

ELECTRONIC TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	WPD (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN = HEAT-TIMER ETV-FLUS		
							SERVICE	ARRANGEMENT	MODEL
ETM-1	600	1-1/4	1-1/4	100	120	-	DHW	-	915643-00

PROVIDE WITH HEAT-TIMER TEMPERATURE MONITORING CONTROL (TMC).

BFP PERFORMANCE SCHEDULE

TAG	SIZE	FLOW RATE (GPM)	WPD (PSI)	MAX. WORK'G. TEMPERATURE (DEGREES F)	MAX. WORK'G. PRESSURE (PSI)	TESTABLE (Y) OR (N)	BASIS OF DESIGN = ZURN-WILKINS		
							BODY STYLE	SERVICE	MODEL
BFP-1	2"	300	135	180	115	Y	RPZ	WATER ENTRANCE	915XL2
BFP-2	2"	300	135	180	115	Y	RPZ	WATER ENTRANCE	915XL2

EXPANSION TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. ACCEPT. VOL. (GAL)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN = TACO		
							MOUNTING	SERVICE	MODEL
ET-1	340	130	180	240	125	500	FLOOR	DOM HW	PAX-130

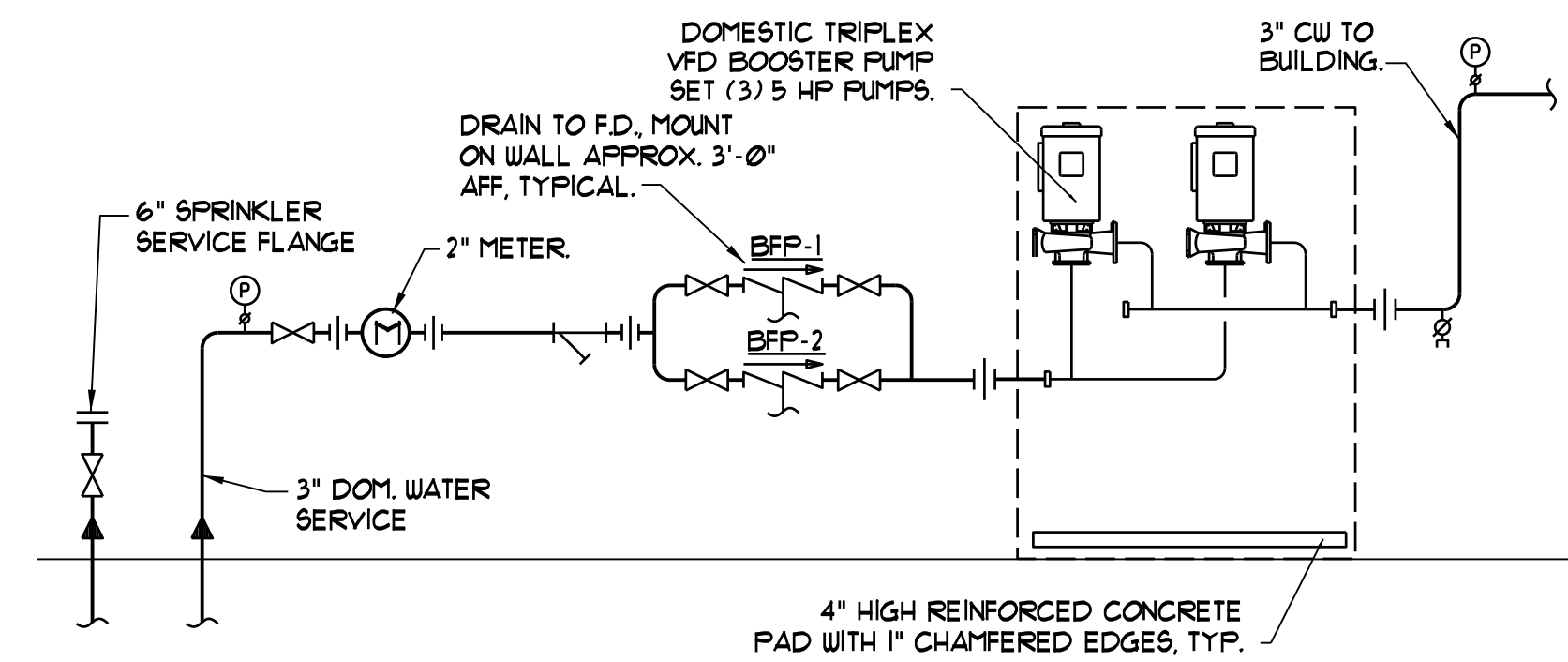
GAS WATER HEATER PERFORMANCE SCHEDULE

TAG	STORAGE (GALS)	INPUT (MBH)	WPD (FT.WG)	RECOVERY @200°F RISE (GPH)	WORKING PRESSURE (PSIG)	INLET CU TEMP (DEG F)	OUTLET CU TEMP (DEG F)	ELECTRICAL REQUIREMENTS	BASIS OF DESIGN = A.O. SMITH				
									AMPS	WATTS	V/PH/Hz	SERVICE	FUEL
GW-1	1000	2500	-	2910	1500	400	1400	62	-	120/160	BUILDING DHW	NAT GAS	BTH250A
GW-2	1000	2500	-	2910	1500	400	1400	62	-	120/160	BUILDING DHW	NAT GAS	BTH250A

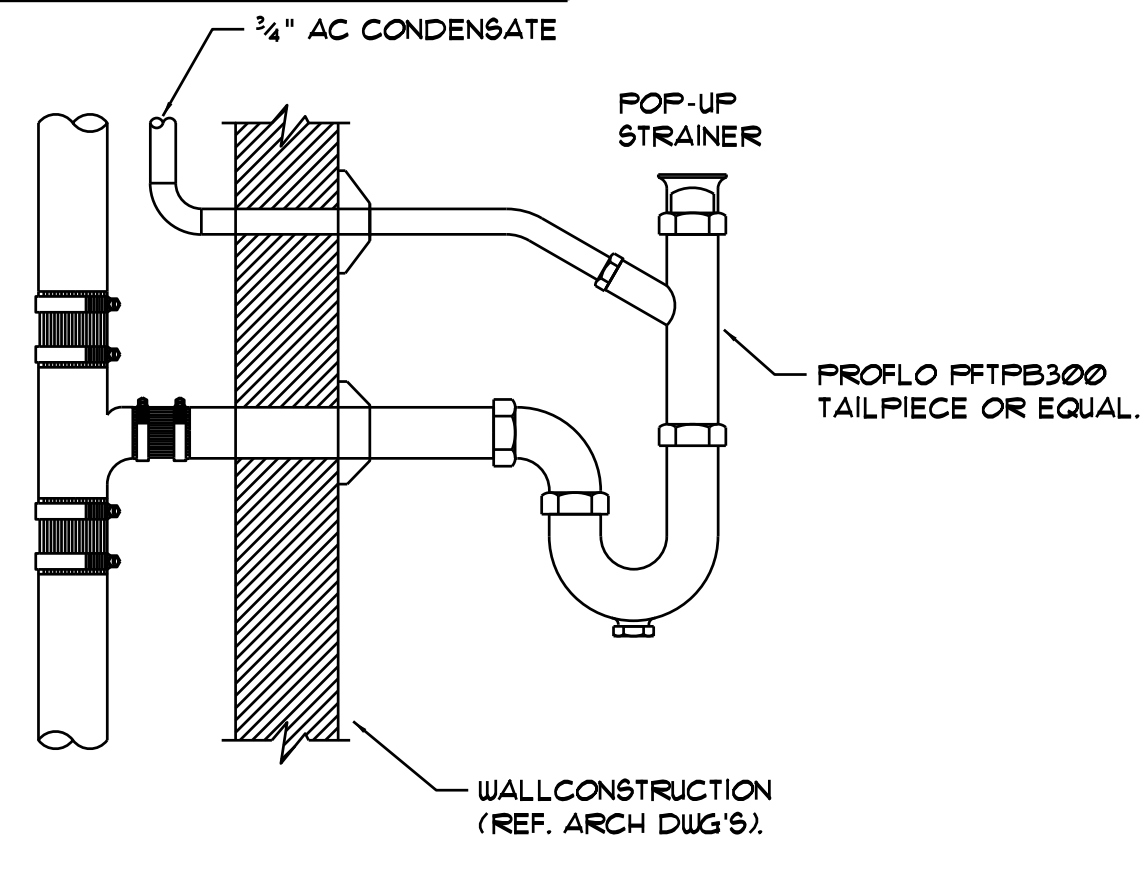
PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	HEAD (FT.WG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = GRUNDFOS				
						W (MAX)	VFD	AMP	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL	
CP-1	60	200	-	3506	-	118	62.9	N	161	120/160	DHW	INLINE	MAGN3 32-100

CP-1 SHALL BE S.S. CONSTRUCTION (POTABLE WATER) AND SHALL HAVE AN ECM MOTOR.



