

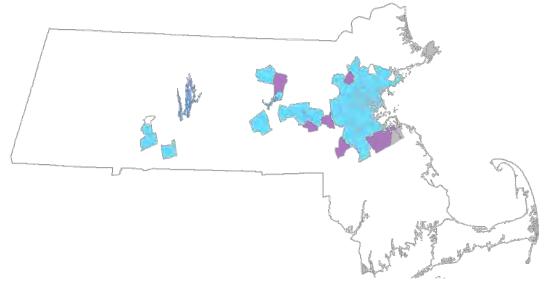
Massachusetts Water Resources Authority

Metropolitan Water Tunnel Program

Waltham City Council

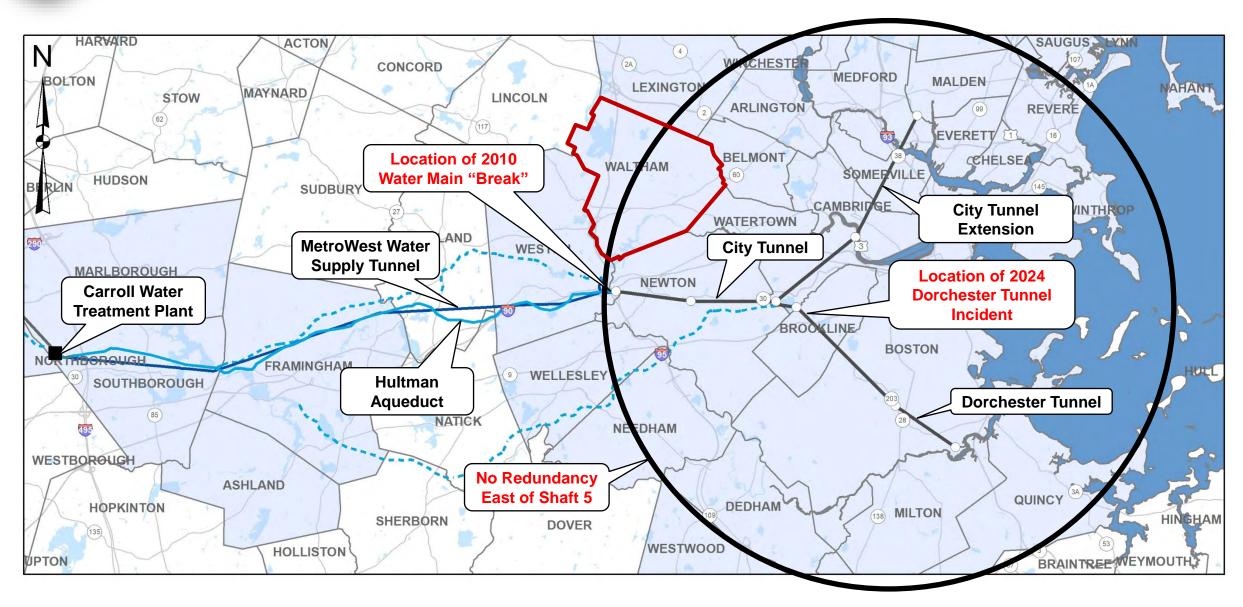
MWRA ...

- 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
- Waltham receives 100% of its water and sewer services from MWRA





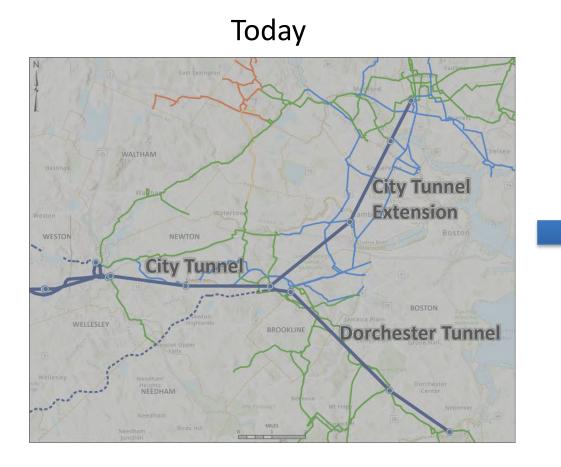
Metropolitan Tunnel System Serves About 60 Percent of Water Demand in Metropolitan Area



