

Heavy Civil GC/CM Services for Mouth of Duwamish Combined Sewer Overflow (MDCSO)

Influent Conveyance, Effluent Conveyance, and Outfall

July 24, 2025



King County

Department of
Natural Resources and Parks
**Wastewater Treatment
Division**



WTD Capital Delivery

FACILITY PROGRAMS



Agenda

- Program Overview
- Project Background
- GC/CM Delivery Method Validation
 - Meets Applicable Criteria
 - Management Plan
- Equity & Social Justice
- Diverse Business & Utilization
- Master Community Workforce Agreement
- Public Benefits
- Summary

King County Wastewater Treatment Division

Mission

We protect public health and the environment by collecting and cleaning wastewater while recovering valuable resources for a healthy and thriving Puget Sound Region.

Service

24/7/365 essential wastewater service to almost 2 million people and businesses in King County, plus portions of Pierce and Snohomish counties.



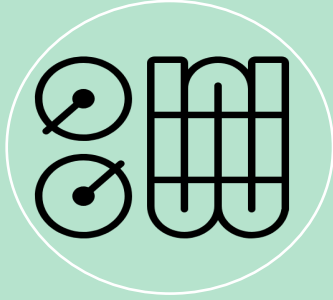
King County Wastewater Treatment
Division Service Area

Program Overview

- Deliver facilities to **control sewer overflows** during wet weather in the Duwamish River.
- Governed by a **consent decree** between King County, the EPA, and Ecology that set specific project requirements and deadlines of substantial completion in 2034 for this program.
- Achieve **regulatory compliance** per RCW 90.48 and WAC 173-245.
- Manage **multiple projects in a coordinated way**, with benefits that could not occur if the projects were handled separately.



MDCSO Program



Wet Weather Treatment Station Project

- Pumping
- Screening
- Sedimentation
- EQ
- UV Disinfection
- Solids Storage
- Electrical Systems

PRC Approved May 2025



Influent Conveyance Project

- EBI to WWTS Conveyance
- Hanford to WWTS Conveyance
- Improvements for each HLKK Regulator Station
- EBI Diversion Structure
- Lander and Hanford Diversion Structures

Project Requesting Approval by PRC



Effluent Conveyance & Outfall Project

- Effluent Conveyance to the WWTS Outfall (open cut & trenchless)
- WWTS Effluent Outfall and Diffuser



Chelan CSO Project

- Chelan Storage Tank
- Chelan Conveyance
- Chelan Diversion Structure
- Chelan Regulator Station Improvements

Future PRC Approval



WTD Capital Delivery

FACILITY PROGRAMS

Project Background



WTD Capital Delivery

FACILITY PROGRAMS

Project Overview

Influent Conveyance

The Influent Conveyance portion of the project includes construction of conveyance systems and structures to direct flow from multiple locations **into** the Wet Weather Treatment Station (WWTS) (separate project approved by PRC in May 2025). Work includes:

- Influent piping conveyance using open cut and trenchless methods
- Capacity improvements to the King and Kingdome regulators
- New diversion structures at Hanford, Lander and Elliott Bay Interceptor
- Surface demolition and restoration along conveyance route
- Installation of above-grade building services at regulator and diversion structures



