City of Joliet

2023 Water Main Improvements – Bid Group 1

Pre-bid Conference

- Highland Phase 1 (Contract No. 2682-0123)
- Kerwin Terrace (Contract No. 2684-0123)
- Plainfield Road (Black to Center) (Contract No. 2685-0123)
- Collins Street (Contract No. 2681-0123)
- Joliet Ottawa (Contract No. 2683-0123)
- Black Road Acres Phase 1 (Contract No. 2680-0123)

November 10, 2022

BAXTER & WOODMAN Consulting Engineers

Overview

2023 Program Overview

- Bid Groups
- Funding Requirements

Bidding Requirements

- City of Joliet
- Important Dates

Water Main Improvement Projects

- Highland Phase 1 (2682-0123)
- Kerwin Terrace (2684-0123)
- Plainfield Road (Black to Center) (2685-0123)
- Collins Street (2681-0123)
- Joliet Ottawa (2683-0123)
- Black Road Acres Phase 1 (2680-0123)

2023 Program Overview

- **Bid Group 1**
  - Highland Phase 1 — 8,900 ft
  - Kerwin Terrace — 11,100 ft
  - Plainfield Road (Black to Center) — 8,600 ft
  - Collins Street — 7,100 ft
  - Joliet Ottawa — 6,200 ft
  - Black Road Acres Phase 1 — 15,500 ft
- **Bid Group 2**
  - St. Pat's Phase 1A — 8,300 ft
  - St. Pat's Phase 1B — 9,300 ft
  - Caton Farm — 9,300 ft
  - Midland Avenue East — 13,500 ft
  - Garnsey Park Phase 4 — 11,100 ft
- **Funding**
  - WIFIA Federal Funding Requirements
  - IEPA SRF Funding
  - Water & Sewer Funds

Bidding Requirements

City of Joliet

- Prequalification (Ordinance No. 7345)
- City of Joliet Procurement Code
- Local Bidder Ordinance does not apply
- City's 10% minority participation
- City of Joliet Affidavits
- Download documents from City website and sign up for RSS feed
- Check City website for any addenda

Federal Funding Requirements

- Advertise for DBEs in daily regional paper
  - One advertisement is acceptable for multiple projects, must meet earliest date
- Provide list of all subcontractors
  - Can use DBE Form #4
- Davis-Bacon or Illinois Prevailing Wage Act, whichever is higher
- Use of American Iron and Steel
- Employment of Illinois Workers on Public Works Act
- Illinois Works Jobs Program Act – Apprenticeship Initiative

Bidding Requirements

Specifications and Measurement of Payment

- Contractor must meter water
- Bid Submittal Checklist for IEPA requirements
- Project Signs Required
- Liquidated Damages: $1,200 / $600
- Contractor Badges required prior to entering homes
- Licensed plumber required for all water services
- Full lead service line replacements anticipated in most projects

Bidding Requirements

Specifications and Measurement of Payment

- Ductile iron pipe mobilization for all projects
- PVC AWWA C900, Class 235, SDR 18 for some projects
- Trench backfill tables in M&P
- RJT tables in Standard Details
- Pavement Restoration Thicknesses in General Notes
- Preventing job abandonment
  - Water services within 7 days of IEPA approval
  - Final pavement restoration within 21 days of last water service or moving to another street
  - Option for temporary pavement within 7 days at no cost to the City

Bidding Requirements

Material Testing QA/QC

- Follow IDOT Memo 20-08.3 Field Test Procedures for Mixer Performance and Concrete Uniformity Tests
  - Air content, slump, coarse aggregate content, strength at 7 days
- Comply with IDOT Special Provision LR-1030-2 for HMA Pavement QC/QA
- Nuclear density gauge testing or core sampling
- Follow Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - DEPTH VARIES	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - DEPTH VARIES	4% @ 50 Gyr.
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - DEPTH VARIES	4% @ 50 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 2" MINIMUM	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50; 1 1/2" MINIMUM	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 1 1/2" MINIMUM	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19.0mm) - 8"	4% @ 70 Gyr.

