

GROCERY PLUMBING EQUIPMENT CONNECTION SCHEDULE									
MARK	FIXTURE	BRANCH SIZES (MINIMUM)					ROUGH-IN REQUIREMENTS	NOTES	
		PO	CW	HW	WASTE	VENT			
PO1	PRODUCE MISTING SYSTEM	3/4"					WATER: 84" AFF	A, E	
8	WALL MOUNTED HAND SINK	1/2"	1/2"	1 1/2"	1 1/4"		WATER: 18" AFF WASTE: 18" AFF	B, C, F, G, H	
7	3-COMPARTMENT SINK	3/4"	3/4"	3"	1 1/2"		WATER: 12" AFF WASTE: 12" AFF	B, C, D, F, J, K	
15	TORTILLA MACHINE	----	----	----	----	----	GAS: 100 MBH, 3/4" @ 16" AFF	A, I	
<p>GENERAL INFORMATION (ALL EQUIPMENT):</p> <p>1. EQUIPMENT, TRIM, ROUGH-IN, AND FINAL CONNECTIONS FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.</p> <p>NOTES:</p> <p>A. PROVIDE SHUT-OFF VALVES.</p> <p>B. PROVIDE P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON.</p> <p>C. PROVIDE CHROME PLATED ANGLE SUPPLY, FLEXIBLE RISER, AND WHEEL HANDLE WITH ESCUTCHEON.</p> <p>D. SINK FAUCETS PROVIDED WITH INTEGRAL CHECK VALVES.</p> <p>E. PROVIDE STAINLESS STEEL DOUBLE CHECK BACKFLOW PREVENTER ON PO (PRODUCE MISTING) WATER SUPPLY. PROVIDE PEX TUBING ON DOWNSTREAM SIDE OF BACKFLOW PREVENTER.</p> <p>F. IF PLUMBING PLAN AND RISER SHOWS THE SINK INDIRECTLY CONNECTED TO FLOOR SINK, THEN WASTE ROUGH-IN HEIGHT AND VENT SIZE AND NOTE B DO NOT APPLY. HALF GRATE ON FLOOR SINK SHOULD BE ORIENTED SO THAT GRATE IS TOWARDS FRONT OF SINK.</p> <p>G. PROVIDE THERMOSTATIC MIXING VALVE (TMV) WITH SINK WITH HARD-PIPED CONNECTIONS TO ANGLE STOPS AND FLEXIBLE CONNECTIONS BETWEEN THERMOSTATIC MIXING VALVE, FOOT PEDAL (PEDESTAL HAND SINK) OR KNEE LEVER (WALL MOUNTED HAND SINK) OR WRIST BLADE LEVERS (ADA WALL MOUNTED HAND SINK) AND SINK. SET AT 105° F.</p> <p>H. REFER TO ARCHITECTURAL DRAWINGS FOR HAND SINK LEFT (L) AND RIGHT (R) DESIGNATIONS WHICH INDICATE INTEGRAL SPLASHGUARD LOCATIONS OR HAND SINK (H) FOR ADA DESIGNATION.</p> <p>I. PROVIDE 24" FLEXIBLE GAS CONNECTION WITH QUICK DISCONNECT AND UPSTREAM GAS SHUT-OFF VALVE. FLEX LINE SIZE SHALL MATCH LINE SIZE SHOWN ON PLAN.</p> <p>J. INSTALL 1.2 GPM SPRAY HEAD ON PRE-RINSE SPRAYER FURNISHED BY FIXTURE MANUFACTURER. PLUMBING CONTRACTOR SHALL FURNISH ORIGINAL SPRAY HEAD TO OWNER.</p> <p>K. ATTACH SINK TO WALL WITH CONTRACTOR-PROVIDED STAINLESS STEEL SLOTTED ROUND HEAD FASTENERS OR SHEET METAL SCREWS INSTALLED THROUGH HOLES DRILLED BY CONTRACTOR THROUGH TOP FLANGE OF SINK BACKSPLASH. FOR FRAMED WALLS, USE TWO EVENLY SPACED FASTENERS FOR PREP SINKS AND THREE EVENLY SPACED FASTENERS FOR 3-COMPARTMENT SINKS TO WALL STUDS. FOR SINKS INSTALLED ON COOLER PANEL WALLS, ATTACH SINKS TO COOLER PANEL OUTER SHEET METAL WITH SCREWS AT 12" CENTERS ALONG BACKSPLASH.</p>									

04.25.14

WATER HEATING SYSTEM SCHEDULE									
WATER HEATERS / STORAGE TANKS									
ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.									
