



Presentation to

MWRA Board of Directors

***Agency Wide Technical Assistance Consulting Services
Contract 8062 (CDM Smith, Inc.) and
Contract 8063 (Hazen and Sawyer, Inc.)***

December 10, 2025



Examples of Recent Technical Assistance Projects

- Design and bidding services for rehab of the sodium hypochlorite tanks at Cottage Farm CSO Facility and Prison Point CSO Facility (Currently out to bid and substantial completion in October 2026);
- Design and bidding services to replace the two make-up air handling units at Ward Street Headworks Facility (Currently out to bid and substantial completion in December 2027); and
- Design, bidding services, and Engineering Services During Construction for the West Roxbury Tunnel inspection (Inspection completed September 2025 and Condition Assessment Report to be finalized in January 2026)



Cottage Farm CSO Facility
Sodium Hypochlorite Tank



Ward Street Headworks Make-Up Air Handling Units



West Roxbury Tunnel Inspection



Potential Future Technical Assistance Projects

- Structural Condition Assessment and Evaluation of the Bellevue 1 Standpipe
- Exterior Mobile Generator Connections at six facilities (Alewife Brook Pump Station, Intermediate High Pump Station, DeLauri Pump Station, Belmont Pump Station, Dudley Road Pump Station and Chemical Building, and Walnut Hill Chemical Building at the John J. Carroll Water Treatment Plant)
- Assessment and recommendations of interim roof repairs at the Columbus Park and Ward Street Headworks



Bellevue 1 Standpipe



Columbus Park Headworks Facility



Agency-Wide Technical Assistance Procurement

PROPOSER	FINAL RANKING	ORDER OF PREFERENCE TOTAL POINTS
CDM Smith, Inc.	1	6
Hazen and Sawyer, P.C.	2	13
Jacobs Engineering Group Inc.	3	15
Kleinfelder Northeast, Inc.	4	17
Arcadis U.S., Inc.	5	24



Presentation to

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***Deer Island Treatment Plant
Wind Turbine No. 1 Replacement
Contract 8148***

December 10, 2025



Deer Island Wind Turbines

- Deer Island has two Wind Turbine Generators (WTGs)
 - Tower Height: 110 feet;
Blade Length: 77 feet
 - Rated max power 600 kilowatts
 - Startup: April 2010
 - Replacement supports MWRA commitment to Commonwealth's Clean Energy and Climate Plan for 2050 and Executive Order 594





Wind Turbine No. 1 Background

Background:

- Catastrophic failure on May 29, 2023
- Board was updated on the failure in June 2023
- Damage to the following systems:
 - Mechanical and electrical equipment in nacelle
 - Wind turbine blades
 - Tower
- Litigation on-going





Contract 8148 Wind Turbine No. 1 Replacement

- Contract Scope:
 - Demolition of existing tower
 - Preservation of dismantled components
 - Furnish and install new tower, refurbished nacelle and wind turbine blades
 - Perform electrical, mechanical and power output testing
- Existing concrete foundation and anchors to be reused





Contract 8148 Procurement Summary

- Advertised and bid in accordance with MGL Chapter 30
- One bid received: O'Connor Corporation
 - Bid Amount: \$3,818,617
 - *Engineer's Estimate:* \$3,800,000
- Recommend award of contract 8148 to the lowest responsible and eligible bidder, O'Connor Corporation.



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***Harbor and Outfall Monitoring, Benthic, Fish,
and Shellfish Monitoring
Normandeau Associates, Inc.
Contract OP-401B, Amendment 4***

December 10, 2025



OP-401B Overview

- The current DITP NPDES permit requires monitoring of the benthic (seafloor) community as well as fish and shellfish.
- Results of both the benthic and fish and shellfish monitoring indicate no adverse effects from the outfall.





OP-401B Current Status



- Benthic and fish and shellfish monitoring are not expected to be in the new DITP NPDES permit, but monitoring must continue until the new permit is issued.
- Amendment 4 allows field work in 2026 and data analysis and report writing until October 2027.



Contract Summary

	Amount	Time	Date
Original Contract	\$1,399,332.30	46 months	2/10/2020
Amendment 1	\$541,480.10	12 months	4/7/2023
Amendment 2	\$557,230.94	12 months	4/17/2024
Amendment 3	\$488,799.27	12 months	1/27/2025
Amendment 4	\$618,262.12	12 months	
Adjusted Contract	\$3,605,104.73		

For OP-401B, amounts can be highly variable from year to year as contract tasks differ from year to year based on a 3-year cycle determined by the DITP NPDES permit.



