

GENERAL PLUMBING NOTES

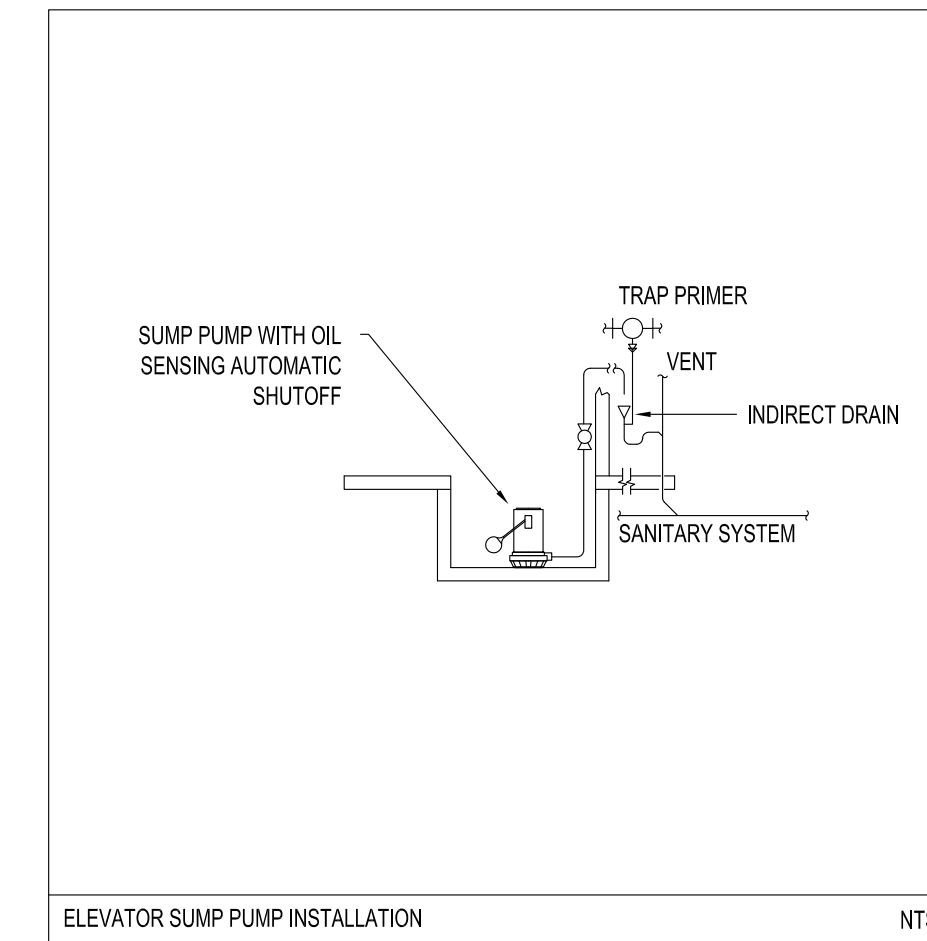
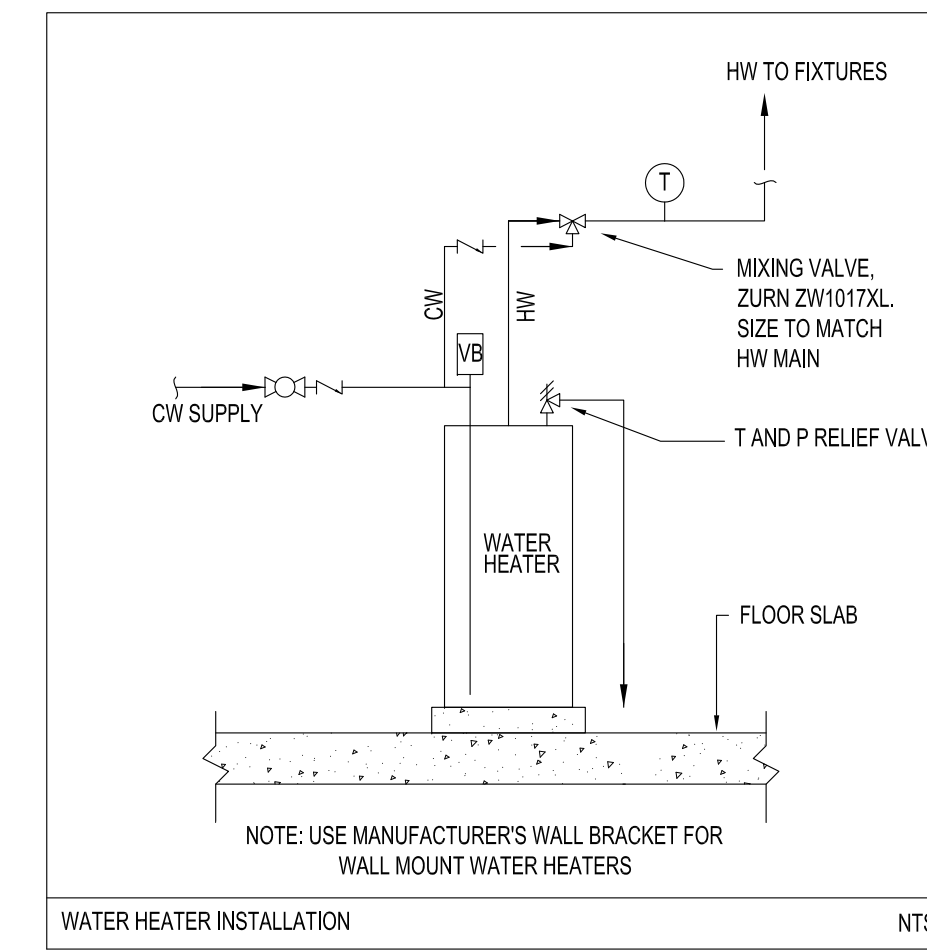
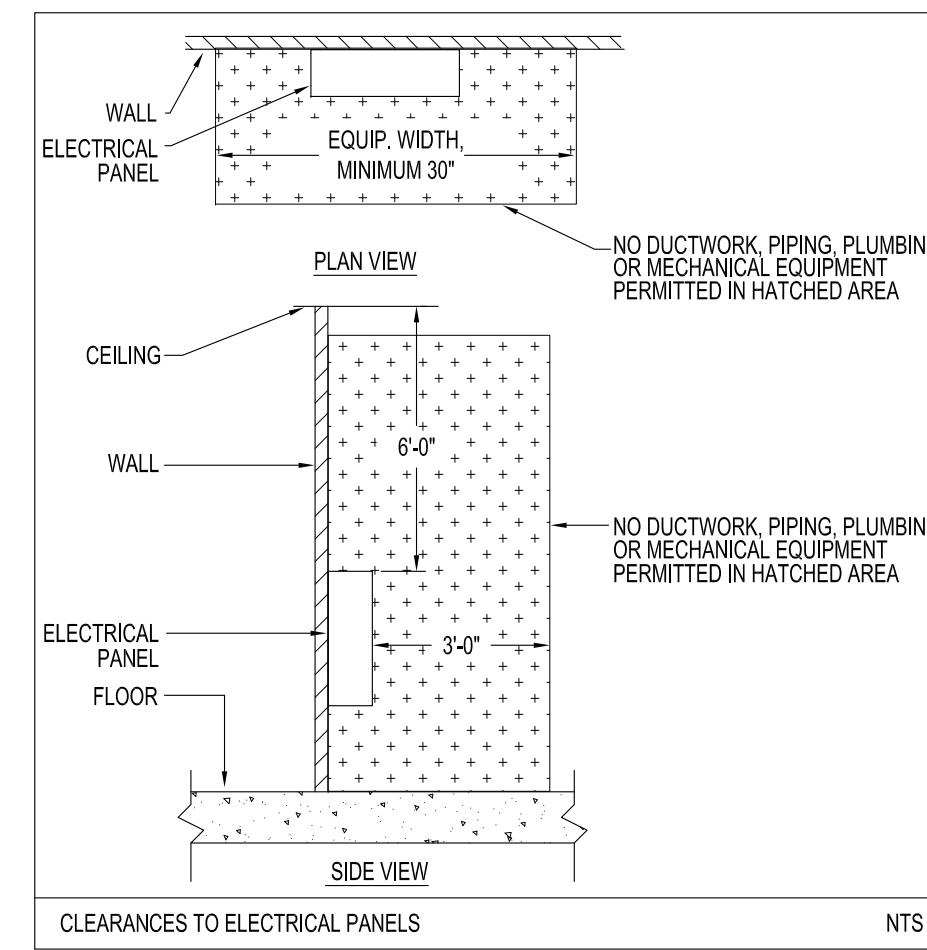
- ALL NOTES, ABBREVIATIONS AND SYMBOLS ON THIS DRAWING APPLY TO ALL THE PLUMBING DRAWINGS IN THIS PACKAGE.
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIAL, CONSTRUCTION, WORKMANSHIP, TESTING AND COMMISSIONING REQUIREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE SPECIFICATION AND PROJECT DRAWINGS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- ALL PLUMBING WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONTRACTORS PHASING PLAN
- ALL PLUMBING WORK TO BE DONE IN ACCORDANCE WITH THE MAINE STATE INTERNAL PLUMBING CODE -2009 EDITION AND ITS ADDENDUMS.
- MAINTAIN PLUMBING SERVICES TO SPACES OUTSIDE OF THE PROJECT SCOPE. COORDINATE TIMING AND DURATION WITH GENERAL CONTRACTOR AND BUILDING OWNER WHEN SYSTEM SHUTDOWNS ARE REQUIRED.