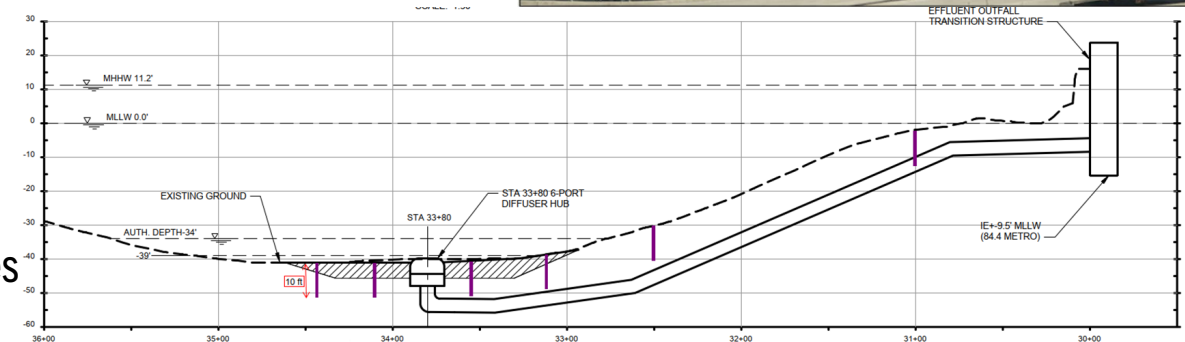
Conveyance Construction

Project Overview

Effluent Conveyance and Outfall

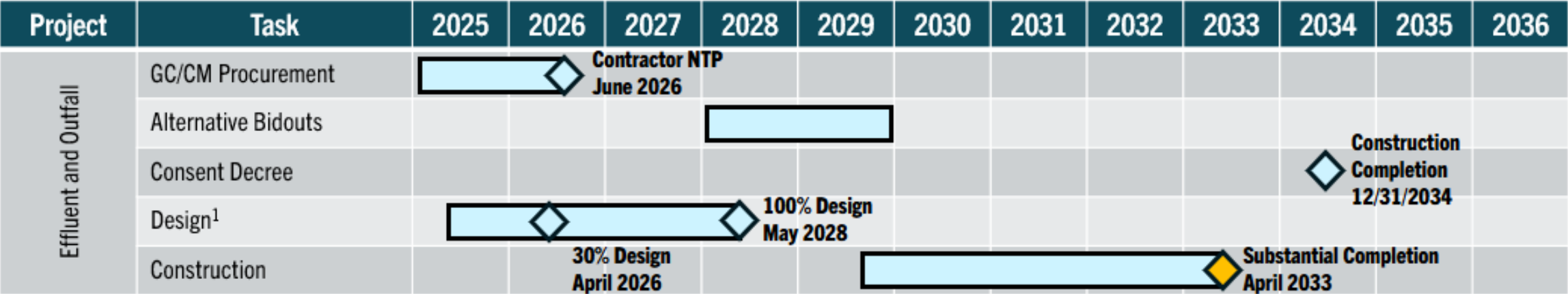
The Effluent Conveyance and Outfall portion of the project includes construction of conveyance systems and structures to direct treated water **discharging from the WWTs** into the Duwamish Waterway. Work includes:

- Open-cut and trenchless conveyance, in-water outfall pipe and diffuser installed within a sheeted trench, fish habitat surface layer restoration in outfall trench, and anchored barges for excavation
- New pump station to support effluent discharge
- Modifications & relocation of existing utilities; surface restoration
- Marine dredging and contaminated sediment removal
- Installation of soldier piles at below-grade structures and bearing piles stabilization.



Effluent Conveyance & Outfall – Location and Profile

Key Schedule Milestones



¹ Design duration is 30% Design through Final Design.

Legend:

= Milestone

= Task activity

RFP Advertisement Date is scheduled for October 2025

GC/CM Delivery Method Validation

Meets Applicable Criteria

GC/CM Criteria

- ✓ Complex scheduling, phasing, and coordination
- ✓ GC/CM involvement during design is critical
- ✓ Complex technical work environment
- ✓ Heavy Civil

X Historical Significance – N/A



Complex Scheduling/Phasing

Accelerated schedule is critical to meet Consent Decree milestones

- Critical path for program delivery, must be operational for WWTS to function
- Connections / integration with WWTS must be completed during dry season (May 1 - September 30)
- Complex environmental permitting requirements, including the relationship between design and permitting across multiple packages