WATER ENTRANCE DETAIL
NTS



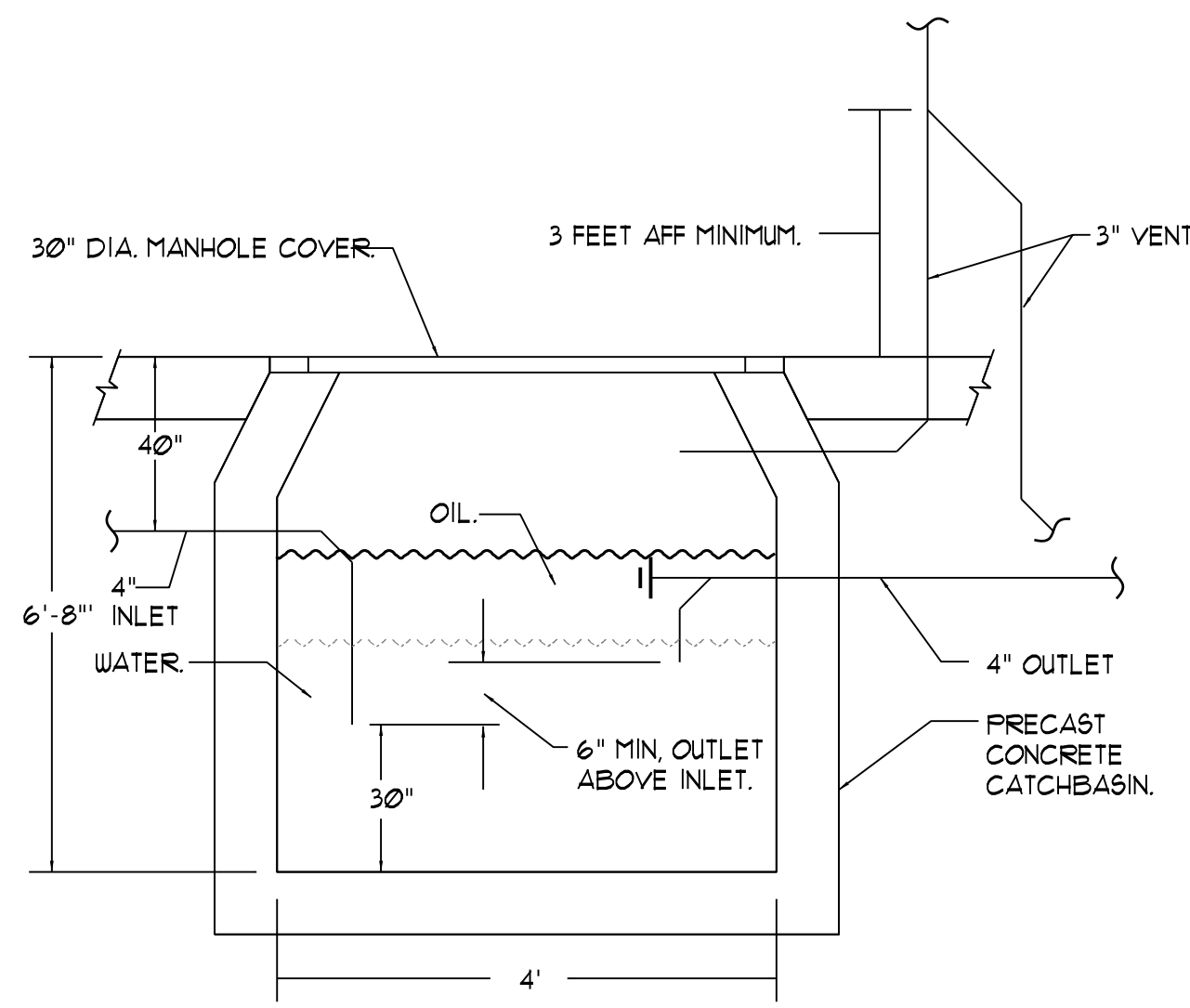
TYPICAL LAVATORY WITH 3/4" AC CONDENSATE CONNECTION DETAIL
NTS

PLUMBING FIXTURE CONNECTION SCHEDULE

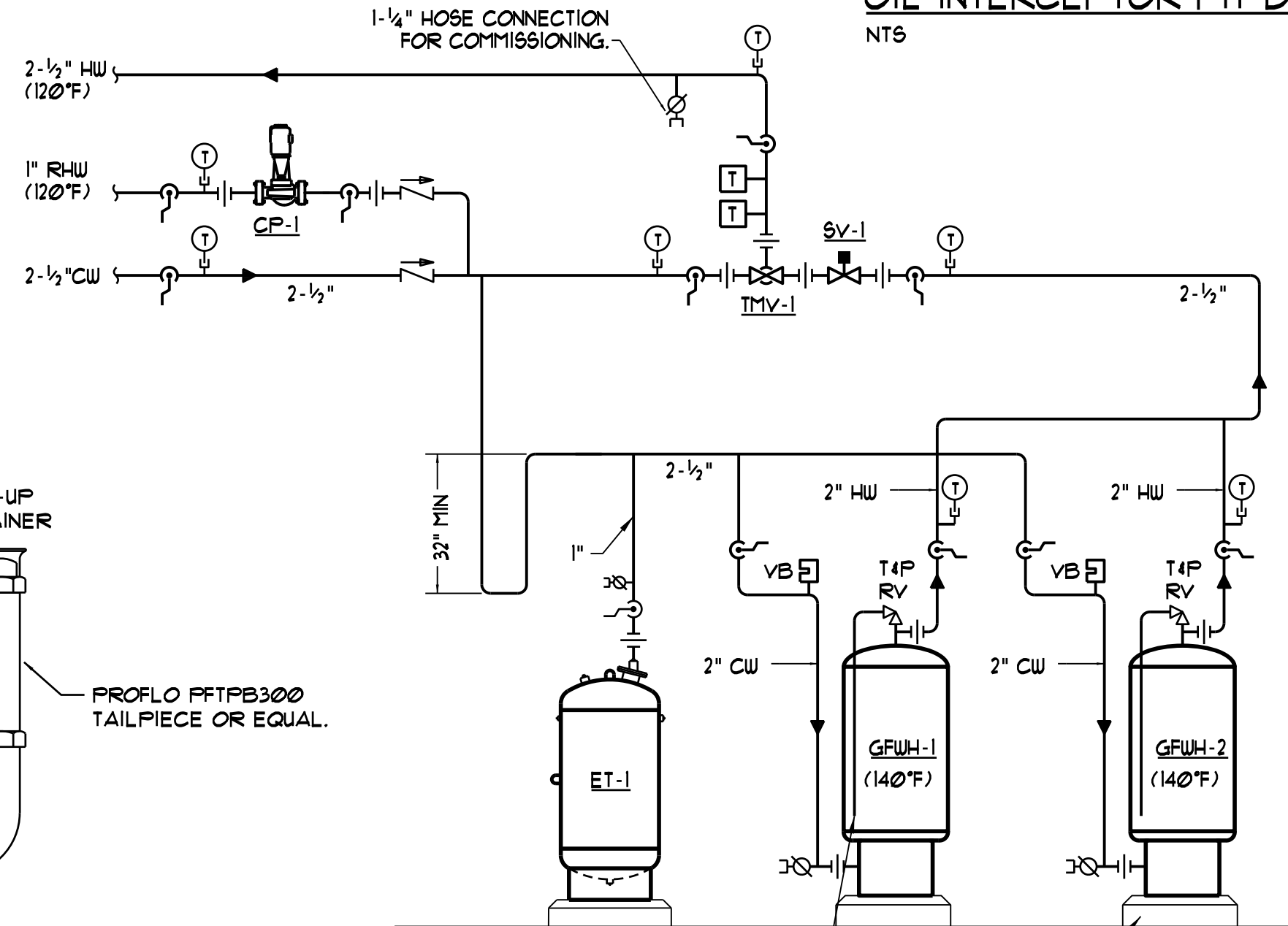
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-2	LAVATORY	2"	1-1/2"	1/2"	1/2"
P-3	TUB/SHOWER	2"	1-1/2"	1/2"	1/2"
P-3A	SHOWER	2"	1-1/2"	1/2"	1/2"
P-4	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"
P-5	WASHING MACHINE HOOK-UP**	2"	1-1/2"	1/2"	1/2"
P-6	ICE MAKER CONNECTION	-	-	1/2"	-
FD	FLOOR DRAIN (W/ TRAP PRIMER)	3"	2"	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2". ALL FLOOR DRAINS SHALL BE CONNECTED TO TRAP PRIMER FED FROM NEAREST FIXTURE.

