

**PIPELINE EXTENSION AGREEMENT STUDY**

**Title:** 187 Sacramento Avenue, San Anselmo

**Prepared by:** Joseph Eischens

**Date:** November 7, 2023

**Type of Development:** Single family dwelling

**Area/System:** Tomahawk Tank – high level system

**Lead Agency:** Marin County

**CEQA Requirements:** Categorical Exemption

**Fire Flow Requirement:** 500gpm at 20psi residual                      **Set By:** MCFD

**Building Site Elevation:** 210’    **Pressure:** 120psi

**Water Facilities Required:** 160’ of 6” pipe, 1-6” hydrant and 1-1” service

**Annual Consumption:** 0.30 acre-feet                                      **Average Summer Day:** 402 gallons

	<b>Before</b>	<b>After</b>	<b>Dist. Standard/Minimum</b>
<b>Tank Adequacy Rating:</b>	2.55	2.55	2.00/1.25
<b>Pump Adequacy Rating:</b>	4.3	4.3	3.00/1.50

Estimated Cost of Work: A summary of the estimated costs to provide facilities and capacity for the pipeline extension applied for as developed in this report is as follows:

	<b>Column 1: Materials, Fees, and Charges</b>	<b>Column 2: Installation Costs</b>	<b>Column 3: Total</b>
Pipeline Installation	\$8,899	\$36,500	\$45,399
Hydrant Installation	\$3,442	\$12,000	\$15,442
Service Installation	\$975	\$6,135	\$7,110
District Labor and Equipment	\$11,520	\$0	\$11,520
Connection Fee	\$13,582	\$0	\$13,582
Storage Charge	\$617	\$0	\$617
Pumping Charge	\$361	\$0	\$361
<b>TOTAL</b>	<b>\$39,396</b>	<b>\$54,635</b>	<b>\$94,031</b>

Said cost estimates are made solely for the convenience of District in determining required deposits, bonds, and guarantees; and they are based, in part, on information submitted by the applicant.