



Massachusetts Water Resources Authority



MWRA Update

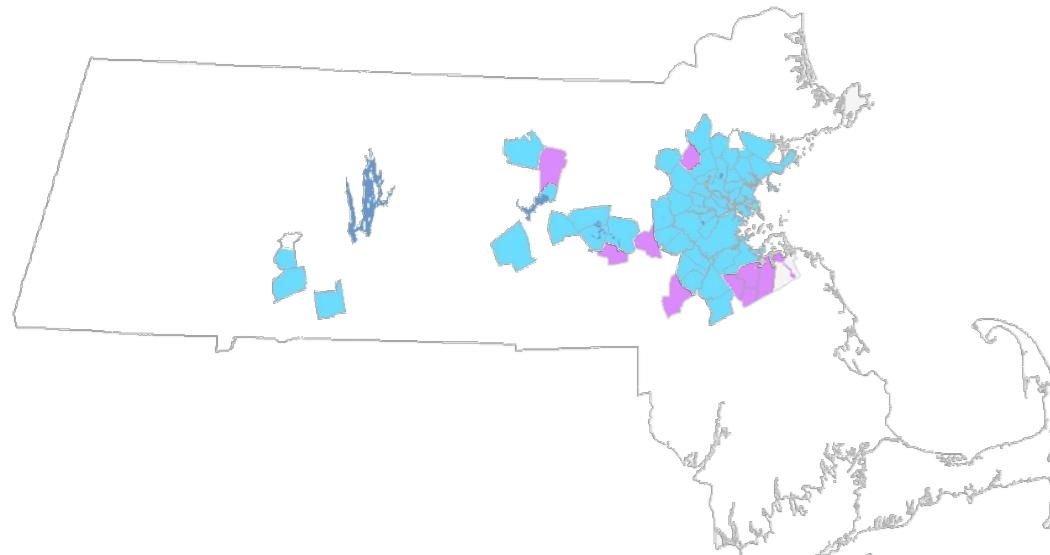
Presenters

Ester Lwebuga, Assistant Director - Engineering
Kathy Murtagh, Director - Tunnel Redundancy Program
May 8, 2025



MWRA ...

