

## Things to Know

- The video, speaking, and screen sharing functions are available to presenters, but disabled for participants to avoid unauthorized persons or offensive content.
- You can leave and rejoin the meeting at any time (unless the meeting is at capacity or you are removed for inappropriate behavior).
- You can communicate through the Q&A feature.
- Multiple opportunities for questions will be provided throughout the presentation.
- Presentation and additional materials are available [www.a2gov.org/smainwatermain](http://www.a2gov.org/smainwatermain)

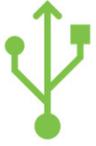


# South Main Street Water Main Replacement and Resurfacing

Public Engagement Meeting No. 2 – Crafting the Project Approach  
June 23, 2021

City of Ann Arbor – Public Services Area – Engineering

[www.a2gov.org/smainwatermain](http://www.a2gov.org/smainwatermain)



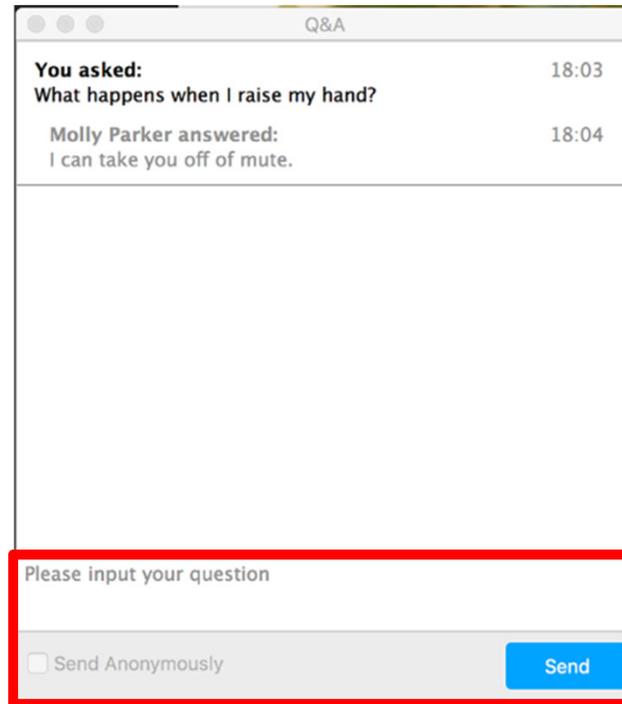
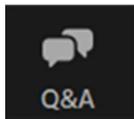
# Technology Overview

## Ask a Question or Share a Comment

We will be using the Q&A feature for those using a computer and the Raise Hand feature for those who are on the phone.

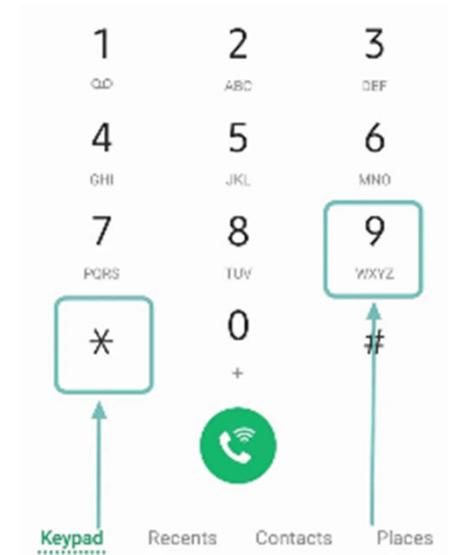
### Computer

- Please use the Q&A feature located at the bottom of the screen to ask a question/comment.
- Type your question/comment.
- Click **Send**.



### Phone

- Select \*9 to raise your hand
- You will be identified by the last 3 digits of your phone number



Audio Settings ^

Raise Hand

Q&A

Leave



# Technology Overview

## Polling

Note: When you raise your hand, the host will enable your microphone. The host will disable your microphone after your question.

### Computer

#### During an active poll

- Click your answer
- Press submit

Do you live in the designated project area

1. Do you live in the designated project area?

Yes

No

Submit

#### When the poll closes

- View results
- Press close

Host is sharing poll results

1. Do you live in the designated project area?

Yes 100%

No 0%

Close

### Phone

- Raise your hand (\*9)
- The host will unmute you
- Say your answer to the poll

**Note:** Phone polling **is not** anonymous. Everyone in the meeting will be able to hear your response.

Computer polling **is** anonymous. Your name will not be viewable with your response



# Demographic Poll **Optional and Anonymous**



## DEMOGRAPHIC SURVEY (OPTIONAL)

Thank you for participating with the City of Ann Arbor. The city is trying to gain a better understanding of who we are reaching to find ways we can continuously improve public engagement efforts and support inclusivity. To help us gain this understanding, please complete this brief, anonymous survey. This survey is completely voluntary; you are not required to fill it out.

