

**4" WATER SERVICE CONNECTION 2" METER**

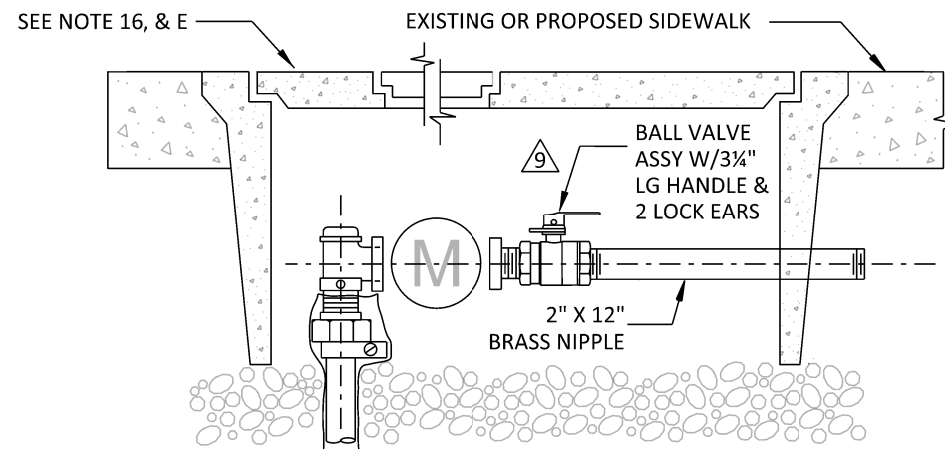
NOT TO SCALE

**PLACEMENT OF METER BOX**

- A. PLACE FRONT EDGE OF METER BOX 6" MAX. BEHIND EXISTING OR PROPOSED 6' OR 8" SIDEWALKS.
- B. WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF BOX 6" MAX BEHIND CURB USING APPROPRIATE BOX (SEE NOTE 8).
- C. WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF BOX 7.5' BEHIND CURB.
- D. WHEN NO CURBS ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE BACK EDGE OF METER BOX ON PROPERTY LINE.
- E. WHEN INSTALLED IN CONCRETE (SIDEWALK), USE 30"x48" METER BOX WITH 2 PIECE LID ASSEMBLY WHICH INCLUDES CI READING LID.

**FLOW RATE TABLE**

LATERAL SIZE	METER SIZE	FLOWRATE (GPM)	VELOCITY (ft/s)	METER LENGTH
4"	2" MASTER	120	2.5	17"
4"	2" OMNI T2	200	4.2	17"