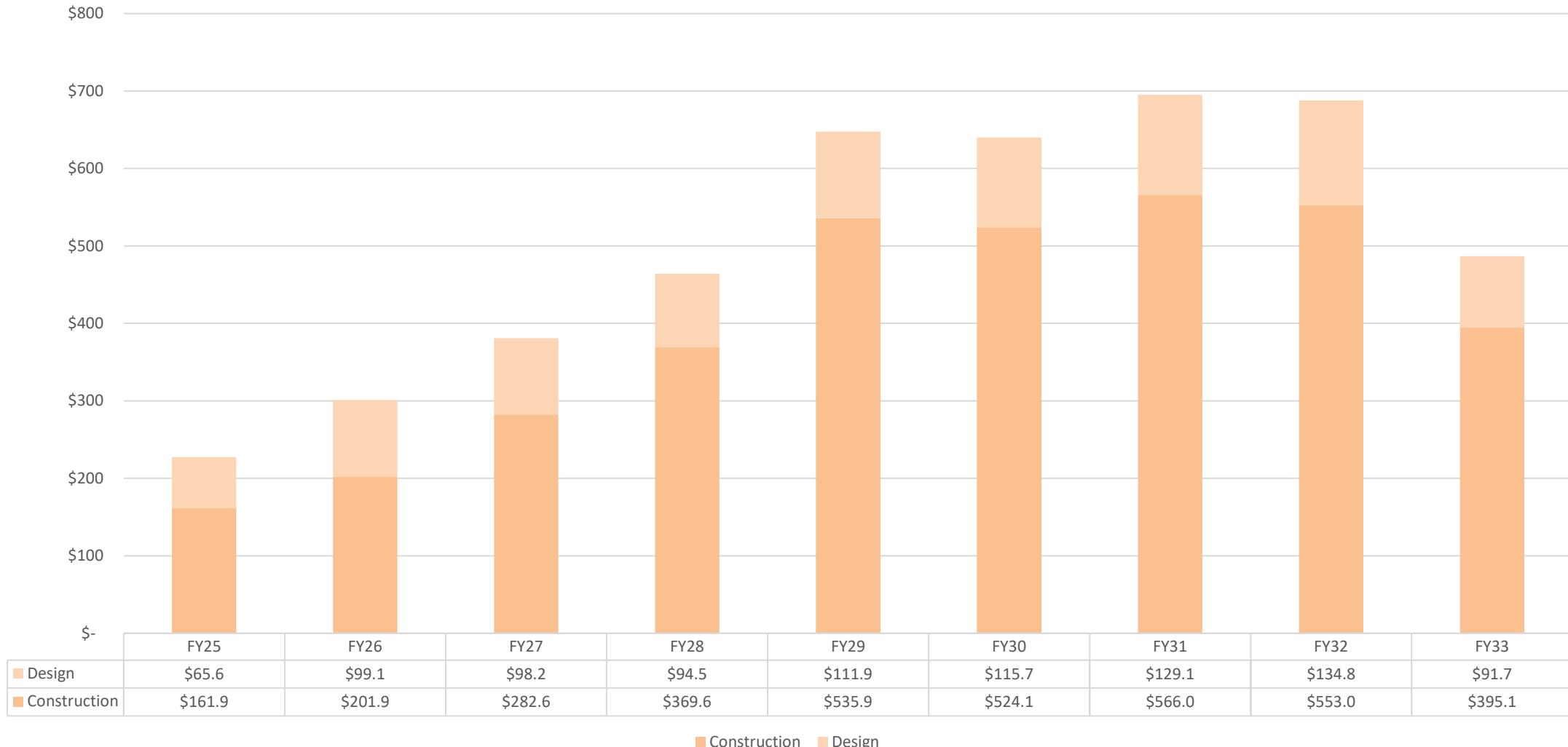
- provides wholesale water and wastewater services to over 3.1 million customers in 61 communities
- delivers an average of 200 million gallons per day to its water customers
- collects and treats an average of 350 million gallons of wastewater per day, with a peak capacity of 1.2 billion gallons





