**ALL JOINTS SHALL BE RESTRAINED.**
Fittings: Megalug Restraints, or equal
Pipe Bells: Field Lok Gaskets, or equal

**2" 90° BEND (MIP x COMP)**

**2" CURB STOP W/ LOCKING WING (COMP x COMP)**

**3" TAPPING SADDLE W/ FIP BRASS NIPPLE & 2" BALL VALVE**

**2" TAPPING SADDLE W/ FIP**

**INSULATING GASKET, BOLT SLEEVES, AND WASHERS**

**32-LB (MIN) PREPACKAGED HIGH POTENTIAL MAGNESIUM ANODE**

(See W-24A for Installation Details)

**3" METER INSTALLED BY CITY**

**3/4" CLEAN CRUSHED GRAVEL:**
- 6" (MIN) ON ALL SIDES
- 6" (MIN) ON BOTTOM
- Inside Meter Box to 4" below Water Meter

**KNOCK OUT SECTIONS FOR PIPE, MORTAR ALL OPENINGS**

**THREE CHRISTY B48X10 EXTENSIONS STACKED WITH ALL JOINTS MORTARED**

**3/4" CLEAN CRUSHED GRAVEL: 6" (MIN) CLEARANCE**

**WRAP METAL BAND AROUND METER BOX**

**2" CURB STOP W/ LOCKING WING**

**SIDEWALK**

**FLANGED PIPE BELL**

**INSULATING GASKET, BOLT SLEEVES, AND WASHERS**

**FLANGE CONNECTIONS MUST BE INSULATED**

**INSULATING GASKET, BOLT SLEEVES, AND WASHERS**

**3" WATER SERVICE**

**APPROVED FITTINGS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MUELLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSULATED CORP. STOP (MIP x COMP)</td>
<td>N-35028</td>
</tr>
<tr>
<td>CURB STOP (COMP x COMP)</td>
<td>B-25209</td>
</tr>
<tr>
<td>90° BEND (COMP x MIP)</td>
<td>H-15531</td>
</tr>
</tbody>
</table>

**** SHALL BE INSULATED FITTINGS BY MUELLER OR JONES**

**INSULATING GASKETS SHALL BE TYPE E 1/8" THICK FULL-FACED NEOPRENE PHENOLIC GASKETS INSTALLED WITH GRADE G-10 FIBERGLASS EPOXY INSULATING BOLT SLEEVES AND WASHERS.**

**TEFLON BLUE NUTS ONLY.**

**SIDEWALK 24"**

**APPROVED FITTINGS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>MJ FLANGE ADAPTER WITH MEGALUG RESTRAINTS</td>
<td></td>
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</tbody>
</table>

**4" GATE VALVE AND 4"X3" REDUCER (FLG)**

**3" Hymax Flange Adapter**

**4" TEE (FLG)**

**2" TYPE "K" COPPER BYPASS LINE**

**3" FLG SPOOL**

**3" FLG x PE SPOOL**

**3" GATE VALVE AND 4"X3" REDUCER (FLG)**

**3" FLG x MJ TEE**

**3" FLG x MJ TEE**

**3" HYMAX FLANGE ADAPTER**

**4" GATE VALVE AND 4"X3" REDUCER (FLG)**

**3" METER INSTALLED BY CITY**

**PLAN**

**APPROVED FITTINGS**

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<tbody>
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<td>MJ FLANGE ADAPTER WITH MEGALUG RESTRAINTS</td>
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</tbody>
</table>

**3/4" CLEAN CRUSHED GRAVEL:**
- 6" (MIN) ON ALL SIDES
- 6" (MIN) ON BOTTOM
- Inside Meter Box to 4" below Water Meter

**ALTERNATE MATERIALS MUST BE APPROVED BY THE CITY OF NAPA WATER DIVISION PRIOR TO USE**

**CITY OF NAPA UTILITIES DEPARTMENT**

**3" WATER SERVICE**

**DRAWN BY:** DF
**APPROVAL DATE:** 09/2021
**SCALE:** NTS
**REVISED DATE:** 09/2021
**CHECKED BY:** SL
**APPROVED BY:** DD
**DRAWING NO:** W-3A.1
NOTES

1. METER BOX AND SERVICE LINE SHALL BE INSTALLED 3-FT (MIN) OUTSIDE OF DRIVEWAY, DRIVEWAY APPROACHES, AND OTHER VEHICULAR ACCESS WAYS.

2. SERVICE LATERAL (FROM WATER MAIN TO TEE AT METER/BYPASS SPLIT) SHALL BE 4" C900 PVC OR CLASS 350 DUCTILE IRON PIPE.

3. ALL BOLTS, STUDS, NUTS, AND WASHERS SHALL BE TYPE 304 STAINLESS STEEL WITH TEFLOM BLUE NUTS, AND CONFORM TO THE LATEST VERSION OF AWWA C111.

4. ALL BURIED SECTIONS OF METALLIC PIPE AND FITTINGS SHALL BE WRAPPED WITH AN 8-MIL POLYETHYLENE WRAP, WITH THE EXCEPTION OF COPPER PIPE AND BRASS FITTINGS WHICH SHALL BE WRAPPED WITH AN 8-MIL PLASTIC SLEEVE. COPPER PIPE NOT WRAPPED IN A PLASTIC SLEEVE SHALL BE NSF 61 APPROVED PLASTIC COATED COPPER TUBING (TYPE "K", BLUE IN COLOR). ALL BURIED INSULATED GASKETS SHALL BE WRAPPED WITH 10-MIL HIGH TACK PIPE WRAP TAPE 3-FT (MIN) TO EACH SIDE OF THE INSULATION POINTS.

5. EXISTING WATER MAINS SHALL BE HOT-TAPPED BY CITY FORCES AT DEVELOPER'S EXPENSE. HOT-TAP INCLUDES SADDLE, VALVE, G5 BOX, PVC RISER, AND MISCELLANEOUS FITTINGS. SEE W-16 FOR HOT-TAP REQUIREMENTS. HOT TAPS SHALL BE 36" (MIN) FROM ANY TAP, BELL, FITTING, OR OTHER SERVICE.

6. A TEE AND 4" GATE VALVE SHALL BE INSTALLED INSTEAD OF A HOT-TAP WHEN THE EXISTING WATER MAIN IS 4" IN DIAMETER, OR WHEN IT IS INSTALLED AS PART OF A NEW WATER MAIN INSTALLATION. 3" WATER SERVICES SHALL NOT BE INSTALLED ON WATER MAINS SMALLER THAN 4" IN DIAMETER.

7. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AND TESTED, AND WATER METERS SHALL BE SET, PRIOR TO ANY USE OF WATER SERVICE. USE OF JUMPERS, HOSE BIBS, OR OTHER DEVICES SHALL NOT BE PERMITTED.

8. METERS SHALL BE PLACED A MINIMUM OF 3-FT FROM ANY OBSTRUCTION (SIGN POST, MAIL BOX, FENCES, WALLS, ETC.). NO TREES SHALL BE PLANTED WITHIN 10-FT OR LARGE SHRUBS WITHIN 5-FT OF THE METER BOX. SEE W-18 FOR ADDITIONAL REQUIREMENTS.

9. SERVICES SHALL BE SIZED APPROPRIATELY FOR THE INTENDED USE OF THE SERVICE. WATER DIVISION MAY REQUEST AN ENGINEERED WATER ANALYSIS OF THE SYSTEM (NEW OR EXISTING) TO EVALUATE THE APPROPRIATENESS OF THE WATER SERVICE SIZE. NO UNDERSIZED WATER SERVICES SHALL BE PERMITTED.