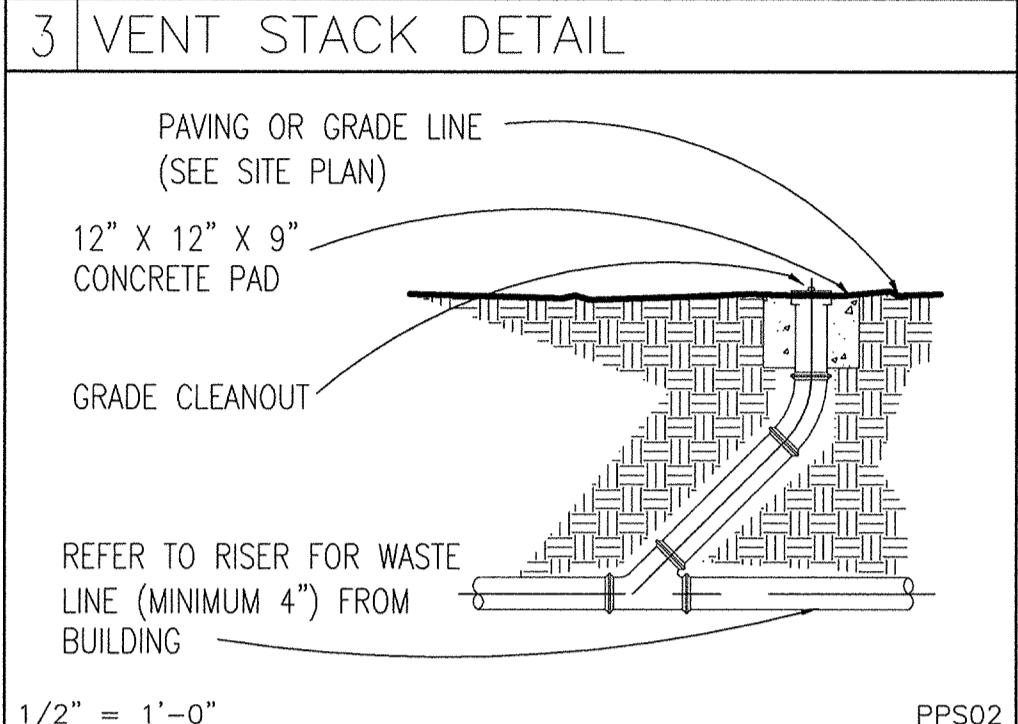
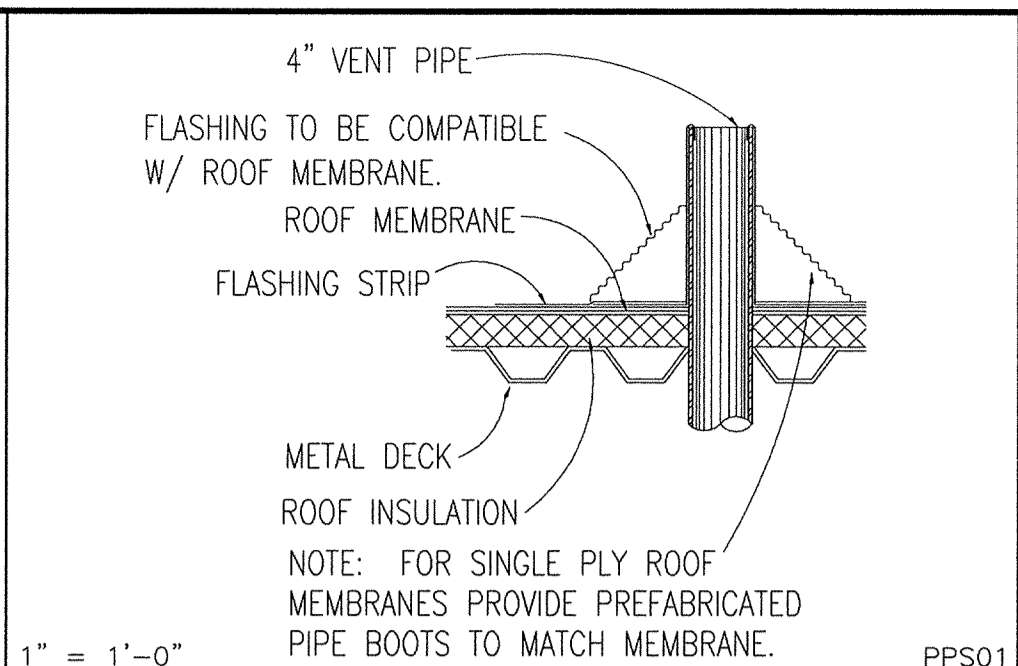


