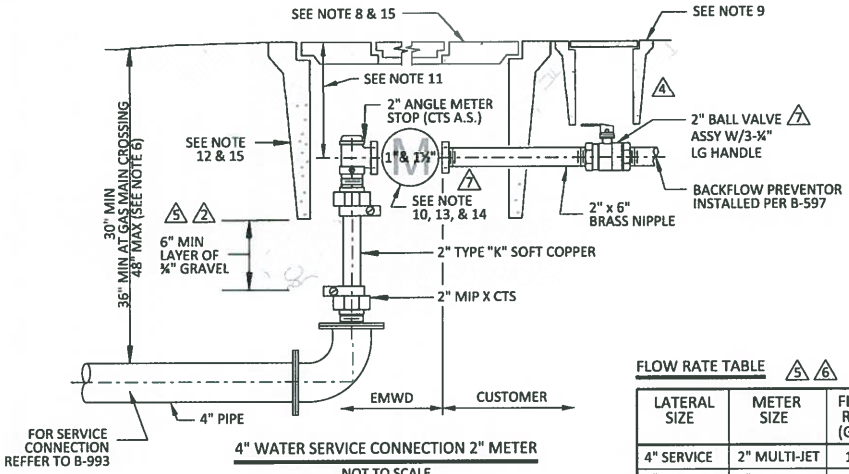
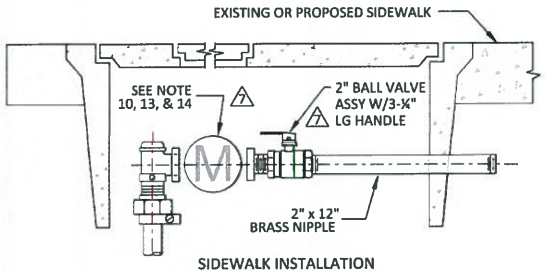


4" WATER SERVICE CONNECTION 2" METER

NOT TO SCALE

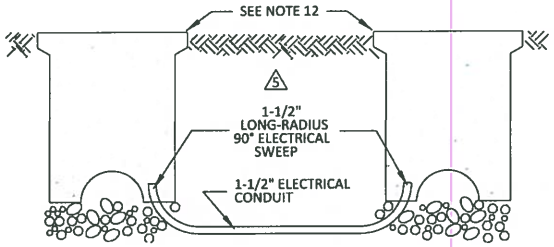
FLOW RATE TABLE 5 6

LATERAL SIZE	METER SIZE	FLOW RATE (GPM)	VELOCITY (ft/s)	METER LENGTH
4" SERVICE	2" MULTI-JET	120	2.5	17"
4" SERVICE	2" OMNI C2	160	3.4	15¼"
4" SERVICE	2" OMNI T2	200	4.2	17"



SIDEWALK INSTALLATION

NOT TO SCALE



GENERAL NOTES 5

7 1. ALL PIPE AND FITTINGS BETWEEN AND INCLUDING THE CORPORATION STOP AND BALL VALVE 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.

2 2. PRESSURE TEST PER EMWD SPECIFICATIONS.

3. ALL BARE IRON AND STEEL SHALL BE COATED WITH CEMENT MORTAR PER EMWD SPECIFICATIONS.

4. ALTERNATE MATERIALS MAY BE USED UPON APPROVAL BY THE EMWD ENGINEER.

5. CORPORATION STOP, FITTINGS, AND SERVICE LINE WITHIN 3 FEET OF SADDLE SHALL BE PRIMED AND WRAPPED WITH APPROVED COAL-TAR RESIN TAPE.

6. ALL SERVICE PIPE AND TUBING SHALL BE LAID ON A POSITIVE SLOPE UP FROM THE WATER MAIN TO THE METER. NO DIPS OR POCKETS IN THE LINE WILL BE PERMITTED. 36" COVER SHALL BE AT GAS MAIN CROSSINGS.

7. THREAD NOTATION THUS:
   IP = IRON PIPE THREAD.
   6 CS = CORPORATION STOP (MUELLER) THREAD.
   CT = COPPER SERVICE THREAD.
   PJ = PACKING JOINT.

6 2 8. METER BOX SHALL BE EMWD APPROVED 17" x 30" COMPLETE WITH COVER, TWO PEICE LID, AND ONE (1) - 7" EXTENSION WITH KNOCKOUTS AND AMR/AMI ANTENNA PORT (SEE NOTE F FOR SIDEWALK INSTALLATION).

5 9. VALVE BOX SHALL BE EMWD APPROVED 8" DIA x 10" DEEP, COMPLETE WITH COVER AND ONE (1) - 6" EXTENSION.

7 5 10. WHEN METER IS FURNISHED BY OTHERS, USE 2" GALV NIPPLE COMBINED WITH 2" METER FLANGES ON EACH END (SEE FLOW RATE TABLE FOR METER LENGTHS). ANGLE METER STOP SHALL BE LOCKED CLOSED WITH LEAD SEAL AND THREE-STRAND SEALING WIRE.

5 11. METER PORT HOLES TO BE INSTALLED 11" BELOW TOP OF METER BOX.

7 5 12. INSTALL 1-1/2" PVC SCH. 40 ELECTRICAL CONDUIT BETWEEN ALL METER BOXES THAT ARE LOCATED NEAR PROPERTY LINE WITHNIN 10' OF EA. OTHER. TAPE END OF SWEEPS PREVENTING DEBRIS FROM ENTERING CONDUIT. PLACE SWEEPS INSIDE AND AGAINST SIDE OF METER BOX.

5 13. SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS.

5 14. SEE MANUFACTURER'S SPECIFICATIONS FOR METER INSTALLATION.

5 15. 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.

PLACEMENT OF METER BOX

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 BOX 1.5' BEHIND CURB USING APPROPRIATE BOX.

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. MIN 5' SEPARATION BETWEEN SEWER LATERAL AND WATER SERVICE.

F. WHEN INSTALLED IN CONCRETE (SIDEWALK), USE 30" x 48" METER BOX WITH 2 PIECE LID ASSEMBLY WHICH INCLUDES CI READING LID.

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
7	12/21/16	GS	REVISED NOTE 1, 10, 12, ADDED NOTE REFERENCE TO DETAIL, BALL VALVE, AND UPDATED LOGO	AGA	12/30/16
6	6/9/15	GS	UPDATED METER DATA TABLE AND NOTE #8	AGA	6/9/15
5	12/13/14	GS	ADDED GRAVEL, EMWD-CUSTOMER DELINEATION, NOTES 12, 13, & 14, CONDUIT DETAIL, AND REVISED NAME	AGA	10/30/14

APPROVALS

	INITIAL	DATE
DESIGN		
CONSTRUCTION		
INSPECTION		
OPERATIONS	ML	10/23/95
SUBMITTED		

REFERENCES: SUPERCEDES B-343 & B-344B ORIG DWG 8/68 3

FILE I.D.: \kauai\eng\std dwgs\B-344.dgn

SCALE: NONE

DRAWN BY: KER

RECOMMENDED Joseph D. Van Sickle 10/20/95
DIRECTOR OF ENGINEERING DATE

emwd EASTERN MUNICIPAL WATER DISTRICT

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

2" METER INSTALLATION 5

APPROVED G. Hovite Rugge 10/20/95
CHIEF ENGINEER DATE

B-344

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