

GAS DEMAND LOAD					
NO.	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH/LA)	TOTAL (MBH)
WH-1	TANKLESS WATER HEATER	3/4"	1	250	250
RTU-1	ROOFTOP UNIT FURNACE	3/4"	1	150	150
RTU-2	ROOFTOP UNIT FURNACE	3/4"	1	200	200
WATER HEATING SUB-TOTAL					250
HVAC SUB-TOTAL					350
GAS DEMAND TOTAL					600

NOTE(S):

1. THE ACTUAL LENGTH TO THE MOST REMOTE APPLIANCE CONNECTION IS 95'-0". THE SYSTEM IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 150'-0".
2. THE SERVICE TO THE TENANT SHALL BE INSTALLED AS A LOW PRESSURE SUPPLY (INLET PRESSURE OF 0.5 PSI) AND A 0.5" WC PRESSURE DROP.
3. PIPE SIZES SHOWN ON THE RISER DIAGRAM ARE BASED ON THE 2009 UNIFORM PLUMBING CODE, WITH CITY AMENDMENTS. VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE PROVISION OF THE COMPLETE METER ASSEMBLY INCLUDING REGULATOR AND VENTING REQUIREMENTS.

ITEM/ FIXTURE	EQUIPMENT #	BACKFLOW DEVICE
BAG-N-BOX SODA SYSTEM	-	RPZ-1
ICE MAKER(S)	-	RPZ-2
TEA BREWER(S)	-	RPZ-1
ECOLAB CONNECTION(S)	-	
SODA DISPENSER(S)	-	
SERVICE SINK	-	INTEGRAL







































NOTE(S):

- ALL TESTABLE BACKFLOW DEVICES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION WITHIN 5'-0" OF THE FLOOR, WITH CLEARANCE AROUND THE TEST PORTS FOR TESTING PURPOSES.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	ROUGH-IN-SIZE				DESCRIPTION/REMARKS
		S/W	V	CW	HW	
WC-1	WATER CLOSET ASSEMBLY	4"	2"	1/2"	-	AMERICAN STANDARD "CADET" #2333.100 WHITE VITREOUS CHINA, FLOOR MOUNTED, TANK TYPE PRESSURE ASSISTED 1.6 GPF WATER CLOSET. TRIP LEVER SHALL BE INSTALLED ON WIDE SIDE OF STALL. INCLUDE BEMIS #1055 WHITE ELONGATED OPEN FRONT SEAT, LESS COVER, WITH CHECK HINGE STOPS.
WC-2	WATER CLOSET (ADA)	4"	2"	1/2"	-	AMERICAN STANDARD "CADET" #2467.016 WHITE VITREOUS CHINA, FLOOR MOUNTED, ADA COMPLIANT TANK TYPE PRESSURE ASSISTED 1.6 GPF WATER CLOSET. TRIP LEVER SHALL BE INSTALLED ON WIDE SIDE OF STALL. INCLUDE BEMIS #1055 WHITE ELONGATED OPEN FRONT SEAT-LESS COVER, WITH CHECK HINGE STOPS.
LAV-1	LAVATORY (ADA)	2"	1 1/2"	1/2"	1/2"	AMERICAN STANDARD "LUCERNE" #0355.012 WALL HUNG WHITE VITREOUS CHINA. INCLUDE CONCEALED ARM CARRIER, DELTA #541WF FAUCET, OFF-SET GRID DRAIN, BRASSCRAFT "COMMERCIAL" RIGID SUPPLIES, ANGLE STOPS, AND CHROME PLATED 17GA. L.A. PATTERN CAST BRASS P-TRAP WITH SECURED ESCUTCHEON. P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVGUARD #102 FOR HANDICAP PROTECTION.
FD-1	FLOOR DRAIN	3"	2"	-	1/2"	ZURN #FD-2340, MEDIUM DUTY PVC BODY FLOOR DRAIN WITH STEEL THREADED INSERTS AND ADJUSTABLE CAST IRON 6" ROUND TOP, AND TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	3"	2"	-	-	ZURN #FD-2340, MEDIUM DUTY PVC BODY FLOOR DRAIN WITH STEEL THREADED INSERTS AND ADJUSTABLE CAST IRON 6" ROUND TOP.
FS-1	FLOOR SINK	3"	2"	-	-	ZURN #FD-2370 12"x12" RADIUSED PVC BODY FLOOR SINK WITH FULL RIM AND SEDIMENT BUCKET STRAINER. COORDINATE GRATE CONFIGURATION WITH KITCHEN ROUGH IN PLANS.
FCO	FLOOR CLEANOUT	LINE SIZED	-	-	-	ZURN #1400 ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND 5" ROUNO POLISHED NICKEL BRONZE TOP.
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND NICKEL BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME.
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	FIAT #MSB2424 MOLDED STONE SERVICE SINK. INSTALL COMPLETE WITH #830-AA CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK AND HOSE THREAD ON SPOUT, 832-AA HOSE AND BRACKET, AND 889-CC MOP HANGER.

