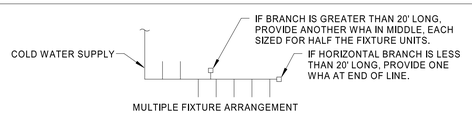
PLUMBING LEGEND

LINETYPE/SYMBOL	DESCRIPTION	LINETYPE/SYMBOL	DESCRIPTION
SS	SANITARY SEWER	-V-	VENT LINE
GW	GREASE WASTE	AIR	COMPRESSED AIR
FD-X/SD-X	FLOOR DRAIN/ SHOWER DRAIN		DOMESTIC HOT WATER
FS-X	FLOOR SINK		DOMESTIC HOT WATER RETURN
CO-4	WALL CLEAN OUT		DOMESTIC COLD WATER
CO-X	FLOOR/YARDCLEAN OUT	NAT	LOW PRESSURE GAS
M	WATER/GAS METER	WHA-C	WATER HAMMER ARRESTOR
GPM	GALLONS PER MINUTE		WALL HYDRANT OR HOSE BIBB (WH/HB)
	BACKFLOW PREVENTER		LINE CAP
UT-1/ SB-1	UTILITY BOX/ SUPPLY BOX		CIRCUIT SOLVER
A.F.F.	FINISHED FLOOR ELEVATION		UNION
CD	CONDENSATE	ST	STORM DRAIN
	GAS PRESSURE REGULATOR		

WATER HAMMER ARRESTOR SIZING



MULTIPLE FIXTURE ARRANGEMENT

FIXTURE	CW FIXTURE UNITS	HW FIXTURE UNITS
VALVE WATER CLOSET	10	-
TANK WATER CLOSET	5	-
URINAL	5	-
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER BATH TUB	2	2

TAG	PDI SIZE	PIPE SIZE	MAX FIXTURE UNITS
WHA	A	1/2"	1 - 11
WHA, SIZE "B"	B	3/4"	12 - 32
WHA, SIZE "C"	C	1"	33 - 60
WHA, SIZE "D"	D	1 1/4"	61 - 113
WHA, SIZE "E"	E	1 1/2"	114 - 154
WHA, SIZE "F"	F	2"	154 - 330

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TYPE	ELECTRICAL VOLT/PH	ELECTRICAL FLA (A)	ELECTRICAL INPUT LOAD (KW)	ELECTRICAL EFF. %	PHYSICAL TANK SIZE (GAL)	RECOVERY RATE AT 100F DELTA T	NOTES
DWH-1	BRADFORD WHITE	CEHD1 20543	MECH. CLOSET	ELETRICAL STORAGE	208/3	150	54	98	119	223 GPH	1-5
DWH-2	BRADFORD WHITE	CEHD1 20543	MECH. CLOSET	ELETRICAL STORAGE	208/3	150	54	98	119	223 GPH	1-5

NOTES:
1. PROVIDE WITH MIXING VALVE STATION BRADLEY MODEL NRS-8 - SEE SHEET 301.
2. MIXING VALVE RECIRCULATION PUMP: TACO 009-BF5.
3. 140° HOT WATER LOOP RECIRCULATION PUMP RCP-1; TACO 009-BF5.
4. PROVIDE WITH EXPANSION TANK; WATTS MODEL DETA-12 (3.0 GAL. ACCEPTANCE VOLUME).
5. PROVIDE WITH RECIRCULATION VALVES; CIRCUIT SOLVER MODEL CS-1/2-105. REF SHEET P203 FOR EXACT LOCATIONS.