**1. Do you live in Ann Arbor?**

- a. Yes
- b. No

**2. Do you work in Ann Arbor**

- a. Yes
- b. No
- c. Retired

**3. Age:**

- a. Under 15 years
- b. 15-19 years
- c. 20-29 years
- d. 30-39 years
- e. 40-49 years
- f. 50-59 years
- g. 60-69 years
- h. 70 years or older

**4. Which identifiers would you use to describe yourself?**

- a. American Indian or Alaska Native
- b. Asian
- c. Asian Indian
- d. Black or African-American
- e. Chamorro
- f. Chinese
- g. Filipino
- h. Japanese

- i. Korean
- j. Native Hawaiian or Pacific Islander
- k. Samoan
- l. White
- m. Middle Eastern or North African
- n. Hispanic or Latinx
- o. Other or Multiracial \_\_\_\_\_

**5. What is your gender identity?**

- a. Woman/girl
- b. Man/boy
- c. Transgender Woman/girl
- d. Transgender Man/boy
- e. Gender non-conforming or non-binary
- f. Other \_\_\_\_\_

**6. Which best describes your household income last year?**

- a. Less than \$24,999
- b. \$25,000 - \$34,999
- c. \$35,000 - \$49,999
- d. \$50,000 - \$74,999
- e. \$75,000 - \$99,999
- f. \$100,000-\$149,999
- g. \$150,000-\$199,000
- h. \$200,000 or more

**7. Do you rent or own your primary residence?**

- a. Rent
- b. Own
- c. Other

**8. What would make it easier for you to engage with the city?**

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## Zoom Meeting Norms

- Commit to learning and avoid speculation – we encourage you to ask questions through the Q&A feature so we can explore the issue together.
- When speaking over the phone, please move to a quiet area and silence any background sounds. We want to be sure that we hear what you are saying.
- Please remember the importance of rights and the dignity of others. With that, we ask that you:
  - Critique ideas, not people.
  - Are thoughtful about your language so this can be a comfortable and respectful forum for all participants - inappropriate written and/or verbal comment or language, including personal attacks and accusations, will result in the attendee being removed from the meeting.

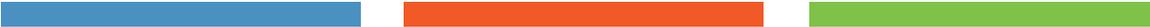
**Is there anything else anyone would like to add?**



## Follow-up Expectations

- Meeting summaries will be posted by July 1st at 12:00 p.m. (noon)
- Your feedback will be considered in addition to technical and cost considerations for the recommendations of this design effort.

# Agenda



1. **Introductions**
  2. **Overview of Public Engagement Meeting No. 1**
    - i. **Project Limits**
    - ii. **Project Purpose and Need**
    - iii. **Anticipated Elements of the Project**
    - iv. **Project Schedule – Expected Project Impacts**
    - v. **What we heard**
  3. **Project Design – Current Design Issues**
  4. **Potential Approach – Givens and Construction Staging Options**
  5. **Questions and Answers**
- 



## Project Staff – City of Ann Arbor



City of Ann Arbor – Engineering

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## Project Limits

S. Main Street – Huron to E. William Streets. Work along the side streets of Washington, Liberty, and E. William will extend east and west just far enough to keep future work out of S. Main Street for future projects.

In reviewing past work and future needs, it was determined necessary to extend the project limits north of Huron Street in order to avoid having to work within these intersections again in the foreseeable future. The work on S. Main Street will end at E. William Street (with the exception of a water main connection south of E. William on S. Main Street.)



# Project Vicinity





## Project Purpose and Need

It is necessary to replace the water main as it is approximately 100-years old and is at the end of its service life, does have several non-functioning valves, and is in need of replacement. The primary concern with the non-functioning valves is that they have diminished the capacity of the water main and can create performance and reliability issues (e.g. reduced ability to shutdown the water main in segments.)

The surface of the street is in poor condition and needs to be repaired before other more extreme repairs become necessary.



## Anticipated Elements of the Project

- Replace an existing 8-inch water main that is approximately 100-years old;
- Upsize to a 12-inch water main that meets, or exceeds, future needs;
- Provide improved fire flow from new fire hydrants and improved fire hydrant coverage;
- Periods of perceived inactivity in work due to necessary construction sequence(s);
- Replace galvanized water services from the shut-off valve located in the sidewalk in front of the building to the water meter inside the building (where applicable);
- Possibly install sanitary sewer leads in S. Main Street to service buildings that are without proper, public, sanitary sewer services;
- Provide new asphalt surface at the completion of the water main work;
- Ensure all sidewalk ramps meet current Americans with Disabilities Act (ADA) requirements



# Project Timeline

## ANTICIPATED PROJECT TIMELINE



*This timeline is subject to change based on funding and what is learned during the process.*



## What we Heard at Last Meeting and During our Walk and Talks

- Minimize disruptions to the businesses;
- Slight preference to work in stages;
- Slight preference not to work on weekends;
- Please keep us apprised of planned water main shutdowns;
- Will outdoor dining still be possible during the work?;
- How will construction impact the sidewalks and/or will the sidewalks be improved as part of the project work?