PLUMBING EQUIPMENT SCHEDULE						
MARK	FIXTURE	ROUGH-IN-SIZE				DESCRIPTION/REMARKS
		S/W	V	CW	HW	
WH-1	TANKLESS WATER HEATER	-	-	1"	1"	NORITZ #N-0931M-DV-ASME NATURAL GAS FIRED TANKLESS APPLIANCE COMPLETE WITH T&P VALVE, 250,000 BTUH INPUT, 94+% EFFICIENCY WITH A CONTINUOUS RECOVERY AT A 77°F RISE. APPLIANCE IS DIRECT VENTED / SEALED FOR COMBUSTION WITH 4" CPVC FLUE VENT AND INTAKE. PROVIDE HOT AND COLD WATER HEAT TRAP FITTINGS/ RISERS.
ET-1	EXPANSION TANK	-	-	3/4"	-	WATTS REGULATOR #PLT-12, WITH STEEL BODY AND BUTYL RUBBER DIAPHRAGM FOR 4.5 GALLONS TOTAL CAPACITY/ 2.8 GALLONS ACCEPTANCE CAPACITY, 40 PSI FACTORY PRE-CHARGED.
TP-1	TRAP PRIMER	-	-	1/2"	-	PPP, INC. #PR-500 "PRIME RITE" TRAP PRIMER, BRONZE CONSTRUCTION WITH VACUUM PORTS, ADJUSTABLE WITH 1/2" COPPER TYPE "L" TO RECEPTOR. PROVIDE DISTRIBUTION UNIT AS REQUIRED FOR SUPPLY TO MULTIPLE DRAINS. INSTALL VALVE RECESSED IN WALL A MINIMUM 12" AFF, PROVIDE ACCESS PANEL.
WHA-1	WATER HAMMER ARRESTER	-	-	LINE SIZED	-	PPP, INC. SERIES SC, FULLY MECHANICAL WATER HAMMER ARRESTER SIZED AND LOCATED PER THE MANUFACTURER SPECIFICATIONS.
MXV-1	MIXING VALVE	-	-	1/2"	1/2"	WATTS REGULATOR #111 UNDER SINK THERMOSTATIC MIXING VALVE, WITH BRASS BODY AND INTEGRAL MOUNTING HOLES, TAMPER RESISTANT ENCLOSURE.
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR SS009 REDUCED PRESSURE ZONE ASSEMBLY WATER SUPPLY TO CARBONATOR(S) SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, THE BODY & ADAPTERS ARE OF STAINLESS STEEL CONSTRUCTION, ALL RUBBER COMPONENTS COMPLY WITH FDA FOOD ADDITIVE REGULATIONS. THE MODEL IS SUBJECT TO LOCAL HEALTH DEPARTMENT APPROVAL WATTS SB-2.
RPZ-2	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR 009 REDUCED PRESSURE ZONE ASSEMBLY WATER SUPPLY TO ICE MACHINE(S) SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, THE BODY & ADAPTERS ARE OF BRONZE CONSTRUCTION, ALL RUBBER COMPONENTS COMPLY WITH FDA FOOD ADDITIVE REGULATIONS. THE MODEL IS SUBJECT TO LOCAL HEALTH DEPARTMENT APPROVAL WATTS SB-2.
BFP-1	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR SD-3 DUAL CHECK WITH ATMOSPHERIC PORT. WATER SUPPLY TO BEVERAGE FIXTURE APPLIANCES, ETC. SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR CONTINUOUS OR INTERMITTENT PRESSURE, STAINLESS STEEL BODY CONSTRUCTION AND ALL RUBBER INTERNAL COMPONENTS.
GI-1	GREASE INTERCEPTOR	4"	2"	-	-	PARK EQUIPMENT COMPANY PRECAST CONCRETE 1000 GALLON / 2300 LB GREASE INTERCEPTOR. REFER TO CIVIL DRAWING(S) FOR PROPOSED LOCATION AND LAYOUT RELATIVE TO THE BUILDING.

