MWRA Pipeline Contract No. 7448

Contractor: RJV Construction Corporation
Contract Value: $11,235,500
Schedule: November 2014 – May 2017

February 11, 2015
MWRA Service Area

- MWRA provides wholesale water and wastewater services to over 2.5 million customers in 61 communities
- On average, MWRA delivers about 200 million gallons per day to its water customers, with a peak demand of 350 million gallons
- MWRA collects and treats an average of 350 million gallons of wastewater per day, with a peak capacity of 1.2 billion gallons
Abundant Reservoirs

**Quabbin Reservoir**
- Storage: 412 billion gallons
- Depth: 150 feet
- Length: 17.9 miles
- Width: 3 miles

**Wachusett Reservoir**
- Storage: 65 billion gallons
- Depth: 129 feet
- Length: 8.5 miles
- Width: 1 mile
• Complete in July 2005

• Treatment Processes:
  – Ozone and UV for primary disinfection
  – Corrosion control
  – Chloramination for secondary disinfection
  – Fluoridation
Addition of UV Disinfection At Carroll Treatment Plant

• Construction of UV facilities at the Carroll Treatment Plant completed last Spring
Drinking Water Quality Is Excellent

- MWRA sends an annual report to every household in the service area
- Water quality is consistently excellent
Renewable Energy At MWRA
MWRA Section 36 Replacement

Legend

- **Red** Pipe Section
- **Proposed 24”** Section 36 Pipeline
- **Blue** Distribution Pipes
- **Dashed** Town Line
- **Teal** Waterway
- **Dotted** Culvert
- **Thin** Bikeway

Massachusetts Water Resources Authority

Construction of Water Mains

Section 36, New W11C and S9-A

Section 36

Not to Scale
MWRA Section 36 Replacement - Project Goals

- To improve the condition of the existing water main
  - Hydraulic Capacity
  - Reliability

- To provide redundancy and flexibility

- Avoid potential service disruption (breaks, leaks)
Replace old 16-inch water main with new 24-inch water main
Hawthorne Avenue

Replace old 16-inch water main with new 24-inch water main
• Replacement of an existing 16-inch water main with a new 24-inch water main, valves and appurtenances

• Installation of a new 36-inch water main, valves and appurtenances

• Relocation and replacement of utilities including water, sewer and drain lines

• Pavement restoration
• Department of Public Works
• Police Department - Traffic Unit
• Fire Department
• Private Utility Companies
• Community Residents
• Conservation Commission
1. Sewer line inspection and cleaning

2. Conduct pre-construction videos
   a. Streetscape
   b. Residences

3. Rodent Survey
   a. Develop baseline
   b. Determine application
4. Tree Inspection
   a. Trimming/pruning
   b. Fertilizing
   c. Removal

5. Pre-drilling on Brunswick (March 2015)

6. Paving
   a. Temporary paving for 1 construction season
   b. Permanent paving approximately 1 season later

7. Post construction survey
8. Temporary water bypass installation with service interruptions (100 houses)

- Advance notice to residents
- Hours 9:00AM – 4:00PM
<table>
<thead>
<tr>
<th>STREET</th>
<th>SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brattle St to Massachusetts Ave</td>
<td>March – May 2015</td>
</tr>
<tr>
<td>Installing 24” MWRA water main</td>
<td></td>
</tr>
<tr>
<td>Massachusetts Ave</td>
<td>May – June 2015</td>
</tr>
<tr>
<td>Installing 24” MWRA water main</td>
<td></td>
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<tr>
<td>Robbins Rd from Mass Ave to Gray St</td>
<td>June – September 2015</td>
</tr>
<tr>
<td>Installing 24” MWRA water main, 8” sewer and portions of 8” water and 15” drain</td>
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<tr>
<td>Robbins Rd from Gray St to Hawthorne Ave</td>
<td>August – November 2015</td>
</tr>
<tr>
<td>Installing 24” MWRA water main</td>
<td></td>
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<tr>
<td>Hawthorne Ave from Robbins Rd to Park St</td>
<td>November - December 2015</td>
</tr>
<tr>
<td>Installing 24” MWRA water main</td>
<td></td>
</tr>
<tr>
<td>Park Ave</td>
<td>March 2016 – August 2016</td>
</tr>
<tr>
<td>Installing 24” MWRA water main and 12” drain</td>
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<tr>
<td>STREET</td>
<td>SCHEDULE</td>
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<tr>
<td>Brunswick Rd</td>
<td>March 2015 – July 2015</td>
</tr>
<tr>
<td>Installing 36” MWRA water main, 8” sewer and 8” water</td>
<td></td>
</tr>
<tr>
<td>Hillsdale Rd</td>
<td>July 2015 – September 2015</td>
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<tr>
<td>Installing 36” MWRA water main, 8” sewer and 8” water</td>
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<tr>
<td>Pleasant St at Brunswick Rd</td>
<td>September 2015 – November 2015</td>
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<tr>
<td>Installing 54” MWRA water main, 8” sewer and 8” water</td>
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<tr>
<td>Spring St at Hillsdale Rd</td>
<td>October 2016 – December 2016</td>
</tr>
<tr>
<td>Installing 36” MWRA water main, 8” water and 12” drain</td>
<td></td>
</tr>
</tbody>
</table>
Similar Construction
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