

MRPE's role in helping to deliver clean and safe drinking water to the Sacramento region spans projects such as re-writing the guidelines for the City's approach to water distribution to executing these guidelines in the design of water systems for community expansion.

MRPE's experience and understanding of every aspect of a City's infrastructure such as wastewater, storm water, transportation and site development provides for a holistic understanding of a well-designed municipal water system.



### **City of Sacramento Design and Procedures Manual – Section 13 Water Distribution Systems** (2015 – present)

Rewrite the municipal requirements for planning and design of potable water distribution and transmission throughout the City of Sacramento. The previous version of Section 13 had not been updated for a quarter of a century. The planning and design of water improvements will be more efficient and the water system will be optimized for the next quarter century.

### **Plan checking for the City of Sacramento Department of Utilities** (2015 – present)

Review improvement plans submitted by developers for the construction of onsite improvements. Our expert defined the plan review guidelines as a senior engineer for DOU and continues to apply his expertise as an MRPE consultant. Our plan checking services help the DOU to maintain right-sized staffing and still meet their plan review deadlines under fluctuating workloads.

### **Addison Place Subdivision** (2003 – present)

Design water distribution system, services and fire hydrants to serve a new 38-lot subdivision. This subdivision was initiated during a peak of housing expansion in Sacramento, subsequently stalled during the recession and was finally realized with the assistance of MRPE. This subdivision will provide highly sought-after housing near central Folsom.

### **Bradman Subdivision** (2005 – 2007)

Designed a water distribution system to serve a new 9-lot subdivision. Approximately ¼ mile of 8" main plus new hydrants and services served this residential development in Rio Linda. This subdivision provided affordable housing near Sacramento.

### **Jefferson Boulevard Water Main** (2001)

Coordinated, calculated and placed construction stakes for 1000 feet of 8" and 10" water main extension. Alignment errors were discovered and rectified during staking calculations such that construction could continue unabated. Nearby businesses and residences now enjoy improved water pressures and reliability.

### **Majestic Oak Subdivision** (2002 – 2006)

Designed a water distribution system to serve a new 29-lot subdivision in Vacaville. Plans included approximately ½ mile of 8" to 12" water main with services and fire hydrants for this residential development. This project provided housing in a desirable area during a phase of rapid expansion in this area that serves both the Sacramento Valley and Bay Area.