PIPING MATERIAL SCHEDULE	
1. WATER PIPE (ABOVE GROUND)	CROSSLINKED POLYETHYLENE (PEX) TUBING WITH BRASS INSERT FITTINGS. NO PEX PIPING SHALL BE INSTALLED WHERE IT IS EXPOSED TO DIRECT SUNLIGHT.
2. WATER PIPE (BELOW GROUND)	CROSSLINKED POLYETHYLENE (PEX) TUBING WITH BRASS INSERT FITTINGS. NO JOINTS OR UNIONS SHALL BE INSTALLED BELOW THE BUILDING SLAB.
3. SEWER AND VENT PIPE (ABOVE AND BELOW GRADE)	PIPE AND FITTINGS SHALL BE PVC FOR USE IN GRAVITY, NON-PRESSURE APPLICATIONS AS IDENTIFIED IN ASTM D 1784.
4. CONDENSATE DRAIN PIPE AND INDIRECT DRAINAGE PIPE (INTERIOR TO BUILDING)	TYPE "M" COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS. INSULATE WITH 1/2" ARMAFLEX CLOSED CELL PIPE INSULATION WITH SELF SEALING ADHESIVE JOINTS, OR EQUIVALENT.
5. CONDENSATE DRAIN PIPE (EXTERIOR TO BUILDING)	TYPE "M" COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS.
6. GAS PIPE	SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. WELDED JOINTS FOR PIPE 2-1/2" AND LARGER AND ALL JOINTS BELOW GRADE.

PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
	S OR W	SOIL OR WASTE (BELOW GRADE)
	GW	GREASE WASTE
	V	VENT
	CD	CONDENSATE DRAIN
	ST	STORM DRAIN
	CW	COLD WATER
	FW	FILTERED WATER
	SW	SOFTENED WATER
	FSW	FIRE SERVICE WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	RCL	RECLAIMED HEAT WATER
	G	GAS, NATURAL OR PROPANE
	UP	PIPE UP
	DN.	TEE DOWN
	DN.	PIPE DOWN
	FCO	FLOOR CLEANOUT
	DCO	DOUBLE CLEANOUT
	CO	CLEANOUT, WALL OR PIPE
	SOV	SHUT-OFF VALVE
	SOV	SHUT-OFF VALVE, NORMALLY OPEN
	SOV	SHUT-OFF VALVE, NORMALLY CLOSED
	C.V.	CHECK VALVE
	B.V.	BALANCING VALVE
	U	UNION
	P.V.	MECHANICAL PLUG VALVE (GAS)
	SOC	SHUT-OFF COCK (GAS)
	EAAV	EARTHQUAKE ACTUATED AUTOMATIC VALVE (GAS)
	S.V.	ELECTRIC SOLENOID VALVE (GAS)
	P.R.	PRESSURE REGULATOR (GAS)
	POC	POINT OF CONNECTION
	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
	VTR	VENT TO ROOF
	HD	HUB DRAIN
	FD	FLOOR DRAIN (COORDINATE GRATE REQ'S)
	FS	FLOOR SINK (COORDINATE GRATE REQ'S)
	RP	RECIRCULATION PUMP
	HB	HOSE BIBB
	KEC	KITCHEN EQUIPMENT CONTRACTOR
	BTUH	BRITISH THERMAL UNITS PER HOUR
	MBH	BTUH X 1000
	CFH	CUBIC FEET PER HOUR (1 MBH = 1 CFH)
	(E)	EXISTING
	I.E.	INVERT ELEVATION
	CONN	CONNECTION
	FU	FIXTURE UNITS
	GPM	GALLONS PER MINUTE
	GPH	GALLONS PER HOUR
	HP	HORSEPOWER
	PSI	POUNDS PER SQUARE INCH
	AP	ACCESS PANEL
	W/	WITH
	FLR	FLOOR
	CLG	CEILING
	ABV	ABOVE
	BEL	BELOW
	UG	UNDERGROUND
	DN	DOWN
	CONT.	CONTINUE
	TYP.	TYPICAL
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE
	A.D.A.	AMERICAN DISABILITIES ACT
	A.F.F.	ABOVE FINISH FLOOR
	B.F.F.	BELOW FINISH FLOOR