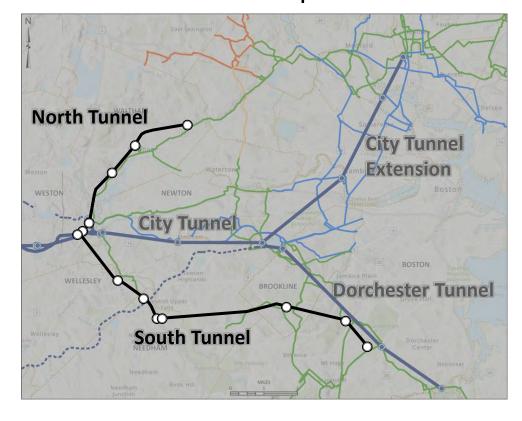


Metropolitan Water Tunnel Program

Purpose: To provide redundancy to the Metropolitan Tunnel System



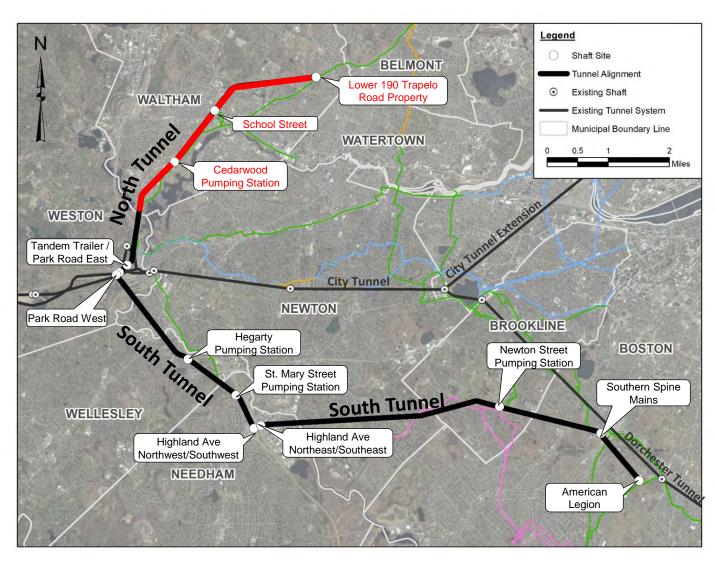
When Completed





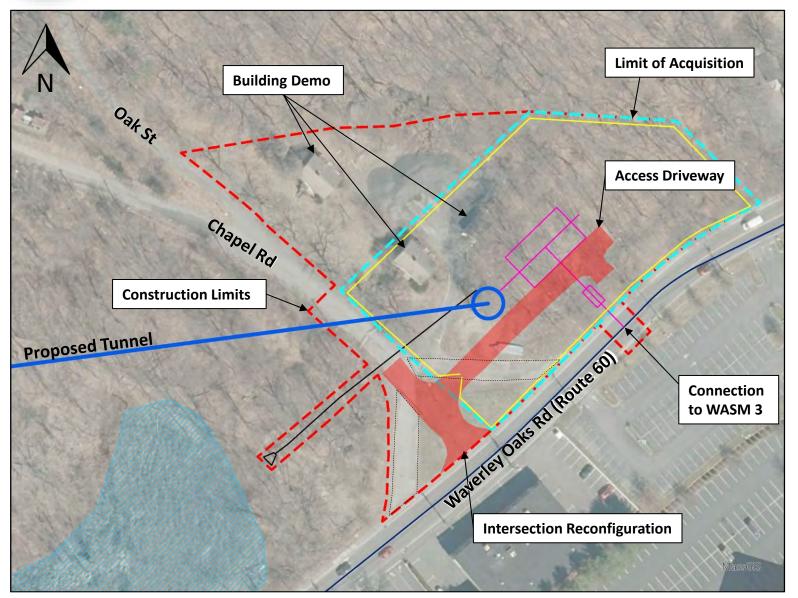
Metropolitan Water Tunnel Program - Overview

