



# UTILITY SERVICES

# ENGINEERING SOLUTIONS FOR CHANGE & GROWTH

Mattern & Craig distinguishes itself in the marketplace by delivering on three important commitments to our clients...

## OUR COMMITMENT TO YOU:

- We will deliver personal attention, professional insight and responsiveness unmatched by any engineering firm in our markets.
- A senior, hands-on engineer will serve as the project manager on every project, providing on-the-job project planning expertise, problem solving and accountability.
- Safety, efficiency, and the improvement of operations are our most important priorities on any project.

*Mattern & Craig has extensive experience in providing a variety of services for utility systems. From small extensions to serve building sites, to projects serving neighborhood streets, to County and City-wide systems. These comprehensive services are provided from project planning and financial assistance through design, final inspection and certification of construction.*

## Water Services

- pump stations
- water treatment plants (from small package plants to large expansions)
- raw water intake structures
- well development design
- water distribution systems
- high-capacity transmission lines
- O&M manuals
- hydraulic modeling (computer)
- trenchless technology design
- specialty valves / valve vaults
- funding applications
- asset management
- storage tanks

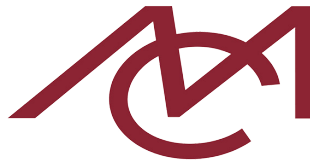
## Stormwater Drainage Services

- area-wide drainage improvements - study evaluation / design of repair / replacement implementation
- public participation / neighborhood meetings
- culvert replacements / culvert sliplining
- retaining walls / abutments / scour analysis
- floodwall and levee system design
- stormwater pump stations
- pressure storm drainage piping systems
- development of HEC-RAS and other models
- HEC-HMS watershed modeling
- stormwater detention basins with spillways
- storm drain inlet and pipe systems
- stormwater management systems
- survey / design of flood damage repairs
- FEMA grant applications - FEMA mitigation projects
- design of channel improvements
- approvals for channelization permits (i.e. DEQ, VRMC, and Corps of Engineers)

## Wastewater Services

- sewerline collection system
- pump stations
- interceptor sewers
- treatment plants
  - design of new, expansions & improvements
  - studies
  - administration of construction
- sanitary sewer evaluations
- sanitary sewer rehabilitation design
- infiltration/inflow studies
- flow monitoring
- utilities location and mapping
  - surveying and mapping
  - smoke and dye testing
  - CCTV inspection
- establishing sewershed priorities
- Assistance with NPDES permit requirements & negotiation
- Assistance with various types of funding mechanisms such as bonds issues and federal and state grants and loans





**Mattern & Craig**  
ENGINEERS • SURVEYORS

## Engineering solutions for change and growth.

### We help utility systems keep the water flowing for their neighborhoods

Mattern & Craig's experience includes the development of master plans, studies, preliminary engineering reports, preliminary and final design, construction administration and working with the standards and regulations governing water & sewer system facilities and in obtaining the required approvals and permits.



### Regional Knowledge + Engineering Expertise = Project Success

As a regional engineering firm, we provide clients with a powerful combination for project success - 1) first-hand knowledge of the project area and the priorities and concerns of its citizenry; and, 2) depth and breadth of utility engineering expertise.

We focus on all aspects of utility services:

- Construction Engineering Inspection
- Planning & Studies
- Design & Engineering
- Surveying
- Financial Assistance - funding applications and administration
- Permitting

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