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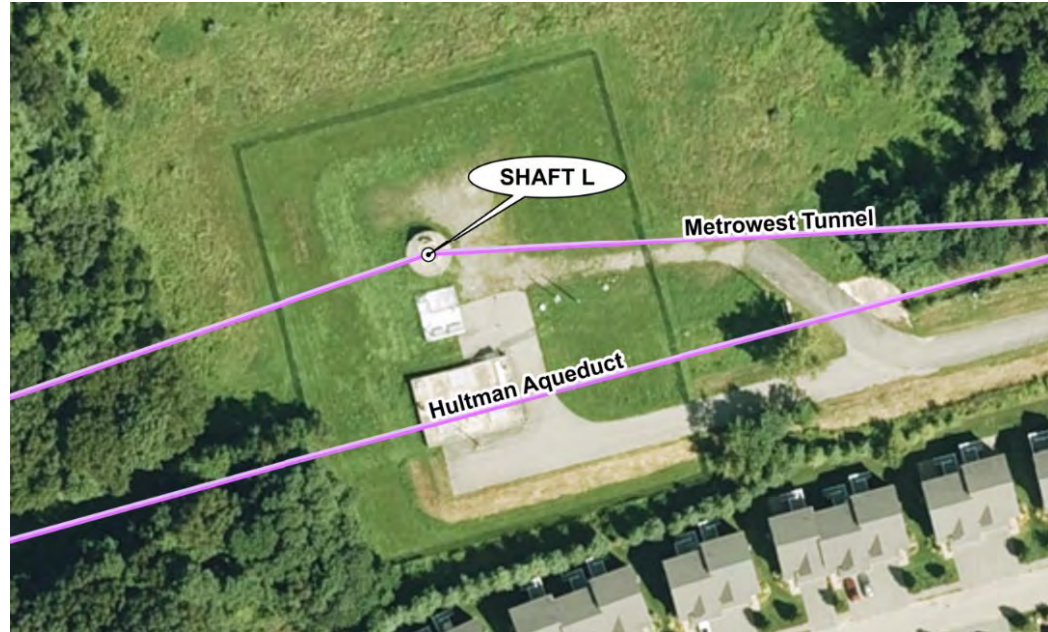
**Shaft L Interconnection Design, ESDC and
Resident Engineering Services, *Contract 8080***

December 10, 2025



Contract 8080 Shaft L Interconnection

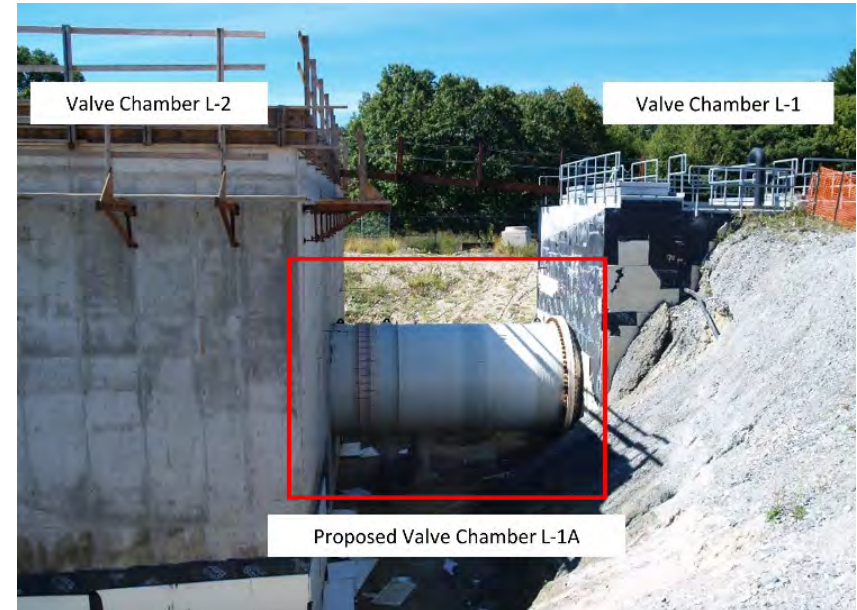
- MWRA Water System Expansion Study identified a potential demand of 34.2 mgd for 14 MetroWest Communities
 - Demand can be met through a 54-inch connection at Shaft L
 - Town of Wayland is actively pursuing connection to MWRA
- Feasibility study determined that the 54-inch interconnection is feasible at Shaft L.
 - Estimated construction cost is \$5.7M





