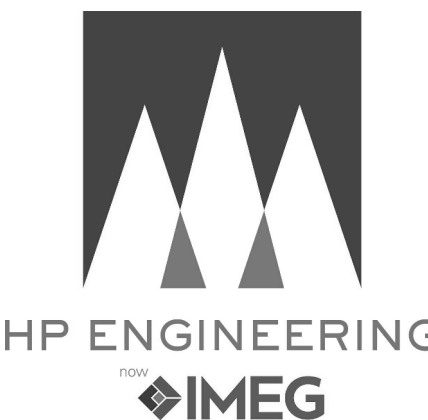


issue for review:	2026.08.05	
issue for pricing:	2026.09.11	
issue for construction:		
revisions:		
mark	date	description

modus
studio
architecture
+ prototyping
479.455.5577
modusstudio.com
contact@modusstudio.com



NOT FOR INSTRUCTION

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BFFP-1	BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE 2-1/2". NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES. GATE STYLE SHUT-OFF VALVES ON INLET OUTLET OF LINE TO WELD TO. STANDARD CONSTRUCTION GUARANTEED AIRTIGHT AND LEAKPROOF. STAINLESS STEEL SYSTEM COMPATIBLE. HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS. ALL WELDED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD FILLING. TANK SHALL COMPLY WITH NSF/ANSI STANDARD #1 AND 372.	WATTS (#697), APOLLO (#RPLFA4), ZURN WILCOX (#V6AST), MIFAB (BESCO) BARRACUDA 40 WRP SS)
E1-T	MOUNT WITHIN 6" OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVES UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. EXHAUSTION TAPE SHALL BE USED IN CONSTRUCTION. GUARANTEED AIRTIGHT AND LEAKPROOF. STAINLESS STEEL SYSTEM COMPATIBLE. HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS. ALL WELDED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD FILLING. TANK SHALL COMPLY WITH NSF/ANSI STANDARD #1 AND 372.	EXPANSION TANK - WATTS (PLT)
FD-1	TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO REACH FIELD VERIFIED STAT SYSTEM PRESSURE.	FLOOR DRAIN - JRSMTIH (2005)
FD-2	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 4" BOTTOM OUTLET, FLASHING COLLAR TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSERS AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072. TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSERS AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - JRSMTIH (2005) TRAP SEAL - SURE SEAL (SS)
H8-B	HOSE BIBB - FREEZELESS ROOF HYDRANT, ONE PIECE VARIABLE FLOW PLUNGER WITH ROD GUIDE, BUILT-IN STORAGE RESERVOIR AND VENTURI SYSTEM TO EVACUATE WATER AND ALLOW DRAIN BACK OPERATION FOR FREEZE PROOF WINTERIZATION WITHOUT A DRAM CONNECTION, CAST IRON FLANGED WITH SUPPORT UNDER-LEAD FLANGE, WELL SEAL BETWEEN SUPPORT AND HYDRANT PIPE WITH EDM BOOT COVER. PROVIDE WITH ASSE 1052 or 1057 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.	TRAP SEAL - SURE SEAL (SS) WOODFOORD (SRH-AS)
L-1	LAVATORY - WALL MOUNTED, WHITE CERAMIC, 23 1/2" X 21 1/4" X 4-7/8"; SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONTINUOUS SPOUT WITH LAMINAR FLOW OUTLET. MAXIMUM FLOW TO BE 1.0 GPM INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22-40.00, ARMA-FLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	LAVATORY - NAMEEKS (TEOREMA 2.0 PLUS) LAVATORY TRIM - DELTA (567LF)
MB-1	MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. PROVIDE 25" TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES. TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH ASSE 1011 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THRMAL CROSSOVER.	MOP BASIN - FIAT (TSB) TRIM - T&S BRASS (B-0665-CRBSTRVR)
SK-1	ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP, 24" WIDE STAINLESS STEEL WALL GUARD(S). SINK - UNDERMOUNT SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 38" (SIDE-TO-SIDE) X 22" (FRONT-TO-BACK) OVERALL SIZE, 26" x 18" x 10 1/2" DEEP BOWL, SOUND DEADENING ON BOTTOM OF BASIN, 3-1/2" DIA METRIC DRAIN OUTLET LOCATION OFF CENTERED NEAR IN BOWL. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" TEACH FULL DOWN SPRAY HOSE WITH AERIAL 3/8" TEACH / SPRAY SELECTOR AND WING HANDLE. MAXIMUM FLOW TO BE 1.8 GPM FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD #1 AND 372. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	SINK - KRAUS (STANDART PRO) SINK TRIM - DELTA (RT5PLS-DST1)
