PLUMBING LEGEND

Symbol	Description
	SOIL OR WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	BALL VALVE (2" & SMALLER) OR BUTTERFLY VALVE (2½" & LARGER)
	VALVE IN PIPING DROP
	PIPING DROP IN DIRECTION OF FLOW
	PIPING RISE IN DIRECTION OF FLOW
	DIELECTRIC UNION
	PIPING TEE FROM TOP OF MAIN
	PIPING TEE FROM BOTTOM OF MAIN
C.P.H.B.	CHROME PLATED HOSE BIBB
W.H.	FREEZE PROOF WALL HYDRANT
F.D.	FLOOR DRAIN
F.C.O.	FLOOR CLEANOUT
W.C.O.	WALL CLEANOUT
O.S.C.O.	OUTSIDE CLEANOUT
V.T.R.	VENT THRU ROOF

GENERAL NOTES

1 THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

2 INSTALLATION OF PIPE AND EQUIPMENT SHOWN AND SPECIFIED SHALL BE COORDINATED WITH ALL OTHER WORK RELATED TO THE CONSTRUCTION OF THIS FACILITY INCLUDING BUT NOT LIMITED TO: BUILDING STRUCTURE; HVAC EQUIPMENT, DUCT WORK AND PIPING; ELECTRICAL WORK AND OWNER FURNISHED EQUIPMENT.

3 STRUCTURAL MEMBERS SHALL NOT BE PENETRATED WITHOUT APPROVAL FROM ARCHITECT.

4 ROUTE ALL PIPING CONTAINING FLUIDS SUBJECT TO FREEZING WITHIN THE BUILDING INSULATION ENVELOPE OR PROVIDE HEAT TAPE.

5 ROUTE SANITARY VENT PIPING SO VENTS THRU ROOF WILL BE A MINIMUM OF 15'-0" FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 5'-0" FROM EXTERIOR WALLS, ROOF EXPANSION JOINTS AND ROOF MOUNTED EQUIPMENT.

6 WHERE CHASE WALLS ARE NOT FURNISHED, PIPING SHALL NOT BE ROUTED HORIZONTALLY. AVOID CUTTING STUDS.

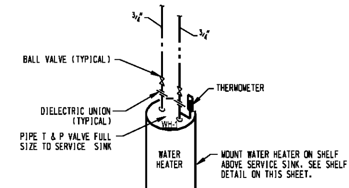
FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	NOTES	RIM HEIGHT	COLD WATER		HOT WATER		WASTE	
				BRANCH	CONN.	BRANCH	CONN.	BRANCH	CONN.
P-1	WATER CLOSET	1,2	18"	1"	1"	---	---	4"	4"
P-2	LAVATORY	2,3	34"	½"	⅜"	½"	⅜"	2"	1¼"
P-3	SERVICE SINK	---	---	½"	½"	½"	½"	2"	2"
P-4	DRINKING FOUNTAIN	4	36"/40"	½"	⅜"	---	---	2"	1½"

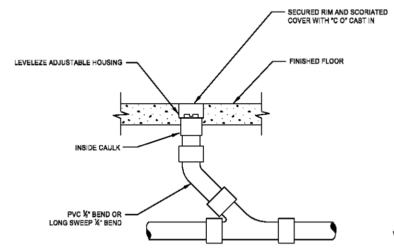
1. WALL HUNG, FLUSH VALVE
2. HANDICAP ACCESSIBLE
3. WALL HUNG.
4. DUAL HEIGHT, FREEZE RESISTANT FOUNTAIN. MOUNT AS REQUIRED BY MANFACTURER TO MEET ADA.

