BAXTER & WOODMAN
Consulting Engineers

City of Joliet

2024 Water Main Improvements
Pre-Bid Conference

November 2, 2023

Pre-Bid Conference Overview

2024 Program Overview

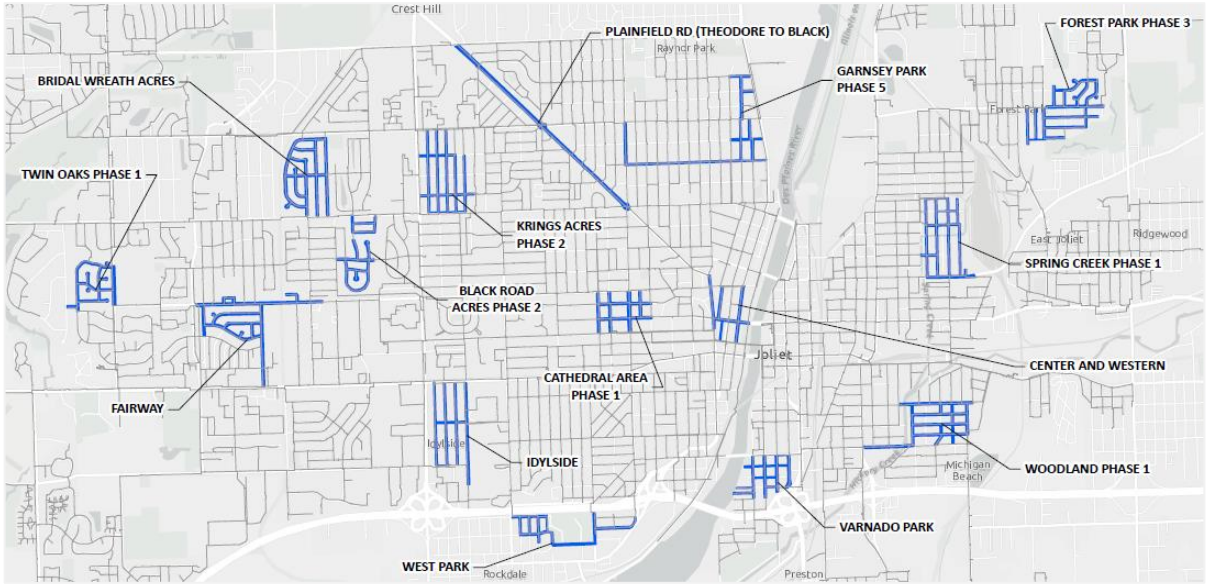
- Bid Groups
- Funding Programs

Bidding and Contract Requirements

- Specifications and Measurement and Payment Review
- Key Contract Requirements

Project Review

- Bid Schedules
- Project Details



33 Miles of Water Main

2024 Program Overview

Bid Group 1

- Broadway, Center, and Western
- Cathedral Area Phase 1A
- Cathedral Area Phase 1B
- Plainfield Road (Theodore to Black)
- Spring Creek Phase 1
- West Park

Bid Group 2

- Bridal Wreath Acres
- Forest Park Phase 3
- Hickory Creek East
- Idylside
- Parkview North
- Varnado Park Area

Bid Group 3

- Black Road Acres Phase 2
- Burr Oaks
- Garnsey Park Phase 5A
- Garnsey Park Phase 5B
- Krings Acres Phase 2A
- Krings Acres Phase 2B

Funding Programs

- **IEPA State Revolving Fund Loans**
  - Water Main Improvements
  - Lead Service Line Replacement
- **WIFIA Federal Funding**
- **COJ 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
- Project sign posted at job site

Key Contract Requirements

Specifications and Measure and Payment

- Contractor must meter water
- Bid Submittal Checklist for IEPA requirements
- Contractor Badges required prior to entering homes
- Licensed plumber required for all water services
- Trench backfill tables in M&P
- RJT tables in Standard Details
- Pavement Restoration Thicknesses in General Notes

Key Notes

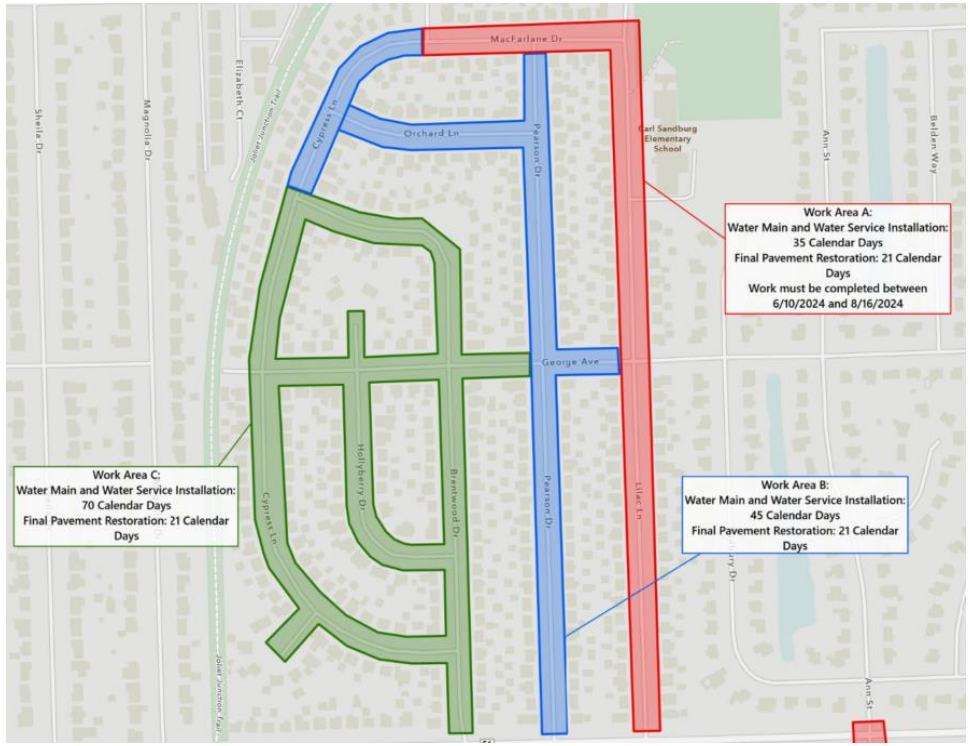
- **Contractor to procure all pipe**
- **Pipe material varies by project**
- **Sanitary Lateral Secondary Locates**

Key Contract Requirements

Work Areas and Liquidated Damages

- Work in multiple Work Areas is allowed but will not extend any Work Area's completion times
- Deviations to Work Areas must be submitted to the City at the Pre-Construction meeting for approval
- Contract time will commence upon any intrusive work to earth or pavement (sawcutting, milling, excavation, potholing, etc.)

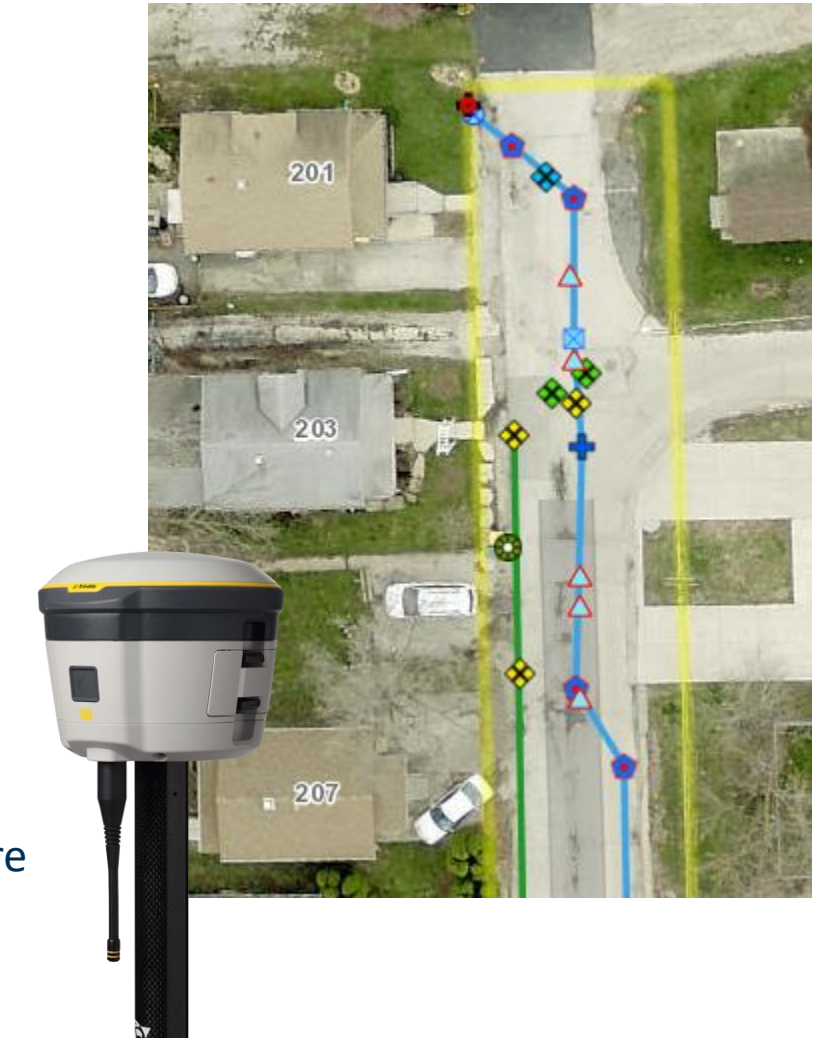
Description of Interim Milestone Liquidated Damages	Dollar Amount
Water Main and Water Service Completion of individual Work Area not completed within specified time	$500/day
Pavement restoration of individual Work Area not completed within specified time	$500/day
Unscheduled work occurring without required notice to residents as outlined in Section 33 11 43	$500/property for each occurrence
Traffic Control Deficiency per MUTCD requirements as specified in 01 50 00	$1,000/day



Key Contract Requirements

Digital Utility 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, per available inventory
  - $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
- A 2-hour training session will be provided at the start of construction and support up to 4 hours per month
  - The cost for additional support is not included in this project. Contractors are recommended to establish a working relationship with a GPS support consultant to provide as-needed assistance