- INSTALL ALL PLUMBING EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICTS EXIST BETWEEN PROJECT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- CONFIRM ANY EQUIPMENT OR SYSTEMS TO BE REMOVED WITH THE OWNER BEFORE COMMENCING DEMOLITION
- DISPOSE OF REMOVED EQUIPMENT AND MATERIAL IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGE CAUSED BY THE PLUMBING CONTRACTOR TO ANY NEW OR EXISTING BUILDING SYSTEMS.
- COORDINATE NEW INSTALLATIONS WITH THE GENERAL CONTRACTOR, STRUCTURAL, ELECTRICAL AND ARCHITECTURAL DESIGN. CONSULT STRUCTURAL ENGINEER BEFORE ANY MODIFICATIONS TO STRUCTURAL MEMBERS.
- THE PLUMBING DRAWINGS ARE DIAGNOSTIC. THE EXACT LOCATION OF PLUMBING EQUIPMENT AND SYSTEMS IS TO BE DETERMINED BY THE PLUMBING CONTRACTOR.
- PROVIDE OFFSETS AS REQUIRED TO ROUTE PIPING AROUND OTHER BUILDING SYSTEMS AND EQUIPMENT.
- PROVIDE ROOT VALVES ON ALL BRANCHES OFF OF DOMESTIC WATER MAINS WHETHER INDICATED ON DRAWINGS OR NOT.
- MOST INTERIOR PARTITIONS ARE FULL HEIGHT. SEAL PENETRATIONS THROUGH PARTITIONS FOR SOUND. SEAL FIRE RATED PARTITIONS IN ACCORDANCE WITH UL APPROVED ASSEMBLY FOR THE ASSOCIATED FIRE RATING.
