PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTIONS CW	CONNECTIONS HW	CONNECTIONS S/W	HEIGHT	WATER USE	DESCRIPTION	FINISH/COLOR	MODEL	KEY NOTES
EDF	BI-LEVEL ELECTRIC DRINKING FOUNTAIN W/BOTTLE FILLER	½"		1-½"	34"	–	FOUNTAIN: BI-LEVEL DUAL FOUNTAIN WITH BOTTLE FILLER, ADA COMPLIANT, SINGLE COOLING UNIT, INTEGRAL DRAIN. DRINKING FOUNTAIN SHALL CONFORM TO NSF 61, SECTION 9.	ALL: POLISHED STAINLESS STEEL	FOUNTAIN: ELKAY LZWS-EDFPMB117K OR APPROVED OTHER.	(2)
IMB	ICE MACHINE BOX	½"	–	–	24"	–	RECESSED, MOLDED PLASTIC, MOUNTING BRACKETS, FACEPLATE FRAME, PRE-INSTALLED COLD WATER VALVE WITH INTEGRAL WATER HAMMER ARRESTOR.	BOX: WHITE VALVE: POLISHED CHROME	OATEY 38602/38491 OR EQUAL BY GUY GRAY, OATEY, SIOUX CHIEF OR APPROVED EQUAL.	(1)
JS	JANITOR'S MOP SINK	¾"	¾"	2"	–	–	BASIN: FLOOR MOUNTED, TERRAZZO, 24"X24"X12" DEEP, STAINLESS STEEL CAPS, STAINLESS STEEL STRAINER, STAINLESS STEEL WALL GUARDS. FAUCET: WALL MOUNTED, SOLID BRASS, INTEGRAL VACUUM BREAKER, PAIL HOOK, WALL BRACE, ¾" HOSE THREADED OUTLET, LEVER HANDLE.	BASIN: NATURAL OR WHITE FAUCET: POLISHED OR ROUGH CHROME DRAIN: STAINLESS STEEL	BASIN: FIAT TSB-100 OR EQUAL BY FIAT, STERN WILLIAMS, OR APPROVED EQUAL. FAUCET: CHICAGO 540-LD897SWXFABCP OR EQUAL BY CHICAGO, SYMMONS, T&S BRASS, OR APPROVED OTHER.	(11)
L1	PRIVATE ROOM, COUNTERTOP, UNDERMOUNT LAVATORY	½"	½"	1-¼"	–	1.2 GPM	BOWL: VITREOUS CHINA, 20.56" X 14.5" RECTANGLE, UNDERMOUNT, FAUCET HOLES ON 4" CENTERS. FAUCET: SINGLE LEVER, RED/BLUE HOT/COLD INDICATORS, CERAMIC CONTROL COMPONENTS, 4" CENTERS, BRONZE BODY, ALL METAL CONSTRUCTION, AERATOR, LIFT ROD AND POP-UP DRAIN ASSEMBLY.	BOWL: WHITE FAUCET: BRUSHED NICKLE	BOWL: HYDRAPRO HPRUL2114/H49202 OR EQUAL BY KOHLER, BRIGGS, STERLING, OR APPROVED OTHER. FAUCET: PFISTER LF-049-MCKK OR EQUAL BY DELTA, KOHLER, CFG, OR APPROVED OTHER.	(3)
L1H	PRIVATE ROOM, COUNTERTOP, UNDERMOUNT, HANDICAPPED LAVATORY	½"	½"	1-¼"	–	1.2 GPM	BOWL: VITREOUS CHINA, 20.56" X 14.5" RECTANGLE, UNDERMOUNT, FAUCET HOLES ON 4" CENTERS. FAUCET: SINGLE LEVER, RED/BLUE HOT/COLD INDICATORS, CERAMIC CONTROL COMPONENTS, 4" CENTERS, BRONZE BODY, ALL METAL CONSTRUCTION, AERATOR, LIFT ROD AND POP-UP DRAIN ASSEMBLY.	BOWL: WHITE FAUCET: BRUSHED NICKLE	BOWL: HYDRAPRO HPRUL2114/H49202 OR EQUAL BY KOHLER, BRIGGS, STERLING, OR APPROVED OTHER. FAUCET: PFISTER LF-049-MCKK OR EQUAL BY DELTA, KOHLER, CFG, OR APPROVED OTHER.	(3)(6)
L2H	PUBLIC, COUNTERTOP, DROP IN, HANDICAPPED LAVATORY	½"	½"	1-½"	–	0.5 GPM	BOWL: VITREOUS CHINA, 16.25" DIAMETER, SELF-RIMMING DROP-IN, FAUCET HOLES ON 4" CENTERS. FAUCET: SINGLE LEVER, RED/BLUE HOT/COLD INDICATORS, CERAMIC CONTROL COMPONENTS, 4" CENTERS, BRONZE BODY, ALL METAL CONSTRUCTION, FLOW LIMITING AERATOR.	BOWL: WHITE FAUCET: ANTIQUE COPPER	BOWL: KOHLER K-2200 OR EQUAL BY KOHLER, BRIGGS, STERLING, OR APPROVED OTHER. FAUCET: SIGNATURE HARDWARE 920438 OR EQUAL BY DELTA, KOHLER, OLYMPIA OR APPROVED OTHER.	(4)(5)(6)
L3H	PUBLIC, COUNTERTOP, UNDERMOUNT, HANDICAPPED LAVATORY	½"	½"	1-½"	–	0.5 GPM	BOWL: VITREOUS CHINA, 23.875" X 15.625" RECTANGLE, UNDERCOUNTER INSTALLATION, OVERFLOW OUTLET. FAUCET: SINGLE LEVER, RED/BLUE HOT/COLD INDICATORS, CERAMIC CONTROL COMPONENTS, 4" CENTERS, BRONZE BODY, ALL METAL CONSTRUCTION, FLOW LIMITING AERATOR.	BOWL: WHITE FAUCET: BRUSHED NICKEL	BOWL: KOHLER K-2297 OR APPROVED OTHER. FAUCET: PFISTER LF-042-KACS OR APPROVED OTHER.	(4)(5)(6)
S1	STAINLESS STEEL ONE COMPARTMENT SINK	½"	½"	1-½"	–	1.8 GPM	BOWL: ONE COMPARTMENT, UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, 22.5"X18.5"X9.5" DEEP BOWL WITH ROUNDED CORNERS. FAUCET: SINGLE HANDLE PULL DOWN FAUCET, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOP, RED/BLUE HOT/COLD INDICATORS, 360° HEAD SWIVEL, BRONZE BODY AND ALL METAL CONSTRUCTION. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	BOWL: POLISHED STAINLESS STEEL FAUCET: POLISHED STAINLESS STEEL	BOWL: ELKAY ECTRU21179T OR EQUAL BY ELKAY, JUST, OR APPROVED OTHER. FAUCET: OLYMPIA K-5020 OR EQUAL BY DELTA, KOHLER, SLOAN, OR APPROVED OTHER. DRAIN: JUST J-35 OR APPROVED EQUAL.	–