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	COLD	HOT	WASTE	VENT	DESCRIPTION	NOTES
L-1	LAVATORY	1/2"	1/2"	2"	1-1/2"	ELKAY ELU1511, 18 GAUGE 17" X 13" OVAL UNDER-MOUNT STAINLESS STEEL LAVATORY, FAUCET - ZURN Z7440-XL-FC, AERATOR - 1.5 GPM VANDAL RESISTANT, MIXING VALVE - ZURN ZW3870XLT (ASSE 1070), SUPPLY - MCGUIRE #H165LKN3, DRAIN - MCGUIRE #15WC-LO, P-TRAP - MCGUIRE #8872C, COVERING - MCGUIRE #PW2000WC. UNIT SHALL BE ADA COMPLIANT.	1, ADA ACCESSIBLE
L-2	LAVATORY	1/2"	1/2"	2"	1-1/2"	ELKAY ELU1511, 18 GAUGE 17" X 13" OVAL UNDER-MOUNT STAINLESS STEEL LAVATORY, FAUCET - TOTO TZ7551E#CP W/ 10 SECOND CONTROLLER, AERATOR - 0.09 GPM VANDAL RESISTANT, MIXING VALVE - ZURN ZW3870XLT (ASSE 1070), SUPPLY - MCGUIRE #H165LKN3, DRAIN - MCGUIRE #15WC-LO, P-TRAP - MCGUIRE #8872C, COVERING - MCGUIRE #PW2000WC.	1, ADA ACCESSIBLE
L-3	LAVATORY	1/2"	1/2"	2"	1-1/2"	ELKAY ELU1511, 18 GAUGE 17" X 13" OVAL UNDER-MOUNT STAINLESS STEEL LAVATORY, FAUCET - ZURN Z7440-XL-FC LEAD FREE CP SL FC, AERATOR - 1.5 GPM VANDAL RESISTANT, MIXING VALVE - ZURN ZW3870XLT (ASSE 1070), SUPPLY - MCGUIRE #H165LKN3, DRAIN - MCGUIRE #15WC-LO, P-TRAP - MCGUIRE #8872C, COVERING - MCGUIRE #PW2000WC.	1, ADA ACCESSIBLE
MSK-1	MOP BASIN	3/4"	3/4"	3"	2"	FIAT MSB-2424-3 24"X24" MOLDED STONE MOP BASIN,MOP BASIN, FAUCET - T&S BRASS #B-0665-BSTP WITH BUILT-IN STOPS AND SPRING CHECKS AND PLISHED CHROME FINISH, BRACKET - FIAT #832-AA, GUARD - GIAT #1239-BB, MOP HANGER - BOBRICK B-223, SPLASH PANEL - FIAT #MSG, DRAIN GASKET - FIAT #QDC3XH.	1
RH-1	ROOF HYDRANT	3/4"	---	---	---	WOODFORD MODEL RHY1-MS FREEZELESS ROOF HYDRANT WITH BACKFLOW PREVENTER - FIELD TESTABLE WITH NO SPRAYBACK	
SH-1	SHOWER	1/2"	1/2"	2"	1-1/2"	BRADLEY HN250-T24-HD-F2S-CMS SURFACE MOUNTED ADA COMPLIANT WALL SHOWER, SHOWER HEAD - DELTA 5210-MB, MOUNT HEAD AT 6'-0" AFF, CENTER HEAD IN ACCORDANCE WITH ARCHITECTURAL DETAIL A411/15.	1, ADA ACCESSIBLE
SK-1	SINK BY OWNER	1/2"	1/2"	2"	1-1/2"	EAGLE GROUP HSA-10-F-LRS-1X, PLUMBING CONTRACTOR TO PROVIDE ASSE 1070 MIXING VALVE. SINK AND FAUCET BY OWNER FOR INSTALLATION BY PLUMBING CONTRACTOR.	1, ADA ACCESSIBLE
SK-2	SINK BY OWNER	1/2"	1/2"	---	---	BK RESOURCES BKS-1-18-12-18 (1) COMPARTMENT SINK, FAUCET - BK RESOURCES BKF-8-G SPLASH MOUNT FAUCET. SINK AND FAUCET BY OWNER FOR INSTALLATION BY PLUMBING CONTRACTOR.	1
SK-3	SINK BY OWNER	1/2"	1/2"	---	---	EAGLE GROUP 414-16-3-18 (3) COMPARTMENT SINK, FAUCET - T & S BRASS B-0133-B PRE-RINSE FAUCET WITH B-0156 ADD ON. SINK AND FAUCET BY OWNER FOR INSTALLATION BY PLUMBING CONTRACTOR.	1
WC-1	WATER CLOSET	1-1/4"	---	4"	2"	TOTO CT705ULN FLOOR MOUNTED ELONGATED SIPHON JET, VITREOUS CHINA TOILET WITH 1-1/2" TO SPUD - ZURN Z6000-WS1-YB-YC MANUAL FLUSH VALVE WITH VACUUM BREAKER - 1.6 GALLON FLUSH - BEMIS 1955-CT WHITE SOLID PLASTIC ELONGATED OPEN FRONT SEAT LESS COVER AND STAINLESS STEEL HINGES. CENTERLINE OF BOWL SHALL BE 18" FROM NEAREST FINISHED WALL. UNIT SHALL BE ADA COMPLIANT.	1, ADA ACCESSIBLE
