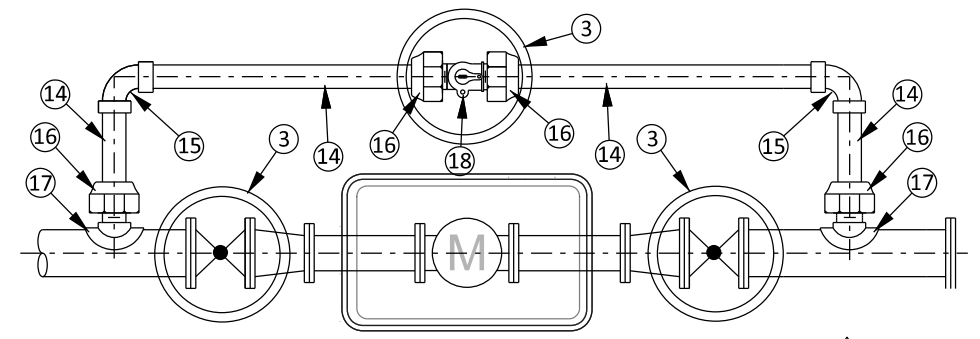


NORMAL ELEVATION [△]
NOT TO SCALE



PLAN VIEW [△]
NOT TO SCALE

MATERIALS LIST [△] [△]

ITEM	QTY	DESCRIPTION
①	1	3" METER WITH AMR COMMUNICATION ENCODER*
②	2	4" OR 6" RESILIENT SEAT GATE VALVE FxF
③	3	12" X 10" VALVE BOX LID SHALL HAVE CAST IRON COVER LABELED "WATER"
④	2	FLANGED 45° BEND
⑤	1	FLANGED SPOOL (MIN. LENGTH EQUALS (3) THREE X PIPE DIAM.)
⑥	1	V-BIO ENCASEMENT FOR ALL STEEL OR DI PIPE
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	LOCATOR WIRE PER STANDARD DRAWING B-656
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.
⑭	15'+/-	15'+/-2" COPPER TUBING TYPE K
⑮	2	2"x90 DEG COPPER SWEAT ELL
⑯	4	2" COPPER SWxIPM ADAPTER, (CORP STOP W/PVC)
⑰	2	2-1/2"x4" SERVICE SADDLE W/2-1/2"x2"BRASS RED BUSHING, (2" SERVICE CLAMP W/PVC)
⑱	1	2" BRASS CURB STOP

FLOW RATE TABLE [△] [△]

FUTURE METER SIZE	FLOW RATE (GPM)	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
3" OMNI C2	400	4"	8.4	17"
3" OMNI T2	500	4"	10.6	19"
3" OCTAVE	500	4"	10.6	12"
3" OMNI C2	400	6"	4.1	17"
3" OMNI T2	500	6"	5.1	19"
3" OCTAVE	500	6"	5.1	12"

PLACEMENT OF METER BOX [△] [△]

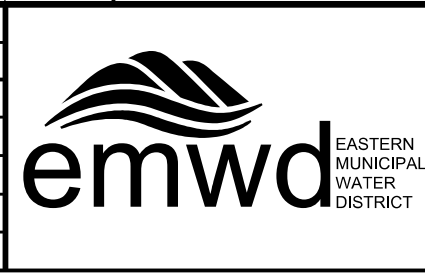
- A. PLACE FRONT EDGE OF UPSTREAM VALVE BOX 6" BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.
- B. WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF UPSTREAM VALVE BOX 1.5' BEHIND CURB USING APPROPRIATE BOX.
- C. WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF UPSTREAM VALVE BOX 7.5' BEHIND CURB.
- D. WHEN NO CURBS ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE FRONT EDGE OF UPSTREAM VALVE 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.

NOTES: [△] [△] [△]