- TIE-IN LOCATIONS TO EXISTING SYSTEMS ARE APPROXIMATE. PLUMBING CONTRACTOR TO DETERMINE EXACT TIE-IN LOCATION.
- SEE DETAILS FOR TYPICAL INSTALLATIONS NOT SHOWN ON THE PLUMBING PLANS.
- INSULATE PIPING IN ACCORDANCE WITH SPECIFICATION 230711.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ELEVATIONS OF WALL MOUNTED FIXTURES.
- ALL PLUMBING PIPING IS TO BE CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS WHERE REQUIRED TO ACCESS VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS AND OTHER MAINTENANCE ITEMS.
- COORDINATE PLUMBING FLOOR, WALL AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
- INFILL AND PATCH EXISTING PLUMBING PENETRATIONS THAT ARE ABANDONED UNDER THIS PROJECT.
- CAP ALL ABANDONED TO REMAIN PLUMBING PIPING SYSTEMS. CAP ALL EXISTING PLUMBING PIPING SYSTEMS TO REMAIN IN USE.
- RUN ALL SANITARY AND STORM DRAIN PIPING AT 1/4" PER FOOT SLOPE.
- ALL BURIED SANITARY AND STORM DRAIN PIPING SHALL BE A MINIMUM OF 2" DIAMETER.
- SEE DRAWING M2.7 FOR ROOF DRAIN AND VENT LOCATIONS.