Key Contract 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

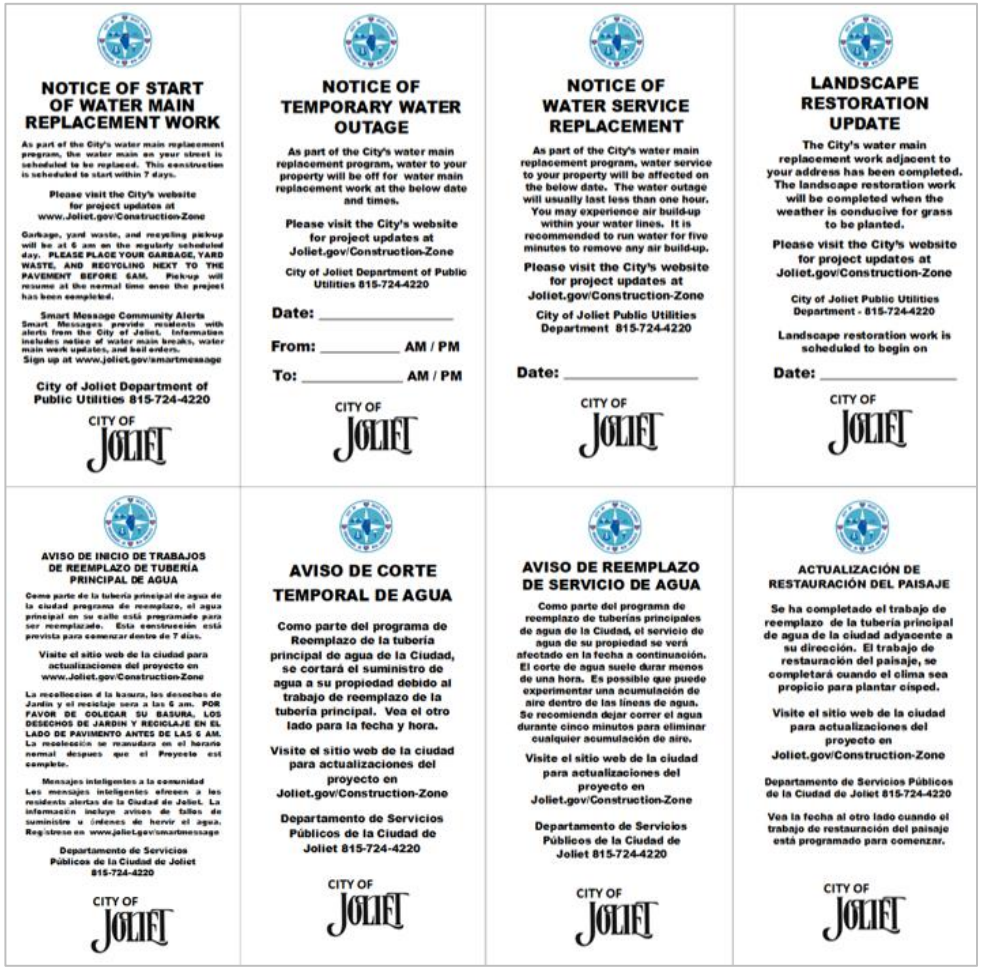
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

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)

Key Contract Requirements



NOTICE OF START OF WATER MAIN REPLACEMENT WORK

As part of the City's water main replacement program, the water main on your street is scheduled to be replaced. This construction is scheduled to start within 7 days.

Please visit the City's website for project updates at www.Joliet.gov/Construction-Zone

Garbage, yard waste, and recycling pickup will be at 6 am on the regularly scheduled day. PLEASE PLACE YOUR GARBAGE, YARD WASTE, AND RECYCLING NEXT TO THE PAVEMENT BEFORE 6AM. Pickup will resume at the normal time once the project has been completed.

Smart Message Community Alerts
Smart Messages provide residents with alerts from the City of Joliet. Information includes notice of water main breaks, water main work updates, and boil orders.
Sign up at www.joliet.gov/smartmessage

City of Joliet Department of Public Utilities 815-724-4220

CITY OF JOLIET

NOTICE OF TEMPORARY WATER OUTAGE

As part of the City's water main replacement program, water to your property will be off for water main replacement work at the below date and times.

Please visit the City's website for project updates at Joliet.gov/Construction-Zone

City of Joliet Department of Public Utilities 815-724-4220

Date: _____

From: _____ AM / PM

To: _____ AM / PM

CITY OF JOLIET

NOTICE OF WATER SERVICE REPLACEMENT

As part of the City's water main replacement program, water service to your property will be affected on the below date. The water outage will usually last less than one hour. You may experience air build-up within your water lines. It is recommended to run water for five minutes to remove any air build-up.

Please visit the City's website for project updates at Joliet.gov/Construction-Zone

City of Joliet Public Utilities Department 815-724-4220

Date: _____

CITY OF JOLIET

LANDSCAPE RESTORATION UPDATE

The City's water main replacement work adjacent to your address has been completed. The landscape restoration work will be completed when the weather is conducive for grass to be planted.

Please visit the City's website for project updates at Joliet.gov/Construction-Zone

City of Joliet Public Utilities Department - 815-724-4220

Landscape restoration work is scheduled to begin on

Date: _____

CITY OF JOLIET

AVISO DE INICIO DE TRABAJOS DE REEMPLAZO DE TUBERÍA PRINCIPAL DE AGUA

Como parte de la tubería principal de agua de la ciudad programa de reemplazo, el agua principal en su calle está programado para ser reemplazado. Esta construcción está prevista para comenzar dentro de 7 días.

Visite el sitio web de la ciudad para actualizaciones del proyecto en www.Joliet.gov/Construction-Zone

La recolección d la basura, los desechos de Jardín y el reciclaje será a las 6 am. POR FAVOR DE COLEGAR SU BASURA, LOS DESECHOS DE JARDIN Y RECICLAJE EN EL LADO DE PAVIMENTO ANTES DE LAS 6 AM. La recolección se reanudara en el horario normal despues que el Proyecto est completo.

Mensajes inteligentes a la comunidad
Los mensajes inteligentes ofrecen a los residents alertas de la Ciudad de Joliet. La información incluye avisos de tallos de suministro u órdenes de hervir el agua. Regístrese en www.joliet.gov/smartmessage

Departamento de Servicios Públicos de la Ciudad de Joliet 815-724-4220

CITY OF JOLIET

AVISO DE CORTE TEMPORAL DE AGUA

Como parte del programa de Reemplazo de la tubería principal de agua de la Ciudad, se cortará el suministro de agua a su propiedad debido al trabajo de reemplazo de la tubería principal. Vea el otro lado para la fecha y hora.

Visite el sitio web de la ciudad para actualizaciones del proyecto en Joliet.gov/Construction-Zone

Departamento de Servicios Públicos de la Ciudad de Joliet 815-724-4220

CITY OF JOLIET

AVISO DE REEMPLAZO DE SERVICIO DE AGUA

Como parte del programa de reemplazo de tuberías principales de agua de la Ciudad, el servicio de agua de su propiedad se verá afectado en la fecha a continuación. El corte de agua suele durar menos de una hora. Es possible que puede experimentar una acumulación de aire dentro de las líneas de agua. Se recomienda dejar correr el agua durante cinco minutos para eliminar cualquier acumulación de aire.

Visite el sitio web de la ciudad para actualizaciones del proyecto en Joliet.gov/Construction-Zone

Departamento de Servicios Públicos de la Ciudad de Joliet 815-724-4220

CITY OF JOLIET

ACTUALIZACIÓN DE RESTAURACIÓN DEL PAISAJE

Se ha completado el trabajo de reemplazo de la tubería principal de agua de la ciudad adyacente a su dirección. El trabajo de restauración del paisaje, se completará cuando el clima sea propicio para plantar cisped.

Visite el sitio web de la ciudad para actualizaciones del proyecto en Joliet.gov/Construction-Zone

Departamento de Servicios Públicos de la Ciudad de Joliet 815-724-4220

Vea la fecha al otro lado cuando el trabajo de restauración del paisaje está programado para comenzar.

CITY OF JOLIET

Resident Notifications

- Start of Water Main Work
- Temporary Water Outage
- Water Service Replacement
- Landscape Restoration

