

PLUMBING FIXTURES										
MARK	DESCRIPTION	MFR & MDL	ACCESSORIES	FAUCET & FITTINGS	STOPS	TRAP	WASTE			REMARKS
							ROUGH-IN	HOT	COLD	
P-1a	WATER CLOSET, FLUSH VALVE, A.D.A. WALL MOUNT, TRAP PRIMER	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111-TP FLUSH VALVE w/ TRAP PRIMER	INTEGRAL	INTEGRAL	4"	-	1"	EXTEND TRAP PRIMER LINE TO FLOOR DRAIN AS INDICATED ON PLANS
P-1b	WATER CLOSET, FLUSH VALVE, STANDARD, WALL MOUNT	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	-	1"	PROVIDE CHAIR CARRIER
P-1c	WATER CLOSET, FLUSH VALVE, A.D.A. WALL MOUNT	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	-	1"	PROVIDE CHAIR CARRIER, INSTALL FLUSH VALVE HANDLE TO OPEN SIDE OF STALLROOM
P-1d	WATER CLOSET, FLUSH VALVE, STANDARD, WALL MOUNT, TRAP PRIMER	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111-TP FLUSH VALVE w/ TRAP PRIMER	INTEGRAL	INTEGRAL	4"	-	1"	EXTEND TRAP PRIMER LINE TO FLOOR DRAIN AS INDICATED ON PLANS
P-1e	WATER CLOSET, FLUSH TANK, A.D.A. FLOOR MOUNT	TOTO #CST744SL	TOTO #SS114 SEAT	-	McGUIRE #H166	INTEGRAL	4"	-	1/2"	
P-2a	URINAL, FLUSH VALVE, STANDARD, WALL MOUNT	KOHLER #K-4989 "FRESHMAN"	-	SLOAN "REGAL" #166 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	-	3/4"	PROVIDE CHAIR CARRIER
P-2b	URINAL, FLUSH VALVE, A.D.A. WALL MOUNT	KOHLER #K-4989 "FRESHMAN"	-	SLOAN "REGAL" #166 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	-	3/4"	PROVIDE CHAIR CARRIER
P-3a	LAVATORY, PUBLIC, COUNTERTOP, A.D.A. GRID DRAIN, TRAP PRIMER	KOHLER #K 2196-4 "PENNINGTON"	McGUIRE #155A GRID DRAIN PPPULP TRAP PRIMER	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	
P-3b	LAVATORY, WALL HUNG, A.D.A. A.D.A. GRID DRAIN	KOHLER #K 1729 "CHESAPEAKE"	McGUIRE #155A GRID DRAIN	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES, PROVIDE CONCEALED ARM CARRIER
P-3c	LAVATORY, PUBLIC, COUNTERTOP, A.D.A. GRID DRAIN	KOHLER #K 2196-4 "PENNINGTON"	McGUIRE #155A GRID DRAIN	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-3d	LAVATORY, RESIDENCE, COUNTERTOP, A.D.A. POP-UP DRAIN	KOHLER #K 2196-8 "PENNINGTON"	PPPULP TRAP PRIMER	KOHLER #K 7437-K/K 16012-4 WITH POP UP DRAIN	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-3e	LAVATORY, WALL HUNG, STAINLESS STEEL, A.D.A. GRID DRAIN	JUST #A33338	JUST #J 115-S GRID DRAIN	CHICAGO #1895-GNZA	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-4a	JANITOR SINK, FLOOR MOUNT, TERRAZZO	STERN-WILLIAMS #SB-802	-	CHICAGO #956-R	INTEGRAL	McGUIRE #8872	3"	1/2"	1/2"	
P-5a	S S SINK, 1-COMP, 16"x28" BOWL	JUST #SLXD 2231-A-GR	JUST #J-35 BASKET STRAINER	JUST #JWF 100	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	
P-5b	ENAMELED CAST IRON SINK, 1-COMP, DISPOSER	KOHLER #K-6964-4	McGUIRE #151A BASKET STRAINER	KOHLER #K 6356-CP w/HANDSPRAY	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	PROVIDE (4) FAUCET AND (4) AIR GAP BUNCHINGS; AIR GAP, INSULATOR "BADGER 5" DISPOSER