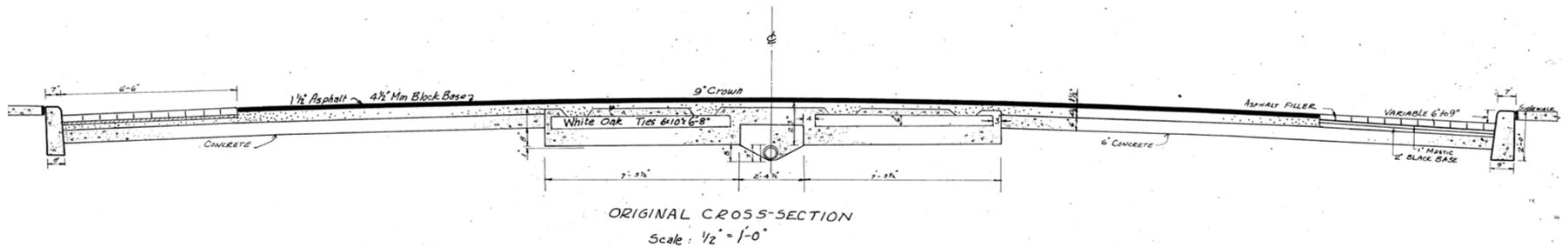
## Project Design – Current Design Issues

1. **Trolley Track Foundations**
  - Where are they?
  - What condition are they in?
  - Where and/or how far do they extend?
2. **Existing Sanitary Sewer Leads**
  - What condition are they in?
3. **Planned Water Main Alignment**
  - Items to consider
4. **Construction Staging Options**
  - Overview
  - Pros and Cons



## Project Design – Current Design Issues

### Trolley Track Foundations



- We have performed soil borings and pavement corings to determine their extent and condition;
- Will have more information in about two weeks;
- Difficult to work around;
- Possibly demolish and remove them.



## Project Design – Current Design Issues

### Existing Sanitary Sewer Leads

- We have investigated all known existing leads in S. Main Street;
- We will televise the individual leads that appear to be “unused” in early July to determine their condition;
- Once we understand their condition, we will be able to determine if they are available for future service;
- If not available, we will install replacement leads to outside the limits of roadway to facilitate future use.



## **Project Design – Current Design Issues**

### **Planned Water Main Alignment**

Items to consider during design:

- Existing Utilities that must be avoided;
- Construction Staging Considerations (how do we build this?);
- Duration of each phase;
- Proposed tie-in, valve, and fire hydrant locations;



## Potential Project Approaches

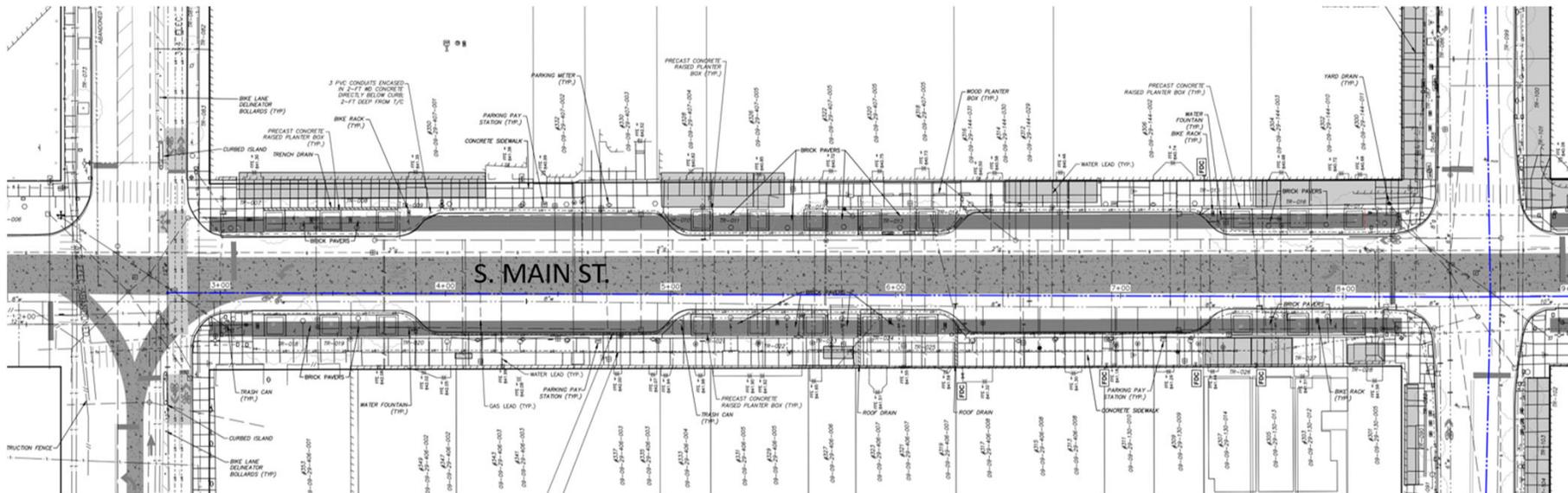
### Project “Givens” Relating to Construction