MWRA Capital Improvement Program - Projected Spending

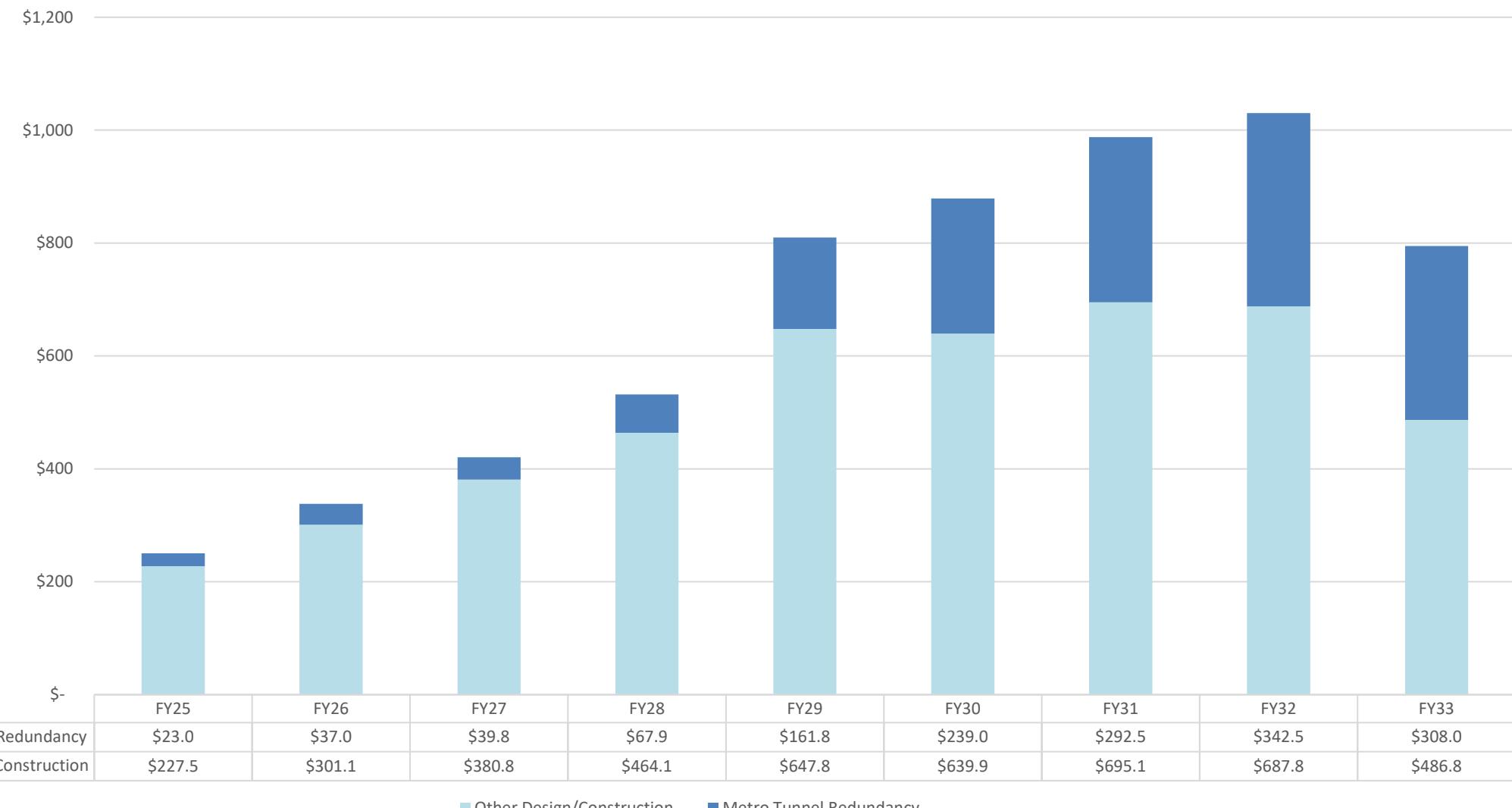
Design vs. Construction (\$s in millions)





MWRA Capital Improvement Program - Projected Spending

Metro Tunnel Redundancy vs. Other Design/Construction (\$s in millions)





Greater Use of Technical Assistance Contracts

Multi-discipline technical assistance contracts

- Assist on engineering study and design initiatives and provides ESDC and REI services
- Looking for expertise in the following areas:
 - Civil, Structural, Geotechnical
 - Environmental and sanitary
 - Mechanical and Process
 - HVAC
 - Fire Protection
 - Electrical, Control Systems
 - Chemical Engineering, Architecture, Surveying
 - Corrosion and Odor Control
 - Permitting
 - Security
 - Cost Estimating

Current Contracts

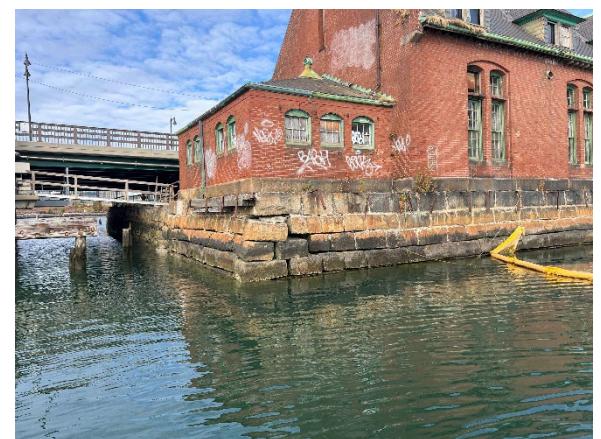
- Agency Wide - Two at \$4.5M (3 yr contracts) Advertisement July 25
- DITP - Three at \$2.7M (3 year) NTP Nov 23
- JJCWTP - Two at \$2.5M (3 year contracts) Advertisement June 25