MARK	AREA SERVED	MANUFACTURER	MODEL	MODEL #	TANK SIZE (GAL)	HEAT INPUT	V/PH/HZ	NOTES	
WH1 (GAS)	GROCERY (ASME)	A.O. SMITH RHEEM	MASTER-FIT UNIVERSAL	BTR-200A G100-200A	100	199 MBH	120/1/60	A, B, C, D, E	
EXPANSION TANKS									
MARK	MANUFACTURER/MODEL		DESCRIPTION						
ETA	AMTROL/ST-12 FLEXCON/WH-18		WATTS/PLY-12 WILKINS/XT-18		FIXED BLADDER TYPE EXPANSION TANK 4.4 GALLON MINIMUM TOTAL CAPACITY, FACTORY STANDARD PRECHARGE CAPACITY.				
RECIRCULATION PUMPS									
MARK	MANUFACTURER	MODEL	HP - V/PH/HZ	GPM - HEAD	DESCRIPTION				
P10	BELL & GOSSETT	PL-30	1/12 HP - 120/1/60	5 - 20 FT	LEAD FREE BRONZE WET ROTOR INLINE CIRCULATOR				
	ARMSTRONG	ARMFLO E7.2B	1/6 HP - 120/1/60	5 - 20 FT					
	GRUNDFOS	UP26-96BF	1/12 HP - 120/1/60	5 - 20 FT	PUMP WITH 1" FLANGED CONNECTIONS				
GENERAL INFORMATION (ALL UNITS):									
1. PROVIDE INCO-LOY HEATING ELEMENTS FOR ELECTRIC WATER HEATERS.									
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE FOR ALL WATER HEATERS AND STORAGE TANKS.									
3. PROVIDE VACUUM RELIEF VALVES FOR ALL WATER HEATERS AND STORAGE TANKS.									
NOTES:									
A. INSTALL WATER HEATER ON HOUSEKEEPING PAD, REF ARCH.									
B. PROVIDE EXPANSION TANK ETA.									
C. PROVIDE SIZE AND OFFSET FLUE THRU ROOF PER MANUFACTURER'S INSTRUCTIONS.									
D. 140 °F OUTLET TEMPERATURE.									
E. RECOVERY RATE: 193 GPH AT 100 °F RISE.									
GAS INPUTS SHOWN ARE BASED UPON A GAS HEATING VALUE OF 1000 BTU/CUBIC FOOT AND SEA LEVEL ELEVATION.									
04.25.14									

DRAIN / CLEANOUT / HOSE BIBB / HYDRANT SCHEDULE									
ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.									
MARK	DESCRIPTION								
MANUFACTURER MODEL NUMBER									
FLOOR AND ROOF DRAINS									
FD1	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTER AND 5" DIAMETER NICKEL BRONZE RING AND FASTENED GRATE.								
	SIoux CHIEF 842	JOSAM VEF 400J	IDATEY 72000						
FD2	HUB DRAIN SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS.								
FD3	POLYPROPYLENE OR HDPE TRENCH DRAIN WITH HEAVY DUTY SLOTTED GALVANIZED STEEL GRATE AND FRAME ASSEMBLY. PROVIDE CATCH BASIN WHERE INDICATED ON PLAN. MODEL# : TRENCH/GRATE/CATCH BASIN								
	SMITH/ACO 9931/9870-425-GHD/9936	ZURN Z886-HD/RFG/2-887-HD							
FS1	LIGHT DUTY, ACID RESISTANT, WHITE PVC FLOOR SINK WITH 12" SQUARE WHITE PVC HALF GRATE AND STAINLESS STEEL DEBRIS BUCKET WITH LIFTING HANDLE. REF PLANS FOR LOCATIONS WHERE FULL GRATES ARE SPECIFIED.								
	SIoux CHIEF 861								
CLEANOUTS									
FC0	CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.								
	ZURN Z1400	SIoux CHIEF 851	MIFAB C1100						
	JOSAM 55000	WATTS CO-200-RX-4		JAY R. SMITH 4231					
				WADE 6000Z					
CO/ WC0	THREADED, COUNTERSUNK BRONZE OR POLYPROPYLENE CLEANOUT PLUG. (PROVIDE DRILLED TAP FOR CENTER SCREW AND STAINLESS STEEL COVER FOR FINISHED AREAS.)								
	ZURN Z1470 (Z1469)	SIoux CHIEF 873	MIFAB C1430						
	JOSAM 58540 (58600)	WATTS CO-590-RD		JAY R. SMITH 4472T					
				WADE 8590 (8480K)					
HOSE BIBBS AND HYDRANTS									
HB2	3/4" COLD WATER BRASS FINISH HOSE BIBB WITH INTEGRAL VACUUM BREAKER AND METAL WHEEL HANDLE. MOUNT 42" AFF. (UNLESS NOTED OTHERWISE).								