- We will maintain pedestrian access on both sides of S. Main Street;
- Access will be maintained to all businesses;
- The roadway is too narrow to maintain vehicular access along segment being constructed;
- There may be times when sidewalk access may be reduced or detoured (e.g. water service or sanitary sewer service replacements;)
- Scheduled water main shutdowns will occur – we will schedule and inform you of these in advance;
- Some night time water main shutdowns will be necessary – we will schedule and inform you of these in advance as well.



# Project Design – Current Design Issues

## Current Water Main Alignment – E. William to Liberty



E. WILLIAM ST.

E. LIBERTY ST.

### LEGEND

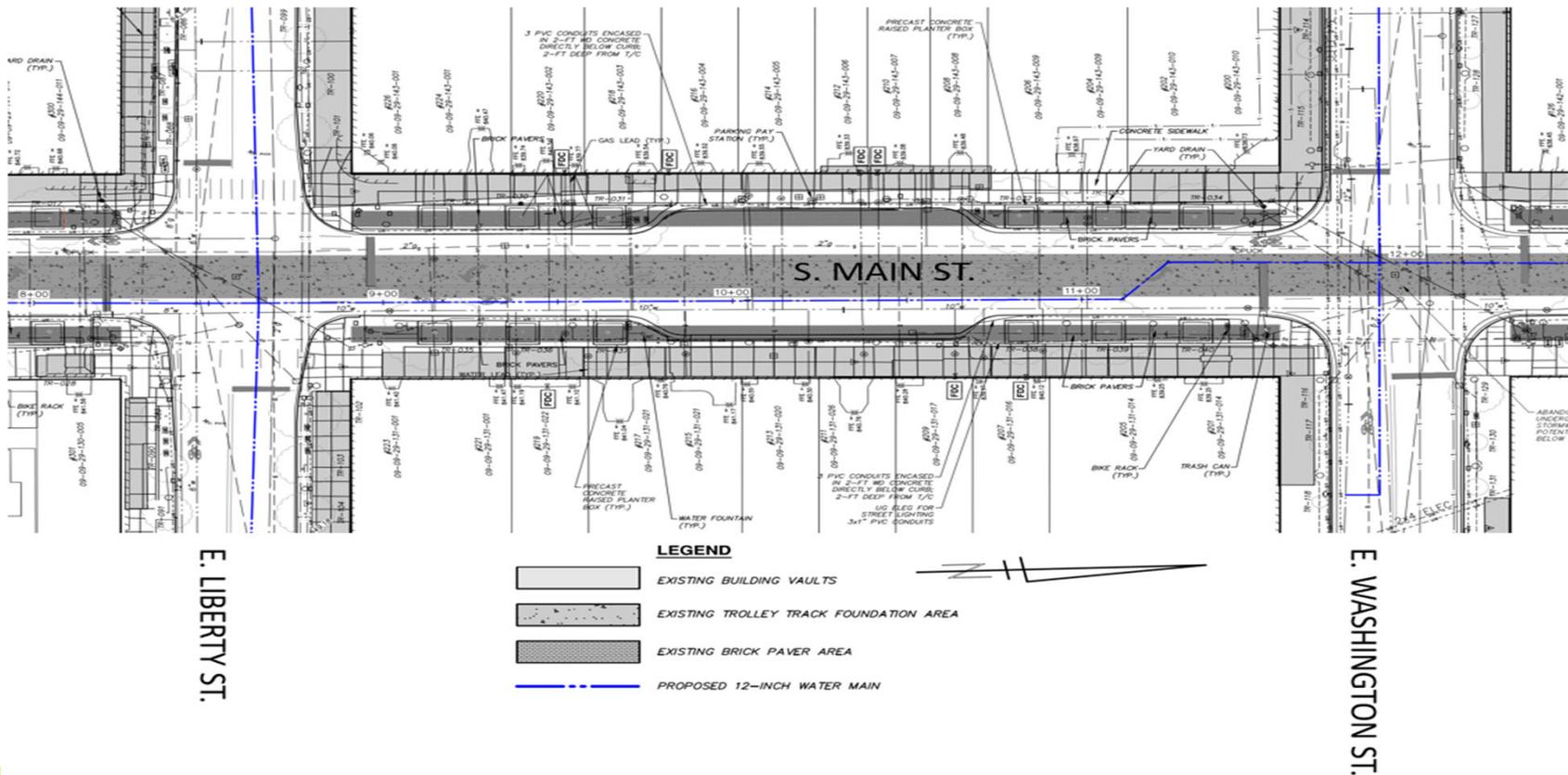
-  EXISTING BUILDING VAULTS
-  EXISTING TROLLEY TRACK FOUNDATION AREA
-  EXISTING BRICK PAVER AREA
-  PROPOSED 12-INCH WATER MAIN