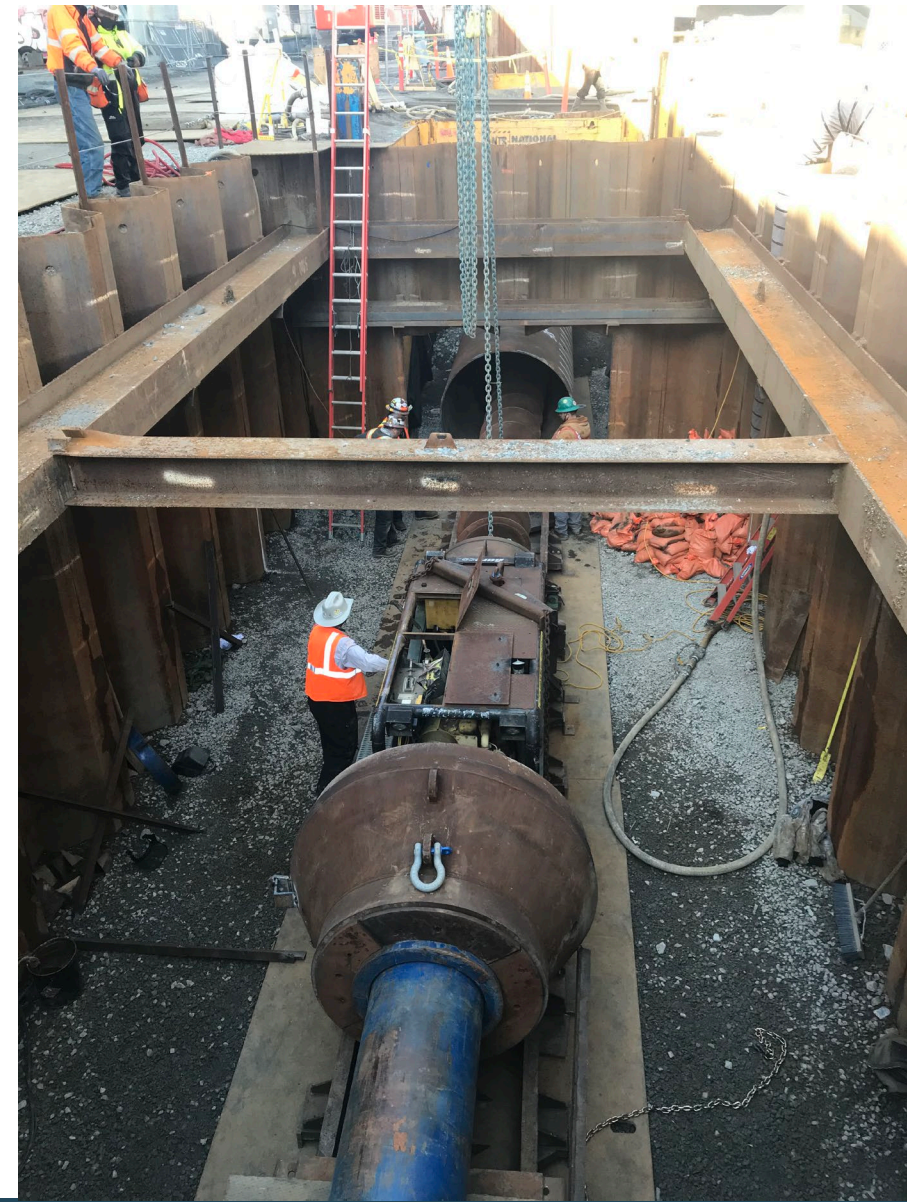


WTD Capital Delivery

FACILITY PROGRAMS

GC/CM Involvement is Critical

- Develop and refine sequencing of the work to meet consent decree schedule requirements
- Initiate critical **early** work
- Value engineering and constructability reviews
- Improved cost estimating
- Collaborative risk management
- Engage local contracting community through subcontracting



Complex & Technical Environment

- Contamination exists in a portion of the proposed site, extent and nature of mitigation is unknown
- Site location is within the historic Duwamish estuary, potential for seismically induced lateral spread and liquified soil
- Site borders multiple rail lines requiring complex permitting
- Tight urban site with constrained access and phased laydown/staging