TABLE 1 - REQUIREMENTS FOR UNIFORMITY OF CONCRETE

Test	Requirement (Note 1)	
Air Content, percent by volume of concrete	1.0	(Note 2)
Slump, mm (inch)	25 (1.0)	(Note 3)
Coarse aggregate content, portion by mass (weight) of each sample retained on the No. 4 sieve, percent	6.0	
Average flexural or compressive strength at 7 days for each sample based on average strength of all comparative test specimens, percent	7.5	(Note 4)

Bidding Requirements

GPS Data Collection Requirements

- Survey all exposed or installed water, sanitary, and storm utilities
- City of Joliet will provide one complete GPS unit and ESRI license per project
  - $7,500 deposit (cashier's check)
  - Contractor can provide their own GPS unit or rent additional from B&W
- Contractor must provide a smart phone or tablet with 5G connectivity
- City staff will not provide technical support of the GPS units
- Baxter & Woodman will provide a 2-hour training session at the start of construction and support up to 4-hours per month
  - The cost for additional support is not included in this project



Bidding Requirements

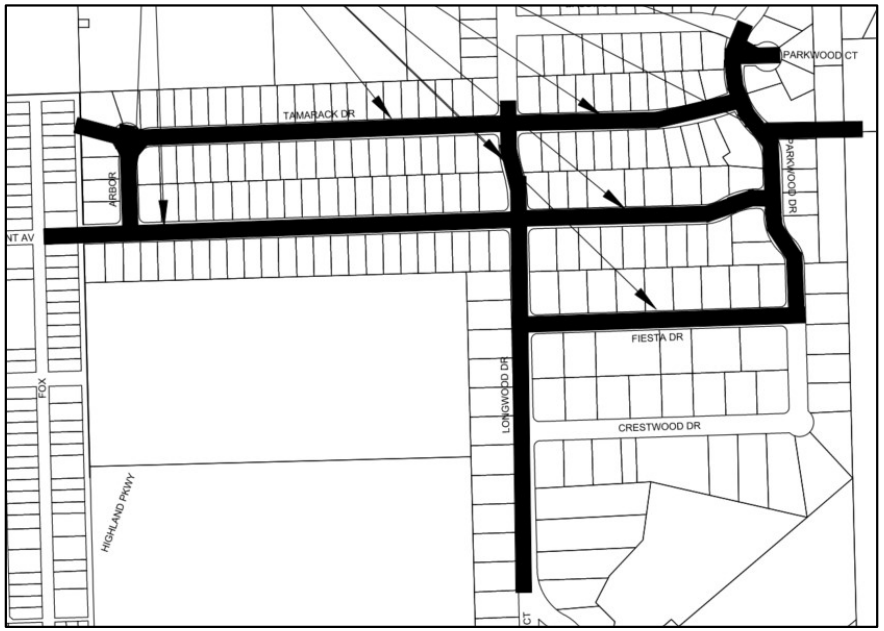
Important Dates

- Last day for DBE Advertisements:
  - Highland Phase 1 — November 26
  - Kerwin Terrace — November 26
  - Plainfield Road (Black to Center) — November 27
  - Collins Street — November 27
  - Joliet Ottawa — November 28
  - Black Road Acres Phase 1 — November 28
- Last day for questions: Wednesday, December 7th
- Bid Openings at 150 W Jefferson:
  - Highland Phase 1 — December 12, 10:00 AM
  - Kerwin Terrace — December 12, 2:00 PM
  - Plainfield Road (Black to Center) — December 13, 10:00 AM
  - Collins Street — December 13, 2:00 PM
  - Joliet Ottawa — December 14, 10:00 AM
  - Black Road Acres Phase 1 — December 14, 2:00 PM
- Estimated Notice to Proceed – Varies by project

