PLUMBING FIXTURE SCHEDULE

1. PROVIDE ALL HARDWARE AND APPURTENANCES FOR COMPLETE PLUMBING FIXTURE/EQUIPMENT INSTALLATION PER MANUFACTURER'S REQUIREMENTS.

2. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL EQUIPMENT SHOWN IN THE PLUMBING SCHEDULES, PLUMBING PLANS, AND DETAILS.

4. ALL VALVES, HAMMER ARRESTORS, TPV SHALL BE ACCESSIBLE, COORDINATE ACCESS DOOR WITH ARCHITECTS.

5. PROVIDE WILKINS MODEL 40XL IN LINE CHECK VALVE ON CW AND HW SUPPLY LINES FOR MB-1 MOP BASIN. 6. COORDINATE PLUMBING FIXTURE LOCATIONS WITH ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADA FIXTURES HEIGHT AND CLEARANCES.

EE-1/MV-1 EWC-1 EO-1	SWING-AWAY EYEWASH/MIXING VALVE BOTTLE FILLER STATION WITH BI-LEVEL COOLER	MOEN BRADLEY	#S19-270B WITH S19-2000EFX8-R-SE MIXING VALVE WITH TAMPERPROOF CABINET FOR MIXING VALVE	TRADITIONAL BEVERAGE FAUCET, ADA, METAL CONSTRUCTION, LEVER STYLE HANDLE, DECK MOUNT, DESIGNED TO INSTALL THROUGH 1 HOLE, FLOW SHALL BE LIMITED TO 1.5 GPM, NSF 61/9 CERTIFIED. INSTALL AT THE LEFT SIDE OF SINK FAU QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY AND LOOSE KEY STOP WITH CHROME PLATED SOFT, COPPER RISER. PROVIDE RESTRICTIVE DEVICE AND ESCUCHEON PLATE. PROVIDED 5 YEAR WARRANTY AGAINST LEAKS, DRIPS, AND FINISH. EMERGENCY, SWING-AWAY, DECK MOUNTED ADJACENT TO SINK TWIN CHROME PLATED SPRAY HEADS WITH CAPS AND RETAINING CHAIN/STRAPS MOUNTED ON BRASS SUPPLY ARMS, MINIMUM FLOW RATE OF 0.4 GPM AT 30 PSI (15 MIN.), INTECTION OF THE PROPERTY OF THE					
/C-1 O -1	EYEWASH/MIXING VALVE BOTTLE FILLER STATION	BRADLEY	#S19-270B WITH S19-2000EFX8-R-SE MIXING VALVE WITH TAMPERPROOF CABINET FOR MIXING VALVE	PROVIDED 5 YEAR WARRANTY AGAINST LEAKS, DRIPS, AND FINISH. EMERGENCY, SWING-AWAY, DECK MOUNTED ADJACENT TO SINK TWIN CHROME PLATED SPRAY HEADS WITH CAPS AND RETAINING CHAIN/STRAPS MOUNTED ON BRASS SUPPLY ARMS, MINIMUM FLOW RATE OF 0.4 GPM AT 30 PSI (15 MIN.), INTE					
VC-1 SO 0-1	EYEWASH/MIXING VALVE BOTTLE FILLER STATION	BRADLEY	#S19-270B WITH S19-2000EFX8-R-SE MIXING VALVE WITH TAMPERPROOF CABINET FOR MIXING VALVE	EMERGENCY, SWING-AWAY, DECK MOUNTED ADJACENT TO SINK TWIN CHROME PLATED SPRAY HEADS WITH CAPS AND RETAINING CHAIN/STRAPS MOUNTED ON BRASS SUPPLY ARMS, MINIMUM FLOW RATE OF 0.4 GPM AT 30 PSI (15 MIN.), INTE					
WC-1 CO D-1	EYEWASH/MIXING VALVE BOTTLE FILLER STATION	BRADLEY	#S19-270B WITH S19-2000EFX8-R-SE MIXING VALVE WITH TAMPERPROOF CABINET FOR MIXING VALVE	EMERGENCY, SWING-AWAY, DECK MOUNTED ADJACENT TO SINK TWIN CHROME PLATED SPRAY HEADS WITH CAPS AND RETAINING CHAIN/STRAPS MOUNTED ON BRASS SUPPLY ARMS, MINIMUM FLOW RATE OF 0.4 GPM AT 30 PSI (15 MIN.), INTE					
CO D-1	EYEWASH/MIXING VALVE BOTTLE FILLER STATION		WITH TAMPERPROOF CABINET FOR MIXING VALVE						
CO D-1				FLOW CONTROL FITTING, CHROME-PLATED BRASS STAY-OPEN BALL VALVE HAND OPERATED BY LARGE HIGHLY VISIBLE STAINLESS STEEL PUSH HANDLE. BRADLEY NAVIGATOR #S19-2000EFX8-R-SE EMERGENCY THERMOSTATIC MIXING VALVE, ROUGH BRASS WITH SURFACE MOUNT WHITE ENAMEL CABINET. INSTALL EYEWASH TO THE RIGHT SIDE OF THE SINK, THE HOLE THROUGH COUNTERTOP FOR THE EYEWASH SHALL BE 2-1/4" FROM THE RIGHT EDGE OF SINK CUTOUT AND 8-1/2" BACK FROM THE FRONT OF THE SINK CUTOUT.					