Geo Dome Replacement



**Ware River Shaft 8
Lonergan Intake Building**

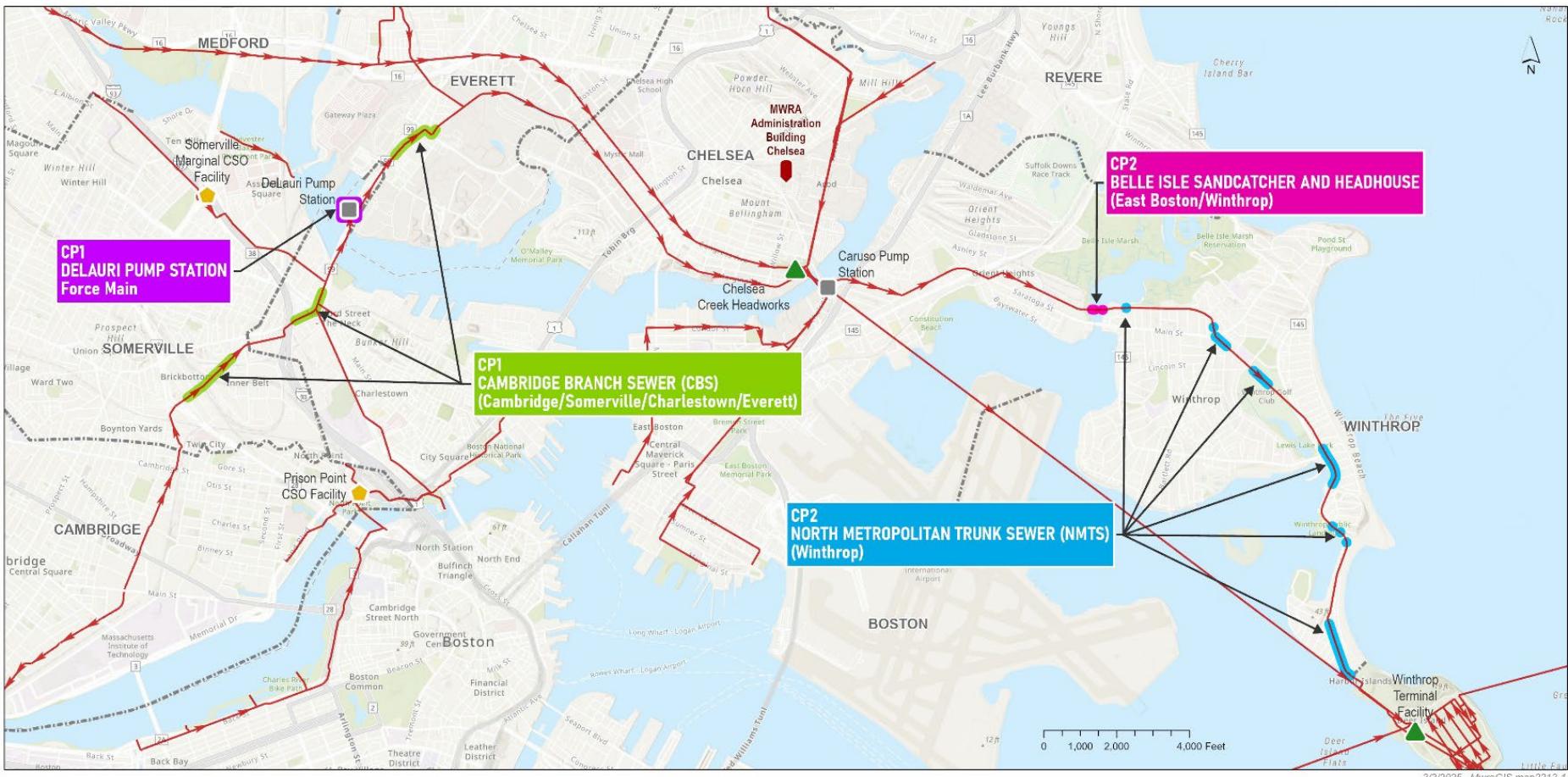


Charlestown PS Seawall



Changes to Design Contracts Packaging

- Packaging design projects into bigger design contracts
- For example, North Collection Sewer System
- Design/ESDC/REI Services
- Estimated Cost \$9.2M
- Advertisement - August 2025