- DIG HOLE FOR HYDRANT APPROXIMATELY 2 FEET IN DIAMETER AND DEEPER THAN THE BURY DEPTH.
- FLUSH GRAVEL, DEBRIS, ETC. OUT OF THE SUPPLY LINE BEFORE CONNECTING HYDRANT.
- INSTALL HYDRANT WITH DRAIN HOLE BELOW FROST LINE. USE WRENCHES ON SUPPLY LINE FITTING AND BRASS BODY VALVE ONLY. THIS AVOIDS OVER TIGHTENING THE HYDRANT ASSEMBLY WHICH COULD AFFECT OPERATION.
- IF SUPPLY LINE TO THE HYDRANT WILL NOT SUPPORT HYDRANT, USE RE-BAR, LENGTH OF PIPE OR OTHER SUITABLE SUPPORT DRIVEN IN BOTTOM OF PIT TO HELP SUPPORT HYDRANT. BEFORE FILLING EXCAVATION, TURN ON WATER AND CHECK HYDRANT CONNECTION FOR LEAKS.
- PROVISIONS MUST BE MADE TO ALLOW THE WATER TO DRAIN FROM THE HYDRANT DRAIN HOLE EACH TIME THE HYDRANT IS CLOSED.
 - (A) IF THE HYDRANT IS TO BE INSTALLED IN A CONCRETE DRIVEWAY, CONNECT 1/8 INCH COPPER DRAIN TUBING TO THE DRAIN HOLE AND DIG A REMOTE DRAIN FIELD FOR THE DRAIN PIPE TO EMPTY INTO.
 - (B) SATURATED GROUND IN THE HYDRANT DRAIN FIELD CAN PREVENT THE HYDRANT FROM DRAINING AND MAY RESULT IN THE HYDRANT FREEZING. IF THE AREA WHERE THE HYDRANT IS LOCATED IS LOW LYING OR HAS A TENDENCY TO HAVE STANDING WATER, A LARGER DRAIN FIELD OR PIT MAY BE REQUIRED TO PROVIDE THE HYDRANT A PLACE TO DRAIN.
 - (C) FILL BOTTOM OF PIT WITH 1/2 INCH GRAVEL TO A LEVEL 3 INCHES ABOVE BRASS DRAIN VALVE BODY TO INSURE ADEQUATE DRAINAGE.



PLUMBING NOTES:
DESIGN PARAMETERS

1. PLUMBING CODE: 2009 INTERNATIONAL PLUMBING CODE

2. PLUMBING OCCUPANCY CLASSIFICATION: Merchantile
 BUILDING AREA FOR OCCUPANCY - See Sheet A-0 for area
 OCCUPANT LOAD - See Sheet A-0 for occupancy

FIXTURE REQUIREMENTS:

- WATER CLOSETS - 1 per 500 people
- LAVATORY - 1 per 750 people
- DRINKING FOUNTAIN - 1 per 1000 people
- SERVICE (MOP) SINK - 1 per store

3. SEPARATE FACILITIES ARE REQUIRED FOR MEN AND WOMEN. THERE IS 1 WATER CLOSET AND 1 LAVATORY FOR EACH RESTROOM. IF REQUIRED BY CODE, THERE SHOULD BE 1 URINAL IN THE MEN'S RESTROOM.

GENERAL PLUMBING NOTES:

A. PIPE MATERIAL SHALL BE AS FOLLOWS:

- SOIL, WASTE AND VENT (INSIDE BLDG.) - ASTM D2665 PVC-DWV WITH NSF SEAL
- SOIL AND WASTE (OUTSIDE BLDG.) - ASTM D3034 PVC
- DOMESTIC WATER (UNDER SLAB) - ASTM B88 TYPE "K" COPPER
- DOMESTIC WATER (INSIDE ABOVE SLAB) - ASTM B88 TYPE "L" COPPER, HARD DRAWN
- DOMESTIC WATER MAIN (TO WITHIN 5' OF BLDG.) - ASTM B88 TYPE "K" COPPER
- NATURAL GAS - ASTM A120, SCHEDULE 40 BLACK STEEL WITH FACTORY APPLIED PROTECTIVE COATING FOR UNDERGROUND APPLICATION.

