

GAS WATER HEATER SCHEDULE									
MARK	LOCATION	TEMPERATURE RISE	FLOW RATE GAL/MIN	CAPACITY (GALLONS)	MBH INPUT MAX	AIR INTAKE	FLUE EXHAUST	MANUFACTURER & MODEL NO.	NOTES
WH-1	MECH/ELEC ROOM 15	(50F - 120F) 70F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240S	ALL
WH-2	MECH/ELEC ROOM 15	(50F - 120F) 70F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240S	ALL

NOTES:
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 2 AMP (GFCI OUTLET).
3. PROVIDE AMTROL ST-12 THERMAL EXPANSION TANK ON COLD WATER LINE. REFER TO DETAILS SHEET P501.
4. PROVIDE CLEAR WATER ENVIRO TECHNOLOGIES SCALEBLASTER MODEL SB-250 ELECTRONIC DESCALER. COORDINATE 120 VOLT OUTLETS WITH EC.
5. PROVIDE CIRCULATION PUMP WIRING FROM WATER HEATERS. COORDINATE POWER CONNECTIONS WITH EC.
6. PROVIDE NAVIEN CONDENSATE NEUTRALIZER KIT AND OVERFLOW BY-PASS PIPING TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE ONE COMMUNICATION CABLE FOR WH-1 & 2.
8. PROVIDE NAVIEN READY-LINK WALL MOUNT PIPING MANIFOLD SYSTEM FOR WATER HEATERS.
9. PROVIDE NAVIEN EXHAUST/INTAKE CONCENTRIC VENT KIT THRU ROOF.
10. SEE DETAILS SHEET P501 FOR MORE INFORMATION.

CIRCULATION PUMP SCHEDULE										
MARK	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MOTOR				FLANGE SIZE (INCHES)	MATERIAL	MANUFACTURER & MODEL NO.	NOTES
			ELECTRICAL CHAR	F.L. AMPS	HP	RPM				
CP-1	150 PSI	225	115/60/1	3.5	1/6	3300	3/4"	S.S.	GRUNDFOS UPS 26-150 SF	

NOTES:
1. PROVIDE GRUNDFOS BRONZE 3/4" FLANGE SET.
2. DATA: 4 GPM AT 38 FEET HEAD.
3. PROVIDE 24 HOUR TIMER AND AQUASTAT - SET TIMER PER OWNER'S REQUIREMENTS.
4. COORDINATE WIRING WITH E.C.
5. SEE DETAIL SHEET P501 FOR MORE INFORMATION.

GAS LOAD TABLE					
MARK	INPUT (MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-1	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-2	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-3	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-4	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-5	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-6	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-7	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-8	100	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-9	100	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-10	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-11	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
F-12	80	7"	MAXITROL 325-3L	2 PSI	1,2,3
WH-1	199.9	7"	MAXITROL 325-5L	2 PSI	1,4
WH-2	199.9				
TOTAL LOAD	1399.8 MBH				

NOTES:
1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE VENT LIMITING DEVICE FOR INDOOR REGULATORS EQUIPPED WITH INTEGRAL VENT LIMITING ORIFICE MODEL 12A09.
3. COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
4. PROVIDE VENT LIMITING DEVICE FOR INDOOR REGULATORS EQUIPPED WITH INTEGRAL VENT LIMITING ORIFICE MODEL 12A39.