# Project Design – Current Design Issues

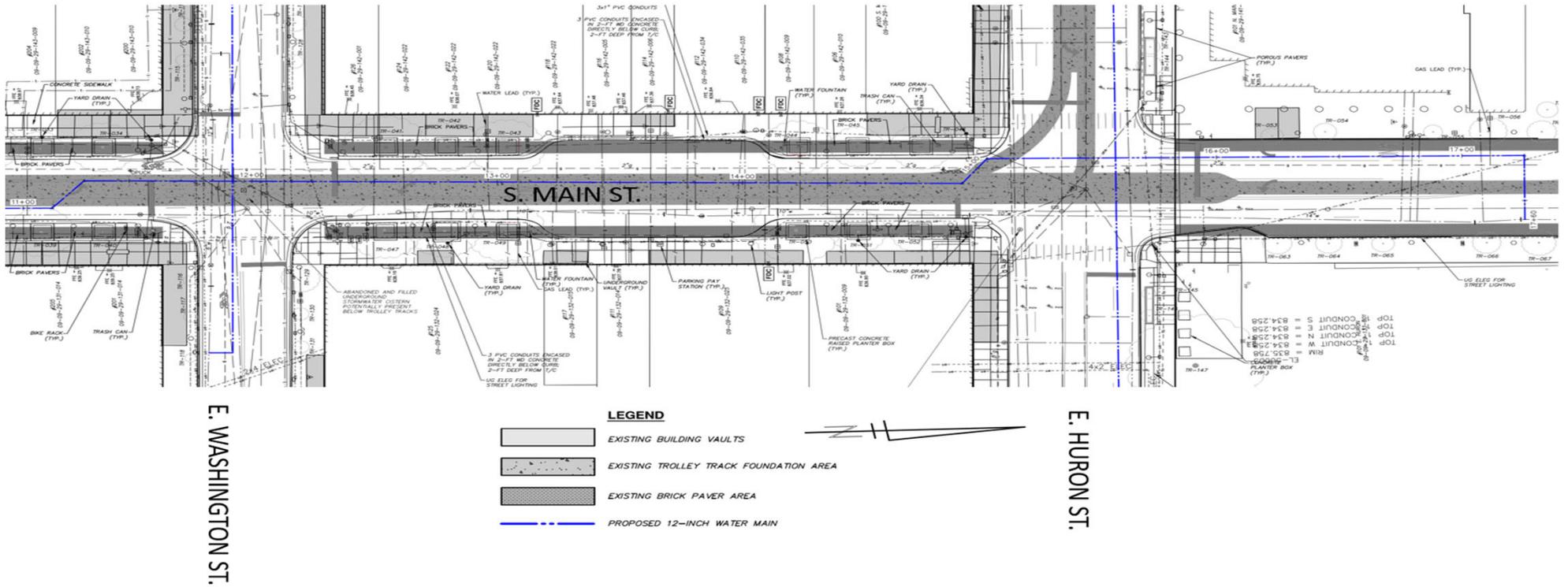
## Current Water Main Alignment – Liberty to Washington





