## Home Road Water Plant and Transmission Mains

#### Public Meeting | June 18, 2024





ANDREW J. GINTHER, MAYOR

### Meeting Overview and Format

- Welcome and introductions
- The need for a new water plant and transmission mains
- Home Road Water Plant overview
- Transmission Mains overview and corridors
- Facilitated question and answer session
- Adjourn to information stations







### **Discussion Ground Rules**

- When we open it to questions, please raise your hand so we can address each question or comment in order
- Be succinct so we get to everyone
- Save questions specific to your property or areas in front of your property for one-on-one conversations with the project team
- It's okay to disagree; please be respectful, polite and kind







## The Need for a New Water Plant and Transmission Mains









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#### **Regional Growth Forecast Data Points**

 The 15-county Central Ohio region is on track to reach nearly 3.15 million residents by 2050, a small uptick from previous projections









#### A New Fourth Water Plant

- Columbus' three water plants supply an average of 145 million gallons per day of drinking water to Columbus and surrounding central Ohio communities.
- Continued growth along with the need to increase reliability and resiliency across the water supply system, has driven the need for additional water capacity









## Why We're Building Another Water Plant

- We need additional water capacity to serve the continued growth of population and industry in central Ohio and to increase reliability and resiliency across the water supply system
  - 1998-Water Beyond 2000 Report
  - Water Master Plans updated every 10 years
  - Three existing water plants supply an average of 145 MGD (million gallons per day)

















Home Road Water Plant 48 MGD Capacity

#### Subject to Design Changes



Water Plant





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#### Home Road Water Plant Quarry Site Layout

#### Subject to Design Changes



Water Plant **Transmission Mains** 



Home Road Water Plant



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#### Site Preservation Efforts



 Gazebo and cemetery historically preserved and protected  Dedicated access to the cemetery will be provided post-construction







## Sustainability Efforts

- Support Sustainable Columbus:
  - Stream restoration and wetland preservation
  - Solar energy and electric vehicle charging stations
  - Stormwater management
  - Pursuing:
    - LEED and LEED Zero for the Admin Building
    - Envision certification for the entire site









## Suggested Traffic Routes

- Route Home Road Water Plant construction traffic through less developed areas
- Minimize the use of local roadways







Home Road Water Plant



### Water Plant Site Preparation

#### Tree Removal

- Live non-invasive trees removed will be replaced
- On-site, along O'Shaughnessy or other locations per Columbus tree policy
- Rock Excavation
  - Engineered, controlled blasting
  - An informational meeting will be held before excavation work

#### Power Supply

- First Energy transmission line to the quarry site
- Route and timeline TBD







#### Likely Traffic Routes: Rock Hauling

- US 42
- State Route 745 (Dublin Road)
- County roads
  - Home Road
  - Moore Road
  - S. Section Line Road





Water Plant Transmission Mains



Home Road

Water Plant

### **Construction Site Characteristics**

#### Construction

- Estimated Work Hours: 7:00 AM to 7:00 PM, Monday to Saturday
- Light & Noise: Utilizing the City of Columbus ordinances
- **Dust Control:** Required during construction

#### Site Safety & Security

- Controlled access at all entrances
- Cemetery access by appointment only







#### **Three-Phase Construction Schedule**





#### Home Road Water Plant Cost

- 30% design estimate \$1.379B
  - Cost does not include construction contingency
- Cost estimate includes the following:
  - Design contingency
  - Escalation to midpoint of construction
  - Contingency for market conditions (e.g., major competing projects concurrent with water plant construction schedule)





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### Goals for the Transmission Mains

- Select the most technically feasible, reliable, resilient and constructible routes
- Collaborate with stakeholders to coordinate potential capital investments
- Be transparent with the public
- Minimize disruptions to the extent possible
- Communicate, communicate, communicate!







### Project Scope

- Two transmission mains (for resiliency and reliability)
- Evaluated 14 corridors
- One river crossing
- First main is scheduled to be completed by December 31, 2028



## **Corridor Evaluation Process**

- Aerial mapping
- OUPS calls
- Preliminary base mapping
- Alignment layout to compare corridors
  - Over 100 miles were evaluated
- Site visits
- Pairwise comparison
- Risk analysis
- Cost estimates





#### Corridors A & B Selection Process

- Corridor A
  - Rock
  - Narrow corridor & numerous utilities
  - Significant road closures
  - Highest ranked risk and pairwise corridor
- Corridor B
  - Rock, cost
  - Significant road closures
  - Second highest risk corridor



#### Corridors C, D, E & F Selection Process

- Corridor C
  - EPA water pressure requirements
- Corridor D & E
  - EPA water pressure requirements
  - SR 33/Avery/Muirfield Interchange
- Corridor F
  - Portion of F is recommended



#### Corridor Recommendations

- Pipe size: 48-inch mains
- Geotech and survey fieldwork is occurring along these corridors
- Public input will further inform the final design for the two alignments within the corridors (goal is to avoid, minimize and mitigate property impacts)



### Water Plant Transmission Mains Cost

- Preliminary design estimate \$511M
- Cost estimate includes the following:
  - Design & construction contingency
  - Escalation to midpoint of construction
  - General conditions/bonds/insurances









#### First Corridor Construction Phase 1











#### Second Corridor Construction Phase 2



Water Plant Transmission Mains





#### Schedule at a Glance









## Public Outreach to Date

- Website <u>https://cbuswater.com</u>
- Letters

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- Door hangers
- Jurisdictional field work updates
- Meeting postcards
- Business cards



Water Plant

Transmission Mains



Home Road

Water Plant

## Meeting Materials Available Online Soon

- Presentation online by June 20
- Virtual recording
  - https://cbuswater.com/
  - Week of June 24
- More public meetings will be held before construction begins
- Frequently asked questions online will be updated continually







# Next Steps





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- Digest the input we receive tonight
- Continue survey, geotech borings, sub-surface evaluations and field walks
- Convene jurisdictional design review meetings
- Meet with property owners, if necessary
- Coordinate construction with local capital improvement programs
- Finalize the alignments within each corridor







# Your Questions (High-Level)





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## Before Information Stations





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## How You Can Help Us Finalize Alignments

- Identify your property at the information station maps or on a comment form (team members will help you)
- Let us know where you have:
  - A septic tank, wells
  - Underground utilities such as dog fences, lighting or sprinklers
  - Mature trees and landscaping







## Adjourn to Information Stations





## Thank You