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
L-1	LAVATORY ADA 2-STATIONS	BRADLEY	VERGE LVR02-SHANK -T-NSD-STAIN-S-POLY	WALL	1/2"	1/2"	1 1/2"	1 1/2"	2-STATION UNIT, CENTER-SHANK FAUCET DRILLING (2-FAUCETS), NO SOAP DISPENSER, THERMOSTATIC MIXING ASSEMBLY, STAINLESS STEEL ACCESS PANEL, PVC P-TRAP. PROVIDE SLOAN BAYS BATTERY INFRARED SENSOR FAUCET EF650-202-0000 CP. PROVIDE MCGUIRE LFBV2165CC SUPPLY STOPS. ALL AVAILABLE COLORS FOR SELECTION BY ARCHITECT. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. SEE DETAIL 6/P501.
WC-1	WATER CLOSET ADA	KOHLER	K-4325	WALL	1 1/4"	-	4"	-	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. WADE WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION.
WC-2	WATER CLOSET	KOHLER	K-4325	WALL	1 1/4"	-	4"	-	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. WADE WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE.
UR-1	URINAL ADA	KOHLER	K-4991-ET	WALL	3/4"	-	2"	1 1/2"	PROVIDE SLOAN ROYAL 186-0.5 SFSM BATTERY OPERATED FLUSH VALVE. WADE CARRIER WALL SUPPORT CARRIER. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT AND WALL TYPE. ADA INSTALLATION.
S-1	SINK (SCIENCE ROOM)	ELKAY	DRKAD282260 RC	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	SINK PACKAGE WITH FAUCET AT BACK, LEVER HANDLE ON LEFT SIDE CENTERED ON BOWL, BUBBLER ON RIGHT, 6" SINK DEPTH. PROVIDE ELKAY LK4035 OFFSET TAILPIECE W/STRAINER. PROVIDE MCGUIRE 8912 P-TRAP & LFBV2165SS SUPPLY STOPS. INSTALL MIXING VALVE TMV-1 UNDER SINK.
S-2	SINK LAB STORAGE	ELKAY	LR2219PD2	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL 7 1/2" DEEP, 2 FAUCET HOLES, WITH PERFECT DRAIN & STRAINER. PROVIDE ELKAY LK406GN0514 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165SS SUPPLY STOPS. INSTALL MIXING VALVE TMV-1 UNDER SINK.
MS-1	MOP SINK	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	1 1/2"	MOLDED STONE, 6" DROP FRONT, SS THRESHOLD. PROVIDE FIAT 832AA HOSE & WALL BRACKET, 889-00 MOP BRACKET, MSG2424 SS WALL GUARDS, PROVIDE 1/8" BRASS FAUCET B-0665-BSTR. PROVIDE ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER.
EW-1	ELECTRIC WATER COOLER DUAL	ELKAY	LZSTLBSVRSK	WALL	1/2"	-	1 1/2"	1 1/2"	DUAL LEVEL VANDAL-RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION ON LOWER UNIT, FILTERED, 120 VOLT. PROVIDE ELKAY CANE APRON LKAPRZL ON UPPER UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.
FD	FLOOR DRAIN	WADE	1100-DA6-1	FLOOR	-	-	SEE PLANS	-	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION.
RD	ROOF DRAIN	WADE	3000-42-ADF -53	ROOF	-	-	SEE PLANS	-	DURA-COATED CAST IRON BODY, CAST IRON DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ADJUSTABLE EXTENSION ASSEMBLY & UNDER DECK CLAMP.
ORD	OVERFLOW ROOF DRAIN	WADE	3000-42-ADF -53	ROOF	-	-	SEE PLANS	-	SAME AS ROOF DRAIN WITH 2" HIGH EXTERNAL WATER DAM.