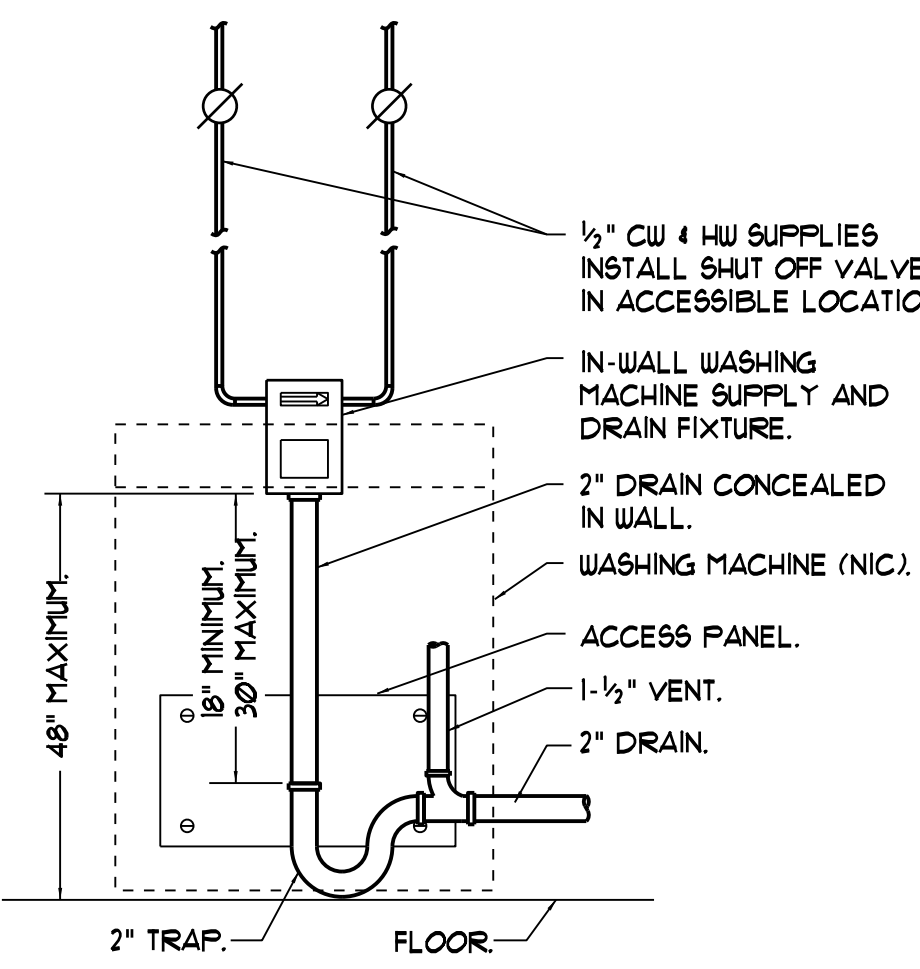
- * - PROVIDE DISHWASHER CONNECTIONS (SUPPLY AND DRAIN) AT KITCHEN SINKS (P-4) IN ALL UNITS
- ** - PROVIDE WASHING MACHINE DRAIN PANS AT ALL WASHING MACHINES.