Effluent Conveyance and Outfall Site Area

Heavy Civil

- Work is primarily infrastructure
- GC/CM control of critical path (early work packages, procurements, etc.)
- Increased self performance threshold improves schedule certainty
- Technical complexity and Consent Decree deadline require flexible and responsive delivery

Supportive contractor feedback through industry outreach including tactical RFIs



GC/CM Delivery Method Validation

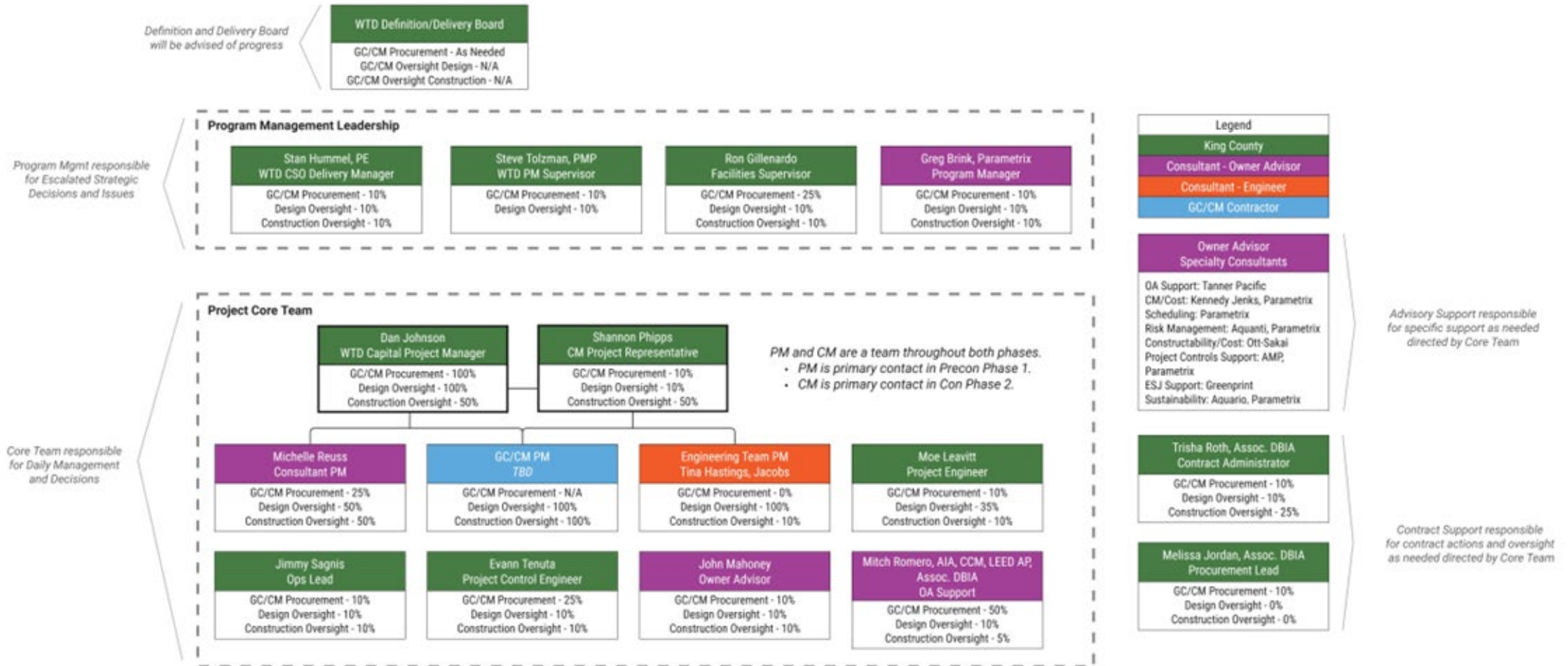
Management Plan



WTD Capital Delivery

FACILITY PROGRAMS

Org Chart



Qualified Team

King County Key Staff

- Stan Hummel (CSO Delivery Manager) – 33 yrs, 3 GC/CM projects
- Steve Tolzman (Program Manager) – 20+ yrs project management
- Daniel Johnson (Project Manager) – 36 yrs, 1 IDAC project (USACE form of GC/CM)
- Moe Leavitt (Project Engineer) – 19 yrs, 1 GC/CM project
- Shannon Phipps (Construction Manager) – 33 yrs, 1 GC/CM project
- Melissa Jordan (Procurement Lead) – 18 yrs public procurement experience, 4 GC/CM projects
- Trisha Roth (Contract Administrator) – 20 yrs, 4 GC/CM projects

