

# UTILITIES



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UTILITIES

P&M provides specialized project delivery services to public utility and municipal agencies by supporting in the delivery of major capital programs and projects from conceptual stage thru construction and commissioning.

P&M is a certified small business (SBE) firm with King County, Washington Office of Minority and Women Business Enterprise, Los Angeles Metropolitan Transportation Authority and Southern California Regional Rail Authority.

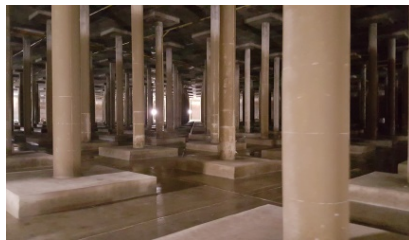


King County North Mercer and Enatai Island Interceptors, Seattle, WA (2014-2020)

Prime: TetraTech Project Cost: \$120M

P&M provides cost estimating and scheduling services. This includes development of construction cost estimates and construction schedules for 30/60/90/100% design and design and construction alternative 'what-ifs'.

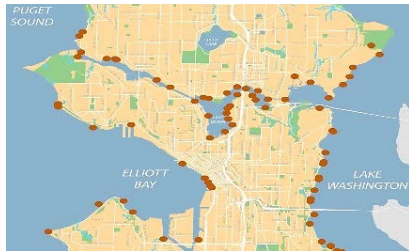
The challenges of the early design estimating on this project were the various types of conveyance routes being considered: land routes, direct bore routes, HD bore routes and lake bottom cut & cover routes. The project replaces sewer pipes serving areas of North Mercer Island, Bellevue near Enatai Beach, and the Town of Beaux Arts Village.



Seattle Public Utilities Project Controls IDIQ Services, Seattle, WA (2009-2018)

Prime: P&M Project Cost: NA

P&M provides project planning and controls on selected projects; develop Project Management Plans (PMP's); monitor and control on-going PMP's; support systems integration, enhancements, and process development; and, project performance reporting. P&M won 2 subsequent contracts renewals.

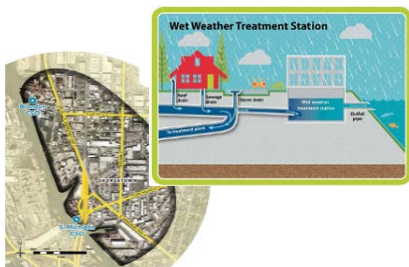


Seattle Public Utilities Combined Sewer Overflow (CSO) Program Management, Seattle, WA (2010-2016)

Prime: CH2M Project Cost: \$600M

P&M provided integrated cost and scheduling management; independent cost estimate (ICE) reviews; improved cash flow planning and budget accuracy; and, continuous process improvements efforts.

The program included planning, preliminary engineering, design, construction, and commissioning of CSO storage tanks, system retrofits and green infrastructure.



King County Georgetown Wet Weather Treatment Station, Seattle, WA (2013-2018)

Prime: CH2M Project Cost: \$250M

P&M provided cost estimating and scheduling. The estimating services included review of the planning level LTCP estimates and development of engineer's cost estimates from conceptual through final design while scheduling services included development and update of project and construction schedules at various design levels. The project entails comprehensive engineering and consulting for the design, environmental compliance, construction, permitting and commissioning of the wet weather treatment station.

**PLANNING & MANAGEMENT SERVICES, INC.**

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**SPU & King County West Ship Canal, Seattle, WA (2014-2016)**  
 Prime: CH2M Project Cost: \$600M

- 1) P&M, as an Independent Cost Estimator (ICE), developed alternative conceptual cost estimates for three CSO underground tanks for comparison to the West Ship Canal CSO Tunnel project.
- 2) P&M performed independent cost estimate reviews of the engineer's estimate at 10% & 30% design stages.



**King County WTD Project Controls IDIQ Services, Seattle, WA (2009-2013)**  
 Prime: P&M Project Cost: NA

P&M was initially selected in 2009 to provide project controls and cost engineering for various capital design and construction projects for WTD. P&M was again awarded the subsequent contract in 2010 for another 3 years.

Services included development/update of cost estimating guidelines and trending methodology; asset management estimating methodology and EVM tool; risk management procedures and risk assessment; independent development and review of cost estimates; CPM scheduling; and, cost controls.



**King County South Magnolia Combined Sewer Overflow, Seattle, WA (2011-2013)**  
 Prime: Tetra Tech Project Cost: \$29M

P&M provided Lead Cost Estimating and Scheduling services from options analysis through final design. Scheduling included development and update of project and construction schedules. The project involved design of a new CSO facility that includes a 1.5 million underground storage tank and a gravity sewer pipeline (3,000 In. ft.) using Horizontal Directional Drilling (HDD) process.



**King County West Point Oxygen Generation and Dissolution System (OGADS) & Liquid Controls Replacement, Seattle, WA (2014-2018)**  
 Prime: CH2M Project Cost: >\$20M

P&M provided lead cost estimating services from Options Analysis through Final Design for both projects. The OGADS project was to modify or replace the oxygen generation facility and the oxygen dissolution system, including the surface aerators, motors, and generators. For the Controls replacement, the project entailed replacement of the West Section Plant Liquid Controls system with an Ovation SPCS (Supervisory Process Control System). The SPCS installation and commissioning included Electrical and Instrumentation & Controls.

Other Project Examples:

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## Other Projects:

- King County WTD Engineering Services Work Order for East Section Wastewater Treatment Facilities
- King County WTD Master Plan for Resiliency and Recovery Planning & Engineering Service
- King County WTD Generator Installation
- King County MEP Engineering Services
- King County WTD Interbay Forcemain & Odor Control
- King County WTD Construction Management Services for Kent/Auburn Conveyance System Improvements
- King County WTD Medina Odor Control
- King County WTD Project Formulation Program
- King County WTD South Plant Biogas Estimate Review
- US Navy Seaplane Whidbey Island Wastewater Treatment
- Puget Sound Energy Project Controls Services

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