ABBREVIATIONS

AFF	ABOVE FLOOR FACE
BFF	BELOW FLOOR FACE
BTU	BRITISH THERMAL UNIT
BHP	BRAKE HORSEPOWER
CO	CLEAN OUT
COND	CONDENSATE
CW	DOMESTIC COLD WATER
DB	DRY BULB
F	DEGREE FAHRENHIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FPW	FIRE PROTECTION WATER
FS	FORCED SANITARY
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
MBH	1000 BTU PER HOUR
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PEX	CROSS LINKED POLYETHYLENE
RPZ	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
R	STORM DRAIN
RD	ROOF DRAIN
S	SANITARY
SP	STATIC PRESSURE
VTR	VENT THROUGH ROOF
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEAN OUT
WF	ANTI FREEZE, ANTI SIPHON WALL FAUCET
V	SANITARY VENT

SYMBOLS

	FLOOR CLEAN OUT
	FLOOR DRAIN
	ROOF DRAIN
	CLEAN OUT
	PIPE CONTINUES
	UNDERGROUND / UNDERSLAB PIPE
	CW PIPING
	HW PIPING
	SANITARY VENT PIPING
	SANITARY PIPING
	PIPE DROP
	PIPE RISER
	BALL VALVE
	PEX TUBING MANIFOLD
	GATE VALVE
	CHECK VALVE
	WATER HAMMER ARRESTOR
	TRAP PRIMER
	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
	RELIEF VALVE
	CIRCULATION PUMP
	Y - STRAINER
	VACUUM BREAKER
	THERMOMETER IN THERMOWELL
	PRESSURE GAUGE W/ PETCOCK
	ANTI FREEZE, ANTI SIPHON WALL FAUCET
	PIPE REDUCER / INCREASER
	TIE-IN TO EXISTING SYSTEM
	CAP
	LOCKABLE VALVE



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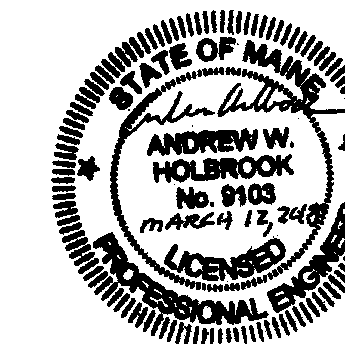
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CITY OF PORTLAND
DEPARTMENT
HEADQUARTERS:

-Parks, Recreation &
Facilities
-Public Works

RENOVATION PROJECT

212 Conco Road,
Portland



REVIEW SET

Scale: 1/8" = 1'-0"