P-5c	S S SINK, 1-COMP, 16"x22" BOWL, A.D.A.	JUST #SLX ADA 2125-A-GR, 5" DEEP BIGHT REAR DRAIN	McGUIRE #152 GRID STRAINER	JUST #JWF 100	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-5d	S S SINK, 1-COMP, 16"x22" BOWL	JUST #SL 2125-A-GR	McGUIRE #152 GRID STRAINER	-	-	-	-	-	-	PROVIDE NO BUNCHINGS- PROVIDE FULL SIZE FLEXIBLE FLEXIBLE DRAIN LINE TO ROLL-AWAY BASIN SEE ARCH
P-5e	S S SINK, 1-COMP, 16"x22" BOWL	JUST #SLXD 2125-A GR	McGUIRE #152 GRID STRAINER	JUST #JWF 100	McGUIRE #H-2165	McGUIRE #8912	1/2"	1/2"	1/2"	
P-6a	RESIDENCE TUB/SHOWER CAST IRON TUB, SHOWER VALVE	KOHLER #K-519K-516 VERTY LEFT RIGHT HAND	McGUIRE #1221 TL WASTE, TRIP LEVER, FLAT STRAINER	POWERS #E426-A-M-2-R-9-Y-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-6b	SHOWER - BUILT IN	STERN WILLIAMS #WS-3200 36"x36"	-	POWERS #E426-A-X-X-X-3-X-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-6d	SHOWER - A.D.A. - BUILT IN	STERN-WILLIAMS #WS-3200, 36"x36"	-	POWERS #E426-A-X-X-X-3-X-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-7a	FLOOR DRAIN - STANDARD	WADE #W 1102-SD5	-	-	-	CAST IRON	2"	-	-	
P-7b	HUB DRAIN FOUNTAIN EQUIPMENT	-	-	-	-	CAST IRON	4"	-	-	INSTALL IN BOTTOM OF SUMP - SEE STRUCTURAL DWGS
P-7c	FLOOR DRAIN - 3/4 NICKEL BRONZE GRATE	WADE #W 9114-15 LESS DOME	-	-	-	CAST IRON	4"	-	-	
P-7d	FLOOR DRAIN MECHANICAL ROOM	WADE #W 1240	-	-	-	CAST IRON	4"	-	-	PROVIDE DEEP SEAL TRAP AND TRAP PRIMER
P-7e	FLOOR DRAIN - 3/4 GRATE S S	WADE #W 9102-3-16	-	-	-	CAST IRON	2"	-	-	
P-7f	FLOOR DRAIN FULL GRATE S S	WADE #W 9102	-	-	-	CAST IRON	2"	-	-	
P-7g	FLOOR DRAIN - 1/2 GRATE, S S	WADE #W 9102-9-15	-	-	-	CAST IRON	2"	-	-	
P-7h	FLOOR DRAIN - EXTENDED RIM	WADE #W 1102-ERS	-	-	-	CAST IRON	2"	-	-	INSTALL INSTALL DRAIN WITH TOP OF RIM FLUSH WITH FLOOR TRAP PRIMER CONNECTION
P-7i	AREA DRAIN	WADE #W-2364	-	-	-	CAST IRON	4"	-	-	
P-7k	FLOOR SINK	WADE #W 9142 (NO GRATE)	-	-	-	CAST IRON	2"	-	-	TRAP PRIMER CONNECTION
P-8a	HOSE FAUCET, NON-FREEZE AREA	WOODFORD #21P-3/4	-	-	-	-	-	-	3/4"	
P-8b	FREEZELESS YARD FAUCET	WOODFORD #195	-	-	-	-	-	-	3/4"	
P-8c	HOSE FAUCET, FREEZELESS	WOODFORD #865	-	-	-	-	-	-	3/4"	
P-9a	TRAP PRIMER w/ELECTRONIC DOSING MANIFOLD	PRECISION PLUMBING PRODUCTS #PT-12	-	-	-	VALVE	-	-	3/4"	MOUNT TOP OF UNIT AT 48" A.F.F
P-9b	ICE MAKER CONNECTION	GUY GRAY #91M 875	-	-	-	-	-	-	1/2"	MOUNT C.L. OF UNIT 12" A.F.F
P-9c	TRAP PRIMER	PRECISION PLUMBING PRODUCTS #P1-500 w/DISTRIB MANIFOLD	-	-	-	-	-	-	3/4"	
P-10a	DRINKING FOUNTAIN BI-LEVEL REMOTE CHILLED WATER UNIT	FILTRINE #107-16-HL SATIN STAINLESS STEEL	HAWS #HCR8 REMOTE CHILLER IN-LINE REPLACEABLE FILTER ON INLET	-	McGUIRE #157	McGUIRE #8872	-	-	1/2"	MOUNT CHILLER ABOVE CEILING. ROUTE 1/2" WATER TO CHILLER. ROUTE 1/2" CHILLED WATER FROM CHILLER TO FOUNTAIN
P-11a	EMERGENCY EYE WASH WALL MOUNTED HAND PADDLE ACTIVATED	HAWS #7100-BT	-	-	GATE VALVE	INTEGRAL w/UNIT	-	-	3/4"	
RDa	ROOF DRAIN	WADE #3000-52-53-AE	-	-	-	-	2'-6"	-	-	
RDb	PLANTER DRAIN	WADE #3320PA	-	-	-	-	2'-6"	-	-	
RDc	GREEN ROOF DRAIN	WADE #3000-53-DP	-	-	-	-	2'-6"	-	-	
RDd	AREA DRAIN AT PERIMETER RECESS	WADE #3000	-	-	-	-	2'-6"	-	-	
RDe	AREA DRAIN AT PERIMETER RECESS	WADE #3204	-	-	-	-	2'-4"	-	-	