B. THE PIPE INSULATION SHALL BE AS FOLLOWS:

- DOMESTIC COLD WATER - 1/2" POLYOLEFIN CLOSED CELL
- DOMESTIC HOT WATER - ABOVE GRADE - SAME AS COLD WATER
 BELOW GRADE - 3/8" CLOSED CELL SUITABLE FOR UNDERGROUND USE
- CONDENSATE (INSIDE BUILDING) - 1/2" POLYOLEFIN CLOSED CELL

C. THE ELECTRIC WATER HEATER WILL BE A MINITANK, ARISTON MODEL GL-4-Ti, FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.

D. A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, WHEN REQUIRED BY LOCAL CODE. THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS 909 SERIES. INSTALL THE BACKFLOW PREVENTER IN ACCORDANCE WITH LOCAL CODE. IF BACKFLOW PREVENTER IS INSTALLED INSIDE THE BUILDING, ROUTE THE DRAIN IN THE WALL TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK.

E. THE WATER CLOSET SHALL BE A 1.6 GALLON PER FLUSH, MAXIMUM.

F. THE LAVATORY FAUCET SHALL HAVE A MAXIMUM FLOW RATE OF 1.0 GPM. THE HANDLES SHALL BE ALL BRASS AND HANDICAP ACCESSIBLE.

G. THE MOP SINK SHALL BE FLOOR MOUNTED. THE FAUCET SHALL HAVE AN INTEGRAL VACUUM BREAKER AND BUCKET HOOK.

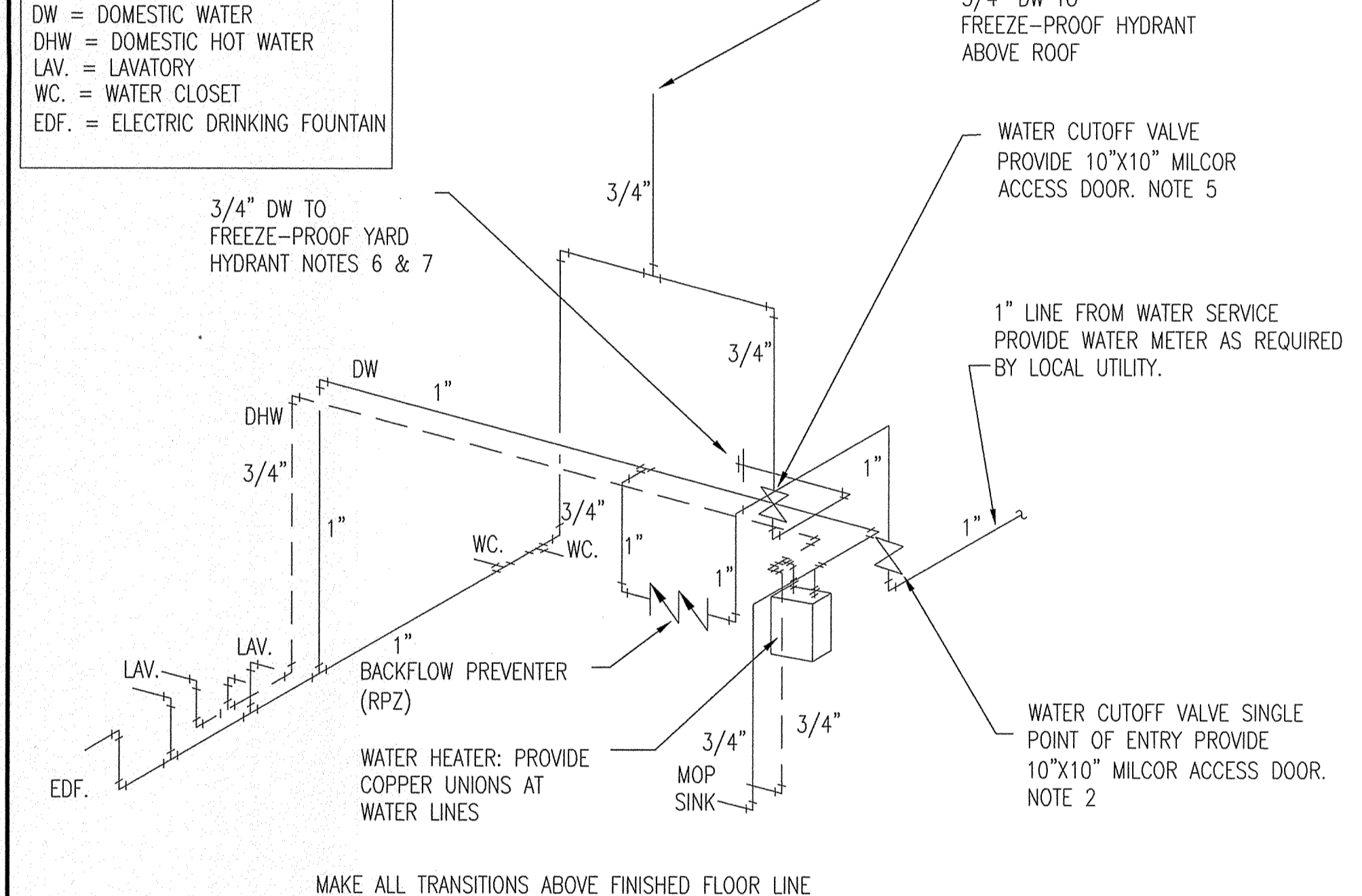
H. ALL ABOVE GROUND WATER SUPPLY PIPING SHALL BE INSULATED.