D-1	WITH BI-LEVEL COOLER	ELKAY		ADA, ELECTRIC WATER COOLER WITH CANE APRON (MODEL LKAPREZL) INSTALLED UNDER UPPER UNIT, REFRIGERATED, FILTERED, WALL HUNG, BI-LEVEL, LIGHT GRAY GRANITE FINISH, NON-SPLASH BASIN, STREAM PROJECTORS WITH					
D-1				PROTECTIVE HOODS, EASY-TOUCH FRONT AND SIDE PUSHBAR CONTROLS, WATERSENTRY PLUS FILTRATION SYSTEM, AUTOMATIC FILTER STATUS RESET WITH EACH FILTER CHANGE, 115/60/1, 5 FULL LOAD AMPS, 8 GPH CAPACITY BASED ON 8 deg. F INLET WATER, 90 deg. F AMBIENT AIR TEMP FOR 50 deg. F CHILLED DRINKING WATER. PVC "P" TRAP, FLOOR MOUNTED CARRIER.					
-D-1			CANE APRON: LKAPREZL	BOTTLE FILLER STATION, QUICK FILL RATE 1.1 GPM, UNIT MOUNTED, SS CONTRUCTION, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUT-OFF, REPLACEABLE WATER FILTER BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR.					
-D-1									
-D-1	FLOOR CLEANOUT	ZURN		ORIFICE SHALL BE OF 36" (MAXIMUM) AFF ON LOWER UNIT, 40" AFF ON UPPER UNIT, BOTTOM OF APRON SHALL BE 27" AFF. REFER TO ARCH. DRAWINGS FOR ADA INSTALLATION DETAILS. ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, GAS AND WATER-TIGHT BRONZE PLUG. ROUND SCORIATED SECURED NICKEL-BRONZE TOP, ANCHOR FLANGE WITH CLAMP COLLAR, SOLID GASKETED COVER, NO-HUB OUTLET					
		ZURN		CAST IRON BODY, TYPE-S (5"x5") NICKEL BRONZE ADJUSTABLE SQUARE TOP, 3" BOTTOM OUTLET, FLUSHING COLLAR, ADJUSTABLE "P" TRAP, TRAP PRIMER CONNECTION FITTING, SEDIMENT BUCKET.					
FD-3		ZURN		CAST IRON, SEDIMENT BUCKET, MEMBRANE CLAMP, ADJUSTABLE COLLAR, TYPE I POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE, BOTTOM OUTLET. ADJUSTABLE "P" TRAP, TRAP PRIMER CONNECTION FITTING, SEDIMENT BUCKET					
GCO HB-1		ZURN		GRADE CLEANOUT, HEAVY DUTY HOUSING, POLISHED NICKEL BRONZE TOP, AND ZURN #Z1440 INTERNAL CLEANOUT AND BRONZE PLUG, TWO-WAY					
HB-T	WALL HYDRANT	WOODFORD		FREEZELESS, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREADED CONNECTION, BRASS VALVE BODY AND SEAT, NON-FERROUS METAL STEM, STANDARD FINISH, WALL CLAMP, FURNISH TWO KEY OPERATORS. ASSE 1019 APPROVED AND LISTED. MOUNT AT 18" AFG UNLESS NOTED OTHERWISE ON DRAWING. PROVIDE MINIMUM 2 KEYS.					
_AV-2/MV-3	LAVATORY	AMERICAN STANDARD		ACCESSIBLE, ADA, WHITE, VITREOUS CHINA, 4" HIGH CONTOURED BACKSPLASH, 20"x18" SIZE, SINGLE FAUCET HOLE, QUARTER-TURN 3/8" CHROME PLATED RISERS, 1-1/4" 17 GAUGE CAST BRASS "P" TRAP WITH CLEAN-OUT. PROVIDE 29" MINIMU CLEARANCE FROM FLOOR TO BOTTOM OF APRON. TOP OF BASIN TO BE MAXIMUM OF 34" A.F.F. IN COMPLIANCE WITH ADA. PROVIDE PERFORATED DRAIN GRATE, OFFSET DRAIN, TAILPIECE AND SUPPLIES WITH STOPS.					
			FAUCET: SLOAN OPTIMA PLUS #EBF-615-4-BDT						
			AERATOR: SLOAN #EAF-63 (CODE 0335036),	TRUEBRO HANDI LAV-GUARD PRE-MANUFACTURED P-TRAP, STOP VALVE AND SUPPLY LINE INSULATION KIT OR APPROVED EQUIVALENT BY BROCAR, MCGUIRE, PROFLO, PLUMBEREX.					
				FAUCET- SENSOR ACTIVATED, BATTERY POWERED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL-RESISTANT AERATOR, SINGLE HOLE INSTALLATION, FILTERED SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER, TRIM PLATE KIT.					
