

GENERAL PLUMBING NOTES

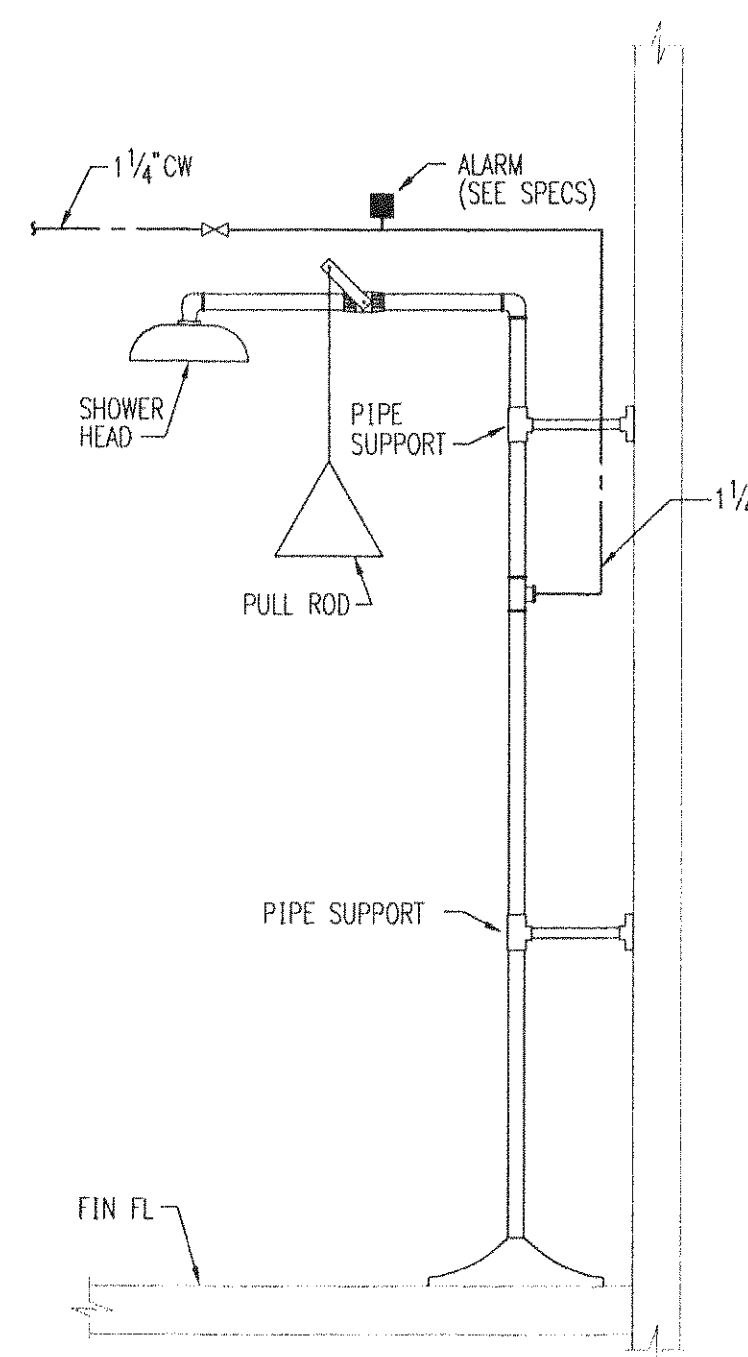
- SEE PLOT/SITE PLAN FOR THE EXTENT OF ALL PIPING LEAVING AND ENTERING BUILDING.
- SANITARY PIPING TO BE CAST IRON OR SCHEDULE 40 PVC TO AT LEAST 5'-0" BEYOND BUILDING WALL UNLESS INDICATED OTHERWISE.
- MAKE PROPER H & CW, W, V, ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
- CHECK WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.
- SLOPES AND INVERT ELEVATIONS OF SEWERS, MANHOLES, SEPTIC TANKS, ETC., SHALL BE ESTABLISHED AND VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
- COORDINATE THE LOCATION OF ALL PIPING WITH LIGHTING FIXTURES, DUCT, GRILLES, HEATING, PIPING, ETC..
- MAKE 1/2" CONNECTIONS TO TANK TYPE WC'S, 1/2"H & CW TO LAVS AND SHOWERS, 1/2"CW TO EWC'S AND 3/4"H & CW TO SERVICE SINKS.
- ALL CUTOFF VALVES, SHOCK ABSORBERS, ETC. SHALL BE ACCESSIBLE THROUGH AN ACCESS DOOR OR THROUGH LAY-IN CEILING. PROVIDE ACCESS DOOR WHERE REQUIRED.
- FURNISH DEEP SEAL P-TRAPS, ON ALL FLOOR DRAINS NOT EQUIPPED WITH A TRAP PRIMER.
- ALL VENTS THRU THE ROOF SHALL BE A MINIMUM OF 20'-0" AWAY FROM AC UNITS OR OTHER FRESH AIR INTAKES.