I. FLOOR DRAINS SHALL BE PROVIDED ONLY WHEN REQUIRED BY CODE.

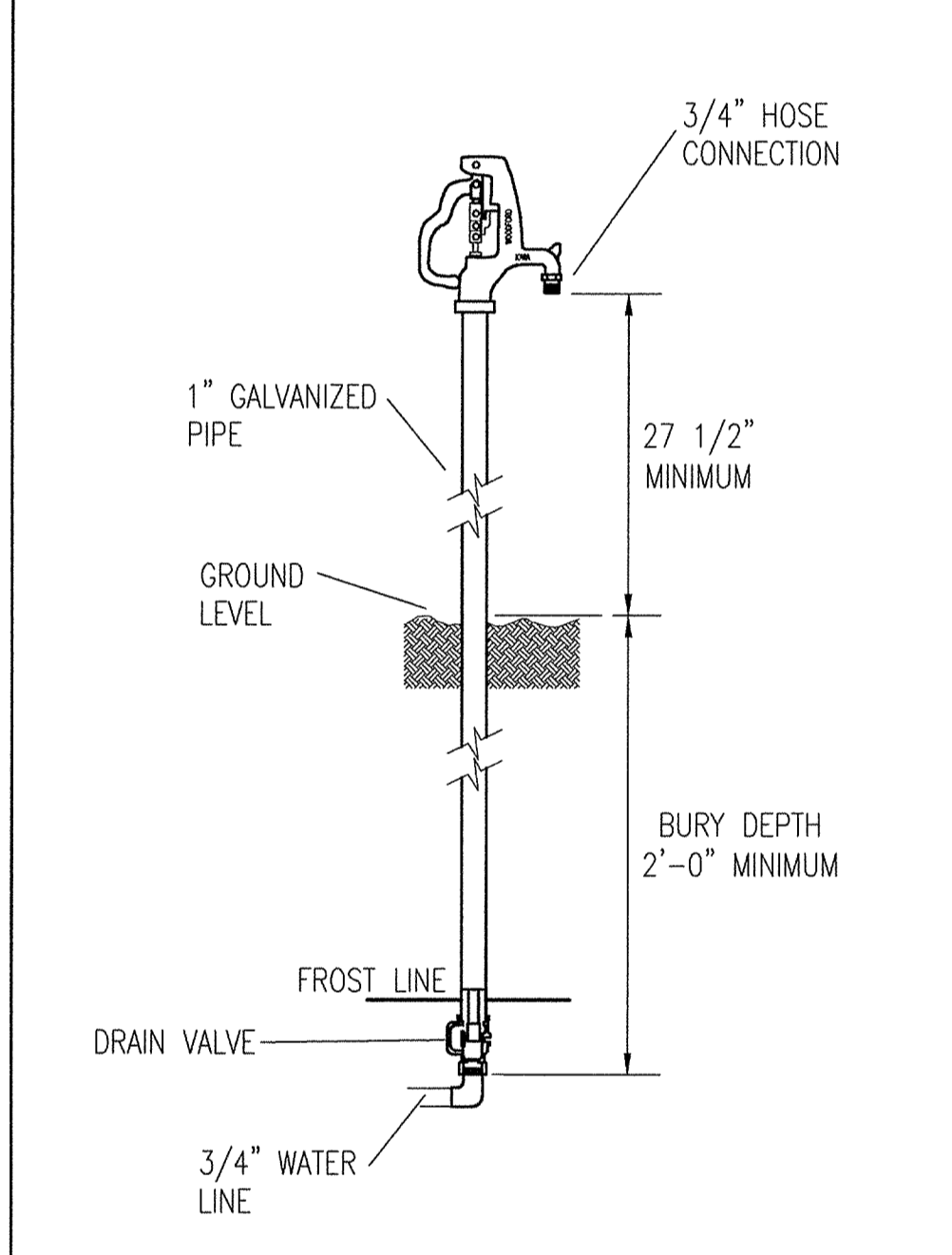
J. PROVIDE WATTS SERIES SHOCK ABSORBERS AT ALL QUICK CLOSING VALVES WHERE APPLICABLE.