WC-2	WATER CLOSET	1-1/4"	---	4"	2"	TOTO CT705UN FLOOR MOUNTED ELONGATED SIPHON JET, VITREOUS CHINA TOILET WITH 1-1/2" TO SPUD - TOTO TET1LA32#CP-W SENSOR OPERATED FLUSH VALVE WITH VACUUM BREAKER - 1.28 GALLON FLUSH - BEMIS 1955-CT WHITE SOLID PLASTIC ELONGATED OPEN FRONT SEAT LESS COVER AND STAINLESS STEEL HINGES.	1
WC-3	WATER CLOSET	1-1/4"	---	4"	2"	TOTO CT705ULN FLOOR MOUNTED ELONGATED SIPHON JET, VITREOUS CHINA TOILET WITH 1-1/2" TO SPUD - TOTO TET1LA32#CP-W SENSOR OPERATED FLUSH VALVE WITH VACUUM BREAKER - 1.28 GALLON FLUSH - BEMIS 1955-CT WHITE SOLID PLASTIC ELONGATED OPEN FRONT SEAT LESS COVER AND STAINLESS STEEL HINGES. CENTERLINE OF BOWL SHALL BE 18" FROM NEAREST FINISHED WALL. UNIT SHALL BE ADA COMPLIANT.	1, ADA ACCESSIBLE
WC-4	WATER CLOSET	3/4"	---	4"	2"	AMERICAN STANDARD CADET PRO MODEL 215AA.104 1.28 GALLON FLUSH TANK - MANUAL FLUSH, TANK: 4188A.104.020, BOWL: 3517A.101.020, SEAT: AMERICAN STANDARD #5910.110 (EXTRA HEAVY DUTY) SUPPLY: MCGUIRE #LFH185K (CONTRACTOR PROVIDED) UNIT SHALL BE ADA COMPLIANT.	1, ADA ACCESSIBLE
WH-1	WALL HYDRANT	3/4"	---	---	---	WOODFORD MODEL B67 SERIES AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH BACKFLOW PREVENTER - FIELD TESTABLE WITH NO SPRAYBACK.	
UR-1	URINAL	1"	---	3"	1-1/2"	KOHLER K-5016-ET "DEXTER" WALL HUNG VITREOUS CHINA SIPHON JET ACTION URINAL WITH 3/4" TOP SPUD, 2" OUTLET AND WALL BOLTS - TOTO TEU1GA12#CP-W SENSOR OPERATED FLUSH VALVE WITH VACUUM BREAKER - 0.5 GALLON FLUSH - WADE W-400 CARRIER.	1
UR-2	URINAL	1"	---	3"	1-1/2"	KOHLER K-5016-ET "DEXTER" WALL HUNG VITREOUS CHINA SIPHON JET ACTION URINAL WITH 3/4" TOP SPUD, 2" OUTLET AND WALL BOLTS - TOTO TEU1GA12#CP-W SENSOR OPERATED FLUSH VALVE WITH VACUUM BREAKER - 0.5 GALLON FLUSH - WADE W-400 CARRIER. MOUNT RIM AT 16" AFF (17" IS MAX ALLOWABLE PER ADA). TO RIM: 14" MIN. WALL TO RIM.	1, ADA ACCESSIBLE
UT-1	WASHER	3/4"	3/4"	2"	1-1/2"	OATEY 38478 WASHER UTILITY BOX WITH 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR COPPER SWEAT, 2 HOUR FIRE RATING.	
YH-1	YARD HYDRANT	3/4"	---	---	---	CORNKING 903 SELF DRAINING, NON-FREEZING POST HYDRANT WITH 12 FT, LONG RUBBER HOSE, TURN POST HYDRANT TO HAVE HOSE END TOWARD EXIT SIDE OF ISLAND LOCATED AT THE EDGE OF BUMPER, WRAP ALL POST YARD HYDRANT BELOW GRADE WITH 12" EXPANSION JOINT MATERIAL.	1,2
YH-2	YARD HYDRANT	3/4"	---	---	---	FREEZEFLOW 2132S (SANITARY TYPE), ASSE 1057 SANITARY YARD HYDRANT SUPPLIED WITH 1011 BACKFLOW PREVENTER, WAGON WHEEL, TURN HANDLE HOSE BIB AND PAIL HOOK, SELF DRAINING, NON-FREEZING TYPE. WRAP ALL POST YARD HYDRANTS BELOW GRADE WITH 1/2" EXPANSION JOINT MATERIAL, BURIAL DEPTH: 2.0-FT.	1
WSF-1	WATER SOFTENER	3"	3"	---	---	CULLIGAN CTM-450-2 DUPLEX, 30X50 BRINE TANK, STANDARD COMM CABLE, CONTACT DOUG SCHWEITZER (405) 413-8641. REFER TO PLUMBING DETAIL FOR INSTALLATION.	1