PLUMBING SPECIFICATIONS:

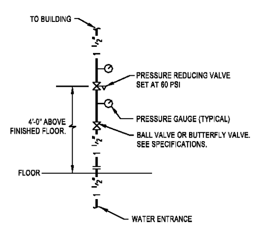
1. WASTE AND VENT PIPING:
   - A. PVC PIPE: ASTM D1785, SCHEDULE 40. FITTINGS: ANSI/ASTM D2665, DRAINAGE PATTERN SCHEDULE 40 PVC. JOINTS: ASTM D2855, SOLVENT WELD.
2. HOT AND COLD WATER PIPING:
   - A. COPPER TUBING: ASTM B88 TYPE 'L' HARD DRAWN. FITTINGS: ANSI/ASME B16.9 PRESSURE PATTERN WROUGHT COPPER. JOINTS: ANSI/ASME B32 LEAD FREE SOLDER HAVING A COMPOSITION OF 95.5% TIN, 4% COPPER AND 0.5% SILVER.
3. FIXTURE CONNECTIONS:
   - A. FLOOR MOUNTED WATER CLOSETS: 4" PVC STUB WITH PVC FLANGE AND PREFORMED WAX SETTING RING. PROVIDE BRASS MOUNTING BOLTS. OFFSET FLANGES SHALL NOT BE ACCEPTABLE.
   - B. LAVATORIES AND WATER COOLERS: 1 ¼" PVC WASTE ARM.
   - C. HOT AND COLD WATER SUPPLIES: CHROME PLATED WHEN EXPOSED.
4. SPECIALTY ITEMS:
   - A. WALL HYDRANTS SHALL BE FREEZE PROOF LOOSE KEY WITH NICKEL BRONZE FACE. J.R. SMITH 5509 OR EQUAL BY JOSAM, WOODFORD OR ZURN.
   - B. WATER HAMMER ARRESTORS SHALL BE JOSAM 75003 OR EQUAL BY SMITH, ZURN OR WATTS.
   - C. TRAP PRIMERS SHALL BE THE FLUSH VALVE TYPE, VACUUM BREAKER TRAP PRIMER WITH WATER DEFLECTOR, ⅜" ELBOW AND FLEX-BEND CONNECTION, WALL FLANGES AND FITTINGS TO CONNECT TO ½" NPT PIPE. ALL EXPOSED SURFACES SHALL BE CHROME PLATED. SLOAN VBF-72-A1 OR EQUAL BY ZURN OR DELANY.
   - D. THERMOMETER SHALL BE INDUSTRIAL TYPE WITH CAST ALUMINUM CASE AND GLASS WINDOW. RANGE SHALL BE 0° TO 240° IN 2° DIVISIONS. WEKSLER, TRERICE OR WEISS ARE ACCEPTABLE MANUFACTURERS.
   - E. CHROME PLATED HOSE BIBBS SHALL BE EQUAL TO CHICAGO 387LK WITH LOOSE KEY AND WATTS 8AC CHROME PLATED VACUUM BREAKER.
   - F. VALVES 2" AND SMALLER SHALL BE BALL VALVES EQUAL TO NIBCO S-580/T-580.
5. PIPE HANGERS AND SUPPORTS:
   - A. SUPPORT WATER PIPING WITH HANGERS EQUAL TO B-LINE B3170CT INSTALLED ON MAXIMUM 3'-0" CENTERS.
   - B. SUPPORT WASTE AND VENT PIPING WITH HANGERS EQUAL TO B-LINE B3100 INSTALLED ON MAXIMUM 8'-0" CENTERS.
6. PIPING INSULATION:
   - A. WATER PIPING SHALL BE INSULATED WITH GLASS FIBER INSULATION ANSI/ASTM C547 WITH A 'K' VALUE OF 0.24 AT 75° F. JACKET SHALL BE FACTORY APPLIED ALL SERVICE JACKET WITH SELF SEALING LAP. PROVIDE ASJ TAPE WHERE INSULATION BUTTS. INSULATION SHALL BE 1" THICK.