S1H	STAINLESS STEEL ONE COMPARTMENT SINK	½"	½"	1-½"	–	1.8 GPM	BOWL: ONE COMPARTMENT, UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, 21.5"X18"X5.5" DEEP BOWL WITH ROUNDED CORNERS. FAUCET: SINGLE HANDLE PULL DOWN FAUCET, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOP, RED/BLUE HOT/COLD INDICATORS, 360° HEAD SWIVEL, BRONZE BODY AND ALL METAL CONSTRUCTION. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	BOWL: POLISHED STAINLESS STEEL FAUCET: POLISHED STAINLESS STEEL	BOWL: ELKAY ELUHAD191655PD OR EQUAL BY ELKAY, JUST, OR APPROVED OTHER. FAUCET: OLYMPIA K-5020 OR EQUAL BY DELTA, KOHLER, SLOAN, OR APPROVED OTHER. DRAIN: JUST J-35 OR APPROVED EQUAL.	–
S2	STAINLESS STEEL ONE COMPARTMENT SINK	½"	½"	1-½"	–	1.8 GPM	BOWL: ONE COMPARTMENT, UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, 32"X18.3"X9.3" DEEP BOWL WITH ROUNDED CORNERS. FAUCET: SINGLE HANDLE PULL DOWN FAUCET, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOP, RED/BLUE HOT/COLD INDICATORS, 360° HEAD SWIVEL, BRONZE BODY AND ALL METAL CONSTRUCTION. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	BOWL: POLISHED STAINLESS STEEL FAUCET: POLISHED STAINLESS STEEL	BOWL: KOHLER K-RH20912-NA OR APPROVED OTHER. FAUCET: PFISTER F-0529-6LMS OR APPROVED OTHER. DRAIN: JUST J-35 OR APPROVED EQUAL.	–
S3	STAINLESS STEEL ONE COMPARTMENT SINK	½"	½"	1-½"	–	1.8 GPM	BOWL: ONE COMPARTMENT, UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, 31.5"X18"X9" DEEP BOWL WITH ROUNDED CORNERS. FAUCET: SINGLE HANDLE PULL DOWN FAUCET, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOP, RED/BLUE HOT/COLD INDICATORS, 360° HEAD SWIVEL, BRONZE BODY AND ALL METAL CONSTRUCTION. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	BOWL: POLISHED STAINLESS STEEL FAUCET: POLISHED STAINLESS STEEL	BOWL: HYDRAPRO SSSUSB31189 OR APPROVED OTHER. FAUCET: PFISTER F-0529-6LMS OR APPROVED OTHER. DRAIN: JUST J-35 OR APPROVED EQUAL.	–
S4	STAINLESS STEEL ONE COMPARTMENT SINK	½"	½"	1-½"	–	1.8 GPM	BOWL: ONE COMPARTMENT, UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, 31"X18"X9" DEEP BOWL WITH ROUNDED CORNERS. FAUCET: SINGLE HANDLE PULL DOWN FAUCET, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOP, RED/BLUE HOT/COLD INDICATORS, 360° HEAD SWIVEL, BRONZE BODY AND ALL METAL CONSTRUCTION. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	BOWL: POLISHED STAINLESS STEEL FAUCET: POLISHED CHROME	BOWL: HYDRAPRO SSSUSB31189 OR APPROVED OTHER. FAUCET: PFISTER F-0529-6LMS OR APPROVED OTHER. DRAIN: JUST J-35 OR APPROVED EQUAL.	–
SH1-SH3	SHOWER	½"	½"	2"	–	1.75 GPM	BASIN: ACRYLIC OR VIKRELL, SLIP-RESISTANT SURFACE, REINFORCED FLOOR, SIZED PER ARCHITECTURAL PLANS. VALVE: PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE CONTROL LIMIT STOP, SHOWERHEAD WITH ARM AND FLANGE. DRAIN: GRID TO DRAIN ASSEMBLY BY BASIN MANUFACTURER.	BASIN: WHITE VALVE: POLISHED CHROME DRAIN: MATCH VALVE COLOR	BASIN: STERLING, AMERICAN STANDARD, KOHLER, OR APPROVED EQUAL. VALVE: OLYMPIA P-2372T OR EQUAL BY DELTA, KOHLER, MOEN, OR APPROVED OTHER.	(1)
SH1H	HANDICAPPED SHOWER (NON ROLL-IN)	½"	½"	2"	–	1.75 GPM	BASIN: ACRYLIC OR VIKRELL, SLIP-RESISTANT SURFACE, ½" OR SHORTER THRESHOLD LIP (BEVELED, ROUNDED OR VERTICAL TRANSITION), BUILT-IN HANDICAPPED SEAT, REINFORCED FLOOR. SIZED PER ARCHITECTURAL DRAWINGS. VALVE: PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, THREE WAY DIVERTER WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE CONTROL LIMIT STOP, SHOWERHEAD WITH ARM AND FLANGE, HAND SHOWER WITH FLEXIBLE METAL HOSE AND NON-POSITIVE SHUT-OFF, IN LINE VACUUM BREAKER, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. DRAIN: GRID TO DRAIN ASSEMBLY BY BASIN MANUFACTURER.	BASIN: WHITE VALVE: POLISHED CHROME DRAIN: MATCH VALVE COLOR	BASIN: STERLING, AMERICAN STANDARD, KOHLER, OR APPROVED OTHER. VALVE: OLYMPIA P-2372T WITH P-4530-S HAND WAND OR EQUAL BY DELTA, KOHLER, MOEN OR APPROVED OTHER.	(1)(10)
SH2H	ROLL-IN, HANDICAPPED SHOWER	½"	½"	2"	–	1.75 GPM	BASIN: ACRYLIC OR VIKRELL, SLIP-RESISTANT SURFACE, ½" OR SHORTER THRESHOLD LIP (BEVELED TRANSITION), BUILT-IN HANDICAPPED SEAT, REINFORCED FLOOR, SIZED PER ARCHITECTURAL PLANS. VALVE: PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, THREE WAY DIVERTER WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE CONTROL LIMIT STOP, SHOWERHEAD WITH ARM AND FLANGE, HAND SHOWER WITH FLEXIBLE METAL HOSE AND NON-POSITIVE SHUT-OFF, IN LINE VACUUM BREAKER, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. DRAIN: GRID TO DRAIN ASSEMBLY BY BASIN MANUFACTURER.	BASIN: WHITE VALVE: POLISHED CHROME DRAIN: MATCH VALVE COLOR	BASIN: STERLING, AMERICAN STANDARD, KOHLER, OR APPROVED OTHER. VALVE: OLYMPIA P-2372T WITH P-4530-S HAND WAND OR EQUAL BY DELTA, KOHLER, MOEN OR APPROVED OTHER.	(1)(10)