# Project Design – Current Design Issues

## Current Water Main Alignment – Washington to Huron





# Potential Project Approaches

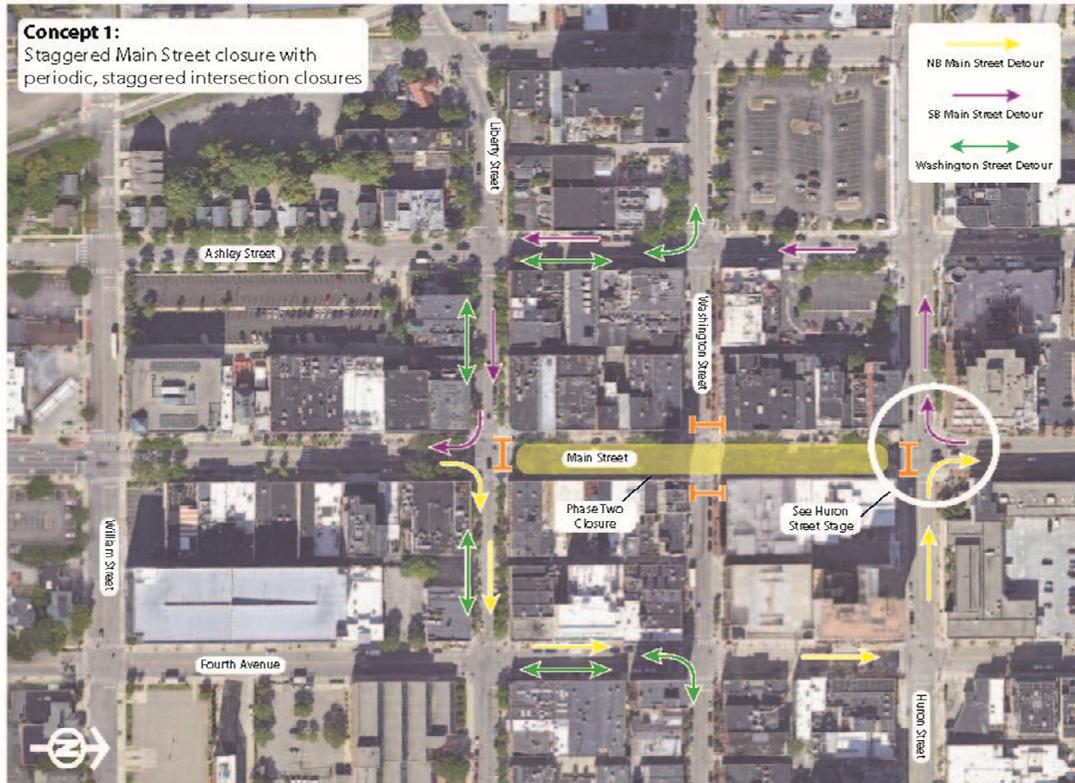
## Construction Staging – Concept I, Stage I





# Potential Project Approaches

## Construction Staging – Concept I, Stage II





# Potential Project Approaches

## Construction Staging – Concept I

### PROS

- Only one section of Main St would be under construction at a time (on street parking and vehicular traffic would remain accessible for businesses in unaffected areas);
- Traffic travelling into/out of downtown would be maintained via either Washington or Liberty;
- Likely easier to work around Special Events;
- More area along S. Main Street would be open for business;
- Emergency Access is easier and more effectively maintained;

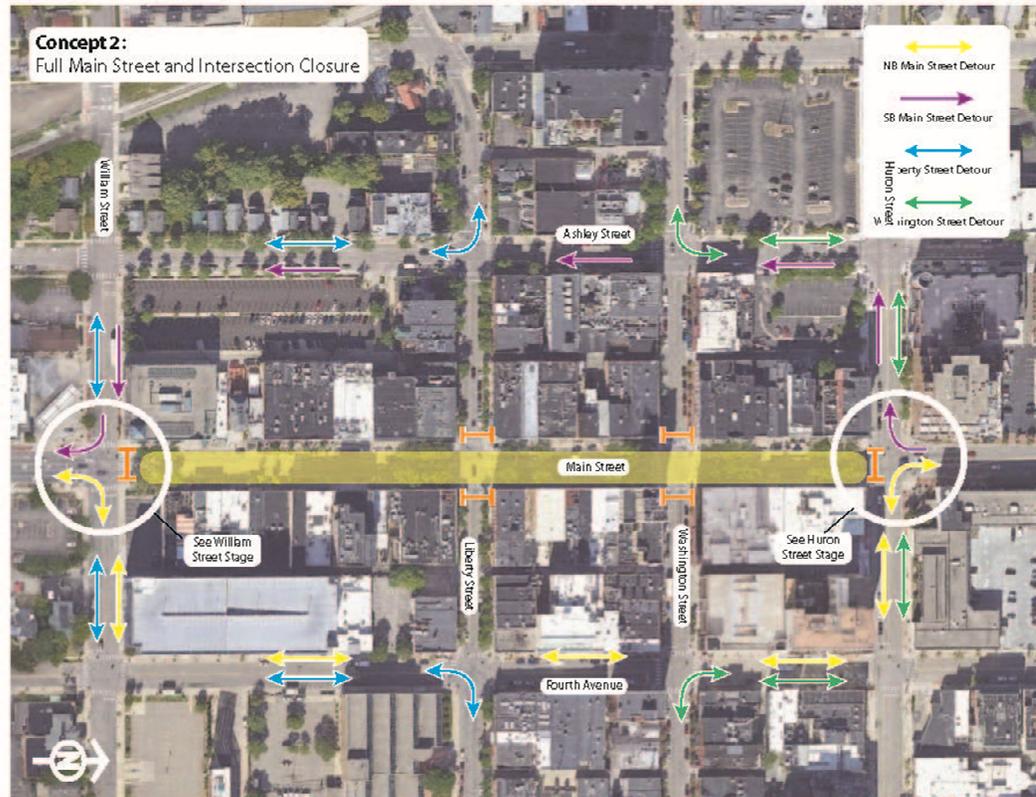
### CONS

- Possible Driver confusion (inconsistency with what is open/closed);
- Additional time for setting up/taking down work zone;
- Somewhat longer construction duration;