TWC0-1	INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22-40.00, ARMA-FLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	
UB-1	TWO WAY CLEANOUT, SPEEDI SECT OUTLET - UNFINISHED FLOOR DUOCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREADED BRONZE PLUG.	MANUFACTURER AND MODEL: J.R. SMITH (4222)
UB-2	UTILITY BOX - UNPAINTED GALVANIZED STEEL OR WHITE PAINTED STEEL ENCLOSURE, MATCHING FACEPLATE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTEGRAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT.	GUY GRAY (BM175AB)
UB-3	UTILITY BOX - PLATING ENCLOSE, MATCHING SNAP ON FACEPLATE, MINIMUM 8" HIGH BY 6" WIDE BOX, 3/4" PORT MOUNTED CONDENSATE DRAIN INLET, DRAINAGE FUNNEL WITH 1" AIR GAP, 2" BOTTOM DRAIN OUTLET AND TRAP LOCATED 18"-30" BELOW BOX. UTILITY BOX - POLYSTYRENE CONSTRUCTION, 6'W BY 6'H BOX DIMENSIONS, MATCHING SNAP ON FACEPLATE, LOW LEAD 14 TURN SHUT OFF VALVE WITH INTEGRAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT.	SIoux CHIEF (696-3F-CF-SC-L-R3) SIoux CHIEF (696-G1010)
UR-1	BACK FLOW PREVENTER - UDCD, LEAD CHECK LEAF FREE STAINLESS STEEL OR ALUMINIUM BODY. HEAVY DUTY FDA APPROVED RUBBER DIAPHRAGMS, 38" SIZE RATED FOR 150 PSI AT 33°F TO 110°F, APPROVED BY ASSE 1032. PROVIDE POLYETHYLENE TUBING DOWNSTREAM FOR FINAL CONNECTION TO EQUIPMENT. URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHTOW ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 0.125 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TALIPICE, SPOUT COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, 5-YEAR WARRANTY. ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY. CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.	URINAL - AMERICAN STANDARD (6590.525) FLUSH VALVE - INCLUDED
WC-1	MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. FLUSH HANDLE SHALL BE AT 44" (MAXIMUM) ABOVE FLOOR AND OPERATE WITH NO GREATER THAN 5 LB FORCE WITH HIGH EFFICIENCY WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT AND ROUGH-IN LOCATIONS. WATER CLOSET - ACCESSIBLE, FLOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH COMPLIANCE WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD, BOLT CAPS. FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.28 GALLONS PER FLUSH, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, SPOUT COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, 3 YEAR WARRANTY, WATERSENSE LABELED PER LEED REQUIREMENTS. ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, FLUSH VALVE OR PLATED STEEL POSTS AND NUTS.	WATER CLOSET - AMERICAN STANDARD (MADORA 3043) FLUSH VALVE - AMERICAN STANDARD (8065.121) SEAT - SAME AS WATER CLOSET MANUFACTURER
WC0-1	CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR. FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	JR SMITH (4422)
YC0-1	WARD CLOSET - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, [VANDAL RESISTANT] ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW. WARD CLOSET - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, [VANDAL RESISTANT] ROUND DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER/TIGHT SEAL.	SMITH (4261)