Engineering Professional Services Contracts

- Inclusion of Resident Engineering and Resident Inspection Services in the design contracts
- Evaluating Construction Manager-at-Risk
- Proposal Evaluation
 - Cost – selection not based on price
 - Multiple selection criteria are weighed
 - Cost reasonableness
 - Qualifications and Key Personnel
 - Technical Approach, Capacity/Organization, and Management Approach
 - Relevant Experience/Past Performance
 - Minority and Women-Owned Business Enterprise Participation



Acquiring Consultant Work at the MWRA

- Process
 - Ok to contact PM before the project has been advertised
 - RFQ/P (or RFQ, RFP) Advertisement
 - MWRA Portal
 - Notification of advertised RFQ/Ps sent to registered users
 - <https://supplier.mwra.com>
- To learn more about upcoming CIP design projects

Contact	Title	E-mail
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Upcoming RFPs –FY26 Anticipated Deer Island and Tunnel Program Awards

Project	Subphase	Anticipated RFP Advertisement Date	Estimated Contract Amount Draft FY26 CIP (\$ in Millions)
<u>Deer Island Treatment Plant</u>			
DI Treatment Plant Asset Protection	Odor Control Rehab - Design/ESDC	Aug-25	\$14.0
DI Treatment Plant Asset Protection	Centrifuge Replac Des/ESCD/REI	Oct-25	\$14.0
DI Treatment Plant Asset Protection	Barge Berth Des/ESDC/REI	Apr-26	\$4.6
Residuals Asset Protection	Various Equip Replacement Design	Sep-25	\$3.8
<u>Tunnel Program</u>			
Metro Water Tunnel Program	Construction Management	July-25	\$151.1
Metro Water Tunnel Program	Owners Representative Services	Dec-25	\$6.3



Upcoming RFPs – FY26 Anticipated Wastewater Projects Awards

Project	Subphase	Anticipated RFP Advertisement Date	Estimated Contract Amount Draft FY26 CIP (\$ in Millions)
Facility Asset Protection	North Collection Sewer System. Des/ESDC/REI	Aug-25	\$9.2
Facility Asset Protection	Somerville-Marginal CSO Facility Rehab Des/CA/REI	Jun-25	\$4.0
Facility Asset Protection	Hingham Pump Station Rehab Des/ESDC/REI	Oct-25	\$3.5
Capital Maintenance Planning	As-Needed Des Contract 22 (aka Technical Assistance)	Jul-25	\$4.5
Capital Maintenance Planning	As-Needed Des Contract 23 (aka Technical Assistance)	Jul-25	\$4.5
Facility Asset Protection	New Neponset PS Rehab Des/ESDC	Mar-26	\$3.0
Siphon Structure Rehabilitation	Phase 2 Design/CA	May-26	\$2.9
Wastewater Meter Sys-Equip	Community Unmetered Flows Evaluation	Jul-26	\$2.7
Facility Asset Protection	DeLauri Pump Station Réhabilitation Design	May-26	\$1.5
Wastewater Central Monitoring	Microwave Redundancy System Improvements Study	Aug-25	\$0.5