# Potential Project Approaches

## Construction Staging – Concept II





# Potential Project Approaches

## Construction Staging – Concept II

### PROS

- Driver Expectation: Consistent set up (detour) throughout the life of the project;
- Somewhat faster construction time;
- Construction Staging is simpler. More room is available for working and storing materials;
- “Seamless” construction;

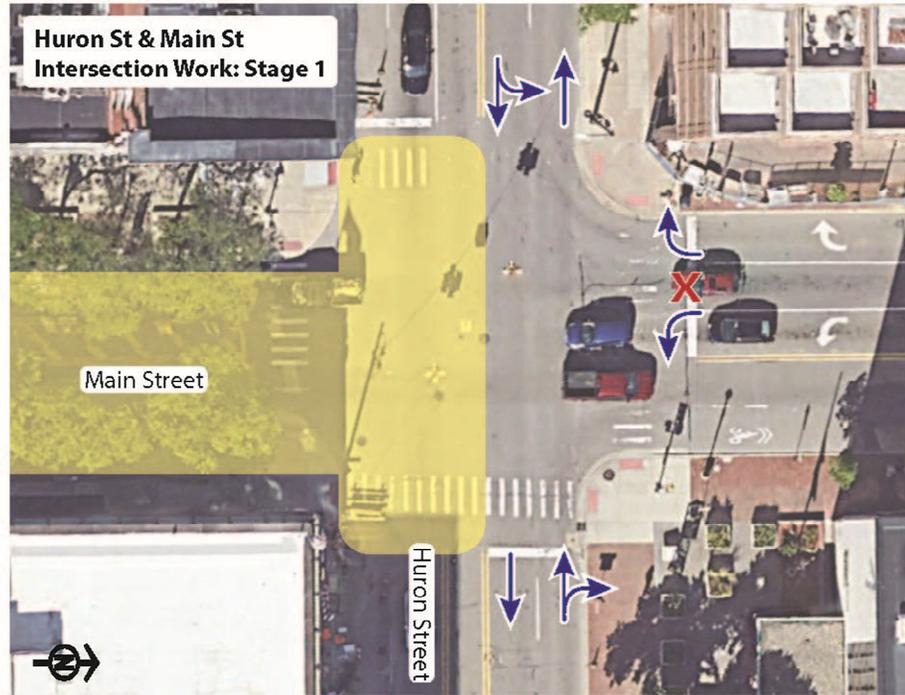
### CONS

- Emergency access more difficult to maintain;
- Vehicular circulation within the downtown would be restricted due to closures of the Liberty and Washington intersections for the duration of the project;
- Vehicular access to businesses and on-street parking inaccessible for longer duration;
- Larger sections of S. Main Street would be “under construction” for longer periods of time. More apparent disruption;
- Periods of perceived inactivity in work due to necessary construction sequence(s);



## Potential Project Approaches

### Construction Staging – S. Main & Huron Street, Stage I





## Potential Project Approaches

### Construction Staging – S. Main & Huron Street, Stage II





## Potential Project Approaches

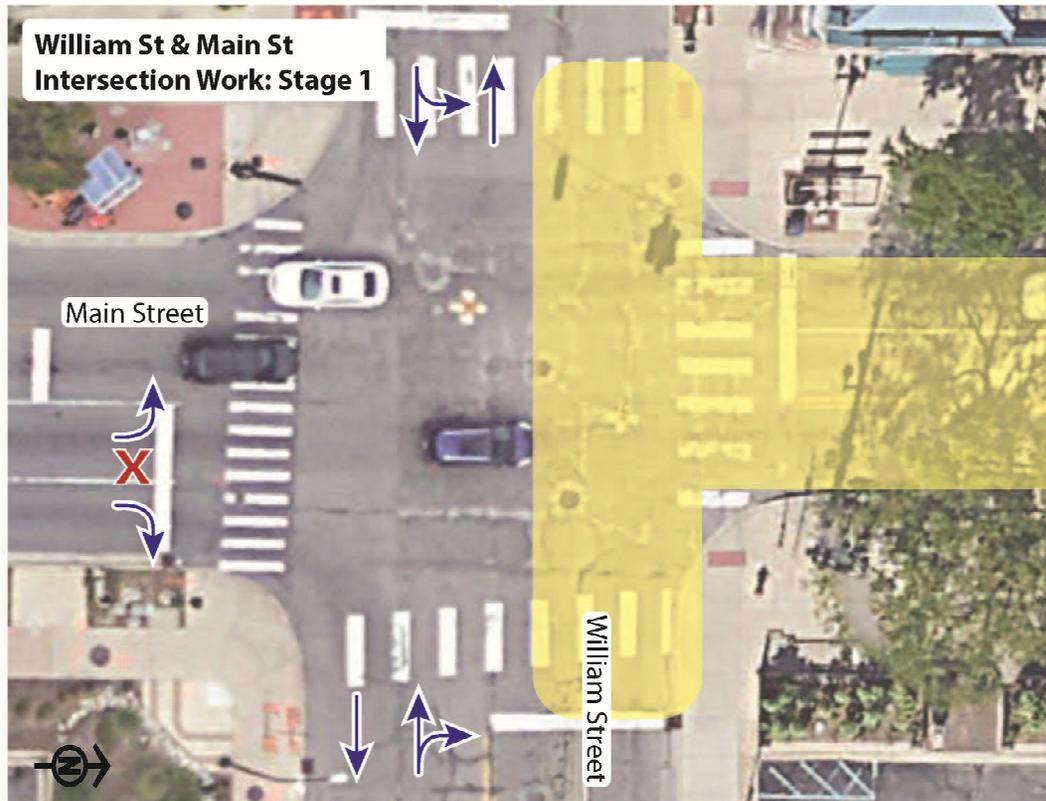
### Construction Staging – S. Main & Huron Street, Stage III





