



**MATERIALS LIST:**

**ITEM DESCRIPTION**

- (A) SADDLE: ALL SADDLES SHALL BE DUCTILE IRON CASTING WITH IP THREADS. FOR ALL PIPE MATERIAL OTHER THAN PVC PIPE, SADDLES SHALL BE SINGLE STRAP TYPE EQUAL TO FORD FC101, ROMAC 101NS, MUELLER DR1S, OR DISTRICT APPROVED EQUAL. FOR PVC PIPE, SADDLES SHALL BE DOUBLE STRAP TYPE EQUAL TO MUELLER DR2S, FORD FCD202, OR ROMAC 202NS. ANY SERVICE CONNECTION TO LIVE WATER MAINS SHALL BE INSTALLED BY DISTRICT CREWS AT THE EXPENSE OF THE OWNER.
- (B) BALL VALVE, FIPxFIP; FORD #B11-777-NL, WITH 2" OPERATING NUT, FORD #QT-67. FOR VALVE OPERATING NUT DEPTHS, SEE STANDARD WATER DETAIL #11.
- (C) TWO-PIECE CAST IRON VALVE BOX AND ETHAFOAM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11.
- (D) BRASS CLOSE NIPPLE, MIPxMIP.
- (E) ADAPTER, MIPxPACK JOINT, FORD #C84-77-NL WITH STIFFENER, FORD INSERT-55, OR MUELLER 528707.
- (F) 2" REHAU MUNICIPEX PEX<sub>a</sub> 3306, COPPER TUBE SIZE (CTS), SDR 9, AWWA C904, PER THE SPECIFICATIONS. PIPE SHALL BE CONTINUOUS FROM BALL VALVE TO METER SETTER. ALL PEX<sub>a</sub> PIPE INSTALLED BY OPEN-CUT CONSTRUCTION SHALL BE BEDDED IN SAND, 4" OVER AND UNDER. NATIVE MATERIAL WILL NOT BE ACCEPTED FOR BEDDING.
- (G) TRACER WIRE: BLUE 14 GAUGE COPPER, CONTINUOUS, SOLID CORE, POLYETHYLENE INSULATED PER THE SPECIFICATIONS. CONNECTION AT THE METER SETTER SHALL BE MADE WITH AN ALL STAINLESS STEEL HOSE CLAMP. CONNECTION AT THE MAIN LINE WIRE SHALL BE MADE WITH A SPLIT-BOLT CONNECTOR. STRIP COATING PRIOR TO CONNECTION.
- (H) 1-1/2" METER SETTER: FORD VBH86-12B-11-66-NL. 2" METER SETTER: FORD VBH87-12B-11-77-NL.
- (I) METER BOX: ARMORCAST, A6001640PCX12-NUD (2 BOXES STACKED, NO "MOUSE HOLES").
- (J) COVER: ARMORCAST, A6001947T-H10-NUD.
- (K) 90° BRASS ELBOW, FIPxFIP. SIZE TO MATCH SETTER.
- (L) BRASS NIPPLE, LENGTH TO FIT. MIPxMIP. SIZE TO MATCH SETTER.
- (M) 4"x8"x16" CONCRETE BLOCK.
- (N) TWO 2"x4"x8" CONCRETE BRICKS, ONE ON EITHER SIDE OF THE BALL VALVE TO SUPPORT ETHAFOAM RING.
- (O) ADAPTER, MIPxPACK JOINT, FORD #C84-67-NL WITH STIFFENER FOR 1 1/2" SETTER AND FORD #C84-77-NL WITH STIFFENER FOR 2" SETTER. STIFFENER, FORD INSERT-55 OR MUELLER 528707.

**NOTE:**

1. FOR PREMISE ISOLATION, AN APPROVED BACKFLOW ASSEMBLY SHALL BE INSTALLED IMMEDIATELY BEHIND THE WATER METER PER DISTRICT STANDARD WATER DETAILS #13, #14a, AND #14b.
2. ALL PEX<sub>a</sub> PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.

**1-1/2" & 2" WATER SERVICE**

NOT TO SCALE

<b>DETAIL APPROVALS</b>	
<b>EDITOR</b>	TMC
<b>MANAGER</b>	EM

**NORTHSHORE UTILITY DISTRICT**  
2024 STANDARD WATER DETAILS

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LAST UPDATED  
MARCH 2024