Upcoming RFPs – FY26 Anticipated Water Projects Awards

Project	Subphase	Anticipated RFP Advertisement Date	Estimated Contract Amount Draft FY26 CIP (\$ in Millions)
NIH Redundancy & Storage	NIH Storage - Design/CA/RI	Jul-25	\$7.7
Rehab of Other Pump Stations	Pumping Stations Rehab-Des/CA	Jan-26	\$4.0
Section 80 Rehabilitation	Section 80 Rehab Design/CA	Jan-26	\$3.7
South Spine Distribution Mains	Section 22 - Design/ESDC	Jan-26	\$3.1
Watershed Division Capital Improvements	Quabbin Admin Bldg Rehab Des CA\RI	Apr-26	\$2.8
Carroll Water Treatment Plant	Technical Assistance 15	Jun-25	\$2.5
Carroll Water Treatment Plant	Technical Assistance 16	Jun-25	\$2.5
Quabbin Transmission Syst.	Lonergan Intake Bldg Walkway ESDC/REI	Jan-25	\$2.0
CWTP Asset Protection	CWTP Influent Contrl Impr. DES/ESDC	Apr-26	\$2.0
MetroWest Tunnel	Shaft L Interconnect Des/ESDC	Jun-25	\$1.3
Waterworks Facility Asset Protection	Pipe Bridge Insp./Structural Analysis	Jul-25	\$0.9



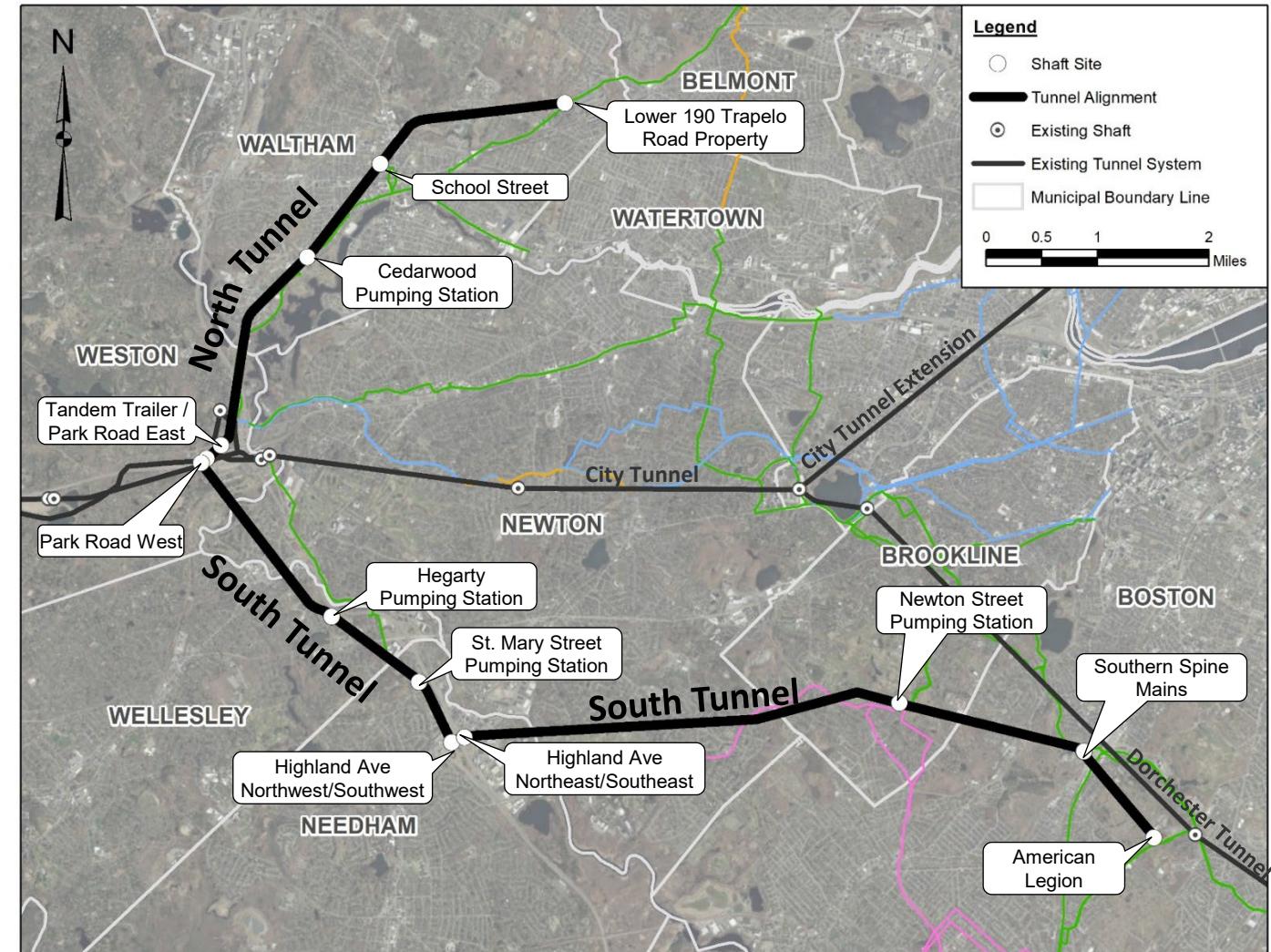
Upcoming RFPs – FY26 Anticipated REI Services Awards