				MV-3-LEONARD ECO-MIX MODEL 270-LF-CP MIXING VALVE (ASSE 1070) CHROME PLATED FINISH OR APPROVED EQUIVALENT BY BRADLEY, LAWLER, POWER.					
				MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY.					
ИВ-1	MOP BASIN	MUSTEE	MOP SINK: #63M	MOP SINK: 24" X 24" X 10" DEEP, FLOOR MOUNTED, MOLDED-STONE 'SMC' ONE PIECE HOMOGENEOUS PRODUCT, AND INTEGRAL DRAIN WITH S.S. DOME STRAINER AND 3" OUTLET.					
				FAUCET: TWO HANDLE EXPOSED MIXING FAUCET, SINGLE WING HANDLES, POLISHED CHROME PLATED, 3/4" HOSE, THREADED SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, INTEGRAL STOPS. PROVIDE FIAT #889-CC HAI #832-AA HOSE SHALL NOT BE LONGER THAN RIM OF MOP SINK.					
SK-1/MV-3	SINK	ELKAY	SINK: ELKAY "LUSTERTONE" #DLR202210	SINK-SINGLE COMPARTMENT, TOP MOUNT, FAUCET DECK, SINGLE HOLE, 18 GAUGE, 304 STAINLESS STEEL, 16x16x10"(D) BOWL SIZE, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET, REMOVABLE STAINLESS STEEL BASKET STRA AND NEOPRENE STOPPER, CHROME PLATED CAST BRASS "P" TRAP WITH CLEANOUT, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE. QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH					
				CHROME PLATED SOFT COPPER RISERS.					
			1.5 GPM, FIELD INSTALLED	FAUCET: SENSOR OPERATED, BATTERY POWERED, CHROME PLATED, BRASS CONSTRUCTION. PROVIDE FIELD INSTALLED AERATOR INSERT, ADJUSTABLE SENSOR EYE AND UNDERCOUNTER SOLID BRASS MV-3 MIXING VALVE (ASSE 1070), (MIX VALVE SHALL NOT BE WYE PATTERN STYLE), ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES. SET TEMPERATURE AT 110°F, WATERPROOF CONNECTORS AND CABLE. MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW SINK, MAXIMUM FLOW TO BE 1.5 GPM.					
				MV-3: LEONARD ECO-MIX MODEL 270-LF-CP MIXING VALVE (ASSE 1070) OR APPROVED EQUIVALENT BY BRADLEY, LAWLER, POWER.					
				PROVIDE RESTRICTIVE DEVICE.					
SK-2/GD-1	SINK/GARBAGE DISPOSER	ELKAY		SINK: ACCESSIBLE, ADA, SINGLE BOWL, TOP MOUNT, 18 GAUGE, 304 STAINLESS STEEL, 25"x21-1/4"x6"(D) SIZE, 3-1/2" dia. REAR CENTER DRAIN, REMOVABLE STAINLESS STEEL BASKET STRAINER AND NEOPRENE STOPPER, 1-1/2" 17 GAUGE CHRO PLATED BRASS TAILPIECE, CHROME PLATED CAST BRASS "P" TRAP WITH CLEANOUT QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS, 4 HOLES, 8" CENTER FOR FAUCET					
				FAUCET: ADA, SINGLE HANDLE WITH SIDE SPRAY, CHROME PLATED ALL BRASS CONSTRACTION, CONVENTIONAL SWING SPOUT WITH 9" REACH AND AERATOR FLOW OUTLET, LEVER WITH SUPPLIES AT 8" CENTERS, SPRAY HOSE WITH LEVER CONTROL. MAXIMUM FLOW TO BE 1.8 GPM.					
				PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON.					
SK-3/MV-3	SINK	ELKAY		SINK: ACCESSIBLE, ADA SINGLE COMPARTMENT, TOP MOUNT, FAUCET DECK, SINGLE HOLE, 18 GAUGE, 304 STAINLESS STEEL, 16"x16"x6"(D) BOWL SIZE, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET, REMOVABLE STAINLESS S' BASKET STRAINER AND NEOPRENE STOPPER, CHROME PLATED CAST BRASS "P" TRAP WITH CLEANOUT, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE. QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE STOPS WITH CHROME PLATED SOFT COPPER RISERS.					