NOTES:
1. FIXTURE SHALL BE PROVIDED BY LOVES, CONTRACTOR INSTALLED. CONTRACTOR TO PROVIDE ALL ACCESSORIES THAT ARE REQUIRED FOR FULL INSTALLATION OF THESE PLUMBING FIXTURES (SUCH AS: INSULATION, ANGLE VALVES, P-TRAPS, ETC.)
2. CONTRACTOR SHALL PAINT THE HEAD AND NOZZLE ASSEMBLY YELLOW AND LABEL THE HYDRANT WITH A 12" YELLOW FIELD & 1-1/4" BLACK LETTERS WITH THE FOLLOWING PHRASE: "CAUTION : NONPOTABLE WATER, DO NOT DRINK" AND INCLUDE PICTOGRAPH AS REQUIRED BY PLUMBING CODE.
3. NOT ALL FIXTURES LISTED MAY BE USED ON PLANS.

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION
FD-1	FLOOR DRAIN	WATTS	FD12-R-6R	ASME A112.21.1M, ON GRADE PVC TWO PIECE BODY WITH ADJUSTABLE 6" DIAMETER SATIN NICKEL BRONZE STRAINER, AND 2" OUTLET.
FD-2	FLOOR DRAIN	WATTS	FD12-R-6R-GNB	ASME A112.21.1M, ON GRADE PVC TWO PIECE BODY WITH ADJUSTABLE 6" DIAMETER SATIN NICKEL BRONZE STRAINER WITH ROUND FUNNEL, AND 3" OUTLET.
FD-3	FLOOR DRAIN	WATTS	FD12-R-6R-HNB	ASME A112.21.1M, ON GRADE PVC TWO PIECE BODY WITH ADJUSTABLE 6" DIAMETER SATIN NICKEL BRONZE STRAINER WITH OVAL FUNNEL, AND 4" OUTLET.
FD-4	FLOOR DRAIN	WATTS	FD6-4NH-UP	ASME A112.21.1M, CAST IRON FLOOR DRAIN WITH SECURED GRATE, 4" NO HUB, VANDAL PROOF SCREWS.
SD-1	SHOWER DRAIN	JAY R. SMITH	2005-SS-CR8M	ASME A112.21.1M, ON GRADE CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, AJUSTABLE 6" SQUARE STAINLESS STEEL STRAINER, AND 2" OUTLET SIZE.
FS-1	FLOOR SINK	WATTS	FS-740-1-150-FC	12"X12" SQUARE LACQUERED CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, EPOXY COATED INTERIOR, 8" DEEP SUMP, ALUMINUM DOME STRAINER, CLAMP COLLAR, HALF GRATE, AND SATIN NICKEL-BRONZE STRAINER W / 4" OUTLET.
FS-2	FLOOR SINK	WATTS	FS-740-1-150-FC	12"X12" SQUARE LACQUERED CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, EPOXY COATED INTERIOR, 8" DEEP SUMP, ALUMINUM DOME STRAINER, CLAMP COLLAR, HALF GRATE, AND SATIN NICKEL-BRONZE STRAINER W / 3" OUTLET..
CO-1	EXTERIOR CLEANOUT	JAY R. SMITH	4250	HEAVY DUTY DURACOAT CAST IRON BODY WITH DOUBLE FLANGE HOUSING AND SCORIATED CAST IRON COVER WITH LIFTING DEVICES SECURED WITH COUNTERSUNK SCREWS.
CO-2	EXTERIOR CLEANOUT	JAY R. SMITH	4221	HEAVY DUTY CAST IRON BODY AND FRAME WITH ROUND ADJUSTABLE TOP, AND SCORIATED CAST IRON COVER SECURED WITH COUNTERSUNK SCREWS.
CO-3	INTERIOR CLEANOUT	JAY R. SMITH	4140	LACQUERED CAST IRON BODY WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER IN SERVICE AREAS AND ROUND GASKETED DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREA.
CO-4	INTERIOR CLENOUT	JAY R. SMITH	4422	LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER, AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.
HD-1	HUB DRAIN	---	---	HUB DRAIN SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS. END PIPE 2" AFF.
RD-1	ROOF DRAIN	WATTS	RD-300	COATED CAST IRON BODY, BOTTOM OUTLET, NO-HUB ROOF DRAIN WITH CAST OR DUCTILE IRON DOME, MEMBRANE CLAMP, ADJUSTABLE EXTENSION (OR EXTENSION SIZED FOR ROOF INSULATION), SUMP RECIEVER AND UNDERDECK CLAMP.
RD-2	ROOF DRAIN	WATTS	RD-250-4-L	COATED CAST IRON BODY, BOTTOM OUTLET, NO-HUB ROOF DRAIN WITH CAST OR DUCTILE IRON DOME, MEMBRANE CLAMP, ADJUSTABLE EXTENSION (OR EXTENSION SIZED FOR ROOF INSULATION), SUMP RECIEVER AND UNDERDECK CLAMP.

NOTES:
1. NOT ALL FIXTURES LISTED MAY BE USED ON PLANS.
2. ALL FLOOR DRAINS, FLOOR SINKS, AND ROOF DRAINS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.

HFA
HARRISON FRENCH & ASSOCIATES, LTD
t 479.273.7780
1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ae.com

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PLUMBING SCHEDULES

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