Water Main Improvement Projects

Highland Phase 1

- 6,200’ of PVC water main
- Cut in hydrants and valves on Belmont Ave with ductile iron water main
- 2,700’ of PVC or HDPE force main
- HDD along Tamarack Drive (force main)
- Work in side yard easements for force main
- City will complete pH testing and sign LPC-662
- Substantial Completion: 90 calendar days
- Final Completion: 120 calendar days
- Estimated Notice to Proceed: 4/1/2023



Water Main Improvement Projects

Kerwin Terrace

- 11,100’ of PVC water main
- Coordinate connections to Joliet Catholic Academy and Our Lady of Angels
- City will complete pH testing and sign LPC-662
- Substantial Completion: 120 calendar days
- Final Completion: 150 calendar days
- Estimated Notice to Proceed: 7/1/2023



Water Main Improvement Projects

Plainfield Road (Black to Center)

- 8,600’ of ductile iron water main
- Work within IDOT ROW; coordination ongoing
- Detour and night work required
- IDOT Bond Amount: $420,000
- Soil borings completed; signed LPC-663 to be issued via addendum
- Substantial Completion: 120 calendar days
- Final Completion: 150 calendar days
- Estimated Notice to Proceed: 5/1/2023



Water Main Improvement Projects

Collins Street

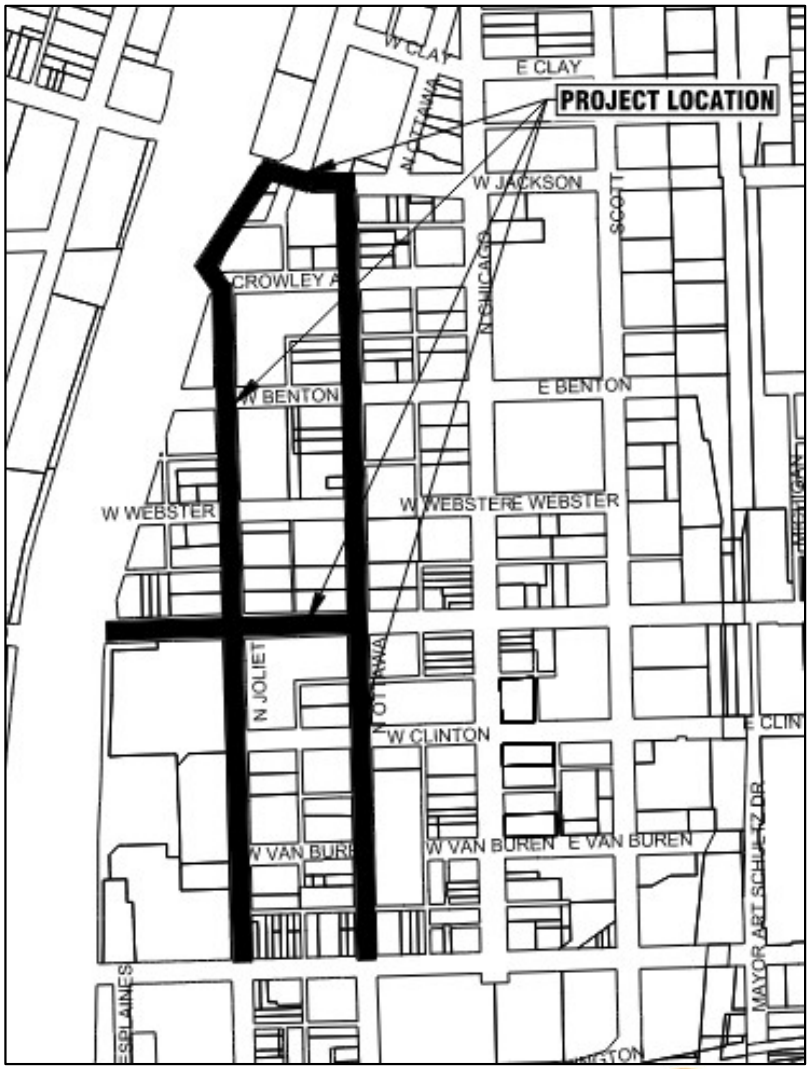
- 7,100’ of ductile iron water main
- Work within IDOT ROW; coordination ongoing
- Detour and night work required
- IDOT Bond Amount: $800,000
- One bored railroad crossing in bedrock
- Rock excavation required
- Includes storm sewer improvements
- Soil borings completed; signed LPC-663 to be issued via addendum
- Substantial Completion: 120 calendar days
- Final Completion: 150 calendar days
- Estimated Notice to Proceed: 7/1/2023