			1.5 GPM, FIELD INSTALLED	FAUCET: ADA, SENSOR OPERATED, BATTERY POWERED, CHROME PLATED, BRASS CONSTRUCTION. PROVIDE FIELD INSTALLED AERATOR INSERT, ADJUSTABLE SENSOR EYE AND UNDERCOUNTER SOLID BRASS MV-3 MIXING VALVE (ASSE 1070 (MIXING VALVE SHALL NOT BE WYE PATTERN STYLE), ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES. SET TEMPERATURE AT 110°F, WATER PROOF CONNECTORS AND CABLE. MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW SINK, MAXIMUM FLOW TO BE 1.5 GPM.					
				MV-3: LEONARD ECO-MIX MODEL 270-LF-CP MIXING VALVE (ASSE 1070), CHROME PLATED FINISH OR APPROVED EQUIVALENT BY BRADLEY, LAWLER, POWER.					
				PROVIDE RESTRICTIVE DEVICE.					
ΓPV	TRAP PRIMER VALVE	PRECISION PLUMBING PRODUCTS	PR-500	PPP INC., PRIME-RITE #PR-500 TRAP PRIMER VALVE WITH DISTRIBUTION BOX					
ID 4		GUY GRAY		GALVANIZED STEEL ENCLOSURE, LEAD FREE DOMESTIC ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, PROVIDE WATER HAMMER ARRESTOR, WALL-MOUNTED AT 4'-0" AFF. PAINT BOX TO MATCH WALL COLOR.					
	URINAL	AMERICAN STANDARD		ACCESSIBLE URINAL, WALL HUNG, WHITE, VITREOUS CHINA, ULTRA HIGH EFFICIENCY, ELONGATED 14" RIM FROM FINISHED WALL, EXTENDED SIDES, WASHOUT FLUSH ACTION, 2" OUTLET, 3/4" INLET SPUD FOR FLUSH VALVE, EXPOSED, SENSOF OPERATED, BATTERY POWERED, CHROME PLATE, WALL AND SPUD FLANGES, 1 GPF, OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, 3 YEAR WARRANTY. FLOOR MOUNTED CARRIER WITH SUPPORTING PLATE.					
UB-1 UR-1	1	AMERICAN STANDARD		ACCESSIBLE WATER CLOSET: ADA, FLOOR MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1 1/2" TOP SPUD, BOLT CAPS, TOP OF SEAT AT 17" TO 19" ABOVE FINISHED FLOOR.					
JR-1	WATER CLOSET			OF AT MULTE EVERA LIFAVAY OPEN EDONE INJECTION MOLDED, COLID ANTI MICROPIAL DI ACTIC CEAT MELLOTARNI FOR OTFEL OD DI ATED OTFEL DOCTO AND NUTO					
	WATER CLOSET		SEAT: BEMIS #3155SSCT	SEAT: WHITE EXTRA HEAVY OPEN FRONT, INJECTION MOLDED, SOLID ANTI-MICROBIAL PLASTIC SEAT, WTH STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.					
UR-1	WATER CLOSET		FLUSH VALVE: SLOAN #8111-1.6/1.1	FLUSH VALVE: EXPOSED, SENSOR OPERATED, BATTERY POWERED, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES, DUAL FLUSH, OVER-RIDE BUT					
R-1		71 IDN	FLUSH VALVE: SLOAN #8111-1.6/1.1	FLUSH VALVE: EXPOSED, SENSOR OPERATED, BATTERY POWERED, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES, DUAL FLUSH, OVER-RIDE BU RANGE ADJUSTMENT SCREW, LOW BATTERY INDICATOR LIGHT, 3 YEAR WARRANTY.					
JR-1	WALL CLEANOUT	ZURN MOEN	FLUSH VALVE: SLOAN #8111-1.6/1.1 #Z-1441-BP	FLUSH VALVE: EXPOSED, SENSOR OPERATED, BATTERY POWERED, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES, DUAL FLUSH, OVER-RIDE BU'RANGE ADJUSTMENT SCREW, LOW BATTERY INDICATOR LIGHT, 3 YEAR WARRANTY. CAST IRON BODY, GAS AND WATER TIGHT, THREADED BRONZE PLUG, EXTENDED MACHINE SCREWS. PROVIDE ROUND VINYL PAINTABLE ACCESS COVER AT PAINTED WALLS, PROVIDE STAINLESS STEEL COVER AT CERAMIC TILE WALLS.					
VC-2	WALL CLEANOUT		FLUSH VALVE: SLOAN #8111-1.6/1.1 #Z-1441-BP "SIP" #S5510 FAUCET WITH #9600 CHOICEFLO	FLUSH VALVE: EXPOSED, SENSOR OPERATED, BATTERY POWERED, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES, DUAL FLUSH, OVER-RIDE BURANGE ADJUSTMENT SCREW, LOW BATTERY INDICATOR LIGHT, 3 YEAR WARRANTY.					