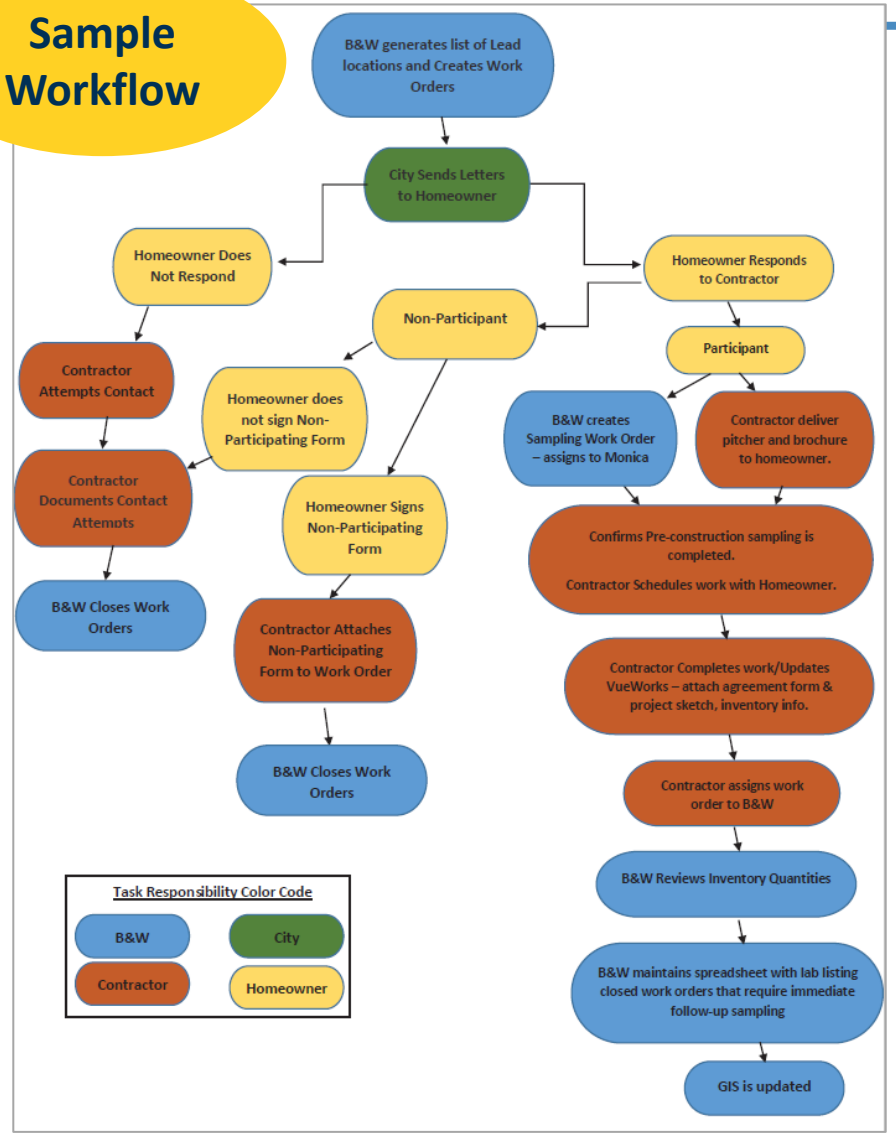
Key Contract Requirements

Lead Service Line Workflow

- Project Management Pay Item
  - Participant: 3 hours
  - Non-participant (known lead): 1 hour
- Sample Workflow and Forms in Project Manual
- Notification/Replacement Timeline
  - Comply with IEPA and IDPH Requirements
  - For Known/Suspected Lead:
    - City to notify of project minimum 45 days, additional attempts required if no response
    - Pre-construction sampling
    - Notify 14 days prior to LSL replacement
  - For Lead Discovered During Construction, notify City immediately

Lead Services Expected in 10 Projects

Sample Workflow

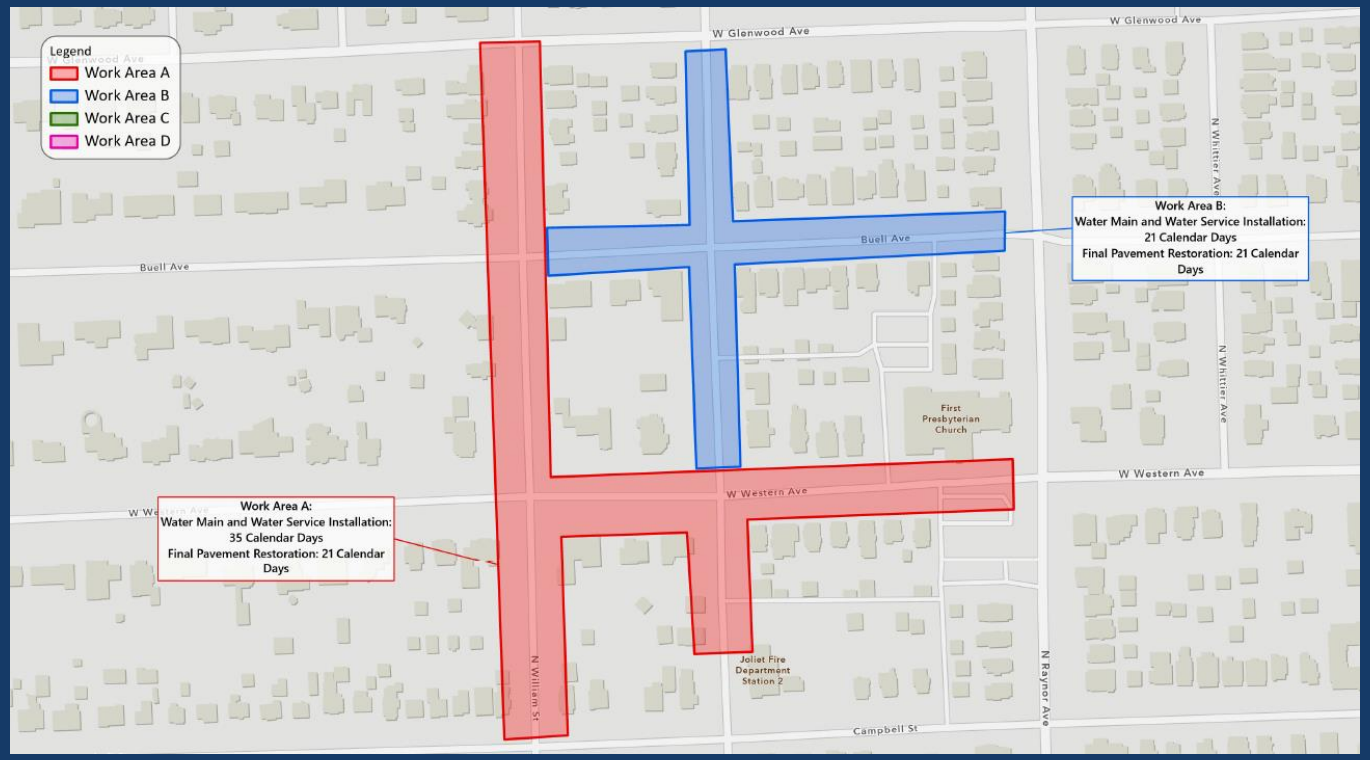


Project Review – Bid Group 1

Project	Last Day for DBE Ads	Last Day for Questions	Bid Opening	
Cathedral Area Phase 1A	November 12	November 21	November 28	10:00 AM
Cathedral Area Phase 1B	November 12	November 21	November 28	2:00 PM
Broadway, Center & Western	November 13	November 21	November 29	10:00 AM
Plainfield Road (Theodore to Black)	November 13	November 21	November 29	2:00 PM
Spring Creek Phase 1	November 14	November 21	November 30	10:00 AM
West Park	November 14	November 21	November 30	2:00 PM

Project Review – Bid Group 1

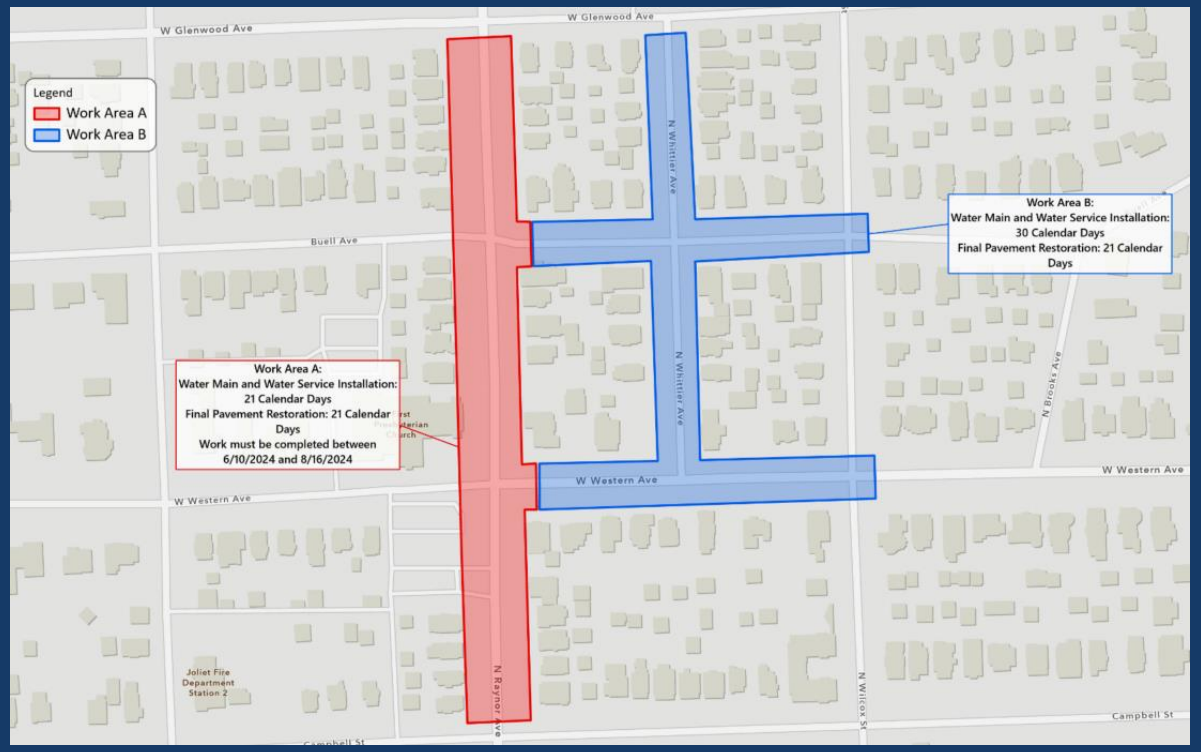
Cathedral Area Phase 1A



- 4,400 feet of 8” – 16”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 60 days
- Final Completion: 90 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662

