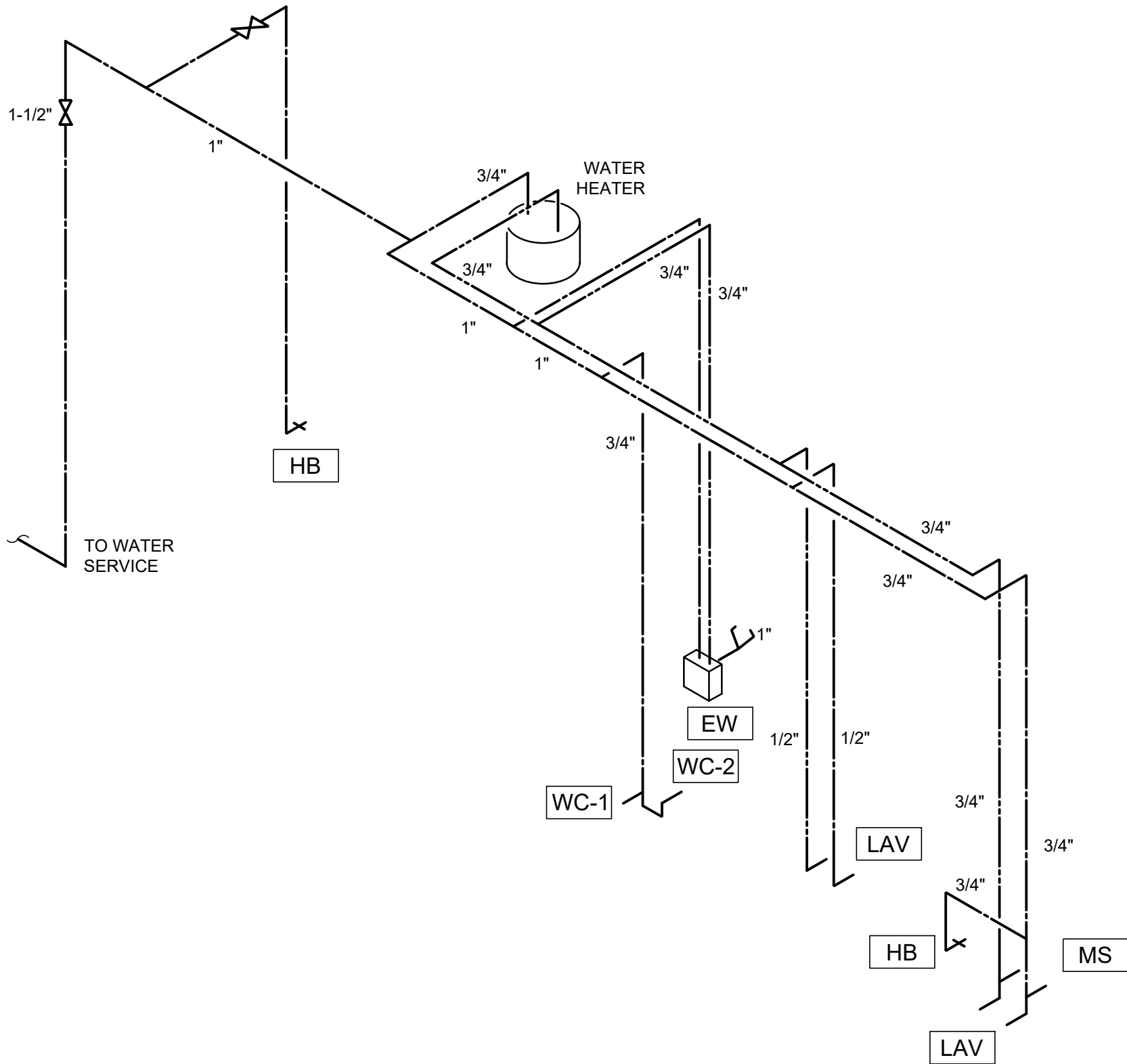


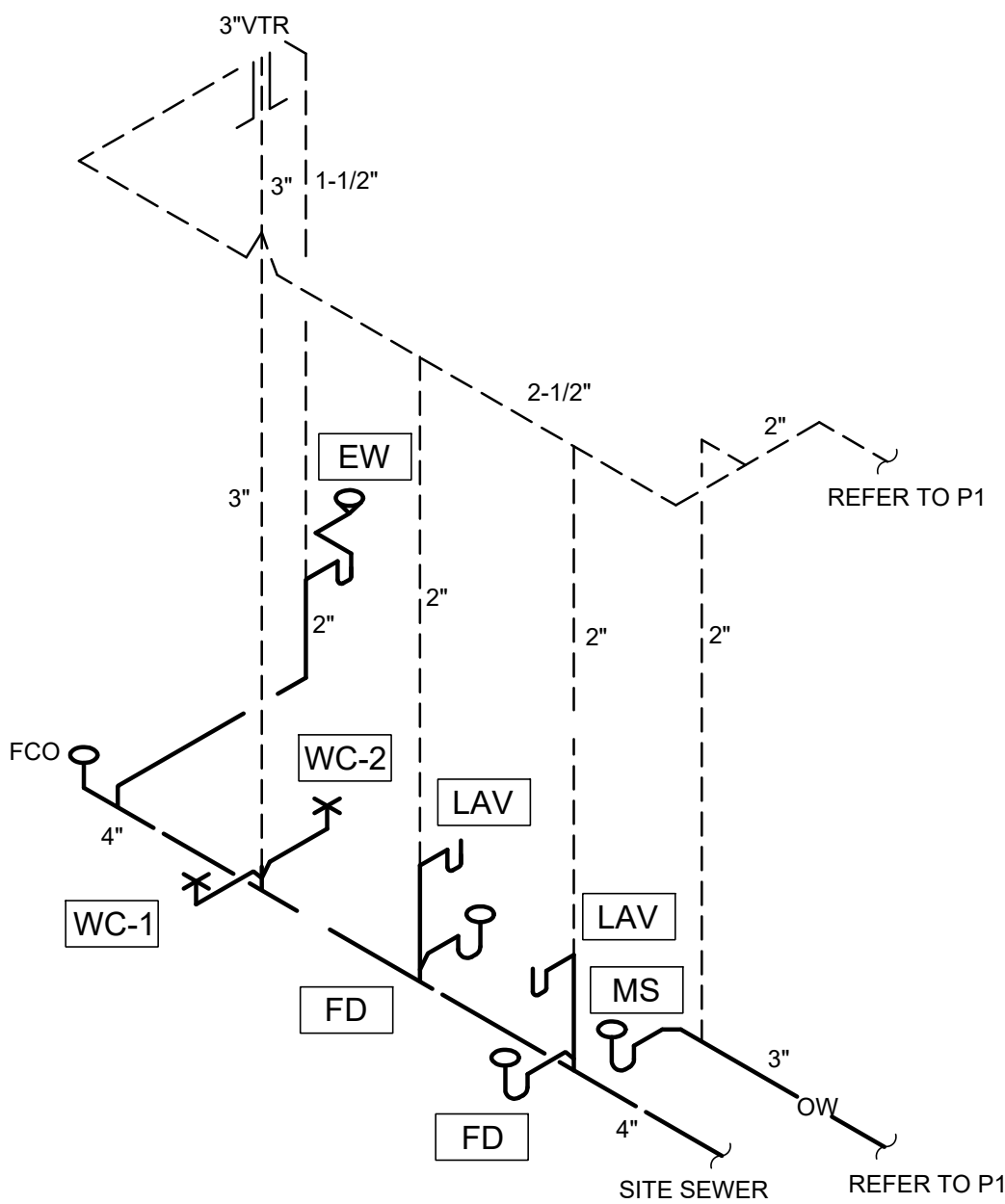
EMERGENCY EYE WASH - WATER CALCULATIONS
PER ANSI Z358.1, AN EMERGENCY EYE WASH MUST DELIVER 0.4 GPM OF "TEPID" WATER FOR 15 MINUTES.  (0.4 GPM) X (15 MINS) = 6 GALLONS OF TEPID WATER REQUIRED.  TEPID WATER IS DEFINED AS BEING BETWEEN 60°F & 100°F  THIS DESIGN HAS A NEW 10 GALLON CAPACITY STORAGE WATER TANK FOR THE BUILDING AND THIS ALSO SERVES THE EMERGENCY FIXTURE VIA AN EMERGENCY THERMOSTATIC MIXING VALVE.  THE STORED WATER IS AT 120°F. ASSUMED COLD WATER TEMP IS 45°F. DESIRED "TEPID" WATER IS 75°.  FOR A TEPID WATER OUTPUT OF 75°F, GIVEN THE CONDITIONS ABOVE, THE PERCENTAGE OS 120°F HOT WATER REQUIRED IS:  HW % REQUIRED = (TEPID WATER - COLD WATER)/(HOT WATER - COLD WATER) = (75 - 45)/(120 - 45) = (30)/(75) = 0.4  THEREFORE 40% OF THE WATER MUST BE HOT WATER.  (0.4) X (6 GALLONS) - 2.4 GALLONS OF HOT WATER REQUIRED.  10 GALLONS OF 120°F HOT WATER PROVIDED VIA NEW WATER HEATER.
HOT WATER RE-CIRCULATION NOTES
A HOT WATER RE-CIRCULATION LOOP AND PUMP IS NOT REQUIRED IN THIS PROJECT AS THE DEVELOPED LENGTH OF HOT WATER PIPING FROM THE WATER HEATER TO THE FURTHEST FIXTURE (SINK IN UNISEX RESTROOM) DOES NOT EXCEED 50 FT, PER IPC 607.2
OIL/WATER SEPARATOR NOTES
THERE IS NO OIL/WATER SEPARATOR PROVIDED FOR THIS FACILITY AS THERE ARE NO OPEN DRAINS TO THE SANITARY SEWER LOCATED WITHIN THE SERVICE BAYS, THE CORPORATE POLICY FOR STRICKLAND OIL COMPANY IS TO CAPTURE AND RECLAIM ALL USED OIL IN SPECIFIC CONTAINERS FOR TRANSPORTATION OFF THE PREMISES BY AN OIL DISPOSAL COMPANY. ANY SPILLS WILL BE WIPED UP WITH RAGS.