- ~15 miles of deep, hard rock, pressure water tunnels
- 13 Shaft Sites:
 - Three launching shaft sites
 - Three receiving shaft sites
 - Seven connection shaft sites
- Tunnels will begin in Weston (I-90/I-95)
- North Tunnel ~4.8 miles, ends in Waltham
- South Tunnel ~10.2 miles, ends in Mattapan
- Tunnel Construction anticipated between 2028 and 2040





Lower 190 Trapelo Road Property - Receiving Shaft Site



Proposed Work

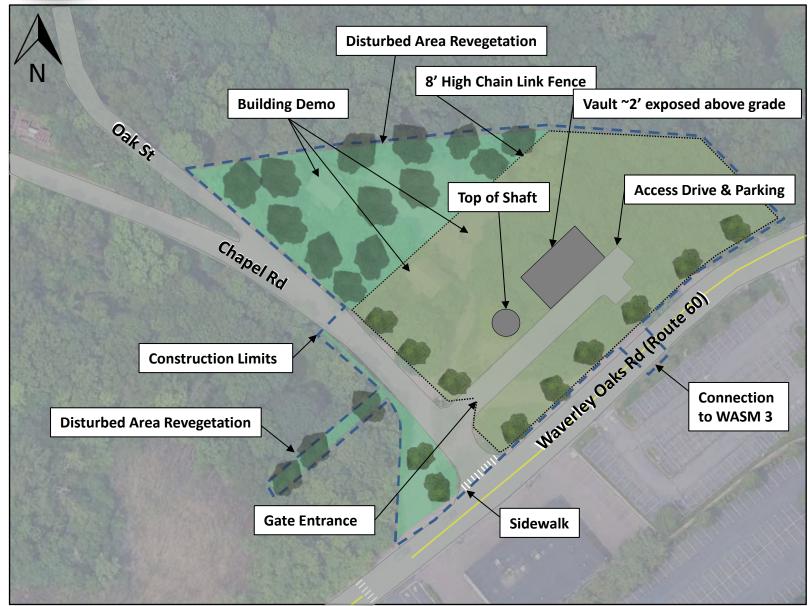
- Mobilization and site security
- Building demolition
- Site entrance reconfiguration
- Construction phase TBM receiving shaft work site
- Permanent water supply shaft & valve chamber
- Accommodate future use

Land Requests

- Temporary construction staging area = ~2.3 acres
- Permanent fee interest = ~1.4 acres



Lower 190 Trapelo Road Property Conceptual Permanent Site Condition



- Landscaped, Fenced & Secured
- Operations
 - Regular inspections / security checks
 - Occasional water quality sampling
- Maintenance/repairs
 - Facility maintenance
 - Snow removal
 - Lawn care
- No increase to traffic or noise