PLUMBING FIXTURE SCHEDULE

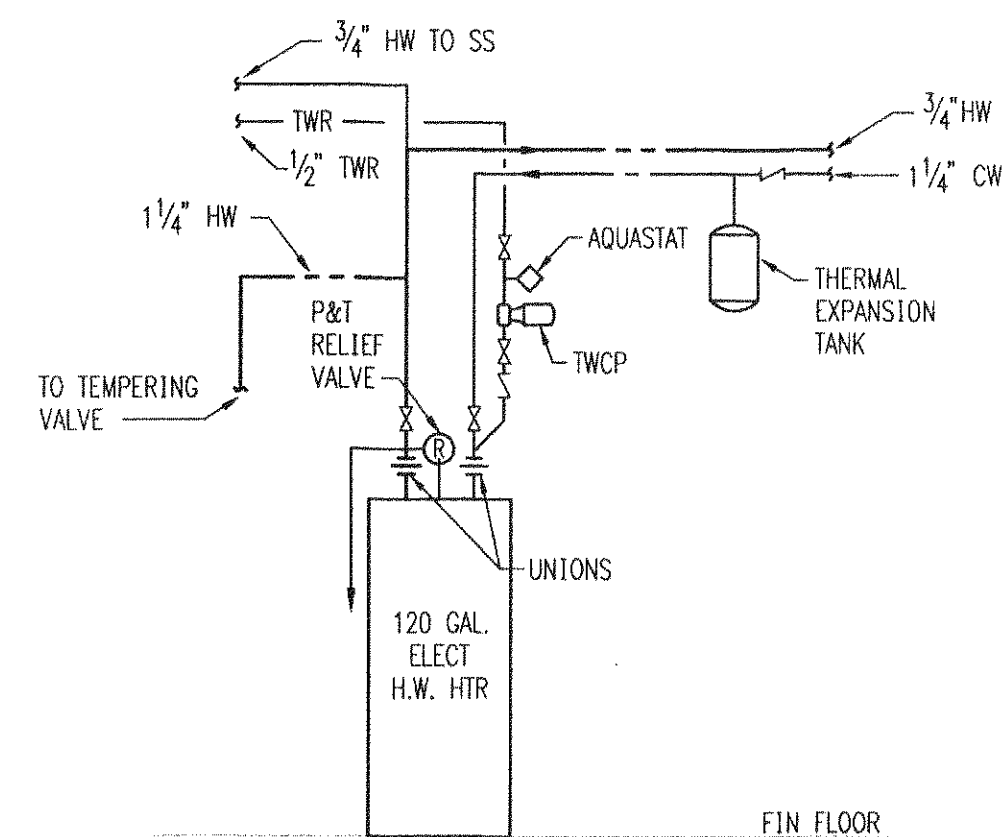
NAME	DESCRIPTION	MOUNTING HEIGHT
WC	VITREOUS CHINA, FLOOR MOUNTED WATER CLOSET, FLUSH VALVE, 1.6 GAL. PER FLUSH	16 1/2" FLOOR TO RIM
L	20"x18" VITREOUS CHINA LAVATORY	29" FLOOR TO BOTTOM OF APRON
SH	36"x36" SHOWER WITH BALANCED PRESSURE CONTROL VALVE	72" TO 9" OF SHOWER ARM MOUNTED 2'-0" ABV FIN GRADE
SC	FREEZE-PROOF SILLCOCK	MOUNTED 2'-4" FLOOR TO RIM
SS	SERVICE SINK	COUNTER MOUNTED

PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

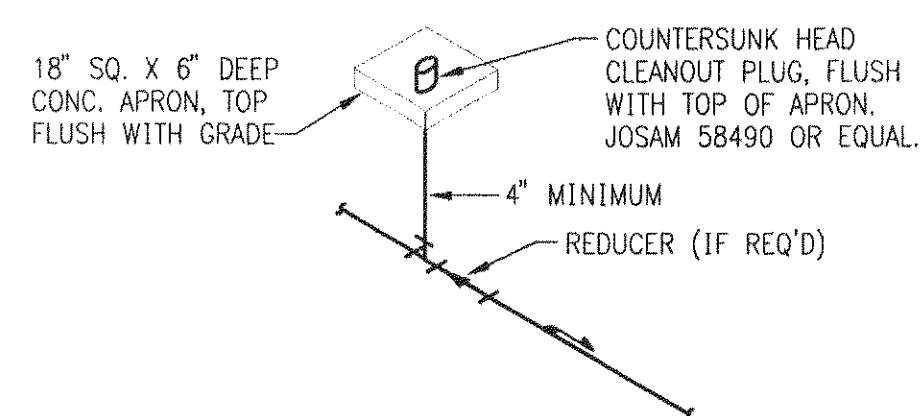
COLD WATER	
HOT WATER	
SANITARY SOIL & WASTE	
SANITARY VENT	
DIRECTION OF SLOPE DOWN	
DIRECTION OF FLOW	
CUTOFF VALVE (IN PLAN)	
CUTOFF VALVE (IN VERTICAL)	
SHOCK ABSORBER	
STRAINER	
TEPID WATER	
TEPID WATER RETURN	
BEL - BELOW	P & T - PRESSURE & TEMPERATURE RELIEF VALVE
CO - CLEAN-OUT	SA - SHOCK ABSORBER
CV - CUTOFF VALVE	SAN - SANITARY
CW - COLD WATER	SC - SILL COCK
EWC - ELECTRIC WATER COOLER	TW - TEPID WATER
FD - FLOOR DRAIN	V - VENT
HB - HOSE BIBB	VTR - VENT-THRU-ROOF
HW - HOT WATER	W - WASTE
L - LAVATORY	WC - WATER CLOSET
PRV - PRESSURE REDUCING VALVE	