## WATER

RISERS  
SCALE: NONE

PLUMBING FIXTURE CONNECTION SCHEDULE						
MARK	TYPE OF FIXTURE	WASTE	TRAP ARM	VENT	CW	HW
WC	WATER CLOSET	4"	3"	2"	3/4"	-
LAV	LAVATORY	2"	1 1/2"	1 1/2"	1/2"	1/2"
MS	MOP SINK	2"	2"	1 1/2"	1/2"	1/2"
FD	FLOOR DRAIN	2-4"	2-4"	1 1/2"	-	-
HB	HOSE BIB	-	-	-	3/4"	-
WSH	WASHING MACHINE	2"	2"	1 1/2"	3/4"	3/4"
GT	GREASE INTERCPT					
PLUMBING FIXTURE UNIT COUNT						
MARK	TYPE OF FIXTURE	QTY.	F.U. EA FIXTURE		F.U. WATER	
			WASTE	WATER	WASTE	WATER
WC	WATER CLOSET	2	4	5	8	10
LAV	LAVATORY	2	1	2	2	4
MS	MOP SINK	1	2	3	2	3
FD	FLOOR DRAIN	3	2	-	6	-
					18	17
PLUMBING PIPE SCHEDULE						
SYSTEM			SERVICE			
WATER LINE BELOW GRADE			TYPE 'K' COPPER			
WATER LINE ABOVE GRADE			TYPE 'L' COPPER			
SANITARY SEWR BELOW GRADE			SCHEDULE 40 PVC			
SANITARY SEWER GRADE			SCHEDULE 40 PVC			
VENT PIPE BELOW GRADE			SCHEDULE 40 PVC			
VENT PIPE ABOVE GRADE			SCHEDULE 40 PVC			
GAS LINE PIPING			SCHEDULE 40 BLACK IRON			
GENERAL NOTES:						
1. PROVIDE SHUT-OFF VALVES FOR ALL WATER LINES AT PLUMBING FIXTURES & EQUIPMENT CONNECTIONS.						
2. MAXIMUM FLOW FROM A SINK OR LAVATORY FAUCET SHALL NOT EXCEED 2.2 GALLONS OF WATER PER/MIN.						
3. MAXIMUM FLOW OF WATER PER FLUSH FROM URINAL SHALL NOT EXCEED 1.0 GALLON AVERAGE PER FLUSH.						
4. MAXIMUM FLOW OF WATER PER FLUSH FROM TOILET SHALL NOT EXCEED 1.28 GALLONS PER FLUSH.						