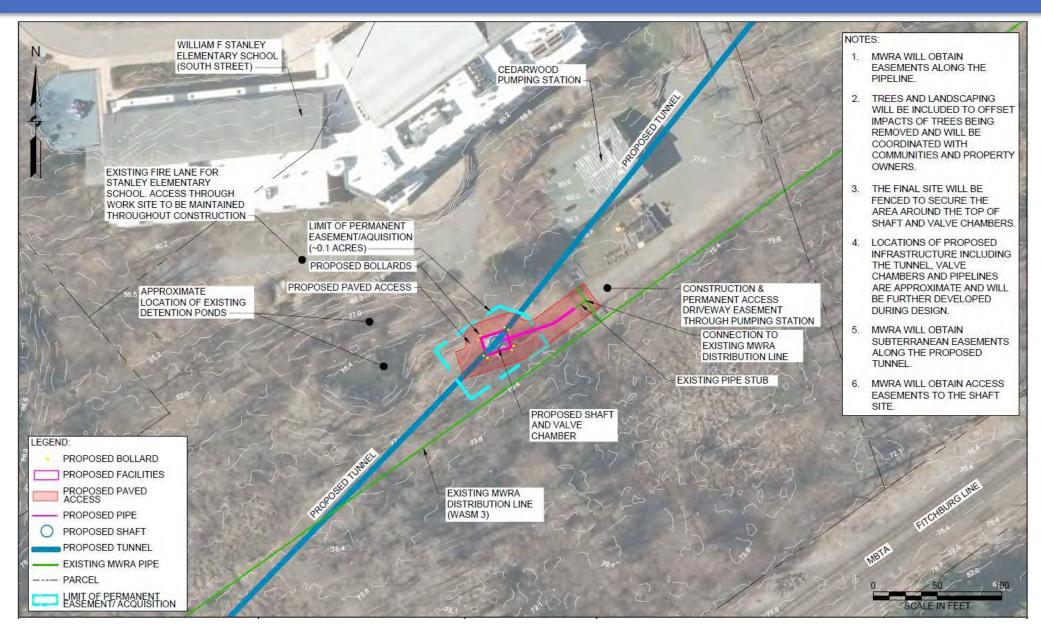


School Street - Connection Shaft Site





Cedarwood Pump Station - Connection Shaft Site





Permanent Infrastructure

Early Concepts

Prelim. Design & EIR

Geotechnical Investigations

> Final Design

Construction

Operations



MWWST Wellesley St

Connection Shaft, Weston

Permanent infrastructure is mostly below grade:

- Top of shaft structure and valve chamber (~2 ft above grade)
- Connection piping (all buried)



MWWST Shaft 5/5A, Weston



MWWST Shaft L, Framingham



MWWST Shaft E, Southborough



TBM Power Supply (by Eversource) - North Tunnel



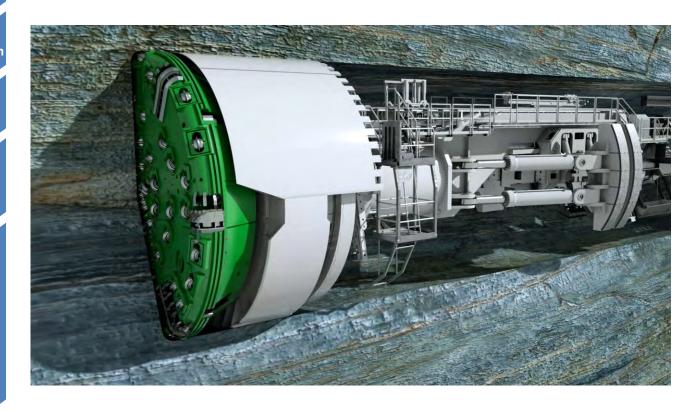
Prelim. Design
& EIR

Geotechnical Investigations

> Final Design

Construction





Used with permission from Herrenknecht
Source: https://www.herrenknecht.com/en/products/productdetail/gripper-tbm/

Power to Tandem Trailer Launching Shaft Site (Weston)

- ~3.2 miles of new duct bank
- Through Waltham, Newton & Weston
 - ~1 mile in Waltham
- Coordinating with ongoing MassDOT project along Route 30

Anticipated Eversource Construction

- Construct duct banks and manholes
- Install and splice new electric cable
- Schedule TBD, design ongoing



Emergency Response Coordination



Prelim. Design & EIR

Geotechnical Investigations

> Final Design

Construction

Operations

- Shafts are located in six (6) communities, tunnel alignment is beneath seven (7) communities
- Advance coordination is needed to ensure coordinated emergency response during construction
 - Uniqueness of the underground construction environment and its hazards
 - Anticipated role and responsibilities of the MWRA tunnel contractors and local Emergency Responders
 - Provide training and equipment needed by the local Emergency Responders throughout tunnel construction
- Emergency response coordination needs to be tailored to each communities' capabilities and size
- MWRA resources will be provided to ready the local Emergency Responders

- MWRA is working with local Emergency Responders to determine what resources will be needed Ongoing
 - Meetings have included Waltham Fire Chief Mullin