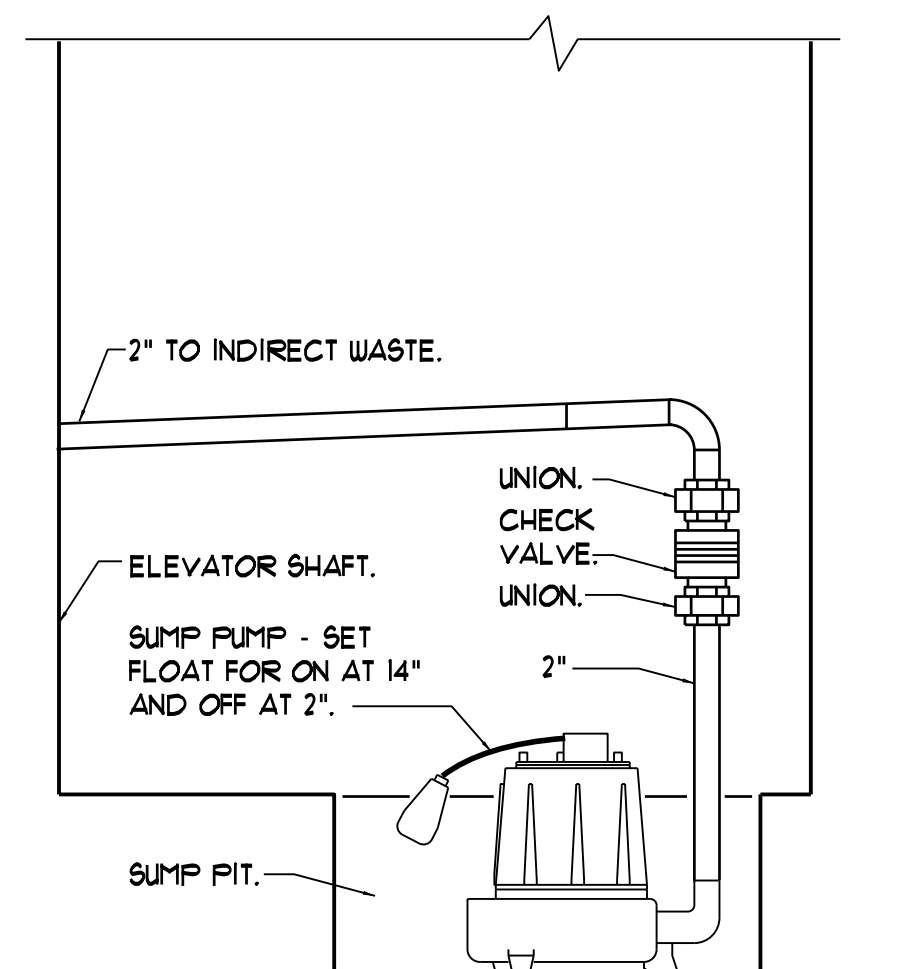
OIL INTERCEPTOR PIT DETAIL
NTS



DOMESTIC HOT WATER PIPING SCHEMATIC
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WASHING MACHINE HOOK-UP DETAIL
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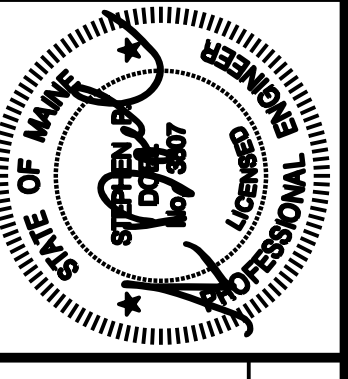