PROVIDE "SAVE WATER" SIGNAGE AT EACH WATER CLOSET WITH DUAL FLUSH VALVE (WC-2)

PROVIDE 5 YEAR LIMITED WARRANTY AGAINST LEAKS, DRIPS, AND FINISH DEFECTS, FILTER SHALL HAVE 30 DAY LIMITED WARRANTY ON MANUFACTURER'S DEFECTS.

ACCEPTABLE EQUIVALENTS: PLUMBING FIXTURES (VITREOUS CHINA) - KOHLER; SLOAN; TOTO. LAV-2 - KOHLER #K-2007/2005. SK-1, SK-2 & SK-3 - AMERICAN STANDARD, JUST, KOHLER. MB-1 - FIAT, WILLIAMS, SWAN, ZURN EE-1 & MV-1 - GUARDIAN; SPEARMAN. UB-1 - OATEY. FD-1, FD-3, FCO, AND WCO - J.R. SMITH; WADE; JOSAM; WATTS. WH-1 - BRADFORD WHITE; BOCK; RHEEM; STATE. CP-1 - TACO; GRUNDFOS. ET-1 - TACO; WESSELS; ELBI; HIRISER. MV-2, MV-3 - APOLLO; BRADLEY; LAWLER; POWER; SYMMONS.

