

GENERAL NOTES

- All work shall be in accordance with the State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. Reserve space for sprinkler mains. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be vented.
- This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans, refer to: adjacent or enlarged plumbing plans, then appropriate schedules, details, specifications, equipment connection sizes and minimum Code requirements. For otherwise indeterminable pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise. Special care shall be taken when dropping 3" nominal pipe in 3-1/2" wall cavities to ensure correct fit and alignment.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping containing liquid 2" and larger shall be supported from the top chord of bar joists unless permission to do otherwise is obtained from the Structural Consultant. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All water piping shall be installed parallel to building lines and pitched to low points. Provide draw-offs at low points. Piping shall be run neatly grouped together when practical. Allow room between all piping and other obstructions to allow for the installation of the specified pipe insulation.
- All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic and storm water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or drain lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers where shown on drawings, and on tops of risers to all flush valves, dishwashers and clotheswashers. Sizes shall conform to P.D.I. standards.
- All sanitary waste piping less than 4" shall pitch down at 1/4" per L.F. All 4" and larger piping shall pitch at 1/8" per L.F. whenever possible. No sanitary/ waste piping under slab shall be less than 2" in diameter.
- All Domestic copper water piping shall be type "K" or "L" copper, type "M" is prohibited.

PUMP SCHEDULE

TAG	ITEM	SERVICE	GPM	HEAD	HP	VOLTS	REMARKS
DCP-1	DOMESTIC RECIRC PUMP	120° HW RECIRC LOOP	7	10	1/25	115	3/4" BRONZE ELEC. BY DIV. 16
SP-1	ELEVATOR SUMP PUMP	ELEVATOR SHAFT	50	18'	1/2	115	OIL MINDER ELEC. BY EG