Project	Subphase	Anticipated RFP Advertisement Date	Estimated Contract Amount Draft FY26 CIP (\$ in Millions)
Siphon Structure Rehabilitation	Siphon Structure Phase 1 REI	Jul-25	\$1.5
NHS - Revere & Malden Pipeline	Sect 14, 53 & 99 REI	Jun-25	\$3.6
Waterworks Facility Asset Protection	Roofs Gillis/Brattle/Newt REI	Jun-25	\$1.7
Norther Extra High Service New Pipe	REI CP-3	Jan-26	\$1.5
Facility Asset Protection	Intercept Renewal 7 REI	Dec-25	\$1.3
Waterworks Facility Asset Protection	Steel Tanks Improvements REI	May-25	\$1.1
NHS - Revere & Malden Pipe	Sect 56 Replace REI	May-25	\$1.1
Waterworks Facility Asset Protection	Steel Tank Improv REI Ph2	Oct-25	\$0.8
Metro Redundancy Interim Improvements	Shaft 5 Building Improvements REI	Nov-25	\$0.8
Metro Redundancy Interim Improvements	CP3 Tops of Shafts REI	Feb-26	\$0.7
DI Treatment Plant Asset Protection	Digester/Storage Tank REI	May-26	\$6.1



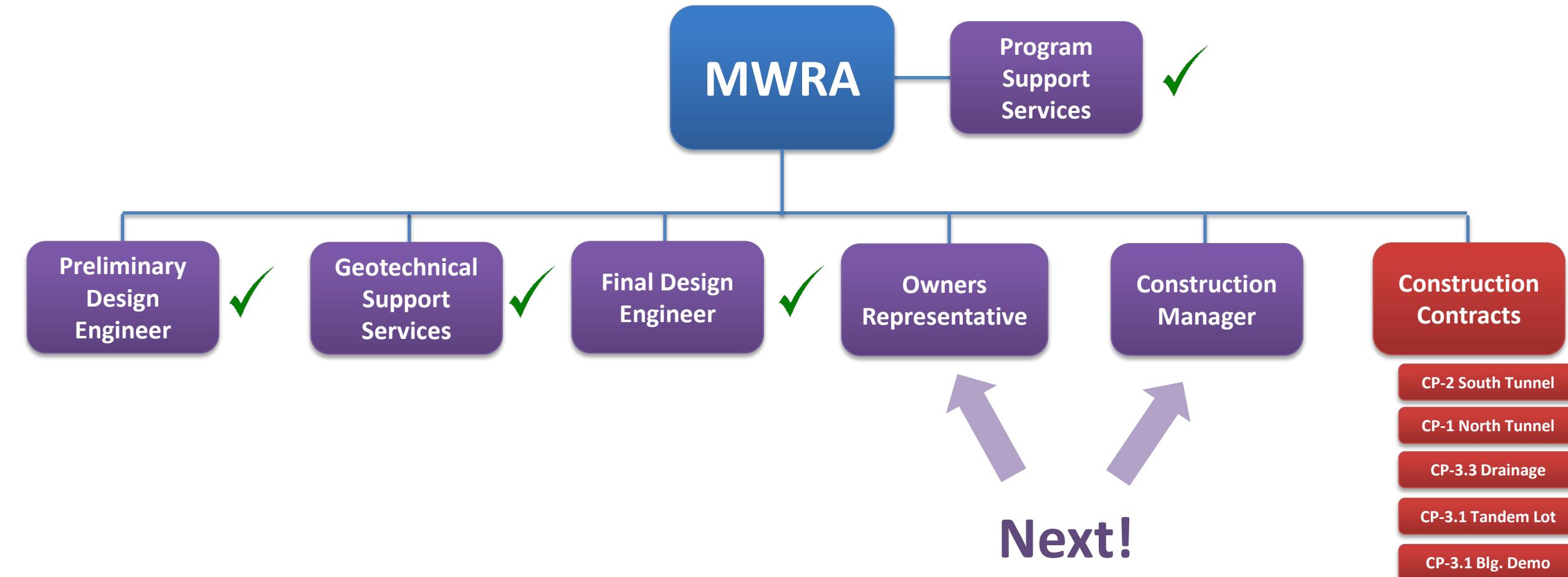
Metropolitan Water Tunnel Program - Overview