Project Review – Bid Group 1

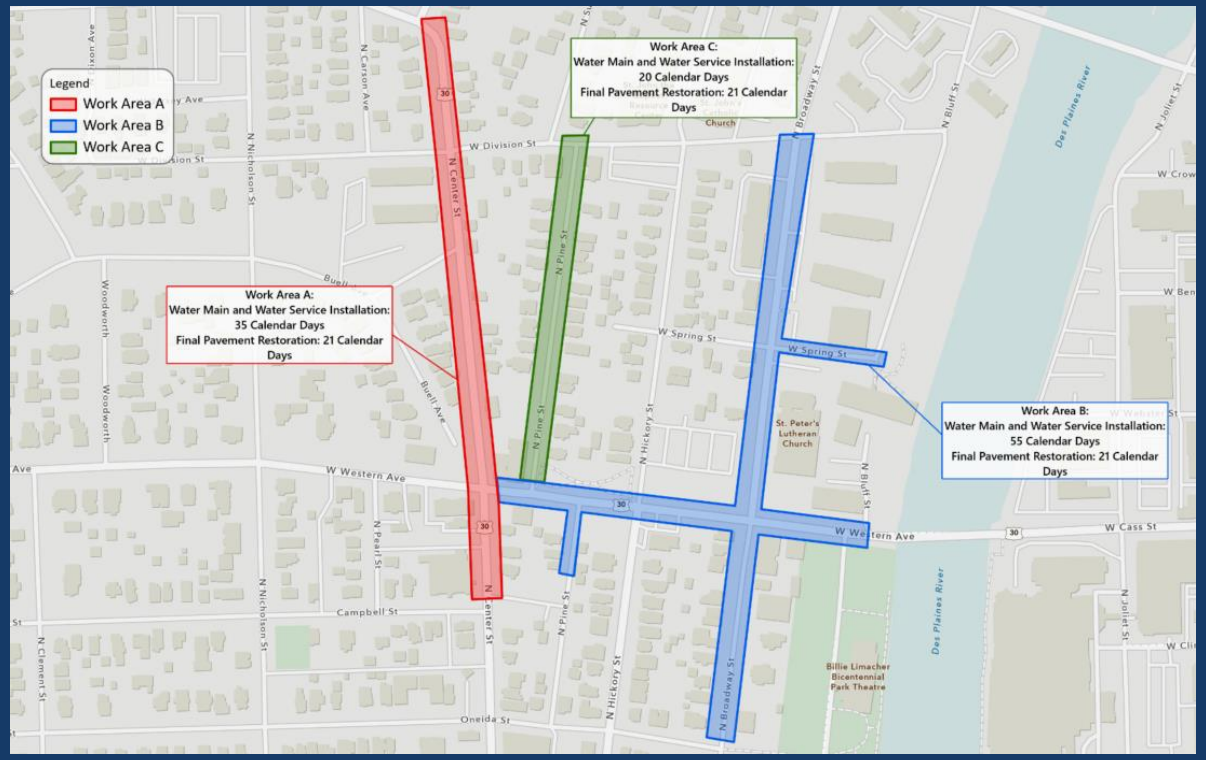
Cathedral Area Phase 1B



- 3,900 feet of 8” – 16”, DI or PVC
- Estimated Notice to Proceed: 6/1/24
- Substantial Completion: 60 days
- Final Completion: 90 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662

Project Review – Bid Group 1

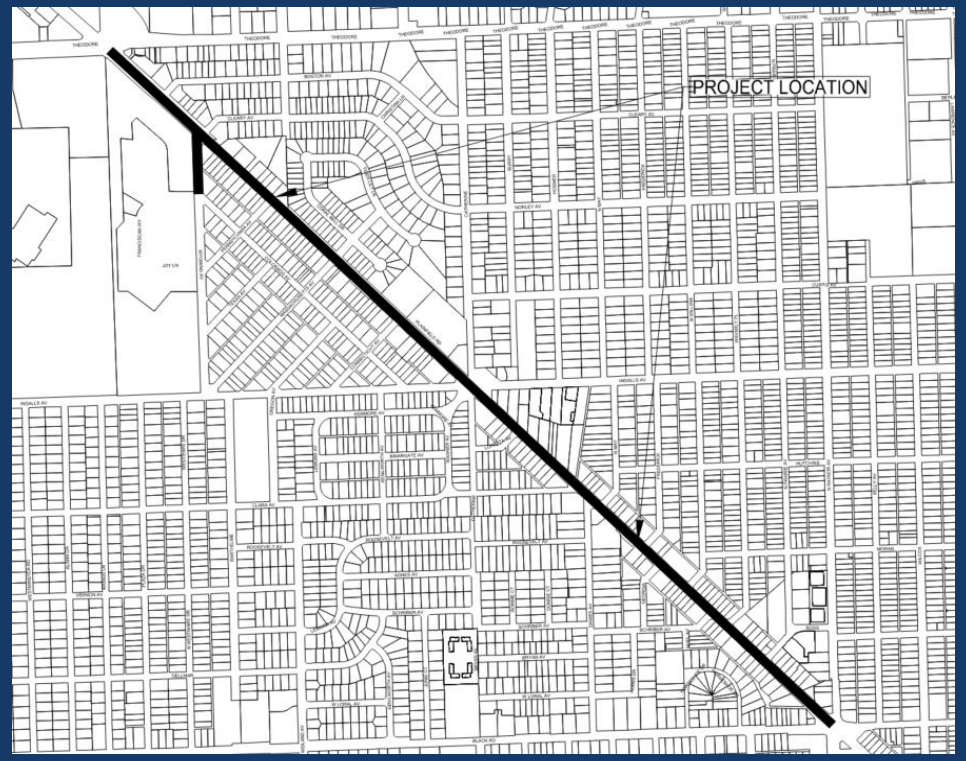
Broadway, Center, and Western



- 7,500 feet of 8” – 12” DI
- Estimated Notice to Proceed: 7/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- Expected Lead Service Lines
- Soil boring logs and signed LPC-663 included in appendices
- Work within IDOT ROW; Detour required; Bond amount not yet determined
- Sequencing at pressure zone boundary

Project Review – Bid Group 1

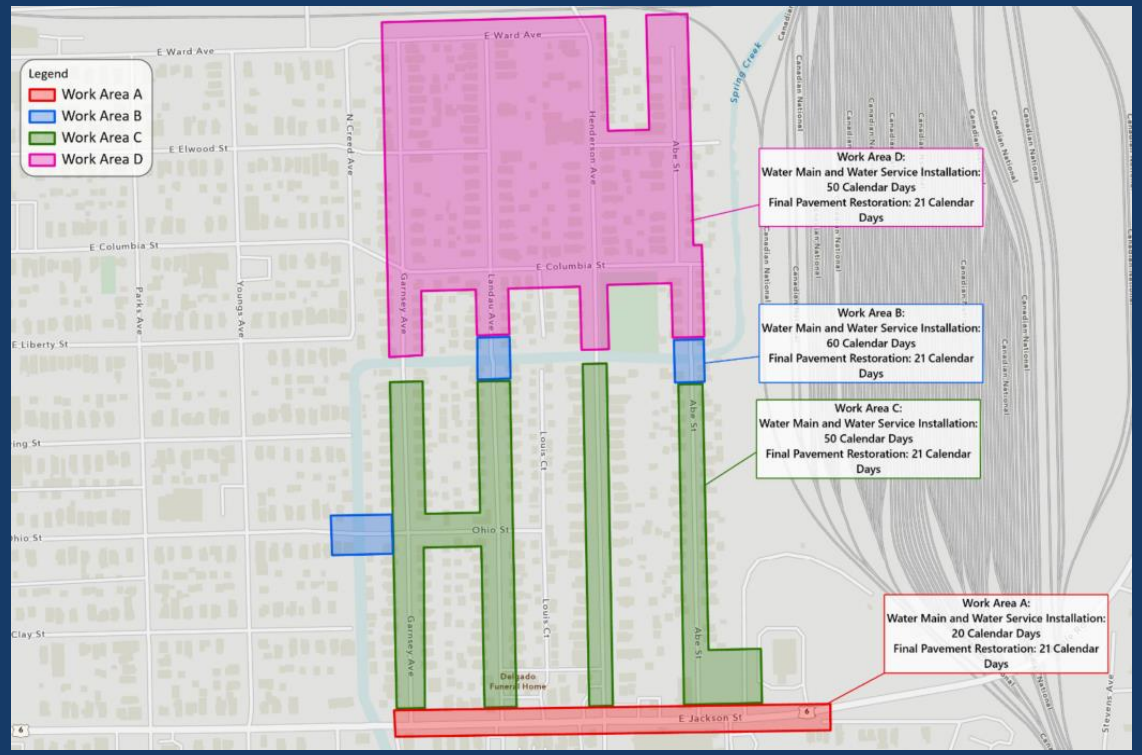
Plainfield Road (Theodore to Black)



- 10,100 feet of 6” – 12” DI Water Main
  950 feet of 15” Sanitary Sewer
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 120 days
- Final Completion: 150 days
- Expected Lead Service Lines
- Signed LPC-663 included in appendices
- Work within IDOT ROW. Detour required; Bond amount not yet determined
- Bypass pumping required for sanitary sewer work

Project Review – Bid Group 1

Spring Creek Phase 1



- 14,700 feet of 6” – 16”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 180 days
- Final Completion: 210 days
- Expected Lead Service Lines
- Soil boring logs and signed LPC-663 included in appendices
- Work within IDOT ROW. Detour required; Bond amount not yet determined
- Three creek crossings
- Rear yard service abandonments

Project Review – Bid Group 1

West Park



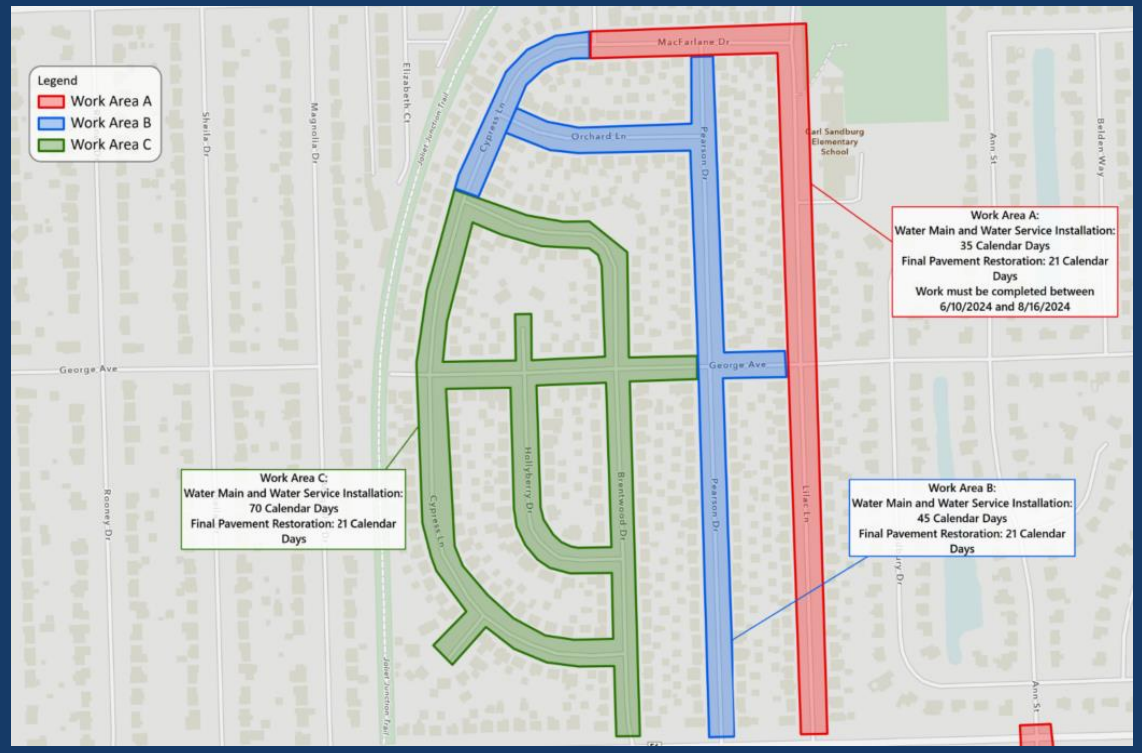
- 8,900 feet of 6” – 16”, DI or PVC
- Estimated Notice to Proceed: 5/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- Soil boring logs and signed LPC-663 included in appendices
- HDD installation south of Park Front St