PLUMBING (WITH POWER) MATERIAL LIST

TAG NAME	DESCRIPTION	TOTAL (QTY* KW)	ELECTRICAL											EMERGENCY POWER	MANUFACTURER AND MODEL
			KW	HP (NOTE E)	FLA	MCA	MCP	VOLTAGE	PHASES	DISCONNECT		CONTROLLER/STARTER			
										BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)		
CP-1	CIRCULATING PUMP - VARIABLE SPEED, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL AND THERMAL OVERLOAD PROTECTION, ONE SET OF DRY CONTACTS FOR STATUS OUTPUT TO BMS, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, MANUFACTURER PROVIDED PUMP BODY INSULATION KIT, UL LISTED. 3 GPM @ 11 FEET OF HEAD. ELECTRICAL REQUIREMENTS - HARD-WIRE	0	0.17	0	0	0	120	1	EC	NF	MFR	VFD	No	PUMP - B&G (ECCO/RC XL SERIES)	
EW-C1	ELECTRIC WATER COOLER - WALL HUNG, 81-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL CANE APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON R-134a REFRIGERANT, COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN OR DISCHARGE EXCESS WATER TO BOWL BELOW, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSURE, GFCI BREAKER.	0	0.2	0	0	0	120	1	EC	PLUG	0	0	No	ELECTRIC WATER COOLER - ELKAY (LZ31LBWSSK)	
GD-1	GARBAGE DISPOSAL - CONTINUOUS FEED UNIT, CORROSION RESISTANT GRIND CHAMBER, CONTROL CENTER WITH AUTOMATIC REVERSING ACTION, OVERLOAD PROTECTION WITH RESET, DISPOSER MOUNTING ASSEMBLY, SOLENOID VALVE, SYPHON BREAKER, FLOW CONTROL VALVE, 1/2" WATER CONNECTION, SUPPORT LEGS, SERVICE WRENCH, FULL 1 YEAR WARRANTY, INCLUDE DELTA AIR SWITCH. ELECTRICAL REQUIREMENTS - HARD-WIRED.	0	1	10.2	0	0	120	1	EC	NF	EC	FV SWITCH	No	IN-SINK-ERATOR (EVOLUTION)	
SP-1	PUMP PUMP - SIMPLY SUBMERSIBLE, SINGLE-STAGE, SINGLE SEAL, CENTRIFUGAL, END-SUCTION PUMP, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED. CASING - CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 1 1/4" VERTICAL DISCHARGE. IMPELLER - CAST IRON OR ENGINEERED THERMOPLASTIC, STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEVED AND SECURED TO SHAFT, PASSES 1/2" SOLIDS MINIMUM. SHAFT - STEEL OR STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL. MOTOR - 1750 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE WITH GROUNDING PLUG, MAXIMUM LENGTH 6 FEET PER THE NATIONAL ELECTRICAL CODE, COORDINATE RECEPTACLE LOCATION WITH ELECTRICAL CONTRACTOR. CAPACITY : 50 GPM, 15 FEET OF HEAD. ELECTRICAL REQUIREMENTS - HORSEPOWER OR AMPERAGE NOTED IS TOTAL SINGLE POINT CONNECTION. CONTROLS - INTEGRAL FLOAT SWITCH OR PIGGY-BACK FLOAT/DIAPHRAM SWITCH. FLOATS SHALL BE MERCURY-FREE.	0	0.5	0	0	0	120	1	MFR	NF	MFR	FV	No	PUMP - STANCOR (SE-50) CONTROLS - STANCOR (OIL MINDER)	
WH-1	WATER HEATER - GAS FIRED, CONDENSING, VERTICAL, MINIMUM 94% EFFICIENT, SEALED COMBUSTION, METAL CABINET, BAKED ENAMEL FINISH, ASME STAMPED GLASS-LINED STEEL OR STAINLESS STEEL TANK, 160 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MULTIPLE MAGNESIUM ANODE RODS, VENT PIPING KIT, HIGH TEMPERATURE GAS SHUT OFF, AUTOMATIC WATER THERMOSTAT, BUILT-IN GAS REGULATING VALVE, ADJUSTABLE TEMPERATURE RANGE, 3-YEAR WARRANTY, UL LISTED, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A. 60 GALLON CAPACITY, 120,000 BTUH INPUT NATURAL GAS, 38 GPH RECOVERY AT 100°F RISE ELECTRICAL REQUIREMENTS - CIRCUIT FOR BLOWER AND CONTROLS, HARD-WIRED. SET WATER TEMPERATURE AT 140°F. SET SUPPLY GAS PRESSURE AT 10" W.C. PROVIDE CONDENSATE NEUTRALIZATION KIT AND LEAK DETECTION KIT.	0	0	4	0	0	120	1	EC	NF	0	0	No	WATER HEATER - A.O SMITH (CYCLONE MXI BTH-120A)	
WH-2	WATER HEATER - ELECTRIC INSTANTANEOUS POINT-OF-USE, HIGH STRENGTH REINFORCED PLASTIC BODY, 1/2" COMPRESSION FITTINGS, THERMOSTATICALLY CONTROLLED, NEMA 1 PAINTED STEEL WATERPROOF ENCLOSURE, FACTORY PRESET THERMOSTAT (110°F), HIGH TEMPERATURE LIMIT SWITCH, 150 PSI WORKING PRESSURE, REPLACEABLE ELEMENT, 1-YEAR WARRANTY ON ELEMENT, 5-YEAR WARRANTY ON HEATER BODY/ELEMENT ASSEMBLY, UL LISTED. TURN ON AT 0.5 GPM OR LESS ELECTRICAL REQUIREMENTS - HARD-WIRED. MOUNT WATER HEATER ON WALL BELOW COUNTER OR LAVATORY. SET OUTPUT WATER TEMPERATURE AT 110°F.	5.5	0	20	20	20	277	1	EC	NF	0	0	No	WATER HEATER - STIEBEL ELTRON (MINI 6-3)	

