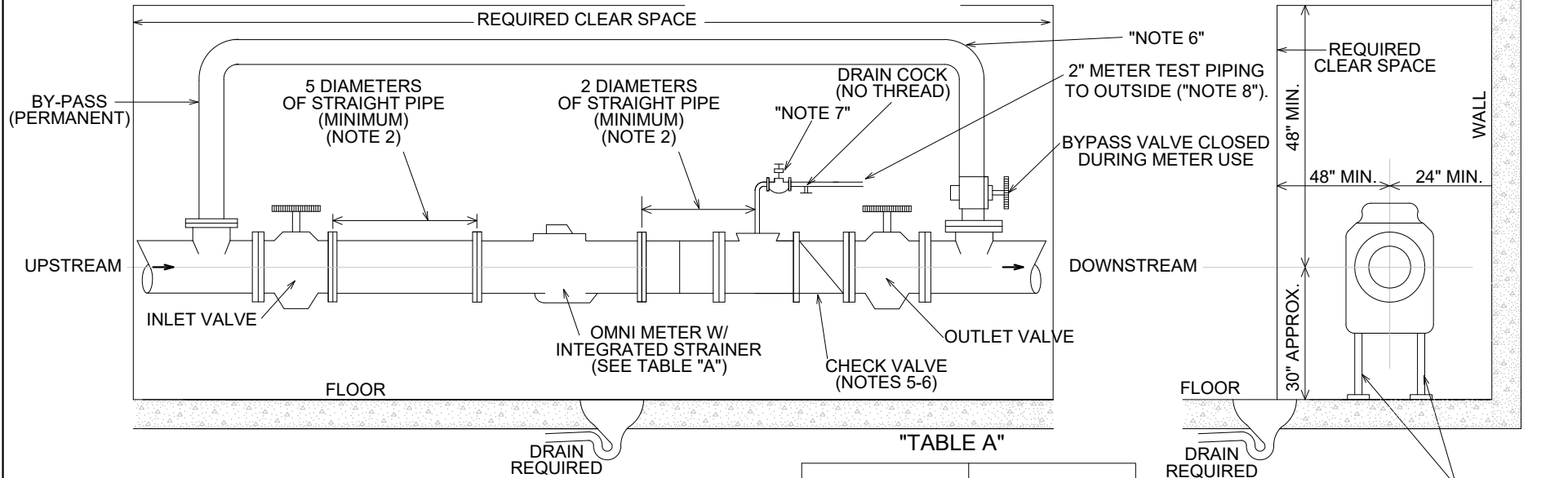


REVISED: 11/2025



"TABLE A"

METER SIZE	LAY LENGTH
3-IN	17"
4-IN	20"
6-IN	27"
8-IN	CUSTOM
10-IN	CUSTOM

**SENSUS OMNI METER INSTALLATION REQUIREMENTS NOTES:**

1. SENSUS OMNI METERS INCLUDE AN INTEGRATED STRAINER WHICH ENSURES OPTIMUM FLOW CONDITIONING AND PROTECTION FOR THE METER MEASURING ELEMENT.
2. THE METER WITH INTEGRATED STRAINER REQUIRES A MINIMUM OF 5 PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM, AND 2 PIPE DIAMETERS DOWNSTREAM OF THE METER.
3. ONLY FULL OPEN GATE VALVES SHOULD BE USED IMMEDIATELY UPSTREAM OF THE METER. BUTTERFLY VALVES MUST BE 5 PIPE DIAMETERS OR MORE UPSTREAM OF THE METER. FULL OPEN GATE OR BUTTERFLY VALVES CAN BE USED DOWNSTREAM. NO ADDITIONAL APPLIANCE ALLOWED BETWEEN INLET VALVE AND METER.
4. DO NOT INSTALL PRESSURE REDUCING DEVICES OR CHECK VALVES UPSTREAM OF THE METER.
5. A CHECK VALVE MUST BE INSTALLED DOWNSTREAM OF THE METER TO PREVENT SURGING OR BACKFLOW. A SPRING OR WEIGHTED CHECK VALVE MAY BE USED, IF NECESSARY.
6. BYPASS REQUIRED, ONE PIPE SIZE SMALLER ALLOWED
7. 2-IN VALVE IS A QUARTER TURN BALL VALVE W/ DRAIN COCK (NO THREAD) AFTER VALVE
8. NO PVC PIPING PERMITTED THROUGH EXTERIOR WALL PENETRATION/ CONNECTION POINT. 2-IN PIPING AT TEST CONNECTION MUST BE THREADED. TEST CONNECTION POINT SHALL BE ACCESSIBLE WITHIN 100- FEET OF TEST TRUCK. TEST CONNECTION FOR 3-IN AND ABOVE.

**ADDITIONAL REQUIREMENTS:**

- CONTRACTOR TO FURNISH MANUFACTURER APPROVED NSF-61 FLANGES W/ BOLTS & GASKETS
- NO INSULATION OR COVERING WILL BE PERMITTED ON METERS OR FLANGES
- TEST CONNECTION MUST BE PIPED SEPARATE FROM METER
- METER AND ASSOCIATED VALVES SHALL BE LOCATED IN THE SAME ROOM AS THE WATER SERVICE FIRST ENTERS THE BUILDING
- ELECTRICAL BONDING SHALL BE LOCATED SO AS NOT TO RESTRICT REMOVAL OF METER FLANGE BOLTS.
- ALL METERS SHALL BE LOCATED THAT THEY SHALL BE PROTECTED FROM OBSTRUCTIONS AND PERMIT READY ACCESS FOR READING, INSPECTION, AND SERVICING, SUCH LOCATION TO BE DESIGNATED OR APPROVED BY THE WATER UTILITY.
- MUST INSTALL 1-IN MINIMUM GREY ELECTRICAL PVC RACEWAY, THROUGH EXTERIOR WALL, ABOVE GRADE.
- ALL VALVES ARE THE RESPONSIBILITY OF THE PROPERTY OWNER, AND MUST BE IN GOOD WORKING ORDER.

CITY OF MADISON  
WATER UTILITY

NOT TO SCALE

SENSUS OMNI METER  
STANDARD INSTALLATION