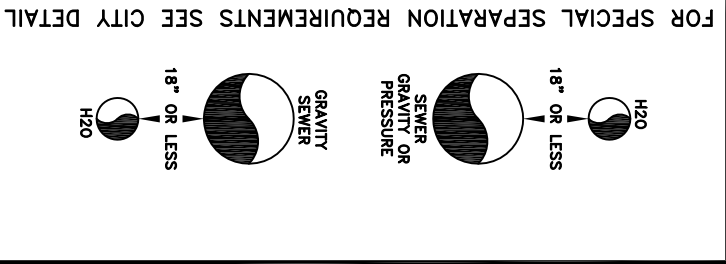


ALL PIPING SHALL BE DUCTILE IRON PRESSURE CLASS 350 (TYP)

EXAMPLE 1

EXAMPLE 2



GENERAL NOTES:

1. THE ENTIRE RUN SHALL BE DUCTILE IRON AND RESTRAINED.
2. A FULL LENGTH OF PIPE SHALL BE INSTALLED AT BOTH BEGINNING AND END OF THE DEFLECTED RUNS.
3. THE FIRST BELL END JOINT AFTER THE DEFLECTED RUNS SHALL BE RESTRAINED.
4. WHEN THE WATER MAIN IS INSTALLED OVER THE SEWER MAIN AND DOES NOT MEET THE 18" SEPARATION A CASING SHALL BE INSTALLED. THE MINIMUM DEPTH OF THE WATER MAIN SHALL BE 3.5', BUT WHEN DEFLECTING THE WATER MAIN OVER THE SEWER MAIN USING A CASING, THE SEPARATION BETWEEN THE BOTTOM OF THE CASING AND THE TOP OF THE SEWER MAIN MAY BE 6".
5. WHEN DEFLECTING THE WATER MAIN OVER THE SEWER MAIN WITHOUT A CASING THE MINIMUM SEPARATION BETWEEN THE BOTTOM OF THE WATER MAIN AND TOP OF THE SEWER MAIN SHALL BE 18".
6. AT NO TIME SHALL A PRESSURE SEWER MAIN BE LOCATED OVER THE WATER MAIN OR WATER SERVICE.

**DEFLECTED WATER MAIN
INSTALLATION FOR GRAVITY
SEWER ONLY**

APPROVED BY:

DWG. NO.

CITY ENGINEER

WA-7

CITY OF TUMWATER, WASHINGTON
DEPT. OF PUBLIC WORKS

DES. PW	DWG. BY PW	CKD BY KMC	DATE JULY 2014	NOT TO SCALE
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FOR SPECIAL SEPARATION REQUIREMENTS SEE CITY DETAIL