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:

1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT PERMITTED IN NON-CONDITIONED OR HIGH-HUMIDITY SPACES (E.G., MECHANICAL ROOMS, EXTERIOR, ATTICS, AND AHU SUPPLY/RETURN AIR TUNNELS). AHU TUNNELS SHALL NOT BE CONSIDERED CONDITIONED SPACES.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84M1/723.
5. TYPE G-4'S SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. INSERT AT JOINTS, EITHER PRE-MANUFACTURED OR COORDINATE WITH THE TYPE E HANGER AND SUPPORTS SPECIFICATIONS FOR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.
7. DIRECT BURIED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURIED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.

SYMBOL		PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE						NOTES
				< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"		
22	PLUMBING - WASTE									
D	DRAIN		A (GlsFbr), B (Elasto), E (Physio), F (Pheno)	1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL, CONDENSATE, ICE MACHINE DRAINS, ETC.)	
SAN	SANITARY DRAINAGE		A (GlsFbr) OR B (Elasto) WITH ASTM E84 COMPLIANT JACKET	1/2"	1/2"	1"	1"	1"	APPLY INSULATION TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL, CONDENSATE, ICE MACHINE DRAINS, ETC.)	
V	VENT		A (GlsFbr) OR B (Elasto) WITH ASTM E84 COMPLIANT JACKET	1/2"	1/2"	1"	1"	1"	APPLY INSULATION TO ALL PIPING ABOVE GRADE	
22	PLUMBING - WATER								APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION.	
CW	COLD WATER - POTABLE		A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	1"	1"	PVC OR HDPE JACKET ONLY FOR DOMESTIC COLD WATER PIPING BELOW GRADE. ELASTOMERIC FOR DOMESTIC COLD WATER ABOVE GRADE. ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.	
HW	HOT WATER - POTABLE		A (GlsFbr), B (Elasto)	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	ELASTOMERIC, ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.	
HWG	HOT WATER CIRCULATING - POTABLE		A (GlsFbr), B (Elasto)	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	ELASTOMERIC, ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES.	

REFER TO SHEETS G0.00 - G0.03 FOR ALL
GENERAL NOTES RELATIVE TO THE SCOPE OF
WORK AND TYPES OF DRAWINGS, ELEMENTS,
AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED
TRADE PACKAGES (DIVISION 00) FOR ALL
CONTRACTOR PROJECT REQUIREMENTS,
WITHOUT EXCEPTION. **ALL SUBCONTRACTORS
ARE RESPONSIBLE FOR REVIEWING ALL
CONTRACT DOCUMENTS** (INCLUDING SHEETS,
DRAWINGS, GENERAL NOTES, SPECIFICATIONS,
ETC.) AS PROVIDED BY THE ARCHITECT OR ANY
OTHER CONSULTANT.

contents.

PLUMBING SCHEDULES

```
design.  CD
date.   2026.09.11
project. 25.18
```



PROJECT #250034

P6.00

PROJECT #250034