	WOODFORD 24	ACORN 8121	PRIER C-155						
HB4	3/4" HOT WATER BRASS FINISH HOSE BIBB WITH INTEGRAL VACUUM BREAKER AND LOOSE TEE KEY.								
	WOODFORD 24	ACORN 8121	PRIER C-255						
FPWH1	3/4" COLD WATER FREEZE PROOF WALL HYDRANT WITH BRASS HINGED BOX, INTEGRAL VACUUM BREAKER, AND LOOSE TEE KEY.								
	WOODFORD B65	JOSAM 71000	WADE 8600,175		PRIER C-634BX		ZURN Z1320		
	JR SMITH 5509QT								
GENERAL INFORMATION (AS APPLICABLE):									
1. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS.									
2. REFER TO PLANS FOR DRAIN OUTLET SIZE.									
3. LOAD CLASSIFICATIONS: LIGHT DUTY <2000 LBS, MEDIUM DUTY 2000 TO 4999 LBS, HEAVY DUTY 5000 TO 7499 LBS, EXTRA HEAVY DUTY 7500 TO 9999 LBS.									
10.25.13									

PLUMBING FIXTURE SCHEDULE									
ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.									
MARK	FIXTURE	BRANCH SIZES (MIN.)				MANUFACTURER	CATALOG NUMBER	DESCRIPTION, TRIM AND ACCESSORIES	
		CW	HW	WASTE	VENT				NOTES
SS1	SERVICE SINK (TERRAZZO) 24" x 24" x 12"	3/4"	3/4"	3"	2"	SERN- WILLIAMS	SB-800	CHROME PLATED FAUCET WITH INTEGRAL CHECK VALVES, HOSE, BRACKET AND MOP HANGER.	B
FIAT TSB-200, ACORN TSH-24 FAUCET: CHICAGO 897-GP (DISCARD STANDARD SUPPLY ARMS & CONNECT (2) GO-KOP SUPPLY ARMS USING (2) 897-020XKROF ADAPTERS). ZURN Z843M-CS, T&S BRASS B-0865-B5TP W/ ETERNA CARTRIDGES & SPRING CHECKS HOSE/BRAKET: STERN WILLIAMS T-35, FIAT B32-AA, ACORN KH36 MOP HANGER: STERN WILLIAMS T-40, FIAT B89-CC, ACORN KMH									
S2	SINK 1-COMPARTMENT STAINLESS STEEL	1/2"	1/2"	2"	1 1/2"	DAYTON	D-12521	4 HOLES, 2.2 GPM FLOW RESTRICTOR AND AERATOR	C, D
BY ELKAY KOHLER K-3548 FAUCET LEAD FREE: ELKAY LK-1000, KOHLER K15071-P, DRAIN: ELKAY LK-35, KOHLER K8801									
EW1	EYEWASH	---	1/2" (T)	1 1/2"	1 1/4"	BRADLEY	S19-224-ADA	WALL MOUNTED, GALVANIZED STEEL PIPE, CHROME PLATED BRASS VALVE, YELLOW PLASTIC BOWL WITH DUST COVER, 304 SS HANDLE. PROVIDE P-TRAP AND TAILPIECE WHERE APPLICABLE ON PLANS.	A
SPEAKMAN SE-580-ADA									
PVB2	PRESSURE VACUUM BREAKER	----	----	----	----	WATTS	LF008PCQT	LEAD FREE HIGH-HAZARD ANTI-SIPHON, ANTI-SPILL VACUUM BREAKER AND INLET AND OUTLET SHUT-OFF VALVES. CONFORM TO ASSE 1056.	
PRV	WATER PRESSURE REGULATOR	----	----	----	----	WATTS	LF223	LEAD FREE BRONZE BODY VALVE WITH SHUT-OFF VALVES FOR SIZES UP TO 2-1/2", CAST IRON BODY FOR 3" AND ABOVE, MAXIMUM OPERATING PRESSURE OF 200 PSI. CONFORM TO ASSE 1003.	
TMV	THERMOSTATIC MIXING VALVE	----	----	----	----	WILKINS 500XL	570	LEAD FREE HEAVY CAST BRONZE BODY VALVE, ROUGH BRONZE FINISH, BIMETAL THERMOSTAT OR THERMAL MOTOR, INTEGRAL CHECK VALVES, LIMIT STOP SET AT 105 °F UNLESS NOTED OTHERWISE. MINIMUM FLOW RATE 0.5 GPM. CONFORM TO ASSE 1017/1070.	