Project Review – Bid Group 2

Project	Last Day for DBE Ads	Last Day for Questions	Bid Opening	
Bridal Wreath Acres	November 19	November 30	December 5	10:00 AM
Forest Park Phase 3	November 19	November 30	December 5	2:00 PM
Hickory Creek East	November 20	November 30	December 6	10:00 AM
Idylside	November 20	November 30	December 6	2:00 PM
Parkview North	November 21	November 30	December 7	10:00 AM
Varnado Park Area	November 21	November 30	December 7	2:00 PM

Project Review – Bid Group 2

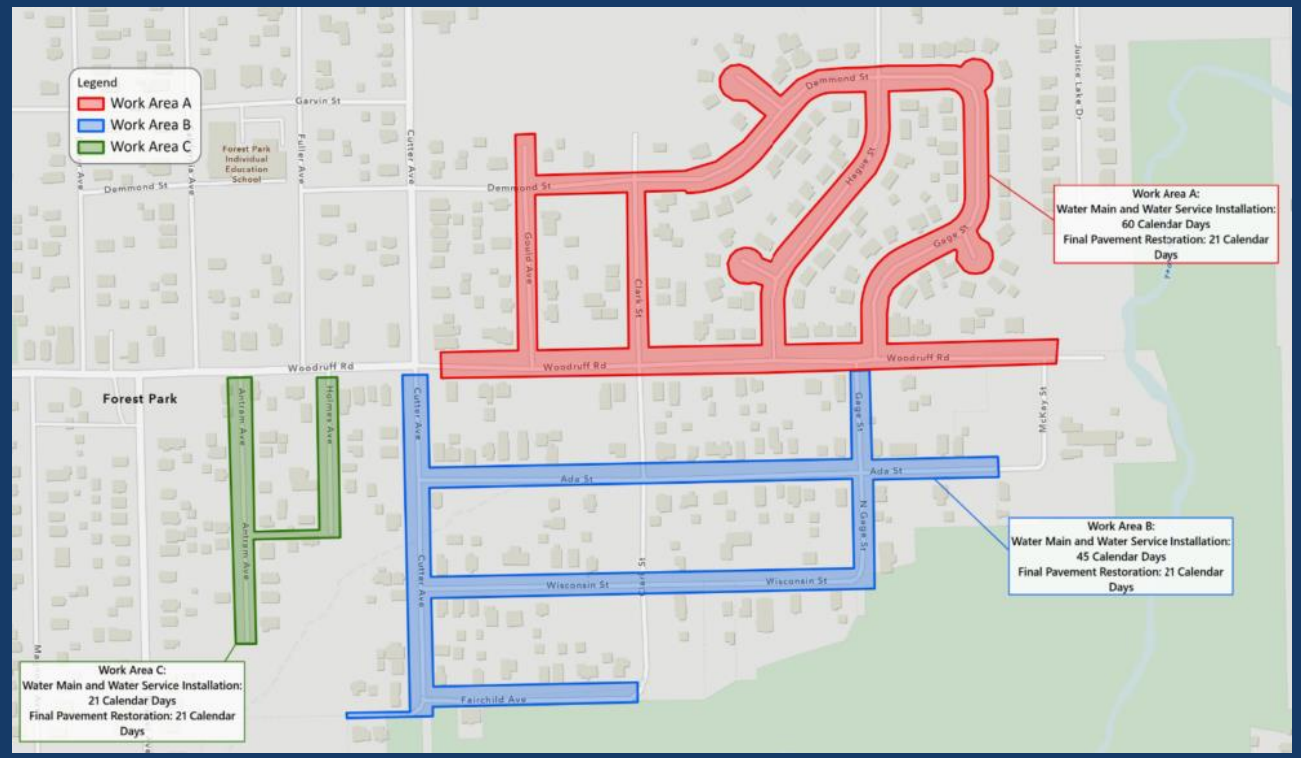
Bridal Wreath Acres



- 14,600 feet of 6” – 8”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 150 days
- Final Completion: 180 days
- City will complete pH testing and sign LPC-662
- Coordinate Work Area A sequencing with school
- Coordinate schedule/sequencing with 2024 Sanitary Sewer Rehabilitation Contractor

Project Review – Bid Group 2

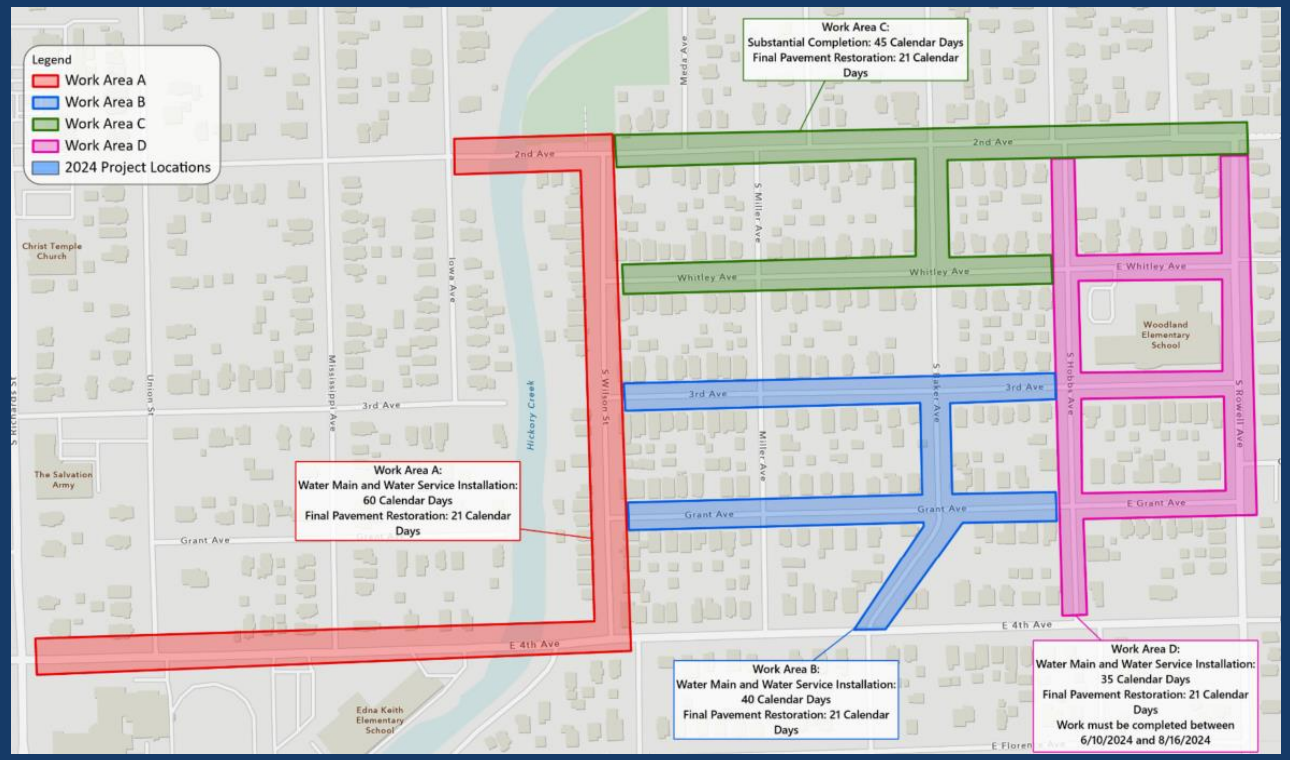
Forest Park Phase 3



- 13,800 feet of 6” – 16”, DI or PVC
- Estimated Notice to Proceed: 6/1/24
- Substantial Completion: 120 days
- Final Completion: 150 days
- City will complete pH testing and sign LPC-662
- Five crossings below 30-inch transmission main