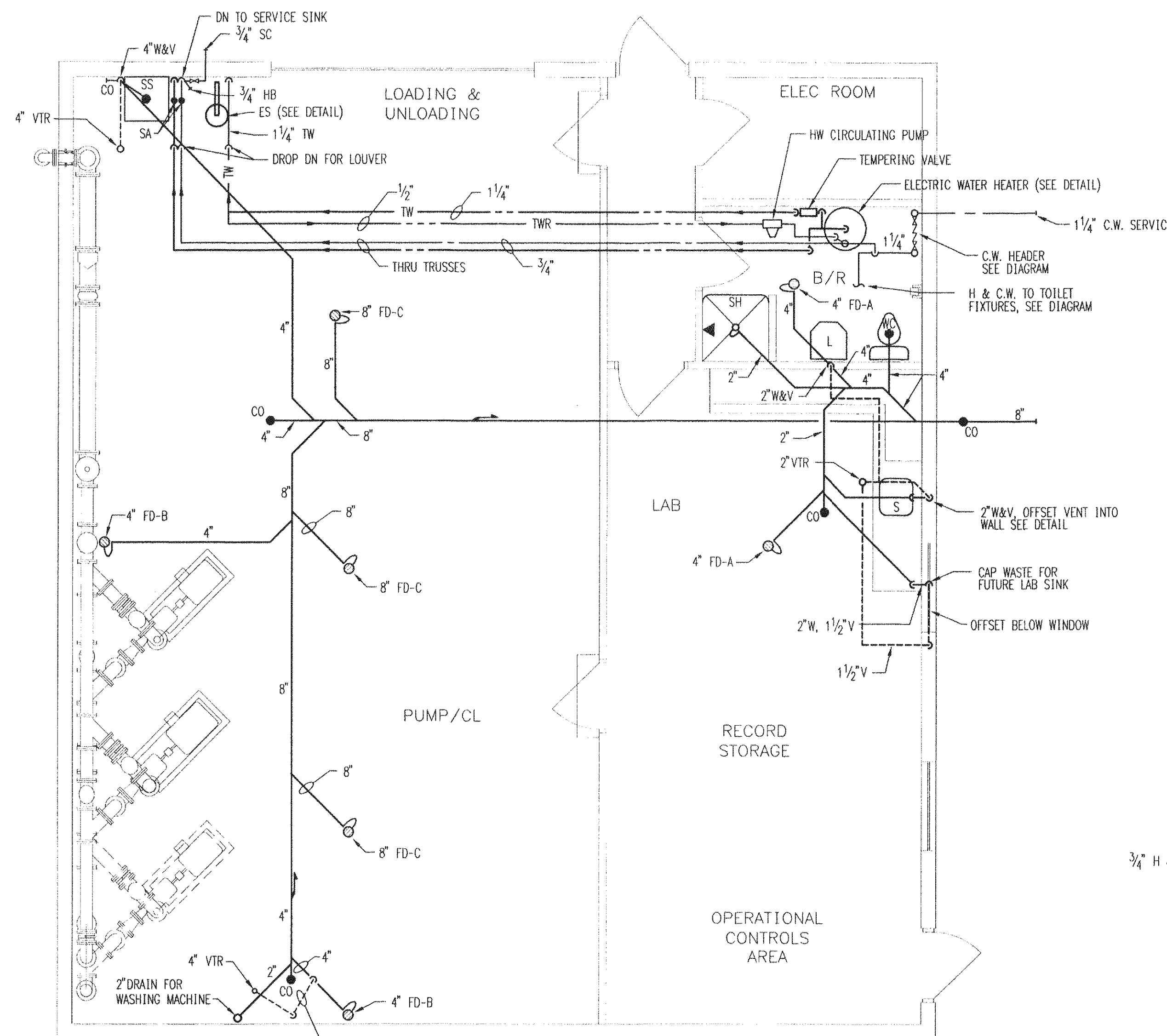
CONNECTIONS AT EMERGENCY SHOWER
NO SCALE



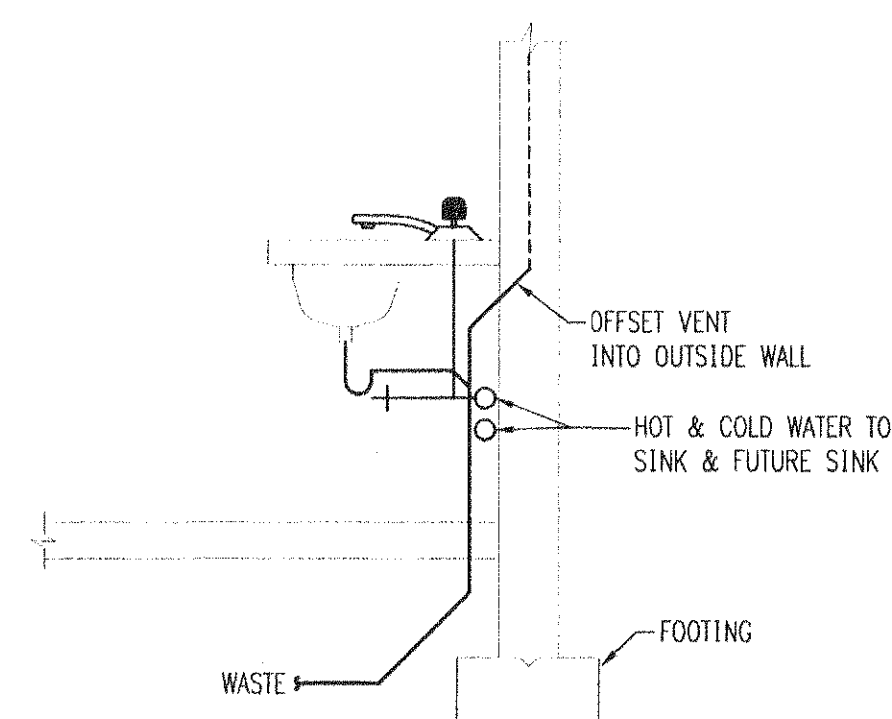
DETAIL OF CONNECTIONS TO ELECTRIC WATER HEATER
SCHEMATIC



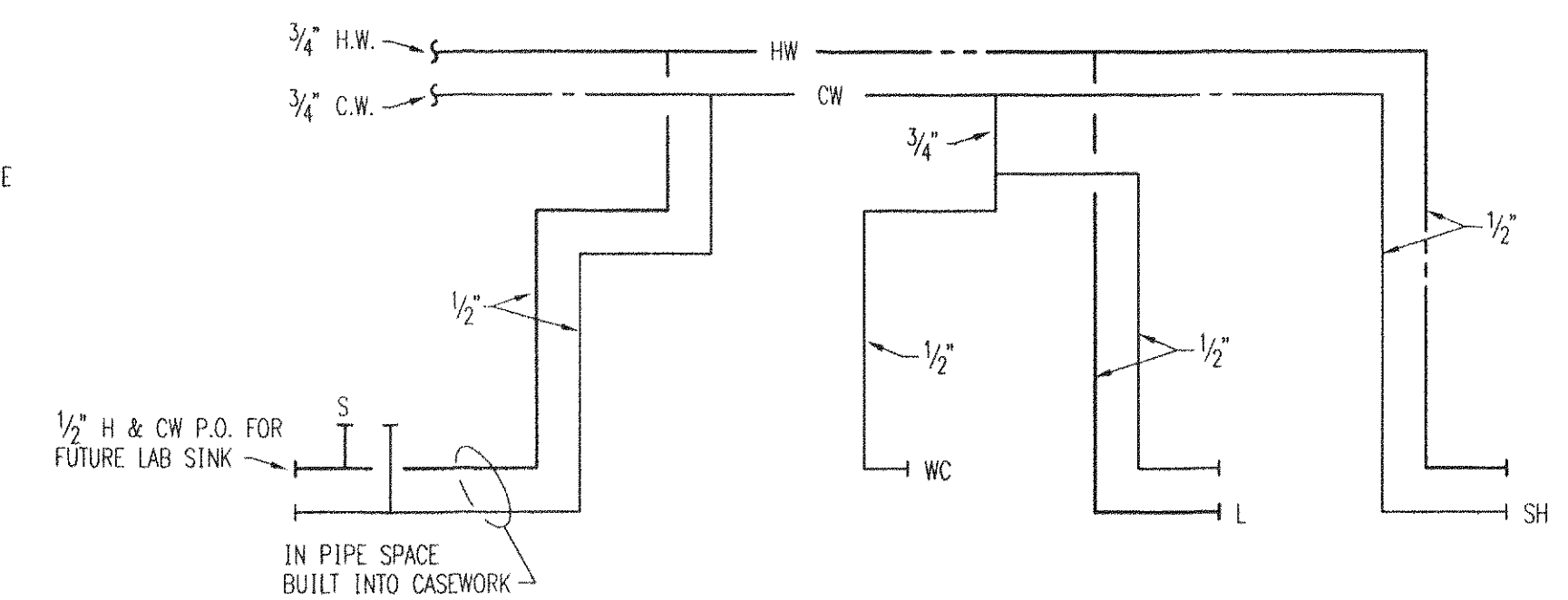
DETAIL OF CLEANOUTS IN OUTSIDE SANITARY SEWER
NO SCALE



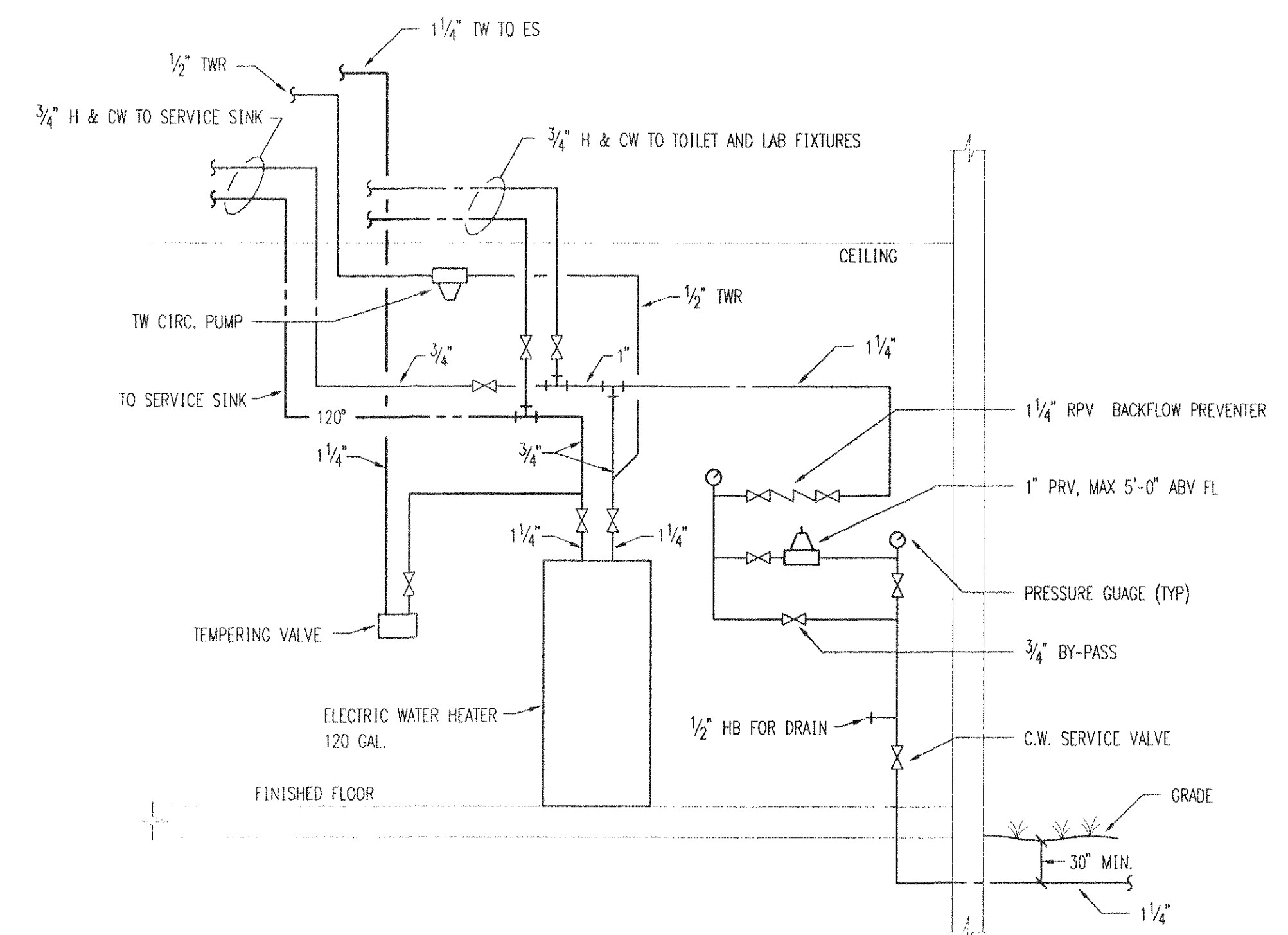
FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



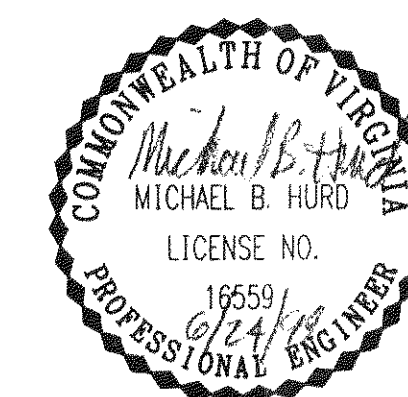
TYPICAL PLUMBING CONNECTIONS TO LABORATORY EQUIPMENT
SCHEMATIC



HOT AND COLD WATER DIAGRAM
SCHEMATIC



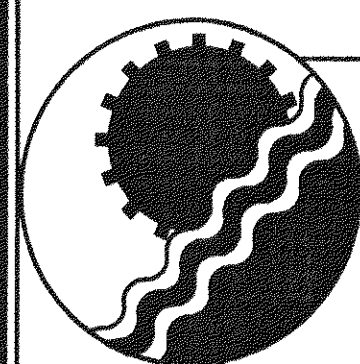
C.W. HEADER CONNECTION DIAGRAM
SCHEMATIC



WHITESCARVER, HURD & OBENCHAIN, INC.
CONSULTING ENGINEERS
4932 FRONTAGE ROAD NW
ROANOKE, VIRGINIA 24019
540/265-4444
A C E C

DES: RJG DRF: SDR CHK: RJG COMM: 99110

Drawn	SDR	GREENFIELD CHLORINATION FACILITY PLUMBING	SEE PLAN
Designed	RJG		JUNE 1999
Checked	RJG		PROJECT: 97075
Approved	JBO		17 of 19



ENGINEERING CONCEPTS, INC.
20 S. ROANOKE ST., PO BOX 619
FINCastle, VIRGINIA 24090
540.473.1253 FAX: 540.473.1254