K. SHUT OFF VALVES SHALL BE INSTALLED FOR EACH PLUMBING FIXTURE.

1 PLUMBING WASTE/VENT RISER



2 YARD HYDRANT INSTALLATION



4 GRADE CLEANOUT

- HOLD 4" SANITARY VENT THRU ROOF TIGHT AGAINST EXTERIOR WALL BETWEEN TOILET CEILING AND BOTTOM OF ROOF STRUCTURE. OFFSET VENT A MINIMUM OF 12" FROM FACE OF WALL BEFORE PENETRATING ROOF DECK.
- MOUNT MAIN CUTOFF AT 24" A.F.F. IN RESTROOM, AS INDICATED ON ARCHITECTURAL ELEVATIONS.
- INSTALL FREEZELESS IOWA YARD HYDRANT MODEL Y 34 AS MANUFACTURED BY WOODFORD MANUFACTURING COMPANY. HYDRANT SHALL BE LOCATED IN A GRASS OR LANDSCAPE AREA SEE CIVIL DRAWINGS FOR EXACT DIMENSIONAL LOCATION.
- INSTALL YARD HYDRANT IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS INCLUDING PROVIDING VERTICAL SUPPORT AND A BELOW GRADE DRAIN FIELD FOR YARD HYDRANT TO EMPTY INTO EACH TIME THE HYDRANT IS CLOSED.
- PROVIDE CUT-OFF IN A RECESSED ACCESS BOX IN RESTROOM WHERE INDICATED ON THE DRAWINGS FOR THE 3/4" WATER LINE THAT FEEDS THE YARD HYDRANT.
- SEE SITE PLAN TO VERIFY LANDSCAPE CONNECTION REQUIREMENTS AND LOCATIONS.
- BACKFLOW PREVENTER IF REQUIRED BY LOCAL CODE TO BE INSTALLED INSIDE THE BUILDING - SEE GENERAL PLUMBING NOTES: NOTE "D".

CONDENSATE

B. THE PIPE INSULATION SHALL BE AS FOLLOWS:

- DOMESTIC COLD WATER - 1/2" POLYOLEFIN CLOSED CELL
- DOMESTIC HOT WATER - ABOVE GRADE - SAME AS COLD WATER
 BELOW GRADE - 3/8" CLOSED CELL SUITABLE FOR UNDERGROUND USE
- CONDENSATE (INSIDE BUILDING) - 1/2" POLYOLEFIN CLOSED CELL

C. THE ELECTRIC WATER HEATER WILL BE A MINITANK, ARISTON MODEL GL-4-Ti, FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.

D. A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, WHEN REQUIRED BY LOCAL CODE. THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS 909 SERIES. INSTALL THE BACKFLOW PREVENTER IN ACCORDANCE WITH LOCAL CODE. IF BACKFLOW PREVENTER IS INSTALLED INSIDE THE BUILDING, ROUTE THE DRAIN IN THE WALL TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK.

E. THE WATER CLOSET SHALL BE A 1.6 GALLON PER FLUSH, MAXIMUM.

F. THE LAVATORY FAUCET SHALL HAVE A MAXIMUM FLOW RATE OF 1.0 GPM. THE HANDLES SHALL BE ALL BRASS AND HANDICAP ACCESSIBLE.