   - B. FITTINGS SHALL BE INSULATED WITH PRECUT FIBERGLASS FITTING INSERTS WITH PVC FITTING COVERS. PVC FITTING COVERS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 50 OR LESS.
7. FLOOR DRAINS:
   - A. FLOOR DRAINS SHALL HAVE COATED CAST IRON BODIES AND BE PROVIDED WITH DEEP SEAL TRAPS.
   - B. FLOOR DRAIN SCHEDULE:
     1. F.D.'A': SMITH 2010A WITH 7" SATIN FINISHED NIKALOY TOP OR EQUAL BY JOSAM OR ZURN.
8. CLEANOUTS:
   - A. PROVIDE CLEANOUTS WHERE SHOWN ON THE DRAWINGS. ALL CLEANOUTS SHALL BE ACCESSIBLE AND SHALL BE INSTALLED ALLOWING A CLEARANCE OF NOT LESS THAN 18" FOR THE PURPOSE OF RODDING.
   - B. FLOOR CLEANOUTS SHALL HAVE NICKEL BRONZE FINISH. SMITH 4025 OR EQUAL BY JOSAM OR ZURN.
   - C. WALL CLEANOUTS SHALL HAVE STAINLESS STEEL FINISH. SMITH 4710 OR EQUAL BY JOSAM OR ZURN.
   - D. OUTSIDE CLEANOUTS SHALL HAVE CAST IRON BODIES AND ABS PLUG. SMITH 4288 OR EQUAL BY JOSAM OR ZURN.
9. WATER HEATER:
   - A. WATER HEATER SHALL BE GLASS LINED, ELECTRIC HEATER AND SHALL HAVE TWO ELEMENTS WIRED FOR NON-SIMULTANEOUS OPERATION EACH WITH ITS OWN THERMOSTAT SET TO MAINTAIN 120°. THE TANK SHALL BE INSULATED WITH R-16 FOAM WHICH MEETS ASHRAE 90A FOR HEAT LOSS EFFICIENCY. WATER HEATER SHALL HAVE 20 GALLON TANK CAPACITY, 4,500 WATT, 240 VOLT, 1 PHASE. LOCHINVAR JRA020K OR EQUAL BY BRADFORD WHITE OR A.O. SMITH.
10. PLUMBING FIXTURES:
    - A. FIXTURE P-1 WATER CLOSET SHALL BE EQUAL TO KOHLER K-4405 WITH BEMIS [illegible]SSC SEAT AND KOHLER K-13517 FLUSH VALVE.
    - B. FIXTURE P-2 LAVATORY SHALL BE EQUAL TO KOHLER [illegible] WITH KOHLER K-7307-K FAUCET WITH KOHLER K-16012 [illegible] LEVER HANDLES, KOHLER K-[illegible] GRID DRAIN, 17 GAUGE P-TRAP WITH CLEANOUT, LOOSE KEY STOPS AND SMITH 700 CARRIER.
    - C. FIXTURE P-3 SERVICE SINK SHALL BE EQUAL TO [illegible]AT TSB-3000 WITH KOHLER K-9147 2" CAULK DRAIN AND KOHLER K-8928 FAUCET WITH HOSE AND WALL HOOK.
    - D. FIXTURE P-4 DRINKING FOUNTAIN SHALL BE EQUAL TO ELKAY EDFP217FPK FREEZE RESISTANT WALL HUNG SPLIT LEVEL [illegible] WITH 17 GAUGE P-TRAP WITH CLEANOUT AND SUPPLY STOP.