Project Review – Bid Group 2

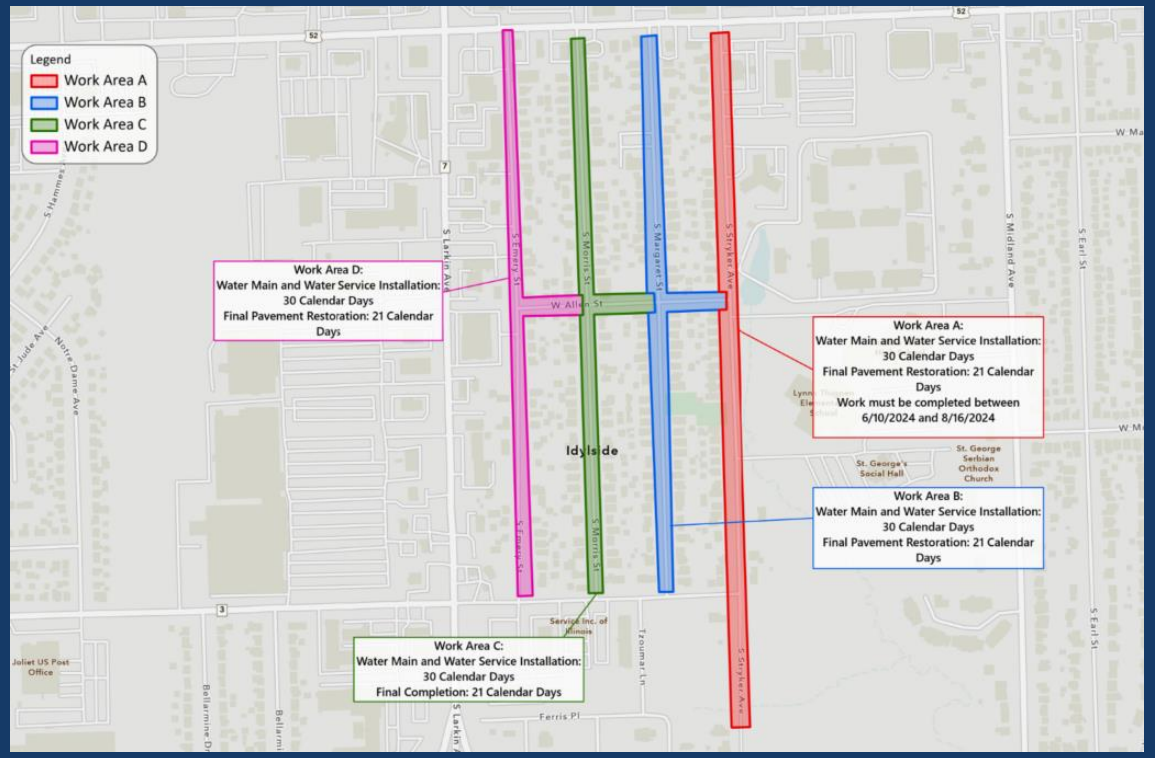
Hickory Creek East



- 14,200 feet of 8” – 16”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 180 days
- Final Completion: 210 days
- Expected Lead Service Lines
- Soil boring logs and signed LPC-663 included in appendices
- Two creek crossings
- Sequencing at pressure zone boundary

Project Review – Bid Group 2

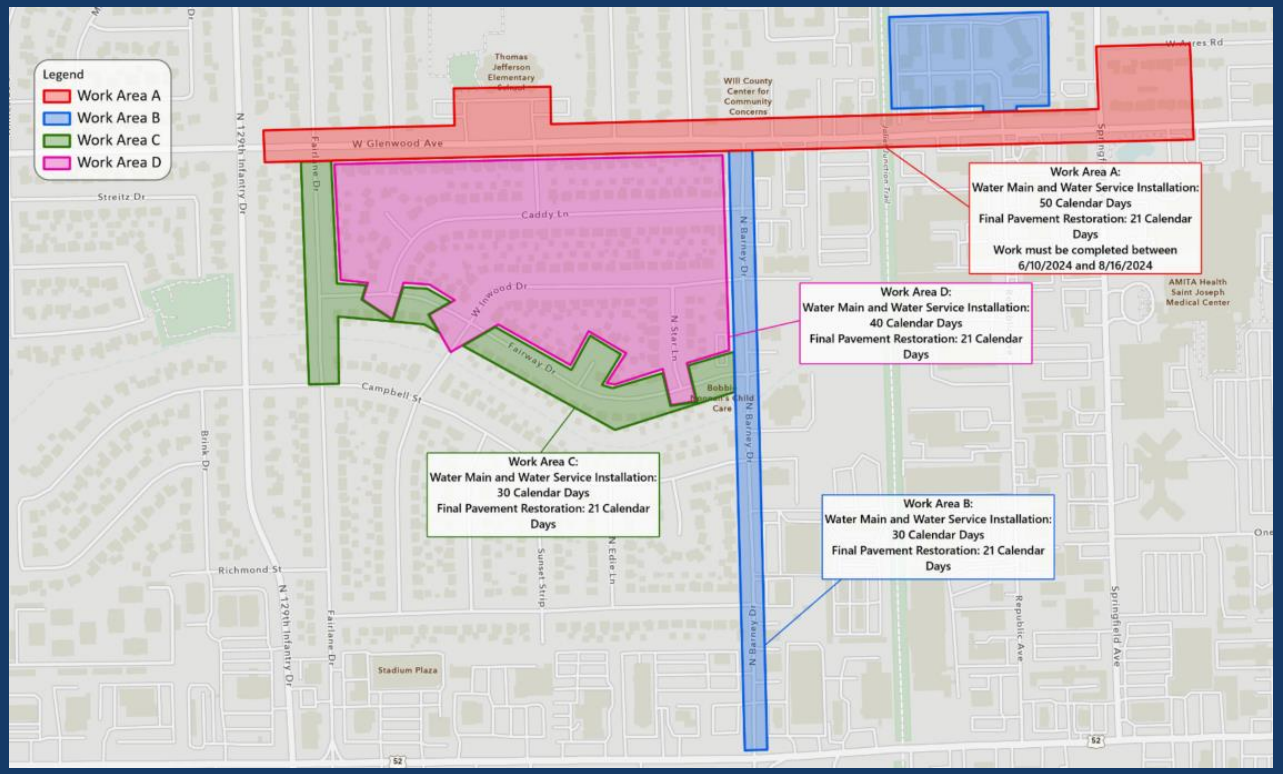
Idylside



- 12,600 feet of 8” – 16”, DI or PVC
- Estimated Notice to Proceed: 5/1/24
- Substantial Completion: 120 days
- Final Completion: 150 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662
- Coordinate sequencing with school

Project Review – Bid Group 2

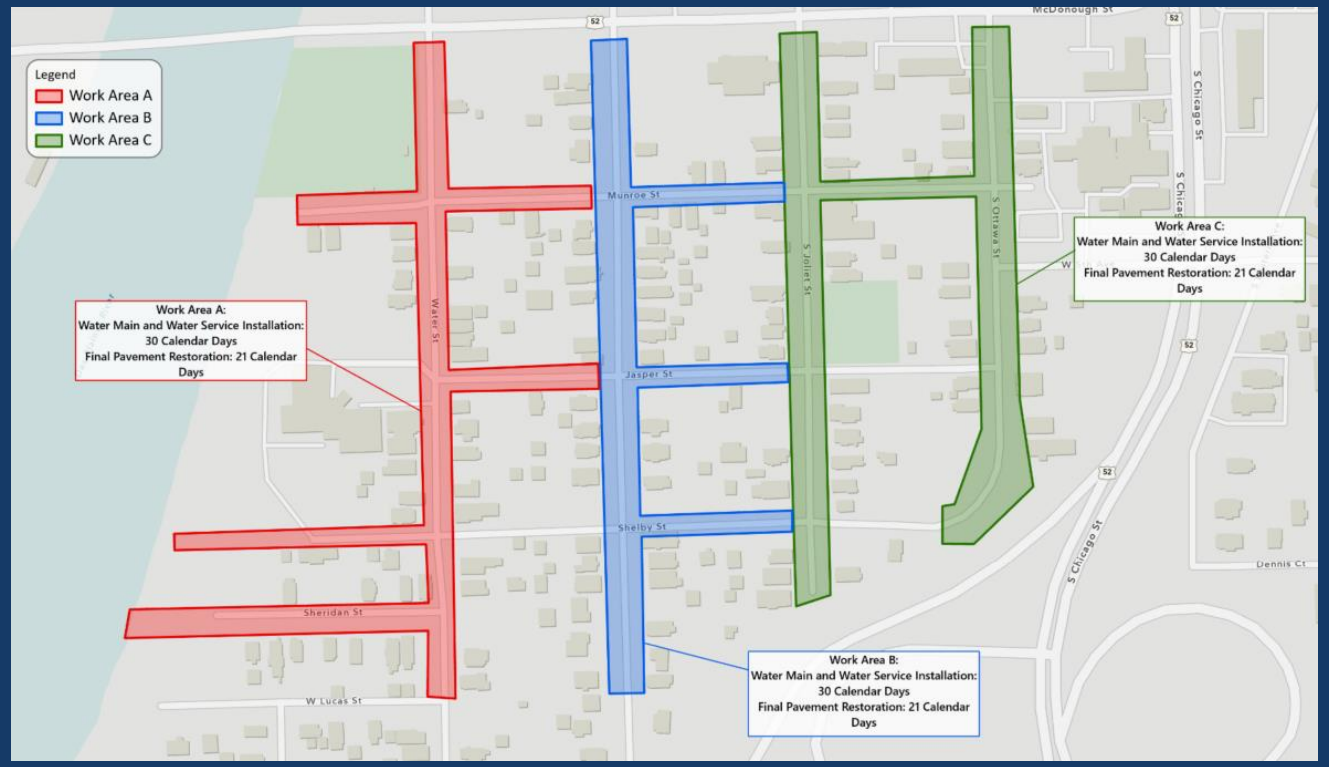
Parkview North



- 15,300 feet of 6” – 16”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 150 days
- Final Completion: 180 days
- City will complete pH testing and sign LPC-662
- Two creek crossings
- Coordinate sequencing with school
- Rear yard service abandonments