TESTING PROCEDURES	
1.	TEST INSTALLED WATER PIPING AT 100 PSI FOR A PERIOD OF 8 HOURS, OBSERVING FOR ANY VISIBLE LEAKS. TEST PIPING AGAIN WITH FIXTURES INSTALLED.
2.	CHLORINATE ALL WATER PIPING FOR A PERIOD OF 8 HRS., BY CHARGING WITH A HYPOCHLORIC ACID SOLUTION TO ACHIEVE A 5 PPM STRENGTH AT THE FIXTURE. FURTHERST FROM THE POINT OF APPLICATION, UPON COMPLETION OF THE CHLORINATION, FLUSH ALL PIPING UNTIL NO CHLORINE CAN BE DETECTED BY TASTE. CLEAN ALL STRAINERS AND SET WATER FLOWS FROM FIXTURES IN ACCORDANCE WITH MANUFACTURER AND LOCAL REQUIREMENTS.
3.	TEST INSTALLED GAS PIPING AT 60 PSI FOR A PERIOD OF 2 HRS., USING SOAP SOLUTION AND WATER OBSERVING FOR ANY VISIBLE LEAKS.
4.	TEST INSTALLED WASTE AND VENT PIPING FOR A PERIOD OF 8 HRS., BY CAPPING OR PLUGGING ALL JOINTS TO A LEVEL OF THE HIGHEST FIXTURE OR FITTING. FILL THE SYSTEM WITH WATER AND OBSERVE FOR ANY LEAKS.

## PLUMBING GENERAL NOTES

1. NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF THE SIZES IN ALL THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2. THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3. PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONNECTION SHALL CONFORM TO THE 2009 UNIFORM PLUMBING CODE, WITH CITY AMENDMENTS.
4. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
5. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
6. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT, ANY DEFECTS IN MATERIALS AND OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.
7. ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING PRIOR TO INSTALLATION.
8. ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
10. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
11. SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS WITH 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND NIP" NOT PERMITTED.
12. TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER THE 2009 UNIFORM PLUMBING CODE, WITH CITY AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
13. ALL VALVES, TRAP PRIMERS, WATER-HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
14. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE 2009 UNIFORM PLUMBING CODE, WITH CITY AMENDMENT REQUIREMENTS.
15. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOLT TIGHTENING IS PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
16. ALL WATER PIPING TO BE INSULATED AS PER THE 2009 UNIFORM PLUMBING CODE, WITH CITY AMENDMENT REQUIREMENTS:  

PIPE SIZE	INSULATION THICKNESS	INSULATION VALUE
1/2" THRU 1 1/4"	1/2"	R = 4.0
1-1/2" THRU 2"	1"	R = 6.0
17. CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
18. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
19. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
20. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
21. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
22. PIPING SHALL BE INSTALLED COMPLETE WITH DIELECTRIC UNIONS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
23. PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVE(S) AT EACH FIXTURE.
24. PROVIDE A LINE SIZED PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
25. ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
26. NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
27. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
28. VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.
29. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
30. ALL CUTTING OF EXISTING PAVES, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
31. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
32. PIPING LAYOUT IS SCHEMATIC ONLY. EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
33. NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
34. WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
35. EXPOSED PIPING IN THE GUEST AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. EXPOSED GAS PIPING IN THE KITCHEN SHALL BE PAINTED WHITE.
36. DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH PART NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILT'S SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
37. UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
38. PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.
39. PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF STORE TURNOVER.

[illegible]