- Draft FY26 CIP - \$2.1B
- ~15 miles of deep, hard rock, pressure water tunnels
- 13 Shaft Sites
- Tunnels will begin in Weston (I-90/I-95)
- North Tunnel - ~5 miles, ends in Waltham
- South Tunnel - ~10 miles, ends in Mattapan near American Legion Hwy
- Tunnel Construction anticipated between 2028 and 2040
- Design-Bid-Build





Program Organization





Current Schedule



- Program Support Services: 2019 - 2026 **Ongoing**
- Preliminary Design & EIR: 2020 – 2024 **Complete ✓**
- Geotechnical Support Services: 2022 - 2025 **Ongoing**
- Final Design: 2024 – 2029 **Ongoing**
 - Early Enabling Contracts: 2024 - 2027
 - South Tunnel Design: 2024 – 2028
 - North Tunnel Design: 2025 – 2029
- Construction Management Services: 2026 – Program Completion
- Owners Representative: 2026 – Program Completion

- Three Early Enabling Project Construction: 2026 – 2028
- South Tunnel Construction: NTP in 2028
- North Tunnel Construction: NTP in 2029

- New Tunnel System in Operation: by 2040

Next!





Construction Management Services (Contract No. 7356)

Anticipated Scope of Services:

- Project Management
- Pre-Construction Support
 - Constructability Review
 - Cost Estimating and Scheduling Support
 - Safety Program Development
 - Public & Labor Relations
 - Value Engineering
- Construction Contract Administration
 - Construction Administration
 - Public & Labor Relations
- Resident Engineer/Inspection Services
- Other Field Services
 - Independent Quality Assurance
 - Safety Program Compliance
 - Environmental Compliance & Site Control

Draft FY26 CIP:

- \$151.1M
- Jan 2026 – Jan 2040 (aka Program Completion)

Planned Procurement Schedule:

- “cone of silence” begins – June 2025
- RFQ issued – July 2025
- RFP issued – October 2025
- NTP – April 2026





Mass General Law (MGL) Chapter 30, Section 39M1/2

Anticipated Scope of Services:

- Peer review of engineering elements
- Oversight of cost recovery and value engineering
- Filing annual reports

Minimum Qualification:

- Registered Professional Engineer in the Commonwealth of Massachusetts (by time of award)
- Minimum of five (5) years of experience in construction and construction supervision of project of similar nature, scope and complexity
- Independent of the designer, contractor, or subcontractor involved in the Program (including CM)

Draft FY26 CIP:

- \$6.3M
- 2026 - 2040 (aka Program Completion)

Planned Procurement Schedule:

- “cone of silence” begins – Fall 2025
- RFQ/P issued – December 2025
- NTP – May 2026



Massachusetts Water Resources Authority

Thank You

Questions?