SH4	DOG SHOWER	½"	½"	2"	–	1.75 GPM	BASIN: TILE BY ARCHITECT, SIZED PER ARCHITECTURAL PLANS. VALVE: PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE CONTROL LIMIT STOP, SHOWERHEAD WITH ARM AND FLANGE. DRAIN: GRID TO DRAIN ASSEMBLY.	BASIN: WHITE VALVE: POLISHED CHROME DRAIN: MATCH VALVE COLOR	BASIN: TILE BY ARCHITECT. VALVE: T&S BRASS P3-8WESW-OOM-CR OR APPROVED OTHER.	(1)
T1	STANDARD BATHTUB WITH SHOWER	½"	½"	2"	–	1.75 GPM	TUB: FULL LENGTH SLIP-RESISTANT SURFACE, APRON FRONT, SOLID ACRYLIC OR VIKRELL MATERIAL, GLOSS FINISH, SIZED PER ARCHITECTURAL DRAWINGS. VALVE: PRESSURE BALANCING MIXING VALVE, INTEGRAL DIVERTER, ADJUSTABLE TEMPERATURE CONTROL LIMIT STOP, SHOWERHEAD WITH ARM AND FLANGE, TUB SPOUT. DRAIN: ADJUSTABLE, POP-UP DRAIN ASSEMBLY.	TUB: WHITE VALVE: POLISHED CHROME DRAIN: MATCH VALVE COLOR	TUB: STERLING, AMERICAN STANDARD, KOHLER, OR APPROVED OTHER. VALVE: OLYMPIA P-2370T OR EQUAL BY DELTA, KOHLER, MOEN, OR APPROVED OTHER. DRAIN: BY TUB MANUFACTURER.	(1)
URH	WALL MOUNTED, FLUSH VALVE, HANDICAPPED URINAL	¾"	–	2"	17"	0.5 GPF	BOWL: ADA COMPLIANT, VITREOUS CHINA, TOP SPUD, INTEGRAL TRAP, [illegible] OUTLET. VALVE: TOUCHLESS, BRONZE BODY AND PISTON WITH STAINLESS STEEL DEBRIS SCREEN, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON.	BOWL: WHITE VALVE: POLISHED CHROME	BOWL: KOHLER K-5452-ET-0 OR APPROVED OTHER. VALVE: KOHLER K-7528-CP OR APPROVED OTHER.	(12)
WC1	FLOOR MOUNTED, TANK TYPE WATER CLOSET	½"	–	3"	–	1.28 GPF	BOWL: VITREOUS CHINA, TWO PIECE, CLOSE COUPLED TANK, FULLY GLAZED TRAP WAY, SIPHON ACTION FLUSH, ELONGATED BOWL. SEAT: PLASTIC, CLOSED FRONT WITH COVER, INTEGRALLY MOLDED BUMPERS, BOLT CAPS.	BOWL: WHITE SEAT: MATCH BOWL COLOR	BOWL: BRIGGS 4035 OR EQUAL BY AMERICAN STANDARD, BRIGGS KOHLER, TOTO OR APPROVED OTHER. SEAT: CHURCH 130TT OR EQUAL BY BEMIS, BENEKE, CENTOCO, CHURCH, OR SEAT MADE BY WATER CLOSET MANUFACTURER.	(7)
WC1H	FLOOR MOUNTED, TANK TYPE, HANDICAPPED WATER CLOSET	½"	–	3"	–	1.28 GPF	BOWL: ADA COMPLIANT, VITREOUS CHINA, TWO PIECE, CLOSE COUPLED TANK, FULLY GLAZED TRAP WAY, SIPHON ACTION FLUSH, ELONGATED BOWL. SEAT: PLASTIC, CLOSED FRONT WITH COVER, INTEGRALLY MOLDED BUMPERS, BOLT CAPS.	BOWL: WHITE SEAT: MATCH BOWL COLOR	BOWL: BRIGGS 4038 OR EQUAL BY AMERICAN STANDARD, KOHLER, TOTO OR APPROVED OTHER. SEAT: CHURCH 130TT OR EQUAL BY BEMIS, BENEKE, CENTOCO, CHURCH, OR SEAT MADE BY WATER CLOSET MANUFACTURER.	(7)(8)(9)
WC2	PUBLIC, FLOOR MOUNTED, FLUSH VALVE WATER CLOSET	½"	–	4"	–	1.28 GPF	BOWL: VITREOUS CHINA, TOP SPUD, FULLY GLAZED TRAP WAY, SIPHON JET ACTION FLUSH, ELONGATED BOWL. VALVE: TOUCHLESS, BRONZE BODY, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON. SEAT: EXTRA HEAVY WEIGHT PLASTIC, OPEN FRONT LESS COVER, INTEGRALLY MOLDED BUMPERS, BOLT CAPS, STAINLESS STEEL CHECK HINGE.	BOWL: WHITE SEAT: MATCH BOWL COLOR	BOWL: KOHLER K-96058-SSL-0 OR APPROVED OTHER. VALVE: KOHLER K-7521-CP OR APPROVED OTHER. SEAT: CHURCH 9500C OR EQUAL BY BEMIS, BENEKE, CENTOCO, CHURCH, OR SEAT MADE BY WATER CLOSET MANUFACTURER.	(7)
WC2H	PUBLIC, FLOOR MOUNTED, FLUSH VALVE, HANDICAPPED WATER CLOSET	½"	–	[illegible]	–	1.28 GPF	BOWL: ADA COMPLIANT, VITREOUS CHINA, TOP SPUD, FULLY GLAZED TRAP WAY, SIPHON JET ACTION FLUSH, ELONGATED BOWL. VALVE: TOUCHLESS, BRONZE BODY, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON. SEAT: EXTRA HEAVY WEIGHT PLASTIC, OPEN FRONT LESS COVER, INTEGRALLY MOLDED BUMPERS, BOLT CAPS, SELF SUSTAINING STAINLESS STEEL CHECK HINGE.	BOWL: WHITE SEAT: MATCH BOWL COLOR	BOWL: KOHLER K-96058-SSL-0 OR APPROVED OTHER. VALVE: KOHLER K-7521-CP OR APPROVED OTHER. SEAT: CHURCH 9500SSC OR EQUAL BY BEMIS, BENEKE, CENTOCO, CHURCH, OR SEAT MADE BY WATER CLOSET MANUFACTURER.	(7)(8)(9)
WMB	WASHING MACHINE BOX	[illegible]	½"	[illegible]	–	–	RECESSED, MOLDED PLASTIC, MOUNTING BRACKETS, FACEPLATE FRAME, 2" DRAIN OPENING, PRE-INSTALLED HOT AND COLD WATER VALVES WITH INTEGRAL WATER HAMMER ARRESTORS.	BOX: WHITE VALVES: POLISHED CHROME	OATEY 38748/38491 OR EQUAL BY GUY GRAY, OATEY, OR APPROVED EQUAL.	(1)