**SIDEWALK INSTALLATION**

**NOTES:**

- 1. METER BOX/VAULT, AND LIDS TO BE PAINTED PURPLE PER EMWD SPECIFICATIONS.
- 2. ALL 2" PIPE AND FITTINGS SHALL:
  - A. BE MADE OF BRASS OR BRONZE;
  - B. BE OF THE BANDED PATTERN;
  - C. BE DESIGNED FOR A MIN OF 175 PSI (COLD) WATER WORKING PRESSURE.
- 3. PRESSURE TEST PER EMWD SPECIFICATIONS.
- 4. ALL BARE IRON AND STEEL SHALL BE COATED WITH CEMENT MORTAR AS PER THE FIELD ENGINEER.
- 5. VALVES AND OTHER APPURTENANCES AND FITTINGS AT THE PIPELINE SHALL BE PRIMED, AND WRAPPED WITH PROTECTO-WRAP NO. 200 OR 300 TAR RESIN TAPE. BOLTS AND NUTS SHALL BE PROTECTED USING ZINC CAPS ANODES IN ACCORDANCE WITH SECTION 15089.
- 6. SERVICE LATERAL HORIZONTAL & VERTICAL ALIGNMENT MUST MEET DDW SEPARATION REQUIREMENTS. ALL PIPING AND RELATED COMPONENTS SHALL BE IDENTIFIED FOR RECYCLED WATER USE PER DIVISION OF DRINKING WATER REQUIREMENTS AND EMWD SPECIFICATIONS. INSTALL IDENTIFICATION TAPE (CHRISTY'S PART NO. TA-DT-03-PRW) AND LOCATOR WIRE PER EMWD SPECIFICATIONS.
- 7. ALL SERVICE PIPE AND TUBING SHALL BE LAID ON A CONSTANT SLOPE UP FROM THE WATER MAIN TO THE METER. NO DIPS OR POCKETS IN THE LINE WILL BE PERMITTED. 36" COVER SHALL BE MAINTAINED AT GAS MAIN CROSSINGS.
- 8. THREAD NOTATION THUS:
  - IP = IRON PIPE THREAD;
  - CS = CORPORATION STOP (MUELLER) THREAD;
  - PJ = PACK JOINT
  - CTS = COPPER TUBE SIZE
  - CTS A.S. = COPPER TUBE SIZE ANGLE STOP
- 9. VALVE BOX SHALL BE EMWD APPROVED 12" DIA x 10" DEEP, COMPLETE WITH COVER AND ONE (1) - 6" EXTENSION. LID TO BE PAINTED PURPLE.
- 10. METER BOX SHALL BE EMWD APPROVED 17" x 30" COMPLETE WITH COVER, LID, AND ONE (1) - 7" EXTENSION WITH KNOCKOUTS AND AMR/AMI ANTENNA PORT (SEE NOTE E FOR SIDEWALK INSTALLATION). LID TO BE PAINTED APPROVED PURPLE. METER PORT HOLES CENTER TO BE INSTALLED 10" BELOW TOP OF METER BOX.
- 11. SPACER ASSEMBLY SHALL NOT HAVE THE ABILITY TO CONVEY FLUIDS, SHALL BE AFFIXED AND NON - ADJUSTABLE. (NO SPOOLS ALLOWED) SPACER ASSEMBLY LENGTH PER METER MANUFACTURES SPECIFICATION.
- 12. METER DIMENSIONS MAY VARY, METER INSTALLATION SHALL BE PER METER MANUFACTURER SPECIFICATIONS AND EMWD STANDARDS AND SPECIFICATIONS.
- 13. ALL MATERIALS SHALL BE PER EMWD APPROVED MATERIALS LIST.
- 14. RESTRAIN OR WELD ALL JOINTS PER EMWD SPECIFICATIONS.
- 15. METER BOX TO BE INSTALLED DURING CONSTRUCTION OF WATER SERVICE/MAINLINE CONSTRUCTION.
- 16. CONTRACTOR SHALL RETURN AFTER ROAD SHOULDER OR PARKWAY IS COMPLETE TO INSTALL METER BOX, AND SHALL BE RESPONSIBLE FOR COORDINATING WORK OF OTHER CONTRACTORS FOR SAFEGUARDING SERVICES UNTIL METER BOXES ARE SET.
- 17. EMWD TO LOCK OFF ANGLE METER STOP UNTIL METER IS INSTALLED. NO METER SHALL BE INSTALLED UNTIL PROVED BY EMWD.
  - A. METER SHALL BE PER EMWD APPROVED MATERIAL LIST WITH AMR & READ IN CUBIC FEET.
  - B. NO JUMPER SHALL BE INSTALLED.
  - C. 10" BRASS NIPPLE, VALVE AND METER FITTINGS SHALL BE INSTALLED WHEN METER IS INSTALLED.
- 18. METER SHALL BE PAINTED APPROVED PURPLE WHEN METER IS INSTALLED
- 19. NO METER SHALL BE INSTALLED BEFORE FINAL INSPECTION AND CROSS CONNECTION SHUT DOWN TESTS HAVE BEEN PERFORMED AND APPROVED BY E.M.W.D.
- 20. BURIED COPPER TO BE ENCASED IN 8-MIL PURPLE POLYETHYLENE SLEEVE.
- 21. RECYCLED WATER METER, ANGLE STOP / BALL VALVE SHALL BE COATED WITH PURPLE ENAMEL PAINT. ADD "RECYCLED WATER" TAG TO CURB STOPS.
- 22. INSPECTORS SHALL METAL STAMP METER STOP / BALL VALVE WITH "RW"
- 23. CURB SHALL BE INSCRIBED WITH "RW" TO IDENTIFY RECYCLED WATER SERVICE LOCATION.
- 24. SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS.

**REVISIONS**

NO.	DATE	INITIAL	DESCRIPTION
	6/2/22	GS	REVISED NOTES, BALL VALVE AND REMOVED CONDUIT DETAIL
	9/25/20	GS	UPDATED TITLE BLOCK, FONT, LOGO AND FLOW RATE TABLE
	5/22/15	GS	REVISED NOTES, PLAN VEIW DETAILS, ADDED METER DATA TABLE, AND 4" LATERAL PIPELINE CONNECTION
	9/2/28	RE	ADDED NOTES 14 THRU 18 AND REVISED NOTE 12

**APPROVALS**

APP'D	DATE	INITIAL	DATE
<i>AGA</i>	6/2/22		
<i>AGA</i>	9/25/20		
<i>AGA</i>	6/9/15		
<i>JM</i>	10/9/08		

EASTERN MUNICIPAL WATER DISTRICT

**EASTERN MUNICIPAL WATER DISTRICT  
STANDARD DRAWING**

**2" RECYCLED METER INSTALLATION**

**REFERENCES:**

FILE I.D.:

SCALE: NONE

DRAWN BY: GS

RECOMMENDED *Joseph VanSickle* 7/30/93  
DIRECTOR OF ENGINEERING DATE

APPROVED *G. Hooite Ruggie* 8/2/93  
ASSISTANT GENERAL MANAGER DATE

**PB-10**