DOMESTIC WATER HEATER, EXPANSION TANK, & RECIRCULATION PUMP SCHEDULE

		33.123322
MARK	DESCRIPTION	COMMENTS
CP-1	RECIRCULATION PUMP	B&G MODEL PL-55B, 3/4" FLANGED CONNECTIONS, 115/60/1, 4.7 AMPS, 2/5 HP, 3250 RPM, BRONZE CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARING, MECHANICAL SEAL, DRIP PROOF NON-OVERLOADING MOTOR WITH THERMAL OVERLOAD PROTECTION, UL LISTED, RATED FOR 125 PSIG AT 225°F, 3.0 GPM @ 45 FEET OF HEAD.
		AQUASTAT: LINE VOLTAGE, ADJUSTABLE 90-180°F WITH STRAP-ON SENSOR BULB, UL LISTED, TRANSFORMER, INSTALLATION PERMANUFACTURER'S REQUIREMENTS.
ET-1	EXPANSION TANK	AMTROL THERM-X-TROL MODEL ST-12C (ASME) DEEP DRAWN STEEL SHELL, HEAVY DUTY BUTYL DIAPHRAGM, ANTI-MICROBIAL POLYPROPYLENE WITH ANTI-LEGIONELLA PROTECTION, STAINLESS STEEL CONNECTIONS, MAX. OPERATING TEMPERATURE 200° MAX. WORKING PRESSURE 150 PSI, 1 YEAR WARRANTY, 6.4 GALLON VOLUME TANK, 0.5 MAX. ACCEPTANCE FACTOR, 3/4" DRAIN CONNECTION
WH-1	ELECTRIC WATER HEATER	A.O. SMITH #DRE-80A-18, COMMERCIAL, ASME, 80 GALLON TANK CAPACITY, 18 KW INPUT, 480/60/3, 21.7 AMP FULL LOAD CURRENT, LISTED BY UL AND APPROVED TO NSF STANDARD, EXTRUDED HIGH DENSITY ANODE, GLASSLINED, FRONT PANEL CONTROLS, HIGH TEMPERATURE CUT-OFF SWITCH, BAKED ENAMEL FINISH OUTLET JACKET, FOAM INSULATION, JUCTION BOX, DRAIN VALVE, ASME RATED T&P RELIEF VALVE, 3-YEAR LIMITED WARRANTY, 74 GPH @, 100°F TEMPERATURE RISE, 140°F DISCHARGE

MASTER MIXING VALVE

MARK	MANUFACTURER	COMMENTS
MV-2	LEONARD ECO-MIX #TM-26-LF-E-RF-BDT	THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, BRONZE CONSTRUCTION, ROUGH BRASS FINISH, UNION INLETS
		WITH STRAINERS AND CHECK STOPS, DIAL THERMOMETER ON OUTLET, ADJ. HIGH TEMPERATURE LIMIT STOP SET FOR 120 deg.F.
		VALVE RATED FOR 13 GPM @ 15 PSI SYSTEM PRESSURE DROP AND 1 GPM MINIMUM FLOW, PROVIDE HOT WATER RETURN
		CONNECTION. PROVIDE SURFACE MOUNTED 18 GA PAINTED STEEL CABINET WITH 16 GA PAINTED STEEL LOCKING DOOR TO
		ENCLOSE VALVE.