GAS WATER HEATERS							
MARK	MFR. & MDL	BTU/H INPUT	RECOVERY		STORAGE CAP. GAL.	FLUE SIZE	REMARKS
			GPH	RISE			
GWH 1	A.O SMITH #BTP 300-600	600,000	727	80	300	8"	PROVIDE CORRECT A.S.M.E. T&P RELIEF VALVE, RECIRC PUMP, ALL CONTROLS. SEE NOTE 1 AND 3
GWH 2	A.O SMITH #BTP-140-540	500,000	524	100	140	8"	PROVIDE CORRECT A.S.M.E. T&P RELIEF VALVE, RECIRC PUMP, ALL CONTROLS. SEE NOTE 2

NOTES
1 SEE HWC-1 AND HWC-2 SPECIFICATION
2 SEE HWC-3 SPECIFICATION
3 PROVIDE HEATER GWH-1 WITH A #1-200, 200 GALLON STORAGE TANK. PROVIDE TANK TO HEATER RECIRC PUMP AS PER DETAIL, AND ALL RECD CONTROLS AS PER WATER HEATER MFR. RECOMMENDATIONS

Plumbing Equipment Schedule

HWC-1 HOT WATER RECIRCULATION PUMP (KITCHEN RETURN)
Grundfos UP26-64F single stage centrifugal pump. The pump shall be base mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 6 GPM when operating at a total developed head of 15 feet of water column. The motor shall be rated at 1/12 HP at 115v, single phase

HWC-2 HOT WATER RECIRCULATION PUMP (GWH-1/STOR TANK CIRCULATOR)
Grundfos UP26-64F, single stage centrifugal pump. The pump shall be base mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 2 GPM when operating at a total developed head of 4 feet of water column. The motor shall be rated at 1/12 HP at 115v, single phase

HWC-3 HOT WATER RECIRCULATION PUMP (DOMESTIC RETURN)
Equal to Grundfos #UPC 65-160
The pump shall be mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 25 GPM when operating at a total developed head of 50 feet of water column. The pump shall be constructed of bronze and rated at 145 ps working pressure. The motor shall be rated at 1 1/2 HP at 208v, three phase

RPZ 1 and RPZ 2 REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
Febco 860 4 - 2" Reduced pressure zone backflow preventer assemblies with gate valves and flanged bronze strainers. Mount valves inside mechanical room. Provide 4" inlet and outlet headers for RPZ assembly connections, 12" min to 30" max aff. See detail

RPZ-3 REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
Febco 860 1" Reduced pressure zone backflow preventer assembly with ball valves and bronze strainer. Provide air gap fitting and drain to floor drain

SP-1 SUMP PUMP (elevator pit)
Myers #SSM331, cast iron pump body, 15 gpm @ 19 ft hd. Thermoplastic impeller. Oil filled motor in sealed waterproof housing. Has built in overload protection. Mechanical shaft seal has hard ceramic seal and carbon rotating element. Motor shaft is stainless steel. Automatic mercury free vertical level control switch.