G. THE MOP SINK SHALL BE FLOOR MOUNTED. THE FAUCET SHALL HAVE AN INTEGRAL VACUUM BREAKER AND BUCKET HOOK.

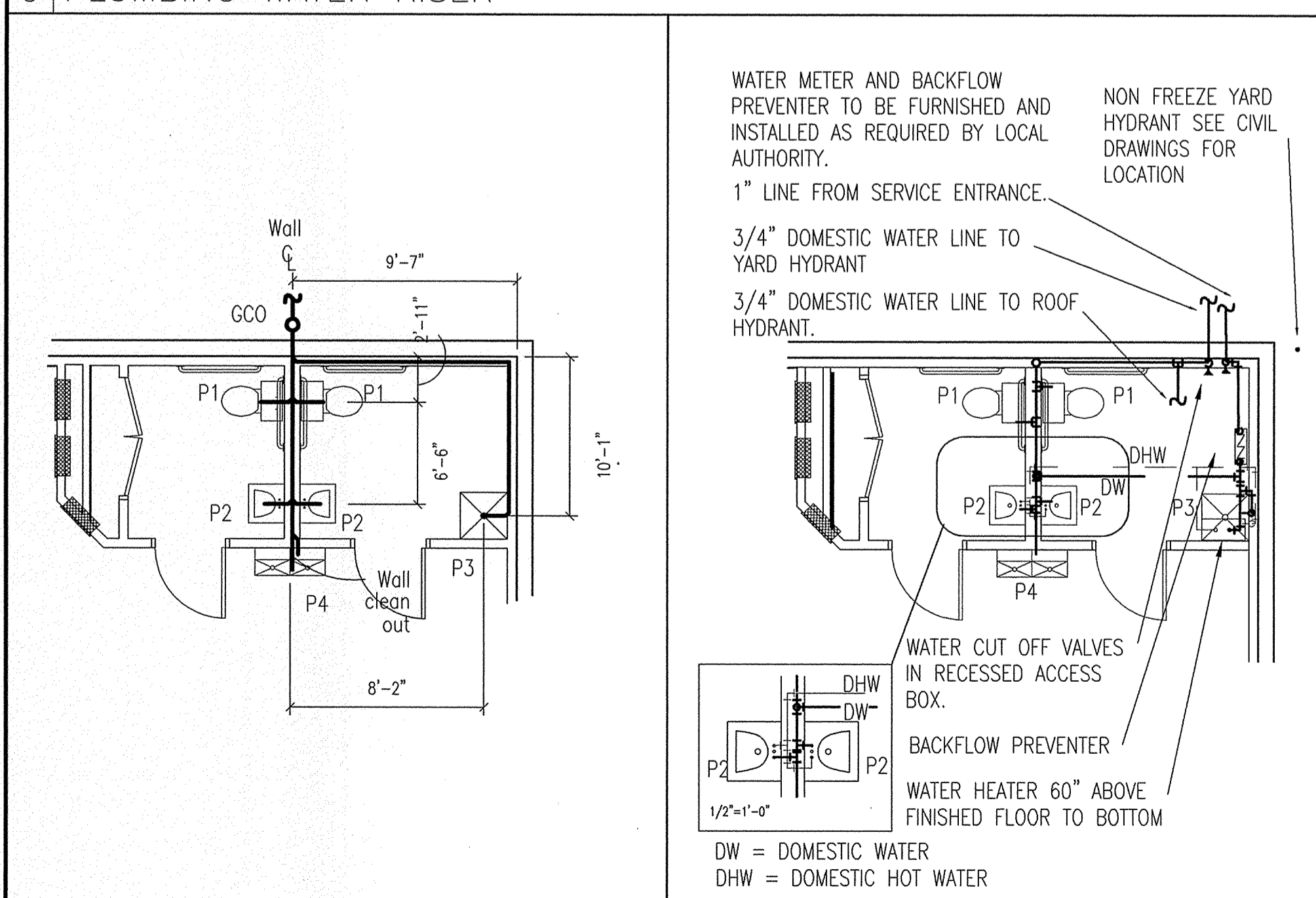
H. ALL ABOVE GROUND WATER SUPPLY PIPING SHALL BE INSULATED.