Consultant Key Staff

- Greg Brink (Program Manager) – 20 yrs, 5 GC/CM projects
- Michelle Reuss (Consultant Project Manager) – 25 yrs, 2 GC/CM projects
- John Mahoney (Owner Advisor) – 25 yrs, 2 GC/CM projects
- Mitch Romero (Owner Advisor Support) – 30 yrs, 13 GC/CM projects
- Anne Timmermans (Construction Manager) – 21 yrs, 7 GC/CM projects
- Nicki Pozos (Program Equity Manager) – 20 yrs, 5 GC/CM projects



WTD Capital Delivery

FACILITY PROGRAMS

Budget & Funding

- Current Proposed Budget \$556.4M
- Total GC/CM Budget \$324.4M
 - Includes preconstruction services and sales tax
- Project will be funded by King County Wastewater utility rates
- King County is pursuing potential funding through EPA State Revolving Fund and Water Infrastructure Finance Innovation Act (WIFIA) funding

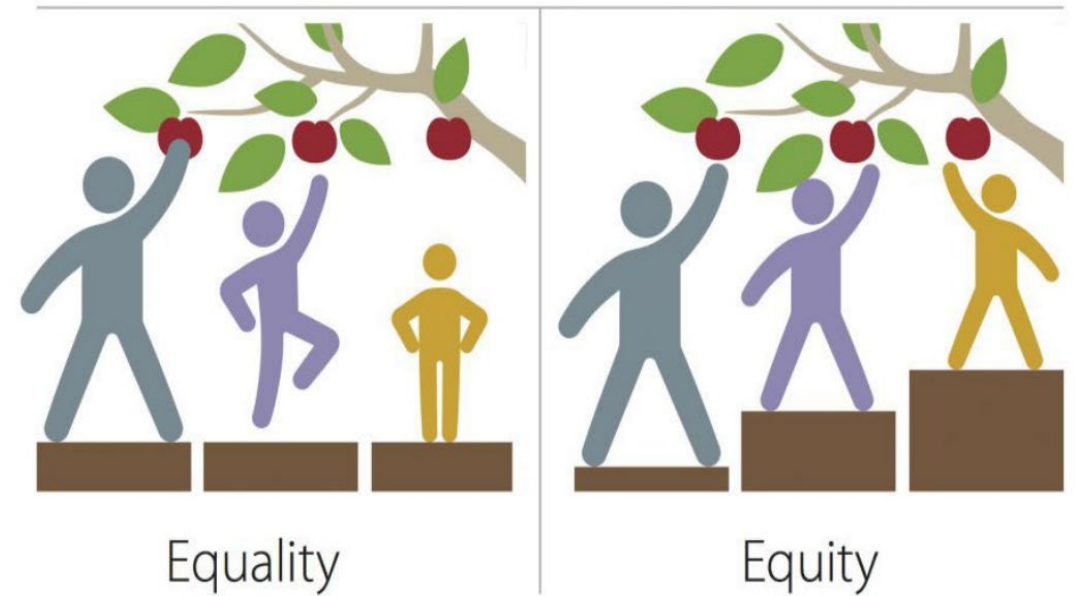
MDCSO-Influent Conveyance, Effluent Conveyance, and Outfall: AACE Class V Cost Estimate	
Construction Costs	\$325.0M
Non-Construction Costs	\$92.4M
Right-of-Way	\$5.5M
Contingency	\$131.9M
Initiatives	\$1.6M
Total ^{1, 2}	\$556.4M