## SANITARY

PLUMBING FIXTURE SCHEDULE			
MARK	MANUFACTURER	MODEL	DESCRIPTION
WC 1	ZURN	Z5561	ELONGATED 17" H, 12" ROUGH-IN FLOOR MOUNTED ELONGATED TANK TYPE WATER CLOSET. MANUAL 1.1 GPF PRESSURE ASSISTED TANK TYPE FLUSH LEVER HANDLE SHALL BE ON THE WIDE SIDE OF THE RESTROOM, (ADA COMPLIANT).
WC 2	ZURN	Z5571	ELONGATED 15" H, 12" ROUGH-IN FLOOR MOUNTED ELONGATED TANK TYPE WATER CLOSET. MANUAL 1.1 GPF PRESSURE ASSISTED TANK TYPE FLUSH LEVER HANDLE SHALL BE ON SAME SIDE OF FIXTURE AS ADA TOILET ADJACENT. (STANDARD HEIGHT)
LAV	ZURN	Z5340 WITH ZURN Z81101-XL-G -HCT-3M	WALL HUNG LAV WITH MANUAL TWO HANDLE FAUCET FAUCET ON 4" CENTERS AND OPEN GRID STRAINER. PROVIDE WITH 0.5 GPM AERATOR. PROVIDE WITH WALL CARRIER AND SCALD GUARD COVERS ON TRAP AND SUPPLY LINES. HOT AND COLD FAUCET INDEXES AND STOP AND SUPPLY PROTECTORS (ADA COMPLIANT).
MS	FIAT	MSBIDTG2424	COMPLETE FIXTURE WITH FAUCET PACKAGE. CONFIRM ACCESSORIES WITH OWNER PRIOR TO PURCHASE.
FD	WATTS	FD-100-B	PROVIDE WITH TRAP PRIMER CONNECTION, SEDIMENT BUCKET, VANDAL PROOF SCREWS
WCO	J.R SMITH ZURN WADE	4532 ZN-1445 W-8560	WALL CLEAN-OUT. CAST IRON BRANCH CLEAN-OUT TEE WITH BRONZE COUNTERSUNK PLUG, ROUND STAINLESS STEEL ACCESS COVER.
GCO	JOSAM	56040	CAST IRON BRONZE PLUG GRADE CLEAN-OUT. PROVIDE 24" x 24" x 4" THICK CONCRETE PAD AT GRADE.
FCO	ZURN	CO2451-VP	PVC CLEANOUT, ABS PLUG, NICKEL VANDAL PROOF SECURED TOP
HB	WOODFORD	25	FREEZE PROOF, AUTOMATIC DRAINING WALL FAUCET WITH WHEEL HANDLE OPERATION AND 3/4" MALE HOSE THREAD NOZZLE. INSTALL AT 18" AFF.
MXV	LAWLER	TMM-1070	MECHANICAL POINT OF USE MIXING VALVE WITH 120° F CUT-OFF LIMIT. SET OUTLET TO 110° F
OT	J.R SMITH	8599-10-50	OIL INTERCEPTOR WITH INTEGRAL STORAGE COMPARTMENT - 10 GPM FLOW RATE CONFIRM IF STORAGE TANK IS REQUIRED.
WH	AO SMITH	PROMAX EJC-10	10 GAL TANK TYPE ELECTRIC WATER HEATER. ELEMENT WATTAGE SHALL BE RATED AT THE INDICATED VOLTAGE. COORDINATE ELECTRICAL WITH E.C. PROVIDE DRAIN PAN UNDER HEATER. DRAIN T&P TO DRAIN PAN, ROUTE DRAIN PAN DISCHARGE PER PLANS. PROVIDE WALL MOUNTED SUPPORT SHELF WITH INTEGRAL DRAIN PAN SIMILAR TO "HOLDRITE 40-SWHP-W". PROVIDE COMPLETE WITH EXPANSION TANK. SET HEATER OUTLET TO 120° F.
EW	BRADLEY	S19224B	ANSI Z358.1 COMPLIANT, ADA COMPLIANT WALL MOUNTED EMERGENCY EYE WASH STATION. MOUNT WITH BOTTOM OF BOWL AT 27-1/4" AFG. PROVIDE WITH ALL HARDWARE TO MOUNT TO WALL AND ROUGH IN THE WATER LINES. FIXTURE TO DRAIN TO SANITARY SEWER IN WALL. PADDLE ACTIVATED WATER FLOW WITH ANSI REQUIRED FLOW RATE. PROVIDE COMPLETE WITH MIXING VALVE.
TMV	BRADLEY	S19-2000 EFX8-R-B-SE	THERMOSTATIC MIXING VALVE FOR EMERGENCY FIXTURES TO MATCH EYE WASH STATION. PROVIDE COMPLETE WITH SURFACE MOUNTED BOX FOR THE WALL.
WHA	SIOUX CHIEF	650 SERIES	PISTON TYPE WATER HAMMER ARRESTOR, SIZE PER PDI RECOMMENDATIONS
REFER TO EQUIPMENT SCHEDULE FOR SINK MANUFACTURER & DESCRIPTIONS. FIXTURES PROVIDED & INSTALLED BY GENERAL CONTRACTOR. NOTE: FAUCETS & FITTINGS FOR ABOVE ARE TO BE PROVIDED BY AND INSTALLED BY GENERAL CONTRACTOR. NOTE: INSULATE HOT & COLD WATER SUPPLIES AND P-TRAP WITH TRUEBRO MODEL 102 INSULATION KIT.			

**CASE**  
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Revisions:

File Name: 21337  
Project No: 21337  
Date: 12/17/21  
Drawn By: PR  
Checked By: NH/DN

SHEET  
**P2.1**  
PLUMBING  
SCHEDULES  
AND RISER