LAWLER LEONARD 370-LF									
<p>GENERAL INFORMATION (ALL FIXTURES):</p> <p>1. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS.</p> <p>2. SUBSTITUTIONS NOT PERMITTED. REF SPECIFICATIONS FOR APPROVED MANUFACTURERS OF THE FOLLOWING TRIM AND ACCESSORIES:</p> <p>- P-TRAP WITH CLEANOUT PLUG AND SINK CONTINUOUS WASTES: POLISHED CHROME-PLATED TUBULAR BRASS, 17 GAUGE, WITH BRASS NUTS AND SLIP INSERTS.</p> <p>- SS BRAIDED WATER SUPPLY: FLEXIBLE BRAIDED STAINLESS STEEL (SS) OUTER SHEATHING WITH REINFORCED PVC INNER TUBING.</p> <p>- STOP VALVES: CHROME PLATED BRASS, QUARTER TURN ANGLE STOP VALVES.</p> <p>NOTES:</p> <p>A. MOUNT EYEWASH 36" AFF TO TOP OF HEAD SPRAY.</p> <p>B. INSTALL MOP SINK FAUCET AT 32" AFF AND LOCATE TWO MOP HANGER BRACKETS SIDE BY SIDE NEAR MOP SINK.</p> <p>C. PROVIDE WITH TMV UNLESS SERVED WITH TEMPERED WATER OR NOTED OTHERWISE ON PLUMBING DRAWINGS. SET AT 120° F.</p> <p>D. TRIM WITH OFFSET TAILPIECE, 5/8" ARMAFLEX INSULATION ON EXPOSED WATER SUPPLY AND DRAIN LINES. HOLD ALL EXPOSED PIPING HIGH AS POSSIBLE.</p>									
07.25.14									

TOILET PLUMBING FIXTURE SCHEDULE									
ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO SPECIFICATIONS.									
MARK	FIXTURE	BRANCH SIZES (MIN.)				MANUFACTURER	CATALOG NUMBER	TRIM AND ACCESSORIES	
		CW	HW	WASTE	VENT				NOTES
WC1	WATER CLOSET HANDICAPPED (TANK) (FLOOR MOUNT)	1/2"	----	4"	2"	TOTO	CST744EL	1.28 GPF FLUSH TANK W/ LOCKING COVER	
						AMERICAN STANDARD	215AA.104	ELONGATED SEAT, BENEF 523, COMFORTSEATS C106C SUPPLY LINE, STAINLESS STEEL BRAIDED HOSE, 1/4 TURN BALL VALVE STOP. CAST IRON FLOOR FLANGE: JONESPEC CF-2984-C14, TYLER 2-252, WITH "NO SEEP" WAX RING AND BRASS ANCHOR BOLTS.	
UR1	URNAL HANDICAPPED	3/4"	----	2"	1 1/2"	ZURN	Z5798	HIGH EFFICIENCY URINAL (HEU) SYSTEM: CHINA URINAL AND 0.125 GPF TURBINE OR BATTERY POWERED, WALL MOUNTED SENSOR OPERATED FLUSH VALVE WITH MANUAL OVERRIDE AND VANDAL RESISTANT SET SCREW ESCUTCHEON AND STOP CAP.	
						AMERICAN STANDARD	6590.525		
						TOTO	TEU1U12#CP		
UC1	URNAL CARRIER	----	----	----	----	JOSAM	17560-UR	FLOOR MOUNTED WITH HANGER AND BEARING PLATES, WELDED FEET, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS, AND CHROME PLATED TRIM.	A
						WADE	400.AM11		
L1	LAVATORY	----	1/2" (T)	1 1/2"	1 1/2"	KOHLER	K-2005	FAUCET: TOTO TEL3LS-10 - 0.5 GPM SENSOR OPERATED SELF-GENERATING POWER SYSTEM, STANDARD SPOUT, 4" COVER PLATE, GRID STRAINER WITH TAILPIECE, P-TRAP WITH CLEANOUT, STOP VALVES, SS BRAIDED WATER SUPPLIES AND ESCUTCHEONS. PROVIDE THERMOSTATIC MIXING VALVE FOR L2.	A
						AMERICAN STANDARD	0355.012	CARRIER: JOSAM 17100, WADE W-520.	A, B
L2	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	TOTO	LT307.4	LAVATORY ENCLOSURE: TRUEBRO LAV-SHIELD 2018	
						KOHLER	K-2005		
						AMERICAN STANDARD	0355.012		
EW	ELECTRIC WATER COOLER (SPLIT-LEVEL)	1/2"	----	1 1/2"	1 1/4"	TOTO	LT307.4	L2 ASSE 1070 THERMOSTATIC MIXING VALVE: ZURN ZW3870XLT	A, C
						ELKAY	LZ5TL8SC	STAINLESS STEEL TOP AND CABINET, FRONT AND SIDE PUSH BARS, MATCHING UPPER UNIT APRON, LEAD FREE, WATER SAVER BUBBLER WITH FLEXIBLE BUBBLER GUARD (FOR HALSEY TAYLOR - SMARTFLOW BUBBLER KIT), STOP, 3/8"x1/2" SS BRAIDED WATER SUPPLY, P-TRAP WITH CLEANOUT AND ESCUTCHEON, CARRIER: JOSAM 17560-WCBL, WADE 440-AM11	
						HALSEY TAYLOR	HAC8FSBL-Q-Q-ADA		
							HAC8FSBLR-Q-Q-ADA		
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10.31.14									

SPECIALTY PLUMBING FIXTURE SCHEDULE			
MARK	FIXTURE	FIXTURE DESCRIPTION	
		MANUFACTURER/CATALOG NUMBER	
WHA	WATER HAMMER ARRESTOR	LEAD FREE CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010.	
