

CAMBRIDGE WATER MAIN REPLACEMENT PROJECTS 2025

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Why replace water mains:

- Aging Infrastructure
- Leakage History
- Improve Fire Flow Capacity
- Improve Water Quality
- Support both current and future developments





DPW Projects

Chapter 90 Contract 25

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Maple Ave

- ~1500' of new 8" Ductile Iron Pipe (DIP) replaced by CWD crews(2018)
- 3 new fire hydrants (Hydrant flows went from 900GPM to 1900GPM)
- Newport Construction(2025)
 - Relocated two hydrants for new crosswalks and replaced ten lead services

Montgomery St

- Reconnected all services from old 6"(1870) Cast Iron(CI) main to 12"(1933) Cleaned and Lined Cast Iron(ClCI) main(CWD crews 2017)
- Newport Construction(2025) relocated 2 fire hydrants to accommodate raised crosswalks
- Replaced seven lead services
- Hydrant flow average went from 965 GPM to 1600 GPM

Chapter 90 Contract 25

Dana St (Cambridge St to Mass Ave)

- ~2200 feet of 10" CAST IRON(1896)
 pipe to be replaced with 8" Ductile
 Iron pipe.
- Hydraulic modeling shows that the "C" value(smoothness of pipe) is equal in flow rates.
- Saving in the overall cost of installation





Chapter 90 Contract 25

• Sciarappa St

- 2000' of 8" DIP to replace the current 6" cast iron dating 1896.
- Current fire flows are consistently below 750GPM.
 Estimated flows should be +/-2000GPM when completed.
- Replace 22 lead services in the system.

Mass Ave Partial Construction Phase 1A Contract

- Various Intersections(Linnaean St, Wendell St, Shepard St & Jarvis St)
 - New water main work ranging in size from 8" – 20" to be installed outside the limits of the "floating" Bus Stop Areas
 - ~1900 total CI pipe to be replaced.
 - Fire flows greatly increased throughout the scope of work.
 - Supports both current and future retail stores and homes.
 - 6" 1895 to 1898
 - 12" 1895



Future DPW Projects Out To Bid In 2025

Avon Hill St - CWD completed in 2021(~1300 feet)

Hillside Ave - 400' of 6"(1871) CI replaced with 8" DIP

Chetwynd Rd - 200' of 6"(1927) CI replaced with 8" DIP

Gray St - 200' of 6"(1887) CI replaced with 8" DIP

Kirkland Rd - 250' of 6"(1870) CI replaced with 8" DIP

Norfolk St - 1500' of 6"(1899) CI replaced with 8" DIP(Cambridge St to Somerville line/ Hampshire St to Broadway)

Haskell St - 700' of 6"(1891) CI replaced with 8" DIP(currently being done by CWD in-house contractor JNJ Sacca)





How does all this work compare.....?

- ~1.28 miles of new water main projected to be installed in 2025
- You would have to walk the John W. Weeks Bridge (Harvard) end to end 3.5 times to equal 1.28 miles



Any questions?