Project Review – Bid Group 2

Varnado Park Area



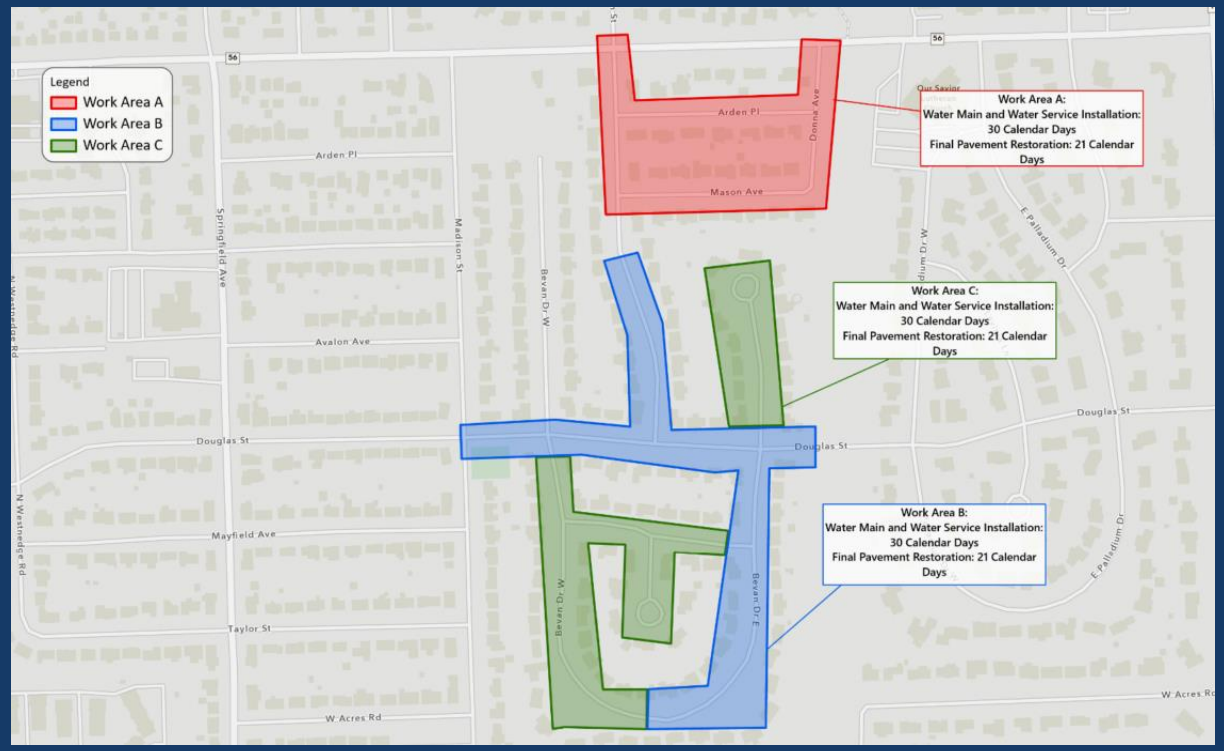
- 8,100 feet of 6” – 12”, DI or PVC
- Estimated Notice to Proceed: 7/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- Expected Lead Service Lines
- Soil boring logs and signed LPC-663 included in appendices
- Includes storm sewer installation

Project Review – Bid Group 3

Project	Last Day for DBE Ads	Last Day for Questions	Bid Opening	
Black Road Acres Phase 2	November 26	December 7	December 12	10:00 AM
Burr Oaks	November 26	December 7	December 12	2:00 PM
Garnsey Park Phase 5A	November 27	December 7	December 13	10:00 AM
Garnsey Park Phase 5B	November 27	December 7	December 13	2:00 PM
Krings Acres Phase 2A	November 28	December 7	December 14	10:00 AM
Krings Acres Phase 2B	November 28	December 7	December 14	2:00 PM

Project Review – Bid Group 3

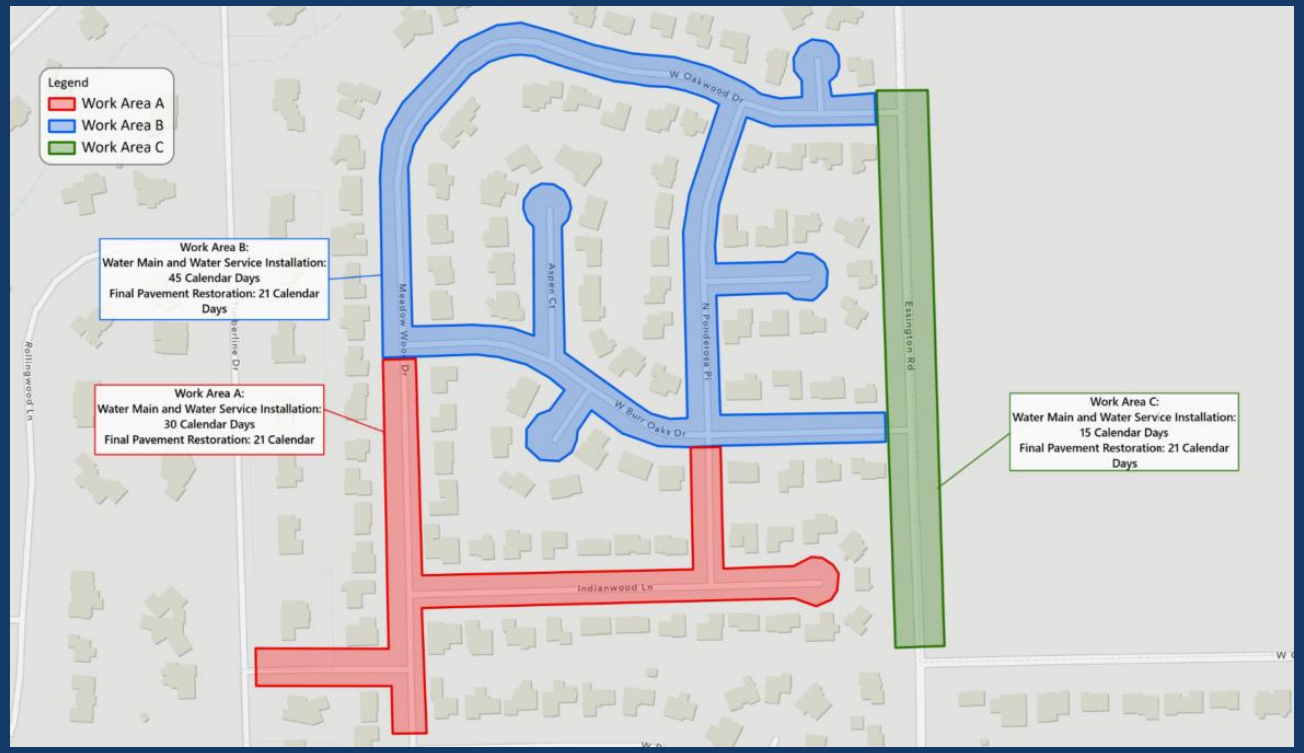
Black Road Acres Phase 2



- 8,200 feet of 6” – 8”, DI or PVC
- Estimated Notice to Proceed: 7/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- City will complete pH testing and sign LPC-662

Project Review – Bid Group 3

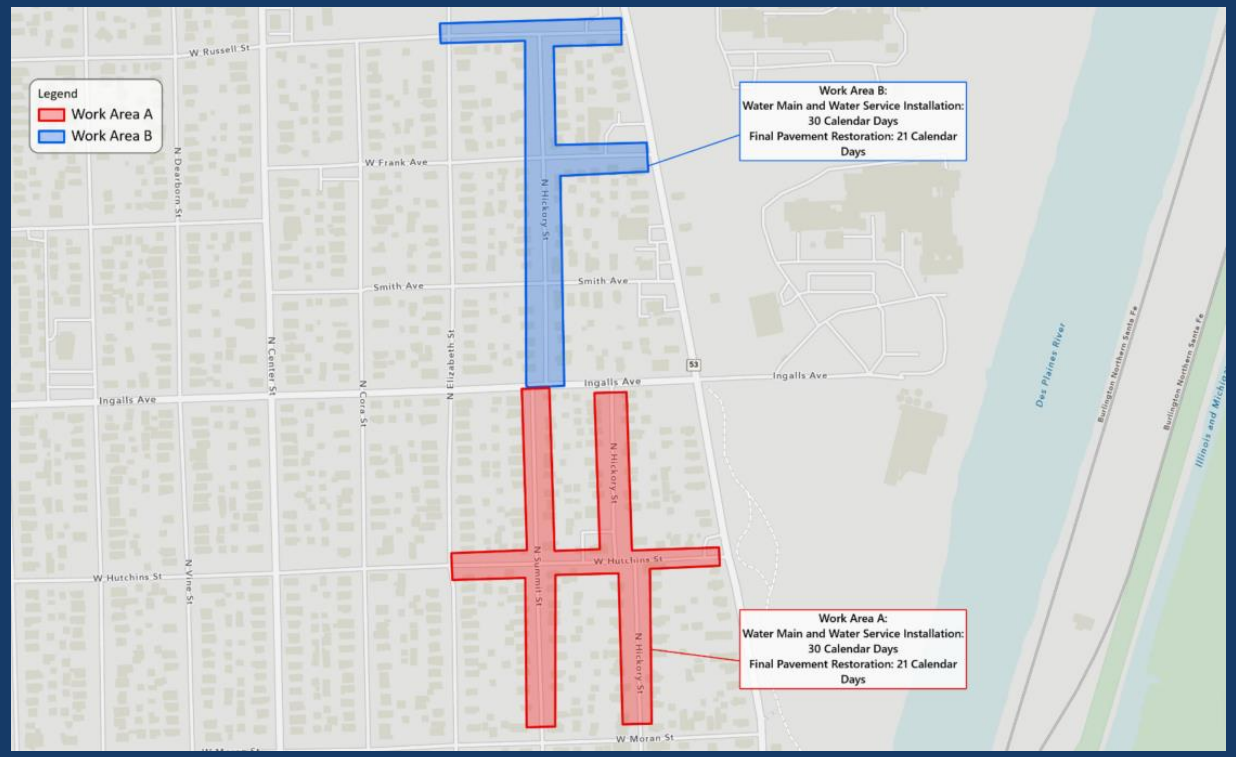
Burr Oaks



- 8,700 feet of 6” – 16”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- City will complete pH testing and sign LPC-662