FIXTURE SCHEDULE GENERAL NOTES:

A. SPECIFICATIONS AND FIXTURE MODEL NUMBERS ARE A GENERAL GUIDE ONLY AND THE MODEL NUMBER MAY NOT REFLECT ALL FEATURES, ACCESSORIES, SIZE, OR MINIMUM OR MAXIMUM ALLOWABLE DIMENSIONS OF THE REQUIRED PRODUCT.

B. FEATURES OF THE FIXTURE MODEL TO BE PROVIDED BY THE CONTRACTOR SHALL BE VERIFIED WITH THE DESCRIPTIONS GIVEN IN THIS SCHEDULE AND WITH THE ARCHITECTURAL AND/OR INTERIOR DESIGN DRAWINGS.

C. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES OF FIXTURE REQUIREMENTS, DESCRIPTIONS, SIZES, DIMENSIONS, OR MODEL NUMBER EXIST BETWEEN THE ARCHITECTURAL, INTERIORS, AND PLUMBING DRAWINGS PRIOR TO SUBMITTING BID.

D. BY SUBMITTING A BID FOR THIS PROJECT, THE CONTRACTOR IS CERTIFYING THAT ALL FIXTURES INCLUDED IN THEIR BID PACKAGE HAVE BEEN VERIFIED TO COMPLY WITH THE GENERAL PERFORMANCE REQUIREMENTS OF THIS SCHEDULE AND THAT ALL INCLUDED FIXTURE DIMENSIONS HAVE BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.

E. CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZE OF ALL COUNTER MOUNTED FIXTURES WITH ARCHITECTURAL DRAWINGS AND CABINET FABRICATOR.

F. LOW LEAD VERSIONS OF ALL FIXTURES SHALL BE USED WHEN OFFERED BY THE MANUFACTURER AS AN OPTION.

G. THE TERM "APPROVED OTHER" OR "APPROVED EQUAL", WHERE USED IN THIS SCHEDULE, SHALL MEAN AN ENGINEER APPROVED ALTERNATE MANUFACTURER AND MODEL.

FIXTURE SCHEDULE KEY NOTES:

(1) SEE ARCHITECTURAL ELEVATIONS FOR COMPONENT MOUNTING HEIGHTS.
(2) MOUNTING HEIGHT IS FOR LOWER UNIT IN A BI-LEVEL FIXTURE SET.
(3) PROVIDE POP-UP TYPE DRAIN ASSEMBLIES ON LAVATORIES IN ALL PRIVATE BATH ROOMS.
(4) PROVIDE A GRID DRAIN ASSEMBLY FOR LAVATORIES IN ALL PUBLIC RESTROOMS.
(5) PROVIDE A WATER TEMPERATURE LIMITING DEVICE COMPLYING WITH ASSE 1070 ON THE HOT WATER INLET FOR ALL PUBLIC LAVATORY FAUCETS. SEE DETAIL.
(6) ALL WASTE PIPING AND HOT WATER PIPING BELOW HANDICAPPED SINKS SHALL BE INSULATED WITH TRUEBRO COVERS OR APPROVED EQUAL.
(7) WATER CLOSETS MUST BE CAPABLE OF AT LEAST REMOVING 800 GRAMS PER FLUSH BASED ON MAXIMUM PERFORMANCE (MAP) OF TOILET FIXTURES BY VERITEC CONSULTING, INC. AND KOELLER CO.
(8) WATER CLOSET SHALL MEET ADA HEIGHT REQUIREMENTS WITH SEAT INSTALLED.
(9) ALL FLUSHING CONTROLS SHALL BE ON THE "WIDE" OR "OPEN" SIDE OF THE TOILET AREA PER LOCAL ACCESSIBILITY CODES.
(10) BOTH WALL SHOWER HEAD AND HAND WAND MUST BE PROVIDED TO MEET ADA REQUIREMENTS.
(11) MOUNT FAUCET 48" ABOVE FINISHED FLOOR.

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	TYPE	KW	RECOVERY (100°F TEMP. RISE)	NOMINAL STORAGE GALLONS	ENERGY FACTOR	BASIS OF DESIGN	REMARKS
WH-1	SINGLE BATH APARTMENTS	TANK TYPE	4.5	19	38	0.95	A.O. SMITH ENL-40 OR APPROVED EQUAL	(1)(2)(3)(4)
WH-2	TWO BATH APARTMENTS	TANK TYPE	4.5	19	47	0.95	A.O. SMITH ENL-50 OR APPROVED EQUAL	(1)(2)(3)(4)
WH-3	CLUBHOUSE	TANK TYPE	6.0	25	47	0.95	A.O. SMITH ENL-50 OR APPROVED EQUAL	(1)(3)
WH-4	FITNESS BUILDING	TANK TYPE	6.0	25	47	0.95	A.O. SMITH ENL-50 OR APPROVED EQUAL	(1)(3)
WH-6	MAINTENANCE GARAGE	TANK TYPE	4.5	19	38	0.95	A.O. SMITH ENL-40 OR APPROVED EQUAL	(1)(3)

(1) SEE ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
(2) PROVIDE ONE WATER HEATER PER APARTMENT UNIT.
(3) ACCEPTABLE EQUAL MANUFACTURERS ARE A.O.SMITH, BRADFORD WHITE, LOCKINVAR, PVI, RHEEM OR STATE.
(4) IF WATER HEATER IS SUPPLIED WITH AN INSULATION BLANKET TO MEET THE REQUIRED ENERGY FACTOR, THE BLANKET MUST BE PLENUM RATED. NON-PLENUM RATED BLANKETS SUPPLIED BY THE MANUFACTURER MUST BE REPLACED WITH AN INSULATION BLANKET FROM AN INSULATION MANUFACTURER THAT IS PLENUM RATED. PLENUM RATED BLANKETS ARE NOT REQUIRED IF THE WATER HEATER IS NOT IN A PLENUM OR IS NOT LOCATED IN A CLOSET SHARED WITH HVAC EQUIPMENT.

INSTANTANEOUS WATER HEATER SCHEDULE

MARK	QUANTITY	LOCATION	ENERGY SOURCE	INPUT ENERGY	TEMPERATURE RISE	FLOW RATE	EFFICIENCY RATING	TEMPERATURE SET POINT	BASIS OF DESIGN	REMARKS
WH-5	1	BELOW SINK	ELECTRIC	12.0 KW	55°F	1.5 GPM	95%	110°	CHRONOMITE R-58S OR APPROVED EQUAL	–

NOTES:
(1) WATER HEATER SHALL BE DRAINABLE FOR WINTERIZATION DURING FREEZING MONTHS.

RECIRC PUMP SCHEDULE

MARK	SERVICE	TYPE	GPM	H.P.	HEAD	RPM	BASIS OF DESIGN
HWCP	HOT WATER CIRCULATING PUMP	IN-LINE	5.0 GPM	28W	5 FT	3450	ECOCIRC E3 SERIES

NOTE: HWCP IS LOCATED AT UNITS B2, C1, C1-HC, CLUBHOUSE & FITNESS.