FCO	FLOOR CLEANOUT	WADE	6000-1-VP-7 5	FLOOR	-	-	SEE PLANS	-	ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, MEDIUM DUTY SCORIATED ROUND TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS, BRASS PLUG.
WCO	WALL CLEANOUT	WADE	8560-75 8304-85-VP	WALL	-	-	SEE PLANS	-	CAST IRON CLEANOUT TEE, THREADED BRASS PLUG, PROVIDE 8304-85-VP STAINLESS STEEL 6" ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.
ECO	EXTERIOR CLEANOUT	WADE	8401-COF4-V P	GRADE	-	-	SEE PLANS	-	CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURED GASKETED COVER WITH CLEANOUT FERRULE WITH BRASS PLUG. VANDAL PROOF SCREWS.
BWV	BACKWATER VALVE (SANITARY)	RECTORSEAL	97034	GRADE	-	-	4"	-	PVC BODY, FLAPPER WITH EXTENSION AND CAP. PROVIDE PVC SLEEVE TO FLUSH WITH FINISH GRADE. FIELD VERIFY DEPTH OF ACCESS HOUSING. ASSEMBLY MEETS IPC CODES. SEE DETAIL SHEET P501.
HA-1	HAMMER ARRESTOR	WATTS	LF15M2	PIPE	VARIES	-	-	-	LEAD-FREE DESIGN, POI WH201 LISTED, MAINTENANCE FREE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
TP-1	TRAP PRIMER	SIoux CHIEF	695-ES01	PIPE	1/2"	-	-	-	ELECTRONIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & OUTLET, 120V POWER HARD-WIRED. PROVIDE STRAINER PRIOR TO UNIT. COORDINATE 120 VOLT POWER WITH EC. PROVIDE DISTRIBUTION SPLITTER. SEE DETAIL .
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFMMV-M1	BELOW FIXTURE	1/2"	1/2"	-	-	LEAD FREE MIXING VALVE WITH ADJUSTABLE TEMPERATURE SET-POINT & LOCKABLE, INTEGRAL CHECK STOPS & STRAINERS, 1/2" INLETS & OUTLET. SET OUTLET TEMP AT 105 DEGREES F, ASSE 1070 LISTED.
TBV-1	THERMOSTATIC BALANCING VALVE	CIRCUIT SOLVER	CSJAS-1/2-110-CV1-TW	PIPE	-	-	-	-	1/2" THERMOSTATIC BALANCING VALVE FOR HWR LINE, WITH BALL VALVE, STRAINER, BALANCING VALVE, THERMOWELL, TEMPERATURE GAUGE, CHECK VALVE & BALL VALVE. COORDINATE HWR TEMPERATURE WITH OWNER PRIOR TO ORDERING ASSEMBLY.
TBV-2	THERMOSTATIC BALANCING VALVE	CIRCUIT SOLVER	CSJAS-1-110-CV1-TW	PIPE	-	-	-	-	1" THERMOSTATIC BALANCING VALVE FOR HWR LINE, WITH BALL VALVE, STRAINER, BALANCING VALVE, THERMOWELL, TEMPERATURE GAUGE, CHECK VALVE & BALL VALVE. COORDINATE HWR TEMPERATURE WITH OWNER PRIOR TO ORDERING ASSEMBLY.
AP-1	ACCESS PANEL	ACUDOR	UF-5000 14x14 CLSS	WALL	-	-	-	-	14"x14" STEEL, 16 GAGE DOOR & FRAME, 18 GAGE MOUNTING FRAME. CONCEALED HINGE, CYLINDER LOCK & KEY, STAINLESS STEEL FINISH. CONCEALED FASTENING POINTS.
FWH	FREEZELESS WALL HYDRANT	WOODFORD	865	WALL	3/4"	-	-	-	CONCEALED BOX TYPE WITH HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE, GIVE HYDRANT KEY TO OWNER.
FRH	FREEZELESS ROOF HYDRANT	WOODFORD	SRH-MS	ROOF	3/4"	-	-	-	FREEZELESS HYDRANT, ROOF MOUNTING ASSEMBLY & SUPPORT, THREADED HOSE OUTLET WITH DUAL CHECK BFP ASSE 1052. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.
WB-1	WATER BOX	SIoux CHIEF	696RG1011WF	WALL	1/2"	-	-	-	FIRE-RATED RECESSED WALL ABS BOX WITH FACE PLATE, 1/2" QUARTER TURN BALL VALVES WITH INTEGRAL WATER HAMMER ARRESTOR, 3/8" OUTLET. UNIT SERVES REFRIGERATOR.

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