		FL	OIVIDII	NG CA	ALCO	LATIC	NINO			
		(BAS	SED ON 20	18 INTERNA	TIONAL P	LUMBING C	ODE)			
FIXTURE MARK	FIXTURE	COUNT	CW	TOTAL CW	HW	TOTAL HW	CW+HW	TOTAL CW+HW	DFU	ТОТА
BF-1	BOTTLE FILLER	3	0	0	0	0	0	0		
DISHWASHER	DISHWASHING MACHINE	1	0	0	1.4	1.4	1.4	1.4	2	
EE-1/MV-1	SWING-AWAY EYEWASH/MIXING VALVE	4	0	0	0	0	0	0		
EWC-1	BOTTLE FILLER STATION WITH BI-LEVEL COOLER	1	0.5	0.5	0	0	0.5	0.5	1	
FD-1	FLOOR DRAIN	4		0		0	0	0	0	~
FD-3	FLOOR DRAIN		0	0	0	0	0	0	6	(
HB-1	WALL HYDRANT	<u> </u>	3	6		0	3	6		
LAV-2/MV-3	LAVATORY	4	1.5	6	1.5	6	2	8	1	
MB-1	MOP BASIN	1	2.25	2.25	2.25	2.25	3	3	5	
SK-1/MV-3	SINK	2	1.5	3	1.5	3	2	4	2	
SK-2/GD-1	SINK/GARBAGE DISPOSER	1	1.5	1.5	1.5	1.5	2	2	2	
SK-3/MV-3	SINK	3	1.5	4.5	1.5	4.5	1	3	2	
UB-1	ICE MAKER OUTLET BOX	2		0		0	0	0		
UR-1	URINAL	4	5	20	0	0	5	20	2	
WC-2	WATER CLOSET	4	10	40	0	0	10	40	4	
WF-1	WATER FILLER WITH FILTRATION SYSTEM	1		0		0		0		<i>بر</i>
	SPACE TOTAL, FU			83.75		18.65		87.9		ζ:
	DEMAND FLOW RATE, GPM			62		19		64		
	EMERGENCY EYEWASH, GPM			0.8		0.8		0.8		
	PEAK DEMAND FLOW RATE, GPM			62.8		19.8		64.8		

FIXTURE ELEVATION	3 FEET
(3 FT) x 0.43 = 1.29 = 2.0 PSI STATIC LOSS	
HORIZ. PIPE LENGTH TAP TO BLDG METER	N/A
HORIZ. PIPE LENGTH METER TO SPACE (BIOLIFE)	13 FEET
HORIZ. PIPE LENGTH BLDG TO LAST FIXTURE	281 FEET
VERT. PIPE LENGTH BLDG. RISE TO FIXTURE	3 FEET
TOTAL PIPE LENGTH	297 FEET
(007 57) 4 05 (5177) 0 1 000) 674 5557 7571 8575 0050 151007	

(297 FT) x 1.25 (FITTING LOSS) = 371 = FEET TOTAL DEVELOPED LENGTH

SIZE	DEVICE	PSI LOSS				
2"	BACKFLOW PREVENTER	10.0				
1-1/2"	METER	3.0				
	STATIC	2.0				
	FIXTURE (WATER CLOSET)	35.00				
TOTAL BUILDING LOSS 50 PSI						
PRESSURE AT BLDG			65 PSI			
PRESSURE REGULATOR SETTING						
BUILDING LOSS			50 PSI			

1 3 5 10 25

(15 PSI/371 FT) x 100 FT = 4 PSI MAX. PSI DROP ALLOWABLE PER 100 FT. PIPE LENGTH

WSFU

BRANCH WATER PIPE SIZING CHART - 5 PSI LOSS 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" GPM 2.5 6.5 14 24

DIFFERENCE ______ 15 PSI

FLOW TEST THE CONTRACTOR SHALL PROVIDE CURRENT FLOW TEST. 65 PSI STATIC PRESSURE IS USED FOR CALCULATIONS.

DRAWING INDEX - PLUMBING

P110 UNDERFLOOR PLAN - PLUMBING P111 FIRST FLOOR PLAN - PLUMBING P121 ENLARGED PLANS - PLUMBING SANITARY - VENT RISER DIAGRAM

P203 DOMESTIC WATER RISER DIAGRAM P301 PLUMBING DETAILS PLUMBING MATERIAL LIST

The issuance of a permit based on these plans shall not rection of errors in plans, construction, or violations of the code. is copy of the plans must be kept at the site of work and shall be open to inspection by the Building Official or his authorized representative Approved by Tommy Hahn 04/12/2023 7:43:16 AM

Design and construction documents as instruments of service are given in confidence and remain the property of Onyx Creative. The use of this design and these construction documents for purposed other than the specific project named herein is strictly prohibited without expressed written

consent of Onyx Creative.

These Plans Have Been
Reviewed For Code Compliance

ROANOKE

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These Plans Have Been

This Plan Review does not relieve the contractor of his responsibility to comply with all applicable codes.

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Drawn By: Issue 2022-11-18 FOR PERMIT

2023-04-03 5 ITC 4

P501

PLUMBING MATERIAL