PLUMBING SPECIALTY SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER MODEL NUMBER	PIPE SIZES SOIL OR WASTE	PIPE SIZES VENT	DESCRIPTION	NOTES:
FD1	FLOOR DRAIN, GENERAL PURPOSE TYPE	MIFAB F1100-C-1-5-7	2",3",4"	2"	DUCO CAST IRON BODY AND FLASHING COLLAR, ADJUSTABLE NICKEL-BRONZE STRAINER HEAD, ROUND TOP, CAULK OUTLET. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.	1
FD2	FLOOR DRAIN, HEAVY DUTY TYPE	MIFAB F1100-C-N7-1-5-7	2",3",4"	2"	DUCO CAST IRON BODY AND FLASHING COLLAR WITH BAR GRATE, ROUND TOP, CAULK OUTLET. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.	1
FD3	FLOOR DRAIN, GENERAL PURPOSE TYPE	KOHLER K-9136-BN	2",3",4"	2"	VIBRANT BRUSHED NICKEL.CLEARFLO TILE-IN SHOWER DRAIN. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.	1
WHYD	NON-FREEZE WALL HYDRANT	MIFAB MHY-20 SERIES	---	---	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, ¼ TURN KEY ASSEMBLY, AND STAINLESS STEEL LOCKING BOX.	1
HB	HOSE BIBB	MIFAB MHY-10 SERIES	---	---	HOSE BIBB WITH INTEGRAL VACUUM BREAKER, ¼ TURN KEY ASSEMBLY, AND EXPOSED HOSE CONNECTION.	1
RHYD	NON-FREEZE ROOF HYDRANT	WOODFORD RHY2-M	---	---	NON-FREEZE ROOF HYDRANT WITH BACKFLOW PREVENTER, INTEGRAL DRAIN, CAST IRON MOUNT.	1
LD	LINEAR CHANNEL DRAIN	ACO QUARTZ SERIES OR APPROVED OTHER.	2",3",4"	2"	3.35" WIDE CHANNEL DRAIN WITH VERTICAL OUTLET, DECORATIVE STAINLESS STEEL GRATE AND LEVELING FEET.	1
FS	INDIRECT WASTE DRAIN	MIFAB FS1730-F1-1-6-7	2",3",4"	2"	DUCO CAST IRON BODY AND FLASHING COLLAR WITH NICKEL BRONZE ADJUSTABLE STRAINER HEAD W/ SECURED SQUARE HOLE 12" X 12" GRATE. PROVIDE VANDAL PROOF SCREWS. PROVIDE WITH ½" TRAP PRIMER CONNECTION WHERE REQUIRED BY CODE.	1
FCO	FLOOR CLEAN OUT	MIFAB C1100-XR-1	2",4"	---	TWIST TO FLOOR ADJUSTMENT ROUND TOP.	1
WCO	WALL PLATE CLEAN OUT	MIFAB C1430-RD	2",4"	---	CAST BRONZE TAPER THREAD PLUG WITH STAINLESS STEEL ROUND COVER AND SCREW.	1
TP	TRAP PRIMER VALVE	PRECISION PLUMBING PR-500	---	---	TRAP PRIMER WITH INTERNAL VACUUM BREAKER AND INTEGRAL BACKFLOW PREVENTOR. SUPPLY WITH DISTRIBUTION UNIT. MAX 4 FLOOR DRAINS/FLOOR SINKS PER TRAP PRIMER. COORDINATE WITH MECHANICAL PLUMBING DRAWINGS FOR QUANTITY OF FLOOR DRAINS/FLOOR SINKS TO ENSURE ALL FLOOR DRAINS AND FLOOR SINKS ARE EQUIPPED WITH TRAP PRIMER.	1

NOTES:
1. APPROVED ALTERNATE MANUFACTURERS FOR PLUMBING FIXTURES AND EQUIPMENT ARE MIFAB, J.R. SMITH, JOSAM, WADE, WATTS, ZURN OR APPROVED OTHER.
2. VENT ONLY REQUIRED WHEN ROUTING TO SANITARY SYSTEM.

PLUMBING LEGEND

SYMBOL	MARK	DESCRIPTION
	S OR W	SOIL OR WASTE PIPE BELOW SLAB
	RW	RAINWATER
	V	VENT PIPE
	CW	COLD WATER PIPE
	HW	HOT WATER PIPE
	HWR	HOT WATER RECIRCULATING PIPE
	G	GAS PIPE
		PIPING TO BE HEAT TRACED
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	BV	BALL VALVE
	BV	BALANCING VALVE
	WHA	WATER HAMMER ARRESTOR
	CKV	CHECK VALVE
	STR	STRAINER
	WHYD OR HB	WALL HYDRANT OR HOSE BIBB
	AAV	AIR ADMITTANCE VALVE
	AFF	ABOVE FINISH FLOOR
	A/C	ABOVE CEILING
	B/F	BELOW FLOOR
	B/G	BELOW GROUND
	N.C.	NORMALLY CLOSED
	VTR	VENT THRU ROOF

PIPING TYPES & REQUIREMENTS

SERVICE	LOCATION	MATERIAL	NOTES
SANITARY, WASTE & VENT	ALL	PVC	(1)
DOMESTIC WATER	ALL	CPVC	–
GAS	ALL	SCH. 40 BLACK STEEL	(2)

(1) AT TIME OF DESIGN APARTMENT MECHANICAL CLOSETS ARE AIR PLENUMS. PIPING WITHIN AIR PLENUMS SHALL BE CPVC OR CSST.
(2) PIPING BENEATH THE GROUND SHALL BE POLYETHYLENE.

GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCT WORK AND LIGHTING FIXTURES.
2. ALL PIPING DROPS IN CHASES AND WALLS ARE TO BE SECURED TO WALLS.
3. ALL VERTICAL WASTE, WATER, VENT AND STORM RISERS THAT ARE EXPOSED IN AREAS INTERIOR TO THE BUILDING THAT ARE VISIBLE TO THE PUBLIC SHALL BE ENCASED IN ARCHITECTURAL FURR OUTS. NOTIFY GC IF FURR OUTS ARE NOT PROVIDED ON ARCHITECTURAL DRAWINGS.
4. MAKE ALL FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENT.
5. CAP ALL OPEN PIPING ENDS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DEBRIS INTO THE PLUMBING SYSTEMS.
6. ALL WASTE PIPING 4" OR LARGER TO BE SLOPED AT 1/8" PER LINEAR FOOT. ALL WASTE PIPING SMALLER THAN 4" TO BE SLOPED AT 1/4" PER LINEAR FOOT.
7. ALL PIPING IN EXTERIOR WALLS TO BE RUN ON "WARM" SIDE OF INSULATION.
8. ALL PLUMBING TRAPS LOCATED IN UNHEATED ENCLOSED ROOMS SHALL BE INSULATED FROM THE UNDERSIDE OF THE FLOOR ABOVE, THRU THE TRAP, AND 5'-0" BEYOND THE END OF THE TRAP.
9. ALL PLUMBING TRAPS LOCATED IN UNHEATED OPEN AREAS (I.E. PARKING DECKS) OR OTHERWISE SUBJECT TO FREEZING, SHALL BE INSULATED FROM THE UNDERSIDE OF THE FLOOR ABOVE, THRU THE TRAP TO A POINT 5'-0" BEYOND THE END OF THE TRAP, AND SHALL HAVE HEAT TRACE.
10. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CONNECTION POINT AND POWER REQUIREMENTS OF ALL REQUIRED HEAT TRACE WITH THE ELECTRICAL CONTRACTOR IN THE FIELD PRIOR TO ORDERING OR INSTALLING ANY HEAT TRACE.
11. ALL WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND HEAT TRACED. WATER PIPING SYSTEMS DESIGNED TO DRAINED AND WINTERIZED ARE EXEMPT FROM THIS REQUIREMENT.
12. DOMESTIC AND FIRE PROTECTION WATER SERVICE PIPING BELOW GRADE TO BE BURIED BELOW LOCAL FROST LINE CONDITION.
13. NO PIPING FOR ANY SERVICE INSTALLED ABOVE ELECTRICAL PANELS, LOADCENTERS, ELEVATOR EQUIPMENT, OR OTHER ELECTRICAL SYSTEM. CONTRACTOR SHALL NOTIFY ENGINEER AND ARCHITECT IF NO CODE COMPLIANT PIPE ROUTE EXISTS THAT DOES NOT CROSS AN ELECTRICAL SYSTEM PRIOR TO THE INSTALLATION OF THE PLUMBING PIPING IN THE AREA.
14. THE GENERAL CONTRACTOR SHALL ORGANIZE A FACE TO FACE MEETING, PRIOR TO BEGINNING CONSTRUCTION, BETWEEN THE PLUMBING CONTRACTOR, FIRE PROTECTION CONTRACTOR, ELECTRICAL CONTRACTOR, HVAC CONTRACTOR, AND ANY OTHER CONTRACTORS THAT MAY HAVE INSTALLATION WORK TO PERFORM WHERE PLUMBING PIPING IS TO BE INSTALLED, TO COORDINATE THE INSTALLATION NEEDS OF THE PLUMBING SYSTEM WITH OTHER TRADES FOR THE PURPOSE OF IDENTIFYING AND AVOIDING INSTALLATION CONFLICTS DURING CONSTRUCTION FOR PIPE ROUTING, DRAIN LOCATIONS, DRAINAGE REQUIREMENTS FOR OTHER TRADES, AND ANY AND ALL OTHER POINTS WHERE MULTIPLE TRADES MAY COME INTO CONTACT. THIS MEETING SHALL ALSO SERVE TO MATCH THE VOLTAGE, PHASE, AMPS, MCA, AND MOCP OF THE EQUIPMENT WITH THE DESIGNED ELECTRICAL CHARACTERISTICS. RECORDS OF THIS MEETING, INCLUDING MEETING MINUTES AND A LIST OF ATTENDEES, SHALL BE MADE AVAILABLE TO THE OWNER AND THE DESIGN TEAM UPON REQUEST.
15. ALL PIPING ABOVE TO BE HUNG AS HIGH AS POSSIBLE.
16. MOUNT ALL WALL HYDRANTS AND HOSE BIBBS 18" ABOVE FINISHED GRADE OR FLOOR.
17. UNLESS OTHERWISE INDICATED, ALL SANITARY, WASTE, AND RAINWATER PIPING SHOWN ON DRAWINGS IS BELOW FLOOR AND ALL WATER, GAS, AND VENT PIPING IS ABOVE CEILING.
18. PROVIDE TRAP PRIMERS (AUTOMATIC OR WATER SAVER TYPE) ON ALL FLOOR DRAINS AND HUB DRAINS. SEE DETAIL SHEET FOR TRAP PRIMER DETAIL.
19. COORDINATE COUNTER TOP FIXTURE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
20. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVE CONNECTIONS SUCH FOR WASHING MACHINES, ICE MAKERS, DISHWASHERS, FLUSH VALVES AND DRINKING FOUNTAINS.
21. PROVIDE A GAS RATED BALL VALVE, DIRT LEG AND UNION AT EACH GAS APPLIANCE CONNECTION.
22. ALL COPPER PIPING SHALL BE ISOLATED FROM DISSIMILAR METALS.
23. HEAT TRAPS OR HEAT TRAP NIPPLES ARE REQUIRED ON ALL WATER HEATERS.
24. SEE SPECIFICATIONS FOR WATER PIPING INSULATION REQUIREMENTS.
25. ALL VENT OPENINGS SHALL BE A MINIMUM OF 10 FEET FROM ANY AIR INTAKE, DOOR, OR OPERABLE WINDOW.
26. ALL VALVES ON ALL PLANS AND DETAILS ARE NORMALLY OPEN UNLESS NOTED OTHERWISE ON DRAWINGS, SPECIFICATIONS, OR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
27. ALL VERTICAL WASTE, VENT, AND RAIN WATER STACKS CONNECTED TO HORIZONTAL PIPING PENETRATING WOOD STUDS IN WALLS SHALL BE PROTECTED FROM BUILDING SHRINKAGE, BUILDING SETTLEMENT AND THERMAL PIPE EXPANSION. SEE DETAILS ON STRUCTURAL DRAWINGS AND PLUMBING EXPANSION DETAILS.

