS METER	-	-								
B	GAS PIPING	-	-								
C	FINAL CONNECTION @ ROOF TOP UNITS	-	-								
D	FINAL CONNECTION @ WATER HEATER	-	-								
A-11	MISCELLANEOUS										
A	WATER METER	E	E								
B	PIPING INSULATION	C	C								
C	ALL TAP FEES (IF REQ'D.)	C	C								
D	GREASE INTERCEPTOR	C	C								



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Order Plans

ABBREVIATIONS

Y.B.	YARD BOX
R.D.	ROOF DRAIN
A.P.	ACCESS PANEL
V.T.R.	VENT THRU ROOF
V.B.F.	VENT BELOW FLOOR
U.T.R.	UP THRU ROOF
C.I.	CAST IRON
(N)	NEW
(E)	EXISTING
OFD	OVERFLOW DRAIN
G.L.	GAS LINE
A.F.F.	ABOVE FINISHED FLOOR
E.C.O.	EXTERIOR CLEAN OUT
Y.H.	YARD HYDRANT

PLUMBING LEGEND

SYMBOLS	ABBREV	DESCRIPTION
--- SS ---	S OR W	SOIL OR WASTE
--- GW ---	GW	GREASE WASTE
--- G ---	G	GAS
--- CW ---	CW	COLD WATER
--- HW ---	HW	HOT WATER
--- H.W.R. ---	H.W.R.	HOT WATER RETURN
--- V ---	V	SANITARY VENT
--- C.D. ---	C.D.	CONDENSATE DRAIN
--- F.C.O. ---	F.C.O.	FLOOR CLEANOUT
--- W.C.O. ---	W.C.O.	WALL CLEANOUT
--- F ---	F	FILTERED WATER
--- H.B. ---	H.B.	HOSE BIBB
--- S.O.V. ---	S.O.V.	SHUT-OFF GATE VALVE
--- S.O.C. ---	S.O.C.	SHUT-OFF GAS COCK
--- C.V. ---	C.V.	CHECK VALVE
--- P.T.R.V. ---	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
--- B.V. ---	B.V.	BALL VALVE
--- F.D. ---	F.D.	FLOOR DRAIN
--- F.S. ---	F.S.	FLOOR SINK
--- S.O.V. ---	S.O.V.	SHUT-OFF IN DROP
--- B.F.P. ---	B.F.P.	BACKFLOW PREVENTER ASSEMBLY
--- U ---	U	UNION
--- RDL ---	RDL	ROOF DRAIN LEADER
--- ODL ---	ODL	OVERFLOW DRAIN LEADER

GREASE INTERCEPTOR SIZING CALCULATION

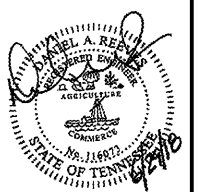
DIPPER WELL 16"x4"x5" = 320 CU IN
DUMP SINK 20"x16"x12" = 4,160 CU IN
HAND SINK 10"x14"x10" = 1,400 CU IN
MOP SINK 24"x24"x14" = 8,064 CU IN
13,944 CU IN / 231 CU IN/GAL X 0.75 / 2 MINUTE DRAIN TIME = 22.5 GPM

200 CUSTOMERS/DAY
0.005 LB/CUSTOMER - LOW FAT (NO FLATWARE)
90 DAYS PER CLEAN OUT CYCLE
90 DAY GREASE PRODUCTION = 200 X 0.005 X 90 = 90 LBS

SELECT 35 GPM UNIT WITH 130.5 POUND GREASE CAPACITY

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PLUMBING NOTES AND SCHEDULES