ELEVATOR SUMP PUMP PIPING DETAIL
NTS

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	BV	BALL VALVE	TSTAT	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	B-*	BOILER TAG	EUB	ENTERING WET BULB	LB	POUNDS	RPZ	REDUCED PRESSURE ZONE
C	CONDENSATE DRAIN PIPING (C)	BV	BALL VALVE	MANUAL AIR VENT	BD-*	BYPASS DAMPER TAG	EUB-*	ELECTRIC WATER HEATER TAG	LD-*	LINEAR DIFFUSER TAG	RR-*	RETURN REGISTER TAG	
CTR	COOLING TOWER RETURN PIPING (CTR)	3/4" BV	3/4" BALL VALVE WITH 3/4" HOSE END	NOTE TAG (NUMBER)	BFP-*	BACKFLOW PREVENTER TAG	EUT	ENTERING WATER TEMPERATURE	LTHWS/R	LOW TEMPERATURE HOT WATER	RTU	ROOM TEMPERATURE SENSOR	
CTRS	COOLING TOWER SUPPLY PIPING (CTRS)	GV	GATE VALVE	AIR DEVICE TAG (LETTER) WITH CR#	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS	RV	RELIEF VALVE	
CWR	CHILLED WATER RETURN PIPING (CWR)	PRV	PRESSURE REDUCING VALVE	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LWCO	LOW WATER CUTOUT	RUL	RAINWATER LEADER	
CWS	CHILLED WATER SUPPLY PIPING (CWS)	FV	FUSIBLE VALVE	TURNING VANES	CB	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LWT	LEAVING WATER TEMPERATURE	SA	SUPPLY AIR	
FOR	FUEL OIL RETURN PIPING (FOR)	W/BV	W/BLowDOWN BALL VALVE	DUCT W/MANUAL DAMPER	CC-*	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SAN	SANITARY (DRAIN & WASTE)	
FOS	FUEL OIL SUPPLY PIPING (FOS)	2-WAY CV	2-WAY CONTROL VALVE	DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR	SD	SMOKE DAMPER	
G	GAS PIPING (G)	3-WAY CV	3-WAY CONTROL VALVE	LAGGED DUCT	CHLR-*	CHILLER TAG	FD-*	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY	SEER	SEASONAL ENERGY EFFICIENCY RATIO	
HWR	HOT WATER RETURN PIPING (HWR)	4-WAY CV	4-WAY CONTROL VALVE (TOP VIEW)	DUCT W/ACOUSTIC LINING	CO	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM	SF	SUPPLY FAN	
HWS	HOT WATER SUPPLY PIPING (HWS)	2-BV	2 BUTTERFLY VALVES W/SINGLE ACTUATOR	DUCT W/SQUARE-TO-ROUND TRANSITION	CONV-*	CONVECTOR TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION	SG-*	SUPPLY GRILLE TAG	
RL	REFRIGERANT LIQUID PIPING (RL)	BV	BUTTERFLY VALVE W/ACTUATOR	FLEXIBLE DUCT	CUH-*	CABINET UNIT HEATER TAG	FOS	FUEL OIL SUPPLY	NIC	NOT IN CONTRACT	SP	STATIC PRESSURE	
RG	REFRIGERANT GAS PIPING (RG)	3-WAY CV	3-WAY CONTROL VALVE (TOP VIEW)	MOTOR OPERATED DAMPER	CP-*	CIRCULATING PUMP TAG	FPFB	FROST PROOF HOSE BIBBS	NTS	NOT TO SCALE	SP-*	SUMP PUMP TAG	
SAN-B	SANITARY PIPING BELOW FLOOR (SAN)	4-WAY CV	4-WAY CONTROL VALVE (TOP VIEW)	AIRFLOW OUT	CT-*	COOLING TOWER TAG	FFM	FEET PER MINUTE	OA	OUTSIDE AIR	SR-*	SUPPLY REGISTER TAG	
SAN-T	SANITARY PIPING ABOVE FLOOR (SAN)	3-WAY CV	3-WAY CONTROL VALVE (TOP VIEW)	AIRFLOW IN	CV	VALVE COEFFICIENT	FS-*	FLOOR SINK TAG	OBD	OPPOSED BLADE DAMPER	SOFT	SQUARE FEET	
SAN-V	SANITARY VENT PIPING	TRV	TRIPLE-DUTY VALVE	DIAMETER OR FLAT OVAL	CW	COLD WATER	FT	FEET	O.D.	OUTSIDE DIAMETER	TD	TEMPERATURE DIFFERENTIAL	