I. FLOOR DRAINS SHALL BE PROVIDED ONLY WHEN REQUIRED BY CODE.

J. PROVIDE WATTS SERIES SHOCK ABSORBERS AT ALL QUICK CLOSING VALVES WHERE APPLICABLE.

K. SHUT OFF VALVES SHALL BE INSTALLED FOR EACH PLUMBING FIXTURE.

5 PLUMBING WATER RISER



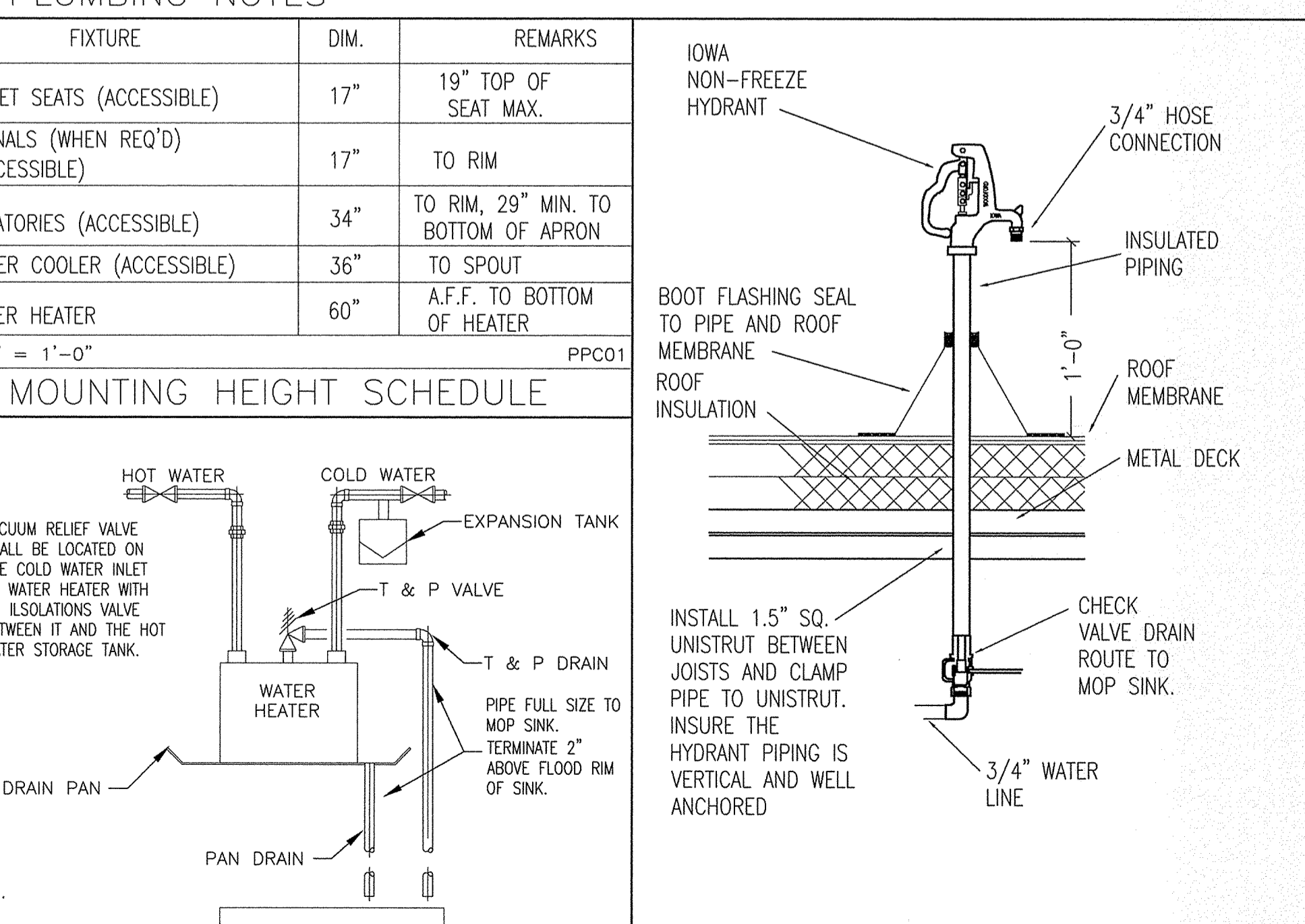
6 YARD HYDRANT

| | AMERICAN STANDARD | KOHLER | ELJER |
|---|--|----------------------|---------------------|
| P-1 TOILET (ELONGATED HANDICAP) 1.6 GPF | "CADET 3" #2386.800 R.H. "CADET 3" #2386.012 L.H. NOTE: TOILET TANK TRIP LEVER TO BE LOCATED ON LAVATORY SIDE OF TANK. | "HIGHLINE" #K-3979-0 | "PATRIOT" #091-2175 |
| P-2 LAVATORY | "LUCERNE" #0355.012 | "GREENWICH" #2032 | "DELWYN" #051-1634 |
| FAUCET | MOEN #8800, 4 INCH CENTERS, 4 INCH WRIST BLADE WITH 1/4 TURN HANDLES, WASHERLESS CARTRIDGES, AND MOEN #52602.5 1 GALLON PER MINUTE FLOW REDUCER. | | |
| DRAIN | MOEN #52660, OFFSET CHROME PLATED TAILPIECE. | | |
| P-3 SERVICE SINK | FIAT #MSB-2424 OR MUSTEE #63 | | |
| FAUCET | MOEN #8124 | | |
| P-4 WATER FOUNTAIN | HANDICAP ACCESSIBLE DUAL HEIGHT: ELKAY EZTL-8C OR HALSEY TAYLOR HTV8BL-Q | | |
| P-5 URINAL (IF REQ'D.) | "TRIMBROOK" #6561.017 | "BARDEN" #K-4960-T | "SAVON" #161-1090 |
| FLUSH VALVE | SLOAN #186-1 OR ZURN #Z6003XL-WS1 OR A/S 6045.101 | | |

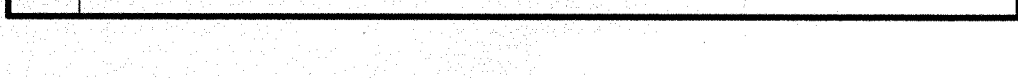
7 KEYED PLUMBING NOTES

| FIXTURE | DIM. | REMARKS |