¹ Includes escalation

² Estimate based on ~15% Design

Equity & Social Justice

- Pro-Equity Contracting Goals
- Expand opportunities and maximizing participation for Certified DBE, MBE and WBE firms throughout design and construction
- Mentor Protégé program
- Good Faith Efforts will be monitored throughout the project
- ESJ Coordinator/Manager will be required
- Compliance monitoring in King County's Diversity Compliance Management System



"I want to open the doors of opportunity to every single person in King County, Washington. That's why I issued an executive order strengthening pro-equity contracting, so that our minority-and women-owned businesses can substantially increase their participation in County contracts."

- Former King County Executive Dow Constantine

Diverse Business & Utilization

Project Name	Contract Value	Commitment	Achievement	Contract Status
Wastewater Treatment Division Projects				
Georgetown Wet Weather Treatment Station (GWWTS)	\$107,543,926	MBE – 4.7% WBE – 1.4%	MBE – 6.7% WBE – 3.0%	100% complete
GWWTS – Conveyance	\$22,362,090	MBE – 10% WBE – 6%	MBE – 17.4% WBE – 7.5%	100% complete
Eastside Interceptor Section 2 Rehab Phase II	\$20,536,847	SCS – 8%	SCS – 11.8%	100% complete
WPTP Primary Sedimentation Area Roof Structure	\$23,006,376	DBE – 0% SCS – 20%	DBE – 3.4% SCS – 19.6%	100% complete

Master Community Workforce Agreement

Priority Hire

Addresses construction workforce shortage, diversifies the construction workforce, and provides disadvantaged communities access to opportunities

Prioritizes individuals living in economically distressed King County areas (Priority Hire zip codes)

Provisions in King County Code (KCC 12.18A) and Contract Specifications including all terms and conditions of the Master Community Workforce Agreement (MCWA)

Workforce Requirements

Apprenticeship: Apprentices must work a minimum of 15% of the total labor hours.

Priority Hire Apprenticeship: Priority Hire Apprentices shall work 27% of all apprenticeship labor hours.

Priority Hire Journey Workers: Priority Hire Journey Workers shall work 18% of all journey labor hours.

Preferred Entry: 20%

Public Benefits



WTD Capital Delivery

FACILITY PROGRAMS

Public Benefits

GC/CM

- Schedule
- Risk management
- Enhanced cost control
- Maintaining level of service

Heavy Civil

- More delivery control
- Improved flexibility in planning and sequencing work
- Improved market attractiveness per industry feedback
- Self perform work increases schedule predictability

Alternative Subcontracting

Benefits

- Secure continued involvement of key staff
- Engagement in planning for constructability
- Early procurement of long lead materials
- Specialized skill requirements
- Supports price and schedule certainty

King County will collaborate with the future GC/CM to identify the alternative subcontracting packages.

Requesting all potential Alternative Subcontracting packages now for project team and GC/CM flexibility.

Alternative Subcontracting

Proposed Alt. Subcontracts

- Electrical Contractor/Construction Manager (EC/CM)
- Environmental Remediation/Hazardous Materials Specialist
- Ground Improvement/Specialty Geotech
- Instrumentation/Controls Subcontractor
- Marine subcontractor for in-water work
- Mechanical Contractor/Construction Manager (MC/CM)
- Prefabricated Systems/Equipment Subcontractor
- Site Work Subcontractor
- Specialty Civil Subcontractor
- Specialty Fabrications Subcontractor
- Specialty Structures Subcontractor
- Trenchless Excavation Subcontractor
- Temporary Works/Bypass Systems Subcontractor

*Supportive contractor feedback through industry outreach
including tactical RFIs*

Summary



WTD Capital Delivery

FACILITY PROGRAMS

Summary

Meets Qualifying Criteria

- ✓ Complex Schedule
- ✓ Technically Complex
- ✓ GC/CM Involvement During Design is Critical
- ✓ Seeking Heavy Civil Approval
- ✓ Public Benefits: Risk Management, Time, Cost

