



NOTES: ① ② ③

1. METER BOX AND LIDS TO BE PAINTED PURPLE PER EMWD SPECIFICATIONS.
2. VALVE BOX SHALL BE EMWD APPROVED 12" DIA x 10" DEEP, COMPLETE WITH COVER AND ONE (1) - 6" EXTENSION. LID TO BE PAINTED PURPLE.
3. METER BOX SHALL BE EMWD APPROVED 17" x 30" COMPLETE WITH TWO PEICE 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.
4. METER DIMENSIONS MAY VARY, METER INSTALLATION SHALL BE PER METER MANUFACTURER SPECIFICATIONS AND EMWD STANDARDS AND SPECIFICATIONS.
5. RESTRAIN OR WELD ALL JOINTS PER EMWD SPECIFICATIONS.
6. METER BOX TO BE INSTALLED DURING CONSTRUCTION OF WATER SERVICE/MAINLINE CONSTRUCTION.
7. 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.
8. EMWD TO LOCK OFF RSGV UNTIL METER IS INSTALLED.
 - A. METER SHALL BE PER EMWD APPROVED MATERIAL LIST WITH AMR & READ IN ACRE FEET.
 - B. NO JUMPER/SPOOL SHALL BE INSTALLED.
 - C. VALVES AND METER FITTINGS SHALL BE INSTALLED WHEN METER IS INSTALLED.
9. CURB SHALL BE INSCRIBED WITH "RW" TO IDENTIFY RECYCLED WATER SERVICE LOCATION.
10. SPACER ASSEMBLY USED FOR THE CONSTRUCTION OF THE METER SERVICE SHALL BE MADE OF SCHEDULE 80 PVC, SHALL NOT HAVE THE ABILITY TO CONVEY FLUIDS, SHALL BE AFIXED AND NON - ADJUSTABLE. **NO SPOOLS ALLOWED.** ALL PVC FITTINGS SHALL BE SOLVENT WELDED AND MEET METER MANUFACTURES SPECIFICATIONS FOR METER INSTALLATION. SPACER ASSEMBLY TO BE PAINTED PURPLE (RECYCLED WATER SPACERS ARE NOT TO BE USED FOR POTABLE WATER SERVICES).
11. ALL MATERIALS PER EMWD APPROVED MATERIAL LIST.
12. METER TYPE SHALL BE APPROVED BY DEVELOPMENT SERVICES OR METER SERVICES.
13. PRESSURE TEST PER EMWD SPECIFICATIONS.
14. SERVICE LATERAL HORIZ & VERT 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.
15. METER SHALL BE APPROVED PURPLE OR PAINTED PURPLE WHEN METER IS INSTALLED.
16. A FLANGED REDUCER SHALL BE INSTALLED AT EACH RSGV TO ACCOMODATE A 3" METER CONNECTION. A 3" METER FLANGE IS A STANDARD 3" FLANGE WITH A 4"+ ID.
17. WHEN A SMALLER METER IS USED, REDUCED PIPE SIZING SHALL BE 3 TIMES THE PIPE DIAMETER IN LENGTH AT A MINIMUM FOR BOTH PRE AND POST METER PIPING.
18. ALL BARE IRON AND STEEL SHALL BE COATED WITH CEMENT MORTAR AS PER THE FIELD ENGINEER. 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.
19. ALL SERVICE PIPE 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.
20. IF METER BOX IS PLACED IN DIRT/LANDSCAPE, PLACE TOP 2" ABOVE GRADE AND GRADE AWAY FROM METER BOX TO PREVENT WATER FROM ENTERING.
21. SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS. (SEE FLOW RATE TABLE)
22. NO METER SHALL BE INSTALLED BEFORE FINAL INSPECTION AND CROSS CONNECTION SHUT DOWN TESTS HAVE BEEN PERFORMED AND APPROVED BY EMWD.
23. WHEN METER BOX IS PLACED IN HIGH LOAD OR TRAFFIC PRONE AREAS, VAULT AND LID SHALL BE ABLE TO WITHSTAND H-20 VEHICULAR LOADS. SERVICES THAT REQUIRE BACKFLOW PROTECTION SHALL BE PER B-968.

MATERIALS LIST ① ② ③

ITEM	QTY	DESCRIPTION
①	1	3" METER WITH AMR COMMUNICATION ENCODER*
②	2	4" OR 6" RESILIENT SEAT GATE VALVE Fx F
③	2	12" X 10" VALVE BOX W/LID
④	2	FLANGED 45° BEND
⑤	1	FLANGED SPOOL (MIN. LENGTH EQUALS (3) THREE X PIPE DIAM.)
⑥	1	FLANGED SPOOL (MIN. LENGTH EQUALS (3) THREE X PIPE DIAM.)
⑦	1	4"x 24" OR 6"x 24" FLANGED SPOOL
⑧	1	BLIND FLANGE (IF REQUIRED)
⑨	LF	4" OR 6" PIPE
⑩	1	RECYCLED WATER LOCATOR TAPE. TAPE TO BE (3") THREEINCHES WIDE AND PLACED ABOVE THE RECYCLED WATER LINE STATING IN (2") TWO INCH HIGH LETTERING, "CATION RECYCLED WATER", THE COLOR OF THE TAPE SHALL BE PURPLE-PANATONE 512C.
⑪	1	17" X 30" METER BOX W/TWO PEICE LID AND AMI ANTENNA PORT
⑫	2	FLANGED REDUCER (SEE METER SPEC. FOR METER FLANGE SIZE)
⑬	1	MARKER POST PER B-665. TO BE INSTALLED AT THE DIRECTION OF EMWD.

FLOW RATE TABLE ① ②

FUTURE METER SIZE	FLOW RATE (GPM)	EMWD STD DWG	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
3" OMNI T2	500	PB-1	4"	10.6	19"
3" OCTAVE	500	PB-1	4"	10.6	12"
3" OMNI T2	500	PB-1	6"	5.1	19"
3" OCTAVE	500	PB-1	6"	5.1	12"

PLACEMENT OF METER VAULT ② ③

- A. PLACE FRONT EDGE OF METER BOX 6" BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.
- B. WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF VAULT 1.5' BEHIND CURB USING APPROPRIATE BOX.
- C. WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF VAULT 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"X 48" METER BOX WITH TWO PEICE LID ASSEMBLY, INCLUDING ci READING LID.
- F. A MINIMUM 5' SEPARATION IS TO BE MAINTAINED BETWEEN THE SEWER LATERAL, WATER SERVICE, AND RECYCLED WATER SERVICE.

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION
③	9/29/23	GS	REMOVED VAULT, REPLACED BY #6 METER BOX, REVISED MATERIAL LIST, NOTES, AND DETAIL
②	6/3/22	GS	REVISED TITLE BLOCK, FONT, LOGO, METER FLOW RATE, NOTES TABLE, MATERIAL LIST, ADDED REDUCER, PLACEMENT NOTES MATERIAL LIST, REDUCER, REMOVED STRAINER & BYPASS

APPROVALS

APP'D	DATE	INITIAL	DATE
AG A	9/29/23	CM	5/13/05
AG A	6/3/22	CD	5/16/05
		KG	5/13/05
		VJB	5/16/05



**EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING**

3" RECYCLED METER INSTALLATION

REFERENCES:

SCALE: NONE

FILE I.D.:

DRAWN BY: GS

APPROVED *Charlie Bachmann*
CHIEF ENGINEER

5/16/05
DATE

PB-13