SP-2 and SP-3 SUMP PUMPS - DELETED

EJ 1 SEWAGE EJECTOR (Museum Building)
Myers #3WHV30M4 (2) with #SRA-33 lift-out rail systems. 3" non-clog, two vane rounded port ductile iron impellers, cast iron motor housing, cord cap seal housing and volute case. Single type Z1 standard-carbon/ceramic mechanical seal. Stainless steel shaft. Lift-out rail system shall consist of ductile iron discharge base, cast iron pump attaching and sealing plate, stainless steel pump guide plate, and cast iron elbow. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Guide rails shall be 1-1/2" stainless steel and shall be firmly attached to #3 access-hatch frame. Rail systems that require the pump to be supported by legs will not be considered equal. An adequate amount of stainless steel lifting chain will be provided. Each pump shall be capable of producing 250 gpm at 32 ft. hd., 5 hp. 450v/3Ø. Provide Myers #CWHV3-50-23DW 3-phase duplex control panel with elapsed time meter, alarm horn with silence switch, convenience outlet. Provide 8" deep x 60" dia fiberglass basin with anti floatation flange, steel "hatch" pump cover. Basin to be complete with all inlet hubs, grommets and gaskets

EJ-2 and EJ-3 SEWAGE EJECTOR (Archives Building)
Myers #3WHV30M4 (2) with #SRA 33 lift-out rail systems. 3" non-clog, two vane rounded port ductile iron impellers, cast iron motor housing, cord cap seal housing and volute case. Single type Z1 standard-carbon/ceramic mechanical seal. Stainless steel shaft. Lift-out rail system shall consist of ductile iron discharge base, cast iron pump attaching and sealing plate, stainless steel pump guide plate, and cast iron elbow. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Guide rails shall be 1-1/2" stainless steel and shall be firmly attached to #3 access-hatch frame. Rail systems that require the pump to be supported by legs will not be considered equal. An adequate amount of stainless steel lifting chain will be provided. Each pump shall be capable of producing 70 gpm at 31 ft. hd., 3 hp. 480v/3Ø. Provide Myers #CWHV3-30 23DW 3-phase duplex control panel with elapsed time meter, alarm horn with silence switch, convenience outlet. Provide 78" deep x 60" dia fiberglass basin with anti floatation flange, steel "hatch" pump cover. Basin to be complete with all inlet hubs, grommets and gaskets

OIL INTERCEPTOR
WADE #5500-50, fabricated steel, integral 100 gallon storage compartment, anti-skid gasketed cover, removable baffles, acid resisting coating, threaded inlet and outlet. Provide float switch in storage compartment with remote alarm to signal when storage compartment has reached 80% capacity. Verify depth required and provide extension as required

OIL INTERCEPTOR 2
WADE #5500-25, fabricated steel, integral 50 gallon storage compartment, anti-skid gasketed cover, removable baffles, acid resisting coating, threaded inlet and outlet. Provide float switch in storage compartment with remote alarm to signal when storage compartment has reached 80% capacity. Verify depth required and provide extension as required

VALVE SCHEDULE

TYPE	REQUIRED	VALVE SPECIFICATION													
		MATERIALS VALVES FG NO.	SIZE MADE	FLANGED	SOCKET	W/ ADAPTER	W/ BUSH								
SHUTOFF VALVES	1145	38"-4"													
	1105	14"-4"													
	T2881	2'-4"													
	F2882M	2'-12"													
	F2884M	2'-12"													
CHECK VALVES	S10	14"-2"													
	1509	14"-2"													
	S06	14"-5"													
	T2973	2'-4"													
	F2974M	2'-12"													
	F2970	2'-12"-6"													
	F2974LW	2'-12"													

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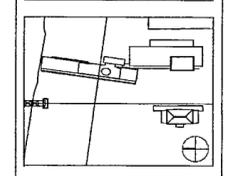
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