Project Review – Bid Group 3

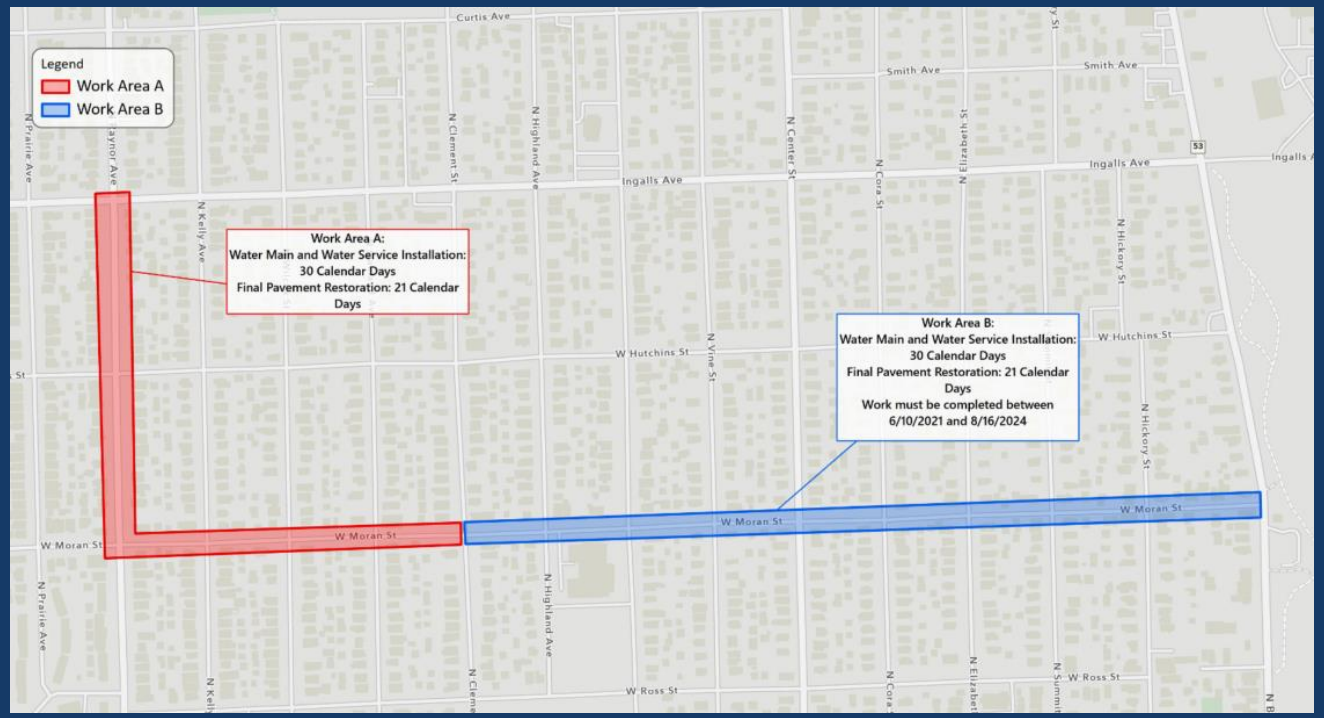
Garnsey Park Phase 5B



- 6,200 feet of 6” – 8”, DI or PVC
- Estimated Notice to Proceed: 7/1/24
- Substantial Completion: 60 days
- Final Completion: 90 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662
- Work within IDOT ROW; Bond amount not yet determined

Project Review – Bid Group 3

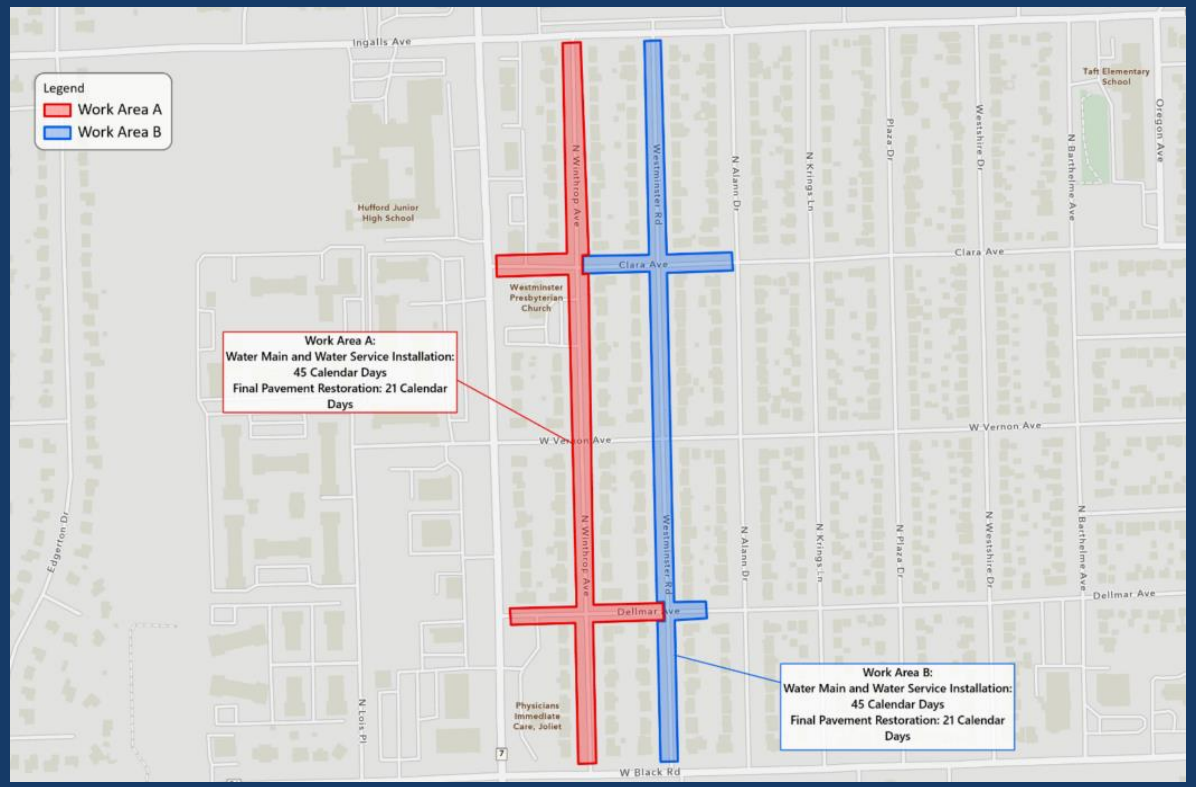
Garnsey Park Phase 5A



- 6,700 feet of 8” – 12”, DI or PVC
- Estimated Notice to Proceed: 5/1/24
- Substantial Completion: 60 days
- Final Completion: 90 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662
- Work within IDOT ROW; Bond amount not yet determined
- Coordinate sequencing with school

Project Review – Bid Group 3

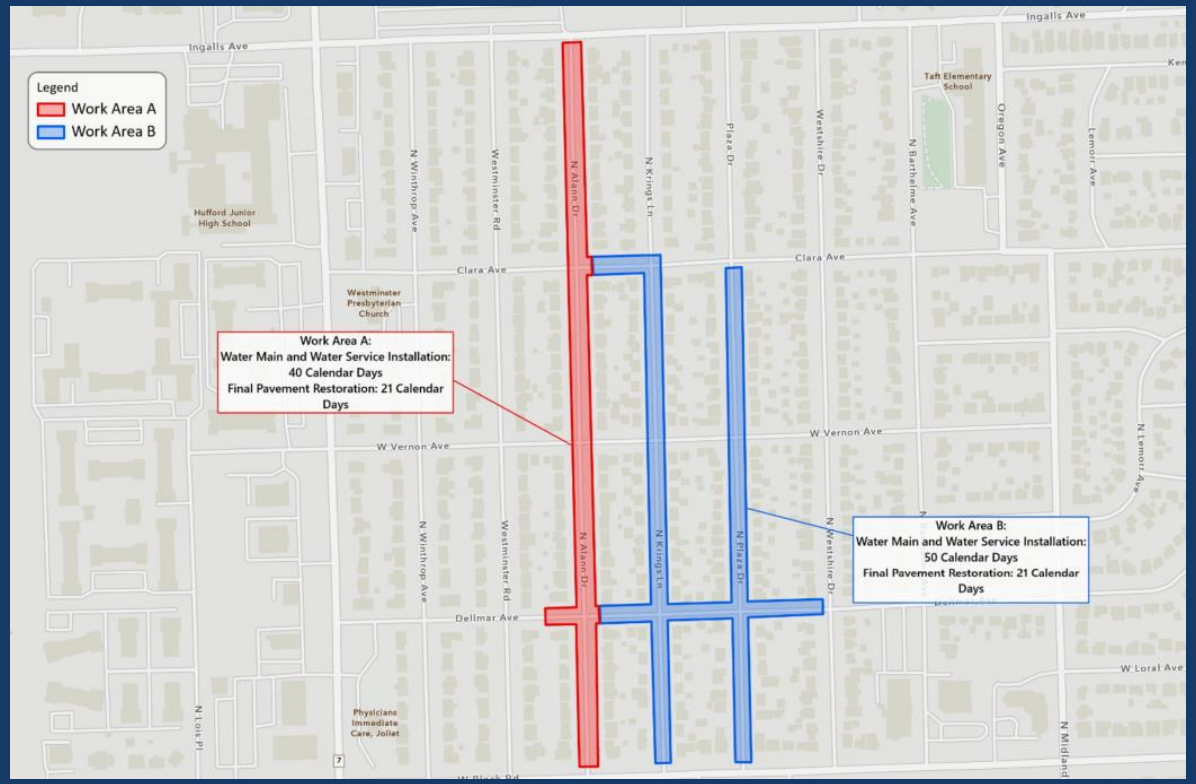
Krings Acres Phase 2A



- 7,000 feet of 8” – 12”, DI or PVC
- Estimated Notice to Proceed: 4/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- Expected Lead Service Lines
- City will complete pH testing and sign LPC-662
- Work within IDOT ROW;
  Bond amount not yet determined
- Coordinate sequencing with school

Project Review – Bid Group 3

Krings Acres Phase 2B



- 7,700 feet of 8” – 12”, DI or PVC
- Estimated Notice to Proceed: 6/1/24
- Substantial Completion: 90 days
- Final Completion: 120 days
- City will complete pH testing and sign LPC-662

Bidding Requirements

Important Dates

	Bid Group 1	Bid Group 2	Bid Group 3
Last Day for DBE Ads	November 12-14	November 19-21	November 26-28
Last Day for Questions	November 21	November 30	December 7
Bid Openings	November 28-30	December 5-7	December 12-14

Q&A



Please sign attendance sheet

Contact information in Advertisement for Bids and Bidder Instructions