Contract 8080 Shaft L Interconnection

- Contract 8080 includes design, bidding, engineering services during construction, and resident engineering services
- Major Design Components:
 - New Valve Chamber
 - Large Diameter Butterfly Valves
 - Special Fabrication Tees
- Design includes piping to Shaft L property line
 - Future CIP project required for Town of Wayland connection





Contract 8080 Procurement Results & Negotiations

Proposer	Proposed Contract Cost	Level of Effort (hours)
Delve Underground	\$3,472,377.00	16,335
<i>Engineer's Estimate</i>	\$2,270,000.00	12,297

Staff engaged in negotiations with Delve Underground to review LOE & costs.

Proposer	Proposed Contract Cost*	Level of Effort (hours)*
Delve Underground	\$2,986,210.00	13,330

*After negotiations

Staff recommends award to Delve Underground.



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***Quabbin Maintenance Building
Design Contract 7677, Amendment 3***

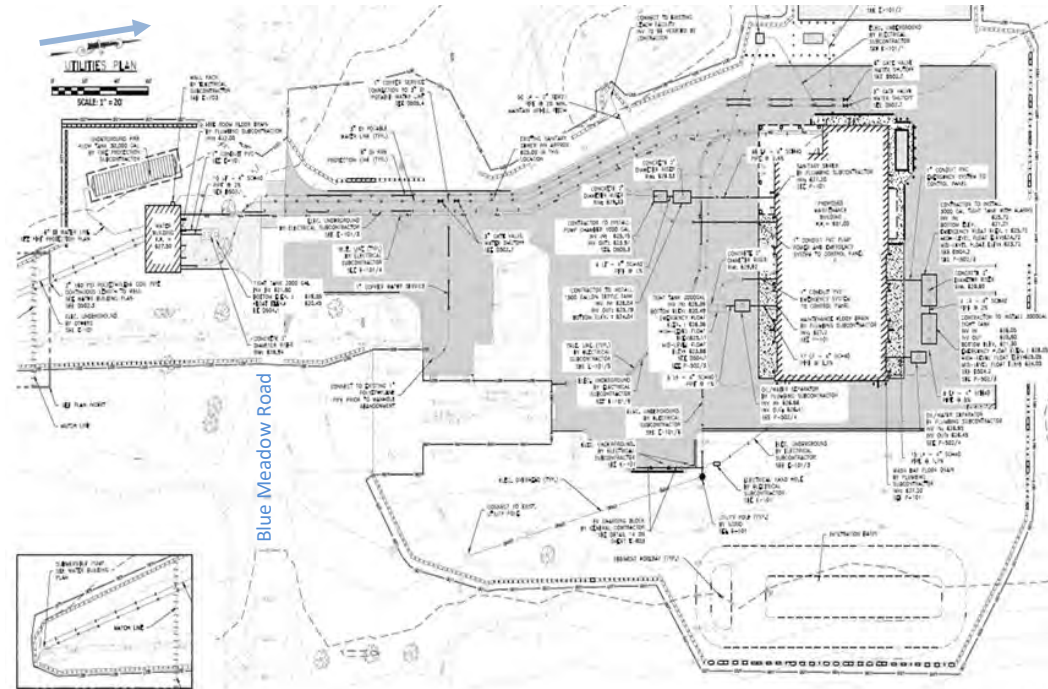
December 10, 2025



Completed QMB Bid Ready Plans for 7577 Construction Contract



- Bid set includes seven categories of filed sub-bids
- Final Bid Ready Documents to be completed by end of December 2025





Design Contract 7677, Proposed Amendment 3

- Proposed Amendment 3
 - No increase in contract price
 - 9 months time extension to complete QMB Construction Contract 7577 bidding and award

Contract 7677	AMOUNT	TIME
Original Contract	\$1,318,278	43 months
Amendment 1*	\$325,165	6 months
Amendment 2*	\$0	6 months
Amendment 3	\$0	9 months

* Approved under delegated authority