|-----------------------------------|------|-------------------------------------|
| TOILET SEATS (ACCESSIBLE) | 17" | 19" TOP OF SEAT MAX. |
| URINALS (WHEN REQ'D) (ACCESSIBLE) | 17" | TO RIM |
| LAVATORIES (ACCESSIBLE) | 34" | TO RIM, 29" MIN. TO BOTTOM OF APRON |
| WATER COOLER (ACCESSIBLE) | 36" | TO SPOUT |
| WATER HEATER | 60" | A.F.F. TO BOTTOM OF HEATER |

8 PLUMBING NOTES



9 RESTROOM SEWER PLAN



10 RESTROOM WATER PLAN



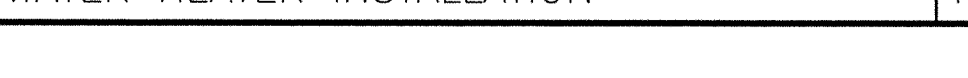
11 PLUMBING FIXTURE SCHEDULE

| FIXTURE | DIM. | REMARKS |
|-----------------------------------|------|-------------------------------------|
| TOILET SEATS (ACCESSIBLE) | 17" | 19" TOP OF SEAT MAX. |
| URINALS (WHEN REQ'D) (ACCESSIBLE) | 17" | TO RIM |
| LAVATORIES (ACCESSIBLE) | 34" | TO RIM, 29" MIN. TO BOTTOM OF APRON |
| WATER COOLER (ACCESSIBLE) | 36" | TO SPOUT |
| WATER HEATER | 60" | A.F.F. TO BOTTOM OF HEATER |

12 MOUNTING HEIGHT SCHEDULE



14 WATER HEATER INSTALLATION



13 ROOF HYDRANT



AutoZone Store No. 3879
 1207 FOREST AVE
 PORTLAND ME 04103
 PLUMBING PLAN

ENGINEER: DANNY E. DOSS P.E.
 132 Kelley Drive
 Rogers, Arkansas 72756
 TEL: (479) 631-1712 FAX: (479) 631-1854
 For Bidding & Contractor Information Contact:
 McGraw - Hill Construction Tel. 615-884-1017
 www.construction.com

REVISIONS

| NO. | DATE | DESCRIPTION |
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