PLUMBING NOTES,
LEGEND, ABBREVIATIONS
AND SCHEDULES

P1.0

March 12, 2018

TAG #	FIXTURE TYPE	CONNECTION SIZES				TYPICAL MANUFACTURER AND MODEL	DESCRIPTION	NOTES
		CW	HW	S	V			
P-1	ADA TOILET	1 1/4"	-	4"	2"	ZURN Z5615-BHL, Z8000A-VHS1, Z120X-A CARRIER, Z5968S-EL SEAT	WALL MOUNT, MANUAL 1.6 GPF FLUSH VALVE, WHITE VITREOUS CHINA, 500 LB CARRIER, ELONGATED OPEN FRONT SEAT, NO COVER, STAINLESS STEEL HINGES	3
P-2	ADA LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	ZURN Z554 WITH ZURN Z1443-XL-84-FC FAUCET	ADA COMPLIANT, WALL MOUNT, VITREOUS CHINA WITH BACK SPLASH, WALL PLATE, SINGLE LEVER FAUCET, OFFSET TRAP, ADA INSULATION ON EXPOSED TRAPS AND HW SUPPLY	1,3
P-3	URINAL	3/4"	-	1 1/2"	1 1/2"	ZURN Z5755 URINAL, ZURN Z603AV-EVIS FLUSHMETER, ZURN Z1221 CARRIER	ADA COMPLIANT, WALL MOUNT, VITREOUS CHINA, 0.5 GPF, MANUAL FLUSHMETER, WALL CARRIER	3
P-4	MOP SINK	1/2"	1/2"	2"	2"	FIAT MSB 2424 WITH ZURN 843M-XL-CS	24"X24", JANITORS FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK STOPS	3
P-5	WALL HYDRANT	3/4"	-	-	-	ZURN 1321-XL	ANTI SIPHON, NON FREEZE, KEVED HANDLE, FLUSH MOUNT WALL HYDRANT, 12" WALL	3
P-6	ADA KITCHEN SINK	1/2"	1/2"	2"	1 1/2"	ELKAY GE02521 WITH ZURN 62300-XL	ADA COMPLIANT, 20 GAUGE STAINLESS STEEL, 25.1X21" W, CHROME PLATED BRASS SINGLE LEVER FAUCET, SINGLE HOLE, BASKET STRAINER, OFFSET TRAP, ADA INSULATION ON TRAP AND HW SUPPLY	1,2,3
P-7	ADA TRANSFER SHOWER	1/2"	1/2"	2"	1 1/2"	FREEDOM APF3638FAP-5 WITH ZURN Z1000-HW12, ZURN Z1300-SS-MT	ADA COMPLIANT, TRANSFER SHOWER STALL WITH GRAB BARS, BENCH, ROD AND CURTAIN AND PERFORATED SHOWER DRAIN, SHOWER VALVE, SPRAY, HOSE AND SLIDE BAR	3
P-8	ADA BOTTLE FILLER, COOLER, FOUNTAIN	1/2"	-	2"	1 1/2"	ELKAY EZ3TL6VSLK	ADA COMPLIANT, WATER CHILLER, BOTTLE FILLER AND BI LEVEL FOUNTAIN, NON-FILTERED, 8 GPM, 360W, 120VAC	3
FCO	FLOOR CLEAN OUT	-	--	-	-	ZURN ZN1400-BZ	ADJUSTABLE, NICKEL BRONZE TOP PLATE, SIZE TO MATCH SANITARY LINE	3
FD-1	FLOOR DRAIN	-	--	2"	2"	ZURN FD2322	BRONZE GRATE, PROVIDE WITH TRAP PRIMER	3
RD-1	ROOF DRAIN	-	--	3"	-	ZURN ZC100	15" COATED CAST IRON BODY AND DOME, MEMBRANE CLAMP	3
TP	TRAP PRIMER	-	--	1/2"	-	ZURN Z1022XL	IN LINE FLOW ACTIVATED	3
WCO	WALL CLEAN OUT	-	-	-	-	-	PVC DWV TEE WITH THREADED PLUG AND STAINLESS STEEL COVER PLATE	3
TMXV	THERMOSTATIC MIX VLV	1/2"	1/2"	-	-	ZURN ZW1070XL	POINT OF USE THERMOSTATIC MIXING VALVE, 0.35 TO 4.0 GPM FLOW RATE	3
WHA	WTR HAMMER ARRESTOR	3/4"	-	-	-	ZURN Z260XL-B	WATER HAMMER ARRESTOR FOR UP TO 32 FIXTURE UNITS	3

- NOTES:
1. PROVIDE WITH SWEAT CONNECTED CHROME PLATED QUARTER TURN ANGLE STOPS, BRAIDED STAINLESS STEEL HOSE RISER, CHROME PLATED ESCUTCHEON STOPS.
2. PROVIDE WITH BASKET STRAINER, CHROME PLATED TAIL PIECE, P-TRAP AND ESCUTCHEON PLATE
3. TYPICAL MANUFACTURER AND MODEL ARE FOR REFERENCE ONLY. APPROVED EQUIVALENT PRODUCTS ARE ALSO ACCEPTABLE.

DOMESTIC WATER HEATER										
TAG #	TYPE	LOCATION	STORAGE CAPACITY GALLONS	1ST HOUR RATING GALLONS	R VALUE	ELEMENT WATTAGE	TOTAL KW	VOLTAGE / PHASE	TYPICAL MANUFACTURER AND MODEL	NOTES
DWH-1	ELECTRIC	PUMP RM	20	-	-	4500	4.5	230/1	STATE ENG 30 DONT	NEW
DWH-2	ELECTRIC	2ND FLOOR MECHANICAL RM	6	-	-	3000	3.0	230/1	STATE PCB 10MSA	NEW
DWH-3	-	NOT USED	-	-	-	-	-	-	-	-
DWH-4	ELECTRIC	WR ENTRY CLOSET	6	-	-	3000	3.0	240/1	STATE PCB 10MSA	NEW

NOTES: MANUFACTURER AND MODEL ARE BASIS OF DESIGN. APPROVED EQUIVALENTS ARE ACCEPTABLE.

PLUMBING PUMPS							
TAG	GPM	HEAD (FT W.C.)	MOTOR H.P.	RPM	SIZE	MANUFACTURER AND MODEL	NOTES
SP-1	50	15	1/2	3450	1 1/2"	LITTLE GIANT MODEL OS3-10E-2	1

NOTES:
1. ELEVATOR SUMP PUMP WITH OIL SENSING CONTROLLER

STATE FIRE MARSHAL REVIEW
03/12/2018