	JOSAM SERIES 75000	PRECISION PLUMBING PRODUCTS STAINLESS STEEL #316 SERIES	WATTS SS SERIES
	JAY R. SMITH HYDROTROLS	SIoux CHIEF HYDRA-RESTER	MIFAB MWH
----	VALVES	LEAD FREE FULL PORT BRASS BALL VALVE WITH PLASTIC JACKETED LEVER TYPE HANDLE.	
	(DO NOT USE FOR GAS)		
----	RED-WHITE 5044AB OR 5049AB	APOLLO SERIES 70LF	CRANE LF-9210 SERIES
	DOUBLE-CHECK VALVE	LEAD FREE INCLUDE TWO INDEPENDENT-ACTING CHECK VALVES, TWO SHUT-OFF VALVES, AND	WATTS LF-FBV-3C OR LF-FBVS-3C
	BACKFLOW PREVENTER	REQUIRED MEANS FOR TESTING FOR EACH ASSEMBLY. MINIMUM 175 PSI WORKING PRESSURE.	NIBCO FP-600-A-LF
	WATTS LF007QT OR LF709	BECCO FDC-LF	FEBCO LF850
	REDUCED PRESSURE		WILKINS 350XL OR 950XL72
----	BACKFLOW PREVENTER	LEAD FREE PROVIDE STRAINER, SHUT-OFF VALVES AND TEST COCKS: INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO RECEPTOR APPROVED BY AUTHORITY HAVING JURISDICTION. MINIMUM 175 PSI WORKING PRESSURE.	
	WATTS LF009QT OR LF009	BECCO FDC-LF	FEBCO LF860
	TRAP PRIMER	LEAD FREE PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER.	WILKINS 375XL OR 975XL
	(SINGLE TRAP)		
	PRECISION PLUMBING PRODUCTS PRIME-RITE OR OREGON #1	SIoux CHIEF 695	
	TRAP PRIMER	LEAD FREE PROVIDE ALL BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER, GASKETED ACCESS COVER, AND MULTIPLE TRAP CAPABILITY	
	(MULTIPLE TRAPS)		
	PRECISION PLUMBING PRODUCTS PRIME-RITE OR OREGON #1	MIFAB M-500NPB	JOSAM 88300
----	TRAP PRIMER	IN-LINE FLOOR DRAIN TRAP SEAL.	SIoux CHIEF SERIES 695
	(WATERLESS)		
	SURE SEAL SS4009	JAY R. SMITH 2692	
----	VACUUM RELIEF VALVE	LEAD FREE BRASS BODY. CSA/ANSI Z21.22	
	WATTS LFN36-M1		
----	GAS VALVES	QUARTER TURN BALL VALVE, UL LISTED FOR NATURAL GAS SERVICE OR LP GAS SERVICE AS REQUIRED, THREADED ENDS, BRONZE BODY, CHROME PLATED BRASS BALL, TEFLON OR "TFE" SEATS AND SEALS, BLOWOUT PROOF STEM, ADJUSTABLE PACKING GLAND, WYNYL COVERED STEEL HANDLE.	
	CONBRACO (APOLLO) 80-100 SERIES (1/4"-3")	NIBCO T-585-70-UL SERIES (1/2" - 1")	WATTS B6000-UL SERIES (1/4" - 4")
		T-580-70-UL SERIES (1 1/4" - 3")	
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