RUL	RAINWATER LEADER ABOVE SLAB (RUL)	U	UNION	FIRE DAMPER	CHWS/R	CHILLED WATER SUPPLY AND RETURN	FTR-*	FINTUBE RADIATION TAG	OED	OPEN ENDED DUCT	TEMP.	TEMPERATURE	
CW	COLD WATER PIPING (CW)	PF	PIPE FLANGE	ROUND OR FLAT OVAL DUCT DOWN	DB	DRY BULB	GA	GAGE	OFRL	OVERFLOW RAINWATER LEADER	TCP	TEMPERATURE CONTROL PANEL	
HW	HOT WATER PIPING (HW)	PF	PIPE FLANGE	ROUND OR FLAT OVAL DUCT UP	dB RE	DECIBELS RELATIVE TO DOUBLE CHECK	GAL	GALLONS	OFWH	OIL FIRED WATER HEATER TAG	TMV-*	THERMOSTATIC MIXING VALVE TAG	
RHW	RECIRCULATED HOT WATER PIPING (RHW)	PF	PIPE FLANGE	SUPPLY DIFFUSER	DCA	DOUBLE CHECK ATMOSPHERIC	GPH	GALLONS PER HOUR	OFWR	OVERFLOW ROOF DRAIN	TSP	TOTAL STATIC PRESSURE	
PC	PIPE CAP	PF	PIPE FLANGE	RETURN GRILLE	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	OPD	OVERCURRENT PROTECTIVE DEVICE	TYP	TYPICAL	
DF	DIRECTION OF FLUID FLOW	PF	PIPE FLANGE	STEAM TRAP	DIA	DIAMETER	GPM	GALLONS PER MINUTE	P-*	PLUMBING FIXTURE TAG	UH-*	UNIT HEATER TAG	
EU	ELBOW UP	PF	PIPE FLANGE	WATER HAMMER ARRESTOR	DN	DOWN	GUH-*	GAS UNIT HEATER TAG	PENETN	PENETRATION	UNO	UNLESS NOTED OTHERWISE	
ED	ELBOW DOWN	PF	PIPE FLANGE		EA	EXHAUST AIR	HC-*	HEATING COIL TAG	FF-*	PADDLE FAN TAG	VAV-*	VARIABLE AIR VOLUME BOX TAG	
TT	PIPE TEE UP	PF	PIPE FLANGE		EAT	ENTERING AIR TEMPERATURE	HP	HORSEPOWER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VB	VACUUM BREAKER	
TD	PIPE TEE DOWN	PF	PIPE FLANGE		EAT	ENTERING AIR TEMPERATURE	HRV-*	HEAT RECOVERY VENTILATOR TAG	PSIG	POUNDS PER SQUARE INCH GAGE	VFD	VARIABLE FREQUENCY INVERTER DRIVE	
PR	PIPE REDUCER	PF	PIPE FLANGE		EDB	ENTERING DRY BULB	HWS	HOT WATER	PVC	POLYVINYL CHLORIDE (PIPE)	VTR	VENT THRU ROOF	
PG	PIPE WITH GUIDE	PF	PIPE FLANGE		EDC-*	ELECTRIC DUCT COIL TAG	HWS/R	HOT WATER SUPPLY AND RETURN	RA	RETURN AIR	V/PH/Hz	VOLTS/PHASES/HERTZ	
PA	PIPE WITH ANCHOR	PF	PIPE FLANGE		EER	ENERGY EFFICIENCY RATIO	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RD	ROOF DRAIN	W	WET BULB	
BV	BUTTERFLY VALVE	PF	PIPE FLANGE		EEF	EXHAUST FAN TAG	IFHM-*	INDIRECT FIRED WATER HEATER TAG	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	WCO	WALL CLEANOUT	
O3 Y	O3 Y GATE VALVE	PF	PIPE FLANGE		EF-*	EFFICIENCY	IN	INCHES	RFM-*	RADIANT FLOOR MANIFOLD TAG	UG	WATER GAGE	
BVP	BACKFLOW PREVENTER (BFP)	PF	PIPE FLANGE		EG-*	EXHAUST GRILLE TAG	IV-*	INTAKE VENT TAG	RG-*	RETURN GRILLE TAG	WPD	WATER PRESSURE DROP	
CV	CHECK VALVE	PF	PIPE FLANGE		ER-*	EXHAUST REGISTER TAG	L-*	LOUVER TAG	RHW	RECIRCULATED HOT WATER	WSA	WIRE SIZING AMPS	
AV	BALANCING VALVE (ADJUSTABLE)	PF	PIPE FLANGE		ESP	EXTERNAL STATIC PRESSURE	LAT	LEAVING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS	WTD	WATER TEMPERATURE DROP	
AV	AUTOMATIC FLOW CONTROL VALVE	PF	PIPE FLANGE		ET-*	EXPANSION TANK TAG			RPM	REVOLUTIONS PER MINUTE	W	WITH	
RV	RELIEF VALVE (RV)	PF	PIPE FLANGE						RPS	REVOLUTIONS PER SECOND	ZD-*	ZONE DAMPER TAG	



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