ABBREVIATIONS, LINE TYPES & SYMBOLS

I40 WATER	I40 DEG F HOT	IDW	INDIRECT WASTE	-----	SANITARY / WASTE PIPING BELOW SLAB
⊙	AT	LF	LINEAR FEET	-----	SANITARY / WASTE PIPING ABOVE SLAB
A	AMPS, AQUASTAT	LV	LAVATORY	----- IDW	INDIRECT WASTE PIPING ABOVE SLAB
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MOUNTED	-----	VENT PIPING ABOVE SLAB
AFF	ABOVE FINISHED FLOOR	MV	MIXING VALVE	-----	VENT PIPING BELOW SLAB
BFP	BACKFLOW PREVENTER	NB	NICKEL BRONZE	-----	STORM WATER PIPING ABOVE SLAB
BLV	BALL VALVE	OD	OUTSIDE DIAMETER	-----	STORM WATER PIPING BELOW SLAB
BV	BALANCE VALVE	PC	PLUMBING CONTRACTOR	-----	COLD WATER PIPING
CD	CLOTHES DRYER	PDI	PLUMBING & DRAINAGE INSTITUTE	-----	COLD WATER PIPING BELOW SLAB
CNTR	COUNTER	PG	PRESSURE GAUGE	-----	COLD WATER PIPING BELOW SLAB
CO	CLEANOUT	PH	PHASE	----- TP	TRAP PRIMER PIPING
CONT	CONTINUATION	PRV	PRESSURE REDUCING VALVE	----- TP	TRAP PRIMER PIPING BELOW SLAB
COORD	COORDINATION	PSI	POUNDS PER SQUARE INCH	-----	I20 DEG HOT WATER PIPING
COTG	CLEANOUT TO GRADE	PN	PUMPED WASTE	-----	HOT WATER RETURN PIPING
CW	COLD WATER, CLOTHES WASHER	RAD	RADON	-----	I40 DEG HOT WATER PIPING
C4HW	COLD & HOT WATER	RAM	RISE AT WALL	----- 140	GAS PIPING
RD	ROOF DRAIN	RD	ROOF DRAIN	----- G	RADON VENT PIPING, UNDERSLAB, PERFORATED
DAW	DROP AT WALL	RH	RIGHT HAND	-----	PUMP DISCHARGE
DCP	DOMESTIC CIRCULATING PUMP	RIC	RISE IN CHASE	-----	BALL VALVE
DEG	DEGREES	RIW	RISE IN WALL	----- PD	VERTICAL BALL VALVE
DIC	DROP IN CHASE	RUC	RUN UNDER COUNTER	-----	BALANCING VALVE
DIV	DIVISION	RUF	RUN UNDER FLOOR	-----	CHECK VALVE
DIN	DROP IN WALL	RUF	RUN UNDER FLOOR	-----	BACKFLOW PREVENTER
DN	DOWN	RV	RELIEF VALVE	-----	VACUUM RELIEF VALVE
DNAM	DOWN AT WALL	S	SANITARY WASTE	-----	RELIEF VALVE
DNIC	DOWN IN CHASE	SA	SHOCK ABSORBER	-----	PRESSURE REDUCING VALVE
DNIN	DOWN IN WALL	SK	SINK	-----	THERMOMETER
DO	DRAINOFF	SP	SUMP PUMP	-----	PRESSURE GAUGE
DN	DISHWASHER	SS	STAINLESS STEEL	-----	TRAP PRIMER
EA	EACH	ST	STACK	-----	DROP/RISE IN LINE
ET	EXPANSION TANK	SV	STACK VENT	-----	LINE UP TO FLOOR ABOVE
FCO	FLOOR CLEANOUT	T	THERMOMETER	-----	TEE -DROP
FD	FLOOR DRAIN	TP	TRAP PRIMER	-----	SHOCK ABSORBER
FFE	FINISHED FLOOR ELEVATION	TS	TUB/SHOWER	-----	UNION
FV	FLUSHVALVE	TYP	TYPICAL	-----	MIXING VALVE
G	GAS (FUEL)	UIC	UP IN CHASE	-----	FLOOR CLEANOUT
GAL	GALLONS	U4DNAM	UP & DOWN AT WALL	-----	FLOOR DRAIN
G6	GALLONS PER FLUSH	U4DNIC	UP & DOWN IN CHASE	-----	WALL CLEANOUT
GPM	GALLONS PER MINUTE	U4DNIN	UP & DOWN IN WALL	-----	VENT THROUGH ROOF
GV	GATE VALVE	UW	UP IN WALL	-----	HOSE BIB
HB	HOSE BIB	V	VENT	-----	WATER METER
HC	HEATING CONTRACTOR	VB	VACUUM BREAKER	-----	PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
HW	HOT WATER	VC	VITREOUS CHINA	-----	ROOF DRAIN
HWB	HOT WATER RETURN	VIF	VERIFY IN FIELD	-----	
IE	INVERT ELEVATION	VRV	VACUUM RELIEF VALVE	-----	
		V5	VENT STACK	-----	
		VTR	VENT THRU ROOF	-----	
		W	WASTE	-----	
		W	WITH	-----	
		WC	WATER CLOSET, WATER COLUMN	-----	
		WCO	WALL CLEANOUT	-----	
		WGI	WARM SIDE OF INSULATION	-----	