Water Main Improvement Projects

Joliet Ottawa

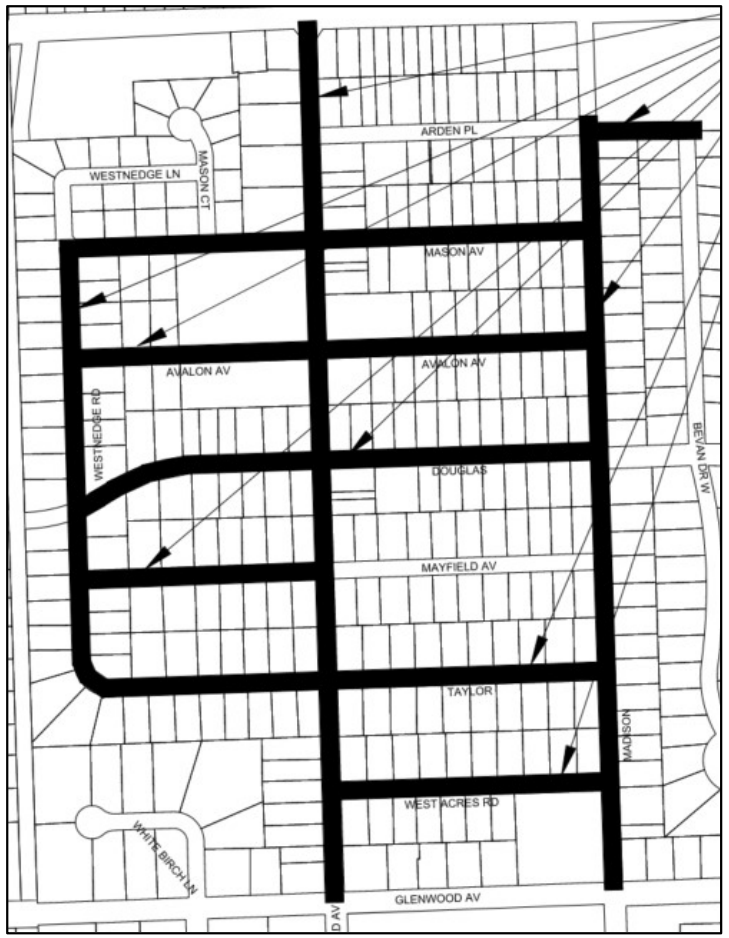
- 6,200’ of ductile iron water main
- Work within IDOT ROW; MOT and night work required
- Construction phasing
- IDOT bond amount: $500,000
- Rock excavation expected
- Temporary water system on Joliet Street
- Soil borings completed; signed LPC-663 to be issued via addendum
- Substantial Completion: 180 calendar days
- Final Completion: 210 calendar days
- Estimated Notice to Proceed: 4/1/2023



Water Main Improvement Projects

Black Road Acres Phase 1

- 15,500’ of PVC water main
- CIPP lining between Madison St. and West Bevan Dr.
- Includes three sanitary sewer point repairs
- City will complete pH testing and sign LPC-662
- Substantial Completion: 180 calendar days
- Final Completion: 210 calendar days
- Estimated Notice to Proceed: 4/1/2023



Bidding Requirements

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Questions?

Please sign attendance sheet

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BAXTER & WOODMAN
Consulting Engineers