Outreach

Early Concepts

Prelim. Design & EIR

Geotechnical Investigations

> Final Design

Construction

Operations

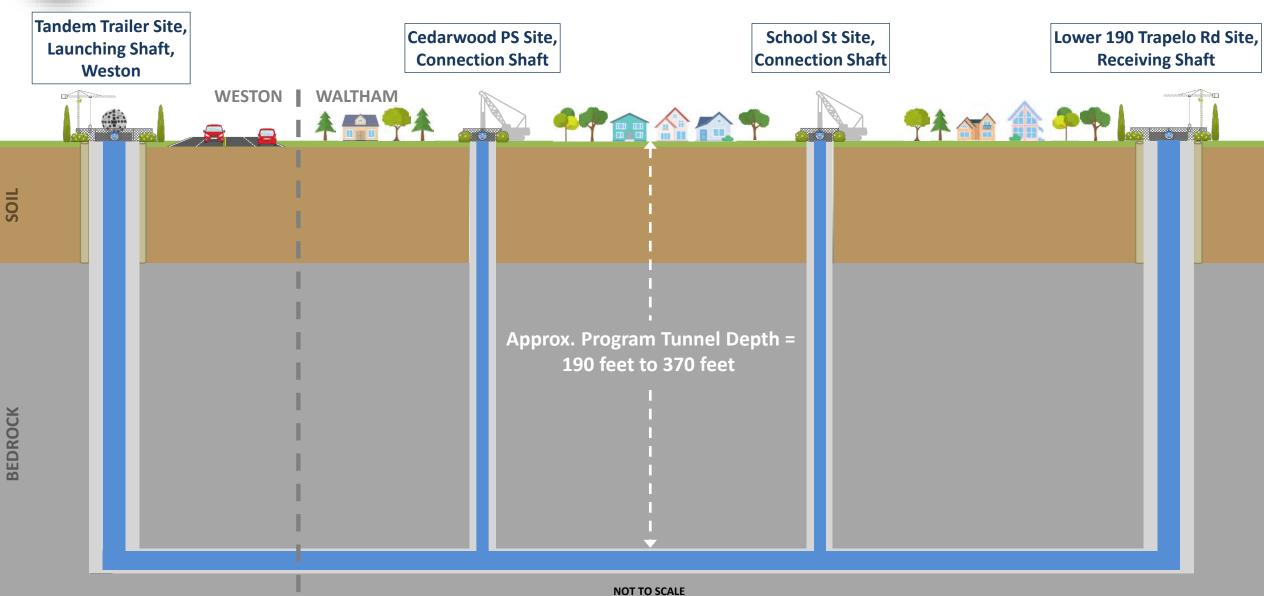
- Met with communities in the study area; established Working Groups with representatives from each community
- Numerous meetings with the 7 communities in which the tunnel will be constructed:
 - City/Town Management, Public Works, Public Safety/Fire,
 Conservation Commission, etc.
- Multiple meetings with key stakeholders and permit agencies
- Met with numerous organizations, businesses & private property owners to coordinate field work
- Met with several community interest groups
- Established a Website https://www.mwra.com/mwtp.html and email address (for questions) Tunnels.info@mwra.com
- Created multiple Fact Sheets available in 4 languages
- Public Information Session held in Feb 2025. Recording is available on the Tunnel Program web site.

Outreach will continue throughout final design and construction





Conceptual Construction Sequence - North Tunnel



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Current Schedule



Final Design

Investigation

Construction

Operations

- Preliminary Design & EIR: 2020 2024 Complete ✓
- Final Design: 2024 2029 Ongoing
- TBM Power Supply Construction: 2025 2028 Ongoing
- Early Enabling Projects Construction: 2026 2028
- Land Acquisition: 2021 2028 Ongoing
 - Shaft sites, pipeline easements, subterranean tunnel easements
- South Tunnel Construction: Start in 2028
- North Tunnel Construction: Start in 2029
- New Tunnel System in Operation: by 2040



Where to Find Information / How to Contact Us

- Tunnel Program Website: https://www.mwra.com/mwtp.html
 - Program Information
 - Reports and other Documents
 - Meeting Agendas, Presentations and Minutes
- Waltham Notices and Info: https://www.mwra.com/mwtp/resources.html#resources
- Program email address: <u>Tunnels.info@mwra.com</u>
 - Public inquiries and information requests
- Contact Us!
 - Carmine DeMaria, Community Relations Coordinator
 - **–** 617-305-5725
 - Carmine.DeMaria@mwra.com





Metropolitan Water Tunnel Program



Thank You!