PLUMBING FIXTURE SCHEDULE

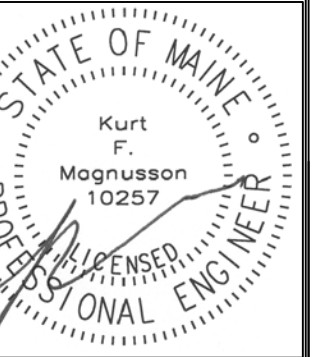
TAG	FIXTURE	COLD WATER	HOT WATER	SAN/ WASTE	VENT	REMARKS	MOUNTING HEIGHT
CD-1	CLOTHES DRYER					1/2" G, CONNECT W/ FLEX	REQUIREMENTS
CW-1	CLOTHES WASHER SUPPLY & DRAIN UNIT	1/2"	1/2"	2"	1-1/2"	RECESSED	PER MANUF'R REQUIREMENTS
LV-1	LAVATORY, VANITY TOP 37" CENTERED BOWL	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, TWO HANDLE FAUCET,	CABINET
LV-2	LAVATORY, WALL MTD - ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, TWO HANDLE FAUCET, CARRIER	RIM 34"
LV-3	LAVATORY, WALL MTD, PUBLIC -ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, SINGLE HANDLE FAUCET, CARRIER	RIM 34"
MB-1	MOP BASIN	1/2"	1/2"	3"	1-1/2"	MOLDED STONE SERVICE FAUCET W/ VB	FLOOR
SK-1	SINK, SINGLE BOWL	1/2"	1/2"	1-1/2"	1-1/2"	S.S. 22"x25"x8" KITCHEN FAUCET	COUNTER
SK-2	SINK, SINGLE BOWL ADA	1/2"	1/2"	1-1/2"	1-1/2"	S.S. 22"x25"x6-1/2" KITCHEN FAUCET	COUNTER
SK-3	SINK, SINGLE BOWL ADA	1/2"	1/2"	1-1/2"	1-1/2"	S.S. 22"x15"x6-1/2" GOOSENECK FAUCET	COUNTER
SH-1	SHOWER, RH	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 60" X 34" SHOWER CONTROLS	
SH-2	SHOWER, LH	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 60" X 34" SHOWER CONTROLS	
SH-3	TRANSFER SHOWER, RH- ADA	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 38" X 38" TUB & SHOWER CONTROLS	
SH-3	TRANSFER SHOWER, LH- ADA	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 38" X 38" TUB & SHOWER CONTROLS	
WC-1	WATER CLOSET, TANK, FLOOR MTD, LH - ADA	1/2"		3"	2"	1.28 GPF, VC, 16-1/2" TO RIM INSULATED TANK, 2" LIFT SEAT	FLOOR
WC-2	WATER CLOSET, TANK, FLOOR MTD, RH - ADA	1/2"		3"	2"	1.28 GPF, VC, 16-1/2" TO RIM INSULATED TANK, 2" LIFT SEAT	FLOOR
WC-2	WATER CLOSET, TANK, PUBLIC FLOOR MTD - ADA	1/2"		3"	2"	1.28 GPF, VC, 16-1/2" TO RIM INSULATED TANK, 2" LIFT SEAT	FLOOR

DRAIN SPEC. SCHEDULE

TAG	ITEM	WASTE	VENT	REMARKS
FCO-1	ROUND, FINISHED AREAS FLOOR CLEANOUT	SIZE OF PIPE	-	
FCO-2	ROUND W/ CARPET MARKER FLOOR CLEANOUT	SIZE OF PIPE	-	
FD-1	ROUND, INDIRECT WASTE FLOOR DRAIN W/ FUNNEL	3"	1-1/2"	
FD-2	ROUND RECESSED GRATE FLOOR DRAIN	3"	1-1/2"	
RD-1	MAIN ROOF DRAIN	4"	-	PRIMARY DRAINAGE
RD-2	SMALL ROOF DRAIN	3"	-	PRIMARY DRAINAGE
WCO-1	WALL CLEAN OUT	SIZE OF PIPE	-	

WATER SPEC. SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
BFP-1	BOILER MAKE-UP WATER	3/4"	-	SAME	
ET-1	EXPANSION TANK POTABLE WATER	3/4"	-	-	
HB-1	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/4" GHT	
MV-1	MASTER MIXING VALVE	1-1/4"	1-1/4"	1-1/2"	120°
SA-1	SHOCK ABSORBER	1/2" OR 3/4"	-	-	P.D.I. A
SA-2	SHOCK ABSORBER	3/4"	-	-	P.D.I. B
TP-1	TRAP SEAL PRIMER	1/2"	-	SAME	W/ SPLITTER



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PLUMBING NOTES & SCHEDULES

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