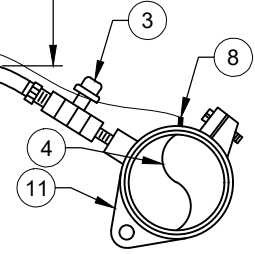


①	BRASS UNION.	⑨	BALL ANGLE METER STOP WITH LOCK EARS.
②	IRON PIPE SIZE POLYETHYLENE SERVICE TUBING.	⑩	½" CRUSHED ROCK, 12" DEEP.
③	BALL CORPORATION STOP.	⑪	SERVICE SADDLE.
④	WATER MAIN OR FLANGE TEE OF COMBINATION SERVICE.	⑫	RESERVED
⑤	"SENSUS" SR11 SERIES WATER METER WITH ENCODED REGISTER FOR 1" SERVICES OR CITY APPROVED EQUAL. SENSUS OMNI C2 METER WITH ENCODED REGISTER FOR 1 ½" AND 2" SERVICES OR CITY APPROVED EQUAL.	⑬	REDUCED PRESSURE TYPE CHECK VALVE ASSEMBLY, REFER TO CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES PUBLISHED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA. ALL ASSEMBLY COMPONENTS SHALL BE LEAD FREE.
⑥	TRACER WIRE, #10 AWG SOLID COPPER WIRE WITH U.S.E. RATED INSULATION COLOR BLUE.	⑭	"SENSUS" MODEL 520M FLEXNET SMARTPOINT M2 RADIO TRANSCEIVER (MXU) OR CITY APPROVED EQUAL, MOUNTED ON THE COVER THROUGH A 1¾" DIAMETER HOLE.
⑦	1" SERVICES SHALL REQUIRE A CHRISTY B16 BOX WITH A DFW B16C4-4A (GREY COLOR). 1 ½" THROUGH 2" SERVICES SHALL REQUIRE A B36 BOX WITH A DFW 1730C-4A LID (GREY COLOR). METER BOX SHALL NOT BE PLACED WITHIN A PEDESTRIAN OR VEHICLE TRAFFIC AREA WITHOUT WRITTEN APPROVAL BY THE CITY ENGINEER.	⑮	MIN 4,000 PSI CONCRETE PAD AS REQUIRED BY THE CITY. MIN. 6" CLEARANCE FROM EDGE OF DEVICE TO EDGE OF CONCRETE PAD (TYP. ALL SIDES) OR AS NECESSARY TO ACCOMMODATE BACKFLOW ENCLOSURE PLUS 6" FROM ENCLOSURE FRAME TO EDGE OF PAD. MIN. PAD WIDTH IS 18".
⑧	CONNECT SERVICE TRACER WIRE TO WATER MAIN TRACER WIRE. SPLICES SHALL BE "KURNEY" (SPLIT BOLT) OR "KUP-L-TAP". INSULATION TAPE SHALL BE TAPED TO WATER SERVICE WITH 10 MIL TAPE AT MIN 10 FOOT INTERVAL.	⑯	CURB, GUTTER, AND SIDEWALK WITH A 2"x2" LETTER "W" STAMPED OR CHISELED INTO TOP OF CURB DIRECTLY ABOVE THE LOCATION WHERE THE WATER SERVICE CROSSES THE FLOW LINE OF CONCRETE GUTTER.

NOTES:

- A. WATER METER SHALL LIE IN CITY R/W OR A DEDICATED PUBLIC EASEMENT.
- B. ALL PIPE AND FITTINGS SHALL BE BRONZE/BRASS FROM METER STOP TO ANGLE METER STOP TO ELL. ENTIRE LENGTH OF BRONZE/BRASS PIPE SHALL BE WRAPPED IN 10 MIL TAPE. FOAM WRAP IS REQ'D WHERE PIPE PASSES THRU CONC. TYP ALL LOCATIONS.
- C. SEE MANUFACTURER'S INSTRUCTIONS FOR CONNECTION FROM REGISTER TO MXU. VERIFICATION THAT THE MXU HAS BEEN PROPERLY CONNECTED AND PROGRAMMED SHALL BE MADE BY THE CITY ENGINEER.
- D. COIL EXCESS TRACER WIRE IN BOTTOM OF METER BOX.
- E. USE STAINLESS STEEL, TYPE 304, NUTS AND BOLTS.
- F. WATER NOT TO BE TURNED ON UNTIL COMPLETE ASSEMBLY IS TESTED AND APPROVED BY THE CITY.
- G. BACKFLOW ASSEMBLY INSTALLATION SHALL INCLUDE AN INSULATED BACKFLOW ENCLOSURE MODEL PW/E1A-W AS MANUFACTURED BY PLACER WATERWORKS OR APPROVED EQUAL WHEN REQ'D BY THE CITY.
- H. BALL VALVE SHALL BE INSTALLED IN SERVICE LINE WITHIN 5 FEET OF BUILDING/STRUCTURE. INCLUDE A CHIRSTY B-1017 BOX AND LID OR APPROVED EQUAL, PLACED OVER THE BALL VALVE. BALL VALVE NOT SHOWN ON THE DETAIL



APPROVED: Aug. X, 2025

STANDARD
DETAIL #

502

TITLE:
**COMMERCIAL/INDUSTRIAL/
MULTI-FAMILY/IRRIGATION
SERVICE METER AND
BACKFLOW ASSEMBLY
1" TO 2"**