REMOTE READ WATER METERS

ALL WATER METERS SYSTEM SHALL BE COMPATIBLE WITH OWNER'S METER READING SYSTEM. COORDINATE WITH OWNER PRIOR TO PURCHASE OR INSTALLTION.

1. SYSTEM SHALL BE COMPLETELY WIRELESS AND FCC-LICENSED (NOT "FCC CERTIFIED" OR "FCC APPROVED").
2. SYSTEM SHALL REQUIRE NOT MORE THAN 1 REPEATER FOR EACH 100 TRANSMITTERS.
3. SYSTEM SHALL BE CAPABLE OF TRANSMITTING METER READINGS VIA INTERNET OR MODEM.
4. SYSTEM SHALL BE CAPABLE OF TRANSMITTING METER READINGS OF THE SYSTEM.
5. SYSTEM SHALL BE CAPABLE OF TRANSMITTING METER READINGS MULTIPLE TIMES PER DAY.
6. SYSTEM SHALL BE SUPPORTED BY A FULL WARRANTY DURING THE TERM OF THE ASSOCIATED READ, BILL, & COLLECT CONTRACT.
7. SYSTEM SHALL BE SUPPORTED BY WEB SERVICES THAT ALLOW OCCUPANTS AND PROPERTY MANAGEMENT TO VIEW METER READS, BILLING AND COLLECTION INFORMATION ON A REAL-TIME BASIS. THESE WEB SERVICES SHALL BE AVAILABLE 24 HOURS PER DAY, 7 DAYS PER WEEK, AND 365 DAYS PER YEAR.
8. WATER METERS MUST MEET OR EXCEED AWWA C-708 (AMERICAN WATER WORKS ASSOCIATION).
9. WATER METERS MUST MEET OR EXCEED THE LOW LEAD REQUIREMENTS OF NSF-61 (NATIONAL SANITATION FOUNDATION) AND CALIFORNIA PROPOSITION 65.
10. WATER METER MUST HAVE A TEMPERED GLASS LENS.
11. WATER METER MEASURING CHAMBER AND MEASURING ELEMENT MUST BE EASILY REMOVABLE FROM THE MAIN CASE WITHOUT REMOVAL OF THE METER FROM THE LINE.
12. INDIVIDUAL WATER METERS SHALL HAVE BATTERY OPERATED TRANSMITTERS WITH A MINIMUM 5 YEAR AVERAGE BATTERY LIFE. BATTERY SHALL BE REPLACEABLE WITHOUT REMOVING WATER METER FROM SERVICE OR REPLACING TRANSMITTER UNIT.
13. WATER METER LINKAGE BETWEEN MEASURING ELEMENT AND DISPLAY REGISTER MUST BE MAGNETIC, WITH NO GEARING EXPOSED TO WATER.
14. WATER METER MUST HAVE TAMPER DETECTION AND TAMPER PREVENTION FEATURES.
15. SYSTEM ELECTRONICS, WATER METERS, SHUTOFF VALVES AND RELATED COMPONENTS MUST BE RATED FOR EXTERIOR USE WHEN INTENDED FOR EXTERIOR INSTALLATION.
16. CONTRACTOR MUST COORDINATE LOCATIONS OF ALL REPEATERS OR OTHER COMPONENTS REQUIREING POWER WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLING ANY COMPONENTS.
17. IF REQUIRED BY LOCAL JURISDICTION, EQUIPMENT WITHIN APARTMENT MECHANICAL CLOSETS MUST BE WRAPPED IN 25/50 FLAME/SMOKE DEVELOPED RATED MATERIAL PER ASTM E-84.

Seal
CRAIG MARVIN GRADICK, REGISTERED ENGINEER, AGRICULTURE, COMMERCE, No. 109151, STATE OF TENNESSEE
3-19-21

2PA
POOLE & POOLE ARCHITECTURE
3736 Winterfield Road, Suite 102
Midlothian, Virginia 23113
Telephone 804.225.0215
www.2pa.net

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PHILLIPS GRADICK ENGINEERING, P.C. PGE # NC219019
2320 W. Morehead Street
Suite 200
Charlotte, NC 28208
(704) 900-5838 (T)
(704) 842-3807 (F)

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