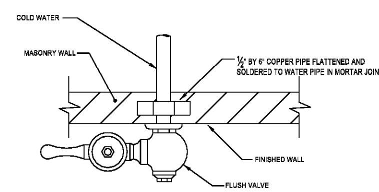
ELECTRIC WATER HEATER PIPING SCHEMATIC
SCALE: NONE



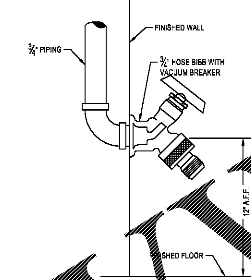
FLOOR CLEANOUT
SCALE: NONE



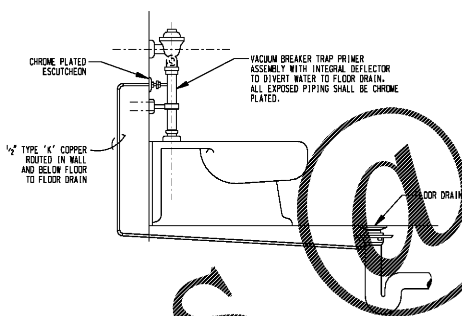
WATER ENTRANCE SCHEMATIC
SCALE: NONE



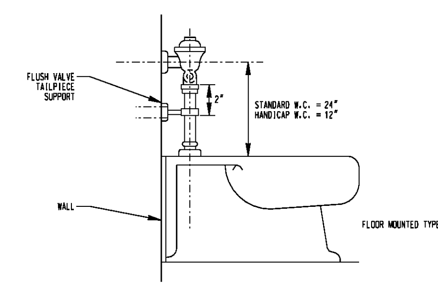
FLUSH VALVE ANCHOR
SCALE: NONE



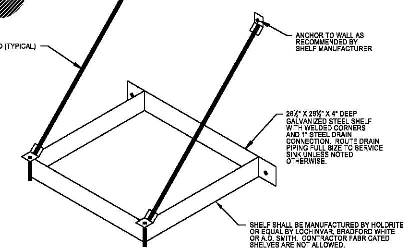
HOSE BIBB DETAIL
SCALE: NONE



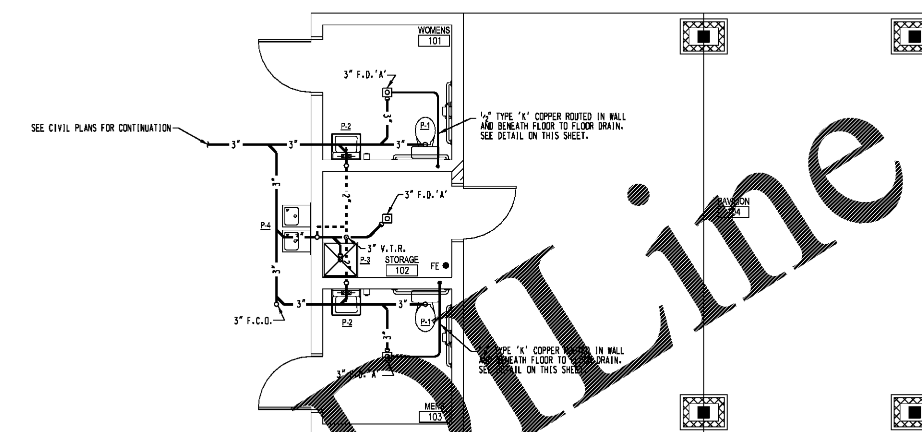
TRAP PRIMER PIPING DETAIL
NONE SCALE:



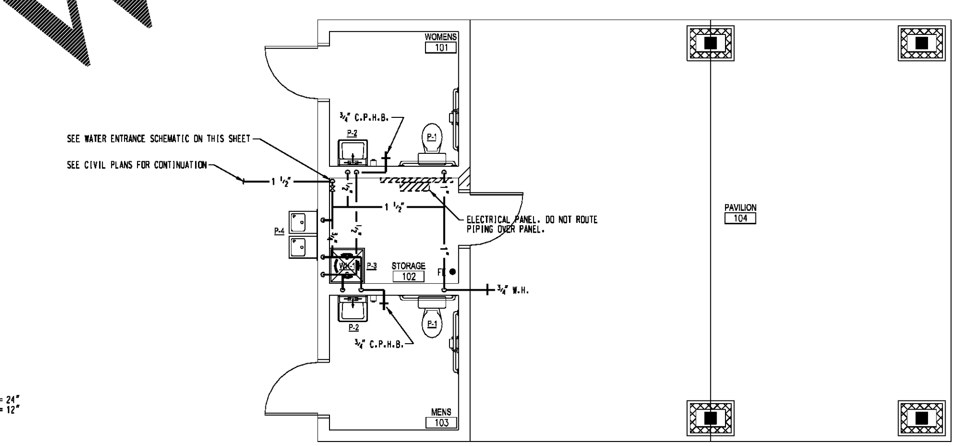
WATER CLOSET FLUSH VALVE MOUNTING DETAIL
SCALE: NONE



WATER HEATER SHELF DETAIL
SCALE: NONE



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



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

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P101

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