1. VALVE BOX SHALL BE EMWD APPROVED 12" DIA x 10" DEEP, COMPLETE WITH COVER AND ONE (1) - 6" EXTENSION.
2. 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). METER PORT HOLES CENTER TO BE INSTALLED 10" BELOW TOP OF METER BOX.
3. METER DIMENSIONS MAY VARY, METER INSTALLATION SHALL BE PER METER MANUFACTURER SPECIFICATIONS AND EMWD STANDARDS AND SPECIFICATIONS.
4. RESTRAIN OR WELD ALL JOINTS PER EMWD SPECIFICATIONS.
5. METER BOX TO BE INSTALLED DURING CONSTRUCTION OF WATER SERVICE/MAINLINE CONSTRUCTION.
6. 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.
7. EMWD TO LOCK OFF RSGV UNTIL METER IS INSTALLED.
 - A. METER SHALL BE PER EMWD APPROVED MATERIAL LIST WITH AMR & READ IN CUBIC FEET.
 - B. VALVES AND METER FITTINGS SHALL BE INSTALLED WHEN METER IS INSTALLED.
8. CURB SHALL BE INSCRIBED WITH "PW" TO IDENTIFY POTABLE WATER SERVICE LOCATION.
9. JUMPER ASSEMBLY USED FOR THE CONSTRUCTION OF THE METER SERVICE SHALL BE MADE OF SCHEDULE 80 PVC, SHALL BE AFIXED AND NON - ADJUSTABLE, AND ALL PVC FITTINGS SHALL BE SOLVENT WELDED. THE TOTAL LANE LENGTH SHALL ACCOMMODATE THE METER AND ANY REQUIRED GASKETS OR SEALS. JUMPER ASSEMBLY TO BE PAINTED BLUE (POTABLE WATER JUMPERS ARE NOT TO BE USED FOR RECYCLED WATER).
10. ALL MATERIALS PER EMWD APPROVED MATERIAL LIST.
11. METER TYPE SHALL BE APPROVED BY DEVELOPMENT SERVICES OR METER SERVICES.
12. PRESSURE TEST PER EMWD SPECIFICATIONS.
13. POTABLE SERVICE LATERAL HORIZ & VERT ALIGNMENT SHALL MEET DDW SEPARATION REQUIREMENTS WHEN RECYCLED WATER IS EXISTING OR PROPOSED.
14. INSTALL LOCATOR WIRE PER EMWD STANDARD DRAWING B-656.
15. 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.
16. 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.
17. 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.
18. 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.
19. IF METER BOX IS PLACED IN DIRT/LANDSCAPE, PLACE TOP 2" ABOVE GRADE AND GRADE AWAY FROM METER BOX TO PREVENT WATER FROM ENTERING.
20. 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)
21. WHEN METER BOX IS PLACED IN HIGH LOAD OR TRAFFIC PRONE AREAS, METER BOX SHALL BE ABLE TO WITHSTAND H-20 VEHICULAR LOADS.
22. SERVICES THAT REQUIRE BACKFLOW PROTECTION SHALL BE PER EMWD STANDARD AND SPECIFICATIONS.
23. LOCATOR WIRE TO BE 14 GAUGE SOLID COPPER WIRE UF, THWN, OR THHN.
24. CONNECT INTO THE EMWD PIPELINE LOCATOR WIRE WITH A DRYCONNECT DIRECT BURY WIRE CONNECTOR.
25. LOCATOR WIRE SHALL BE SECURED TO THE WATER SERVICE LATERAL PIPELINE WITH TAPE EVERY 10 FEET.
26. 6 FEET OF LOCATOR WIRE SHALL BE LEFT COILED WITHIN IN VALVE BOX.
27. WIRE TO BE CONTINUOUS STRAND.
28. VALVE BOX LID SHALL HAVE CAST IRON COVER LABELED "WATER".
29. PRIOR TO THE INSTALLATION OF THE METER, A LOCATIBILITY TEST IS TO BE PERFORMED ON ALL LOCATOR WIRES.

REVISIONS			APPROVALS		
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
△	4/24/24	GS	REMOVED VAULT, ADDED 6B BOX, REVISED NOTES, MATERIAL LIST, AND DETAILS	SL	4/24/24
△	4/6/22	GS	REVISED TITLE BLOCK, FONT, LOGO, METER FLOW RATE, NOTES TABLE, MATERIAL LIST, ADDED REDUCER, PLACEMENT NOTES MATERIAL LIST, REDUCER, REMOVED STRAINER	AGA	4/6/22

APPROVALS		
	INITIAL	DATE
DESIGN	JUS	12/9/85
CONSTRUCTION	JDA	
INSPECTION		
OPERATIONS	DWH	
SUBMITTED	LM	2/10/86



**EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING**

3" METER INSTALLATION

REFERENCES:	SCALE: NONE
FILE I.D.:	DRAWN BY: SKD

APPROVED <i>James H. Bunts, Jr</i>	2/12/86	B-633
ASSISTANT GENERAL MANAGER	DATE	