## Potential Project Approaches

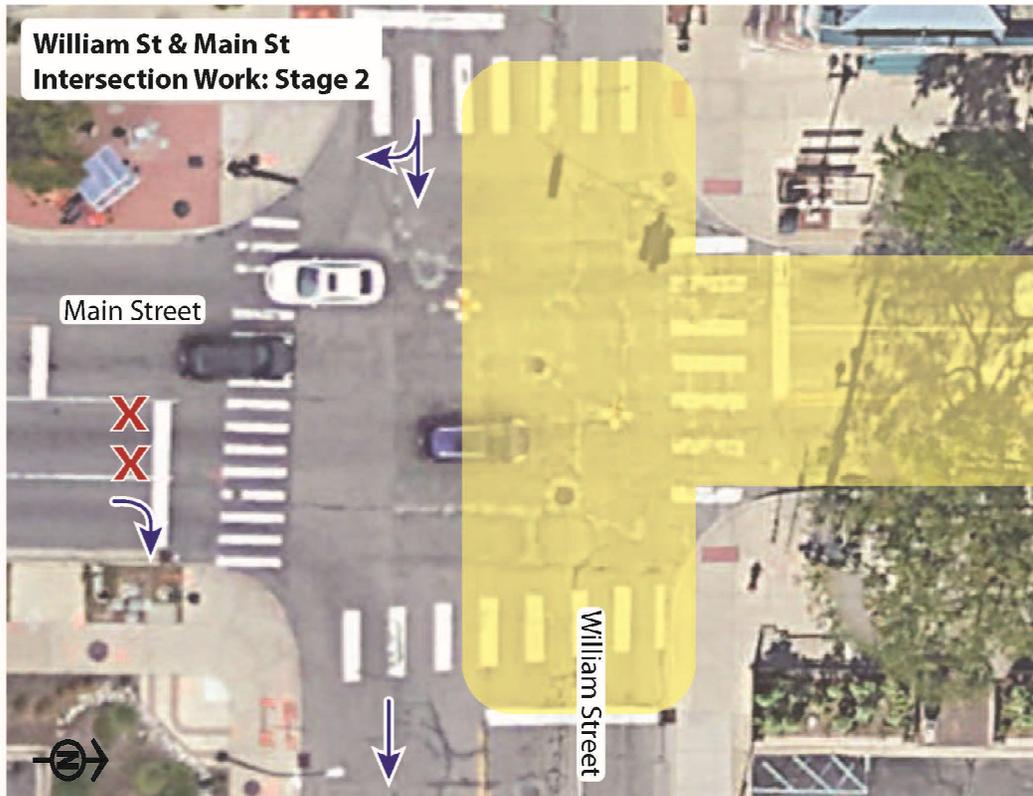
### Construction Staging – S. Main & William Street, Stage I





## Potential Project Approaches

### Construction Staging – S. Main & William Street, Stage II





## Currently Estimated Construction Duration – E. William to South of Huron Street

<u>Major Tasks</u>	<u>Duration</u>
• Removals =	2.5 Weeks*
• Water Main Installation (2,100') =	5 Weeks
• Water Main Testing =	2 Weeks
• Service Connections & Tie-ins =	2 Weeks
• Road Construction, Concrete Work, Sidewalk Repairs, misc. =	6.5 Weeks
• Paving/Striping/Re-opening =	1 Weeks

\*A work week is assumed to be 5 working days per week

Total **Estimated** Duration = 19 Weeks

This estimate of duration is based on preliminary information and **does not** fully account for inclement weather, unforeseen delays, or other significant events that are outside of the City's control.



## Currently Estimated Construction Duration – Huron to North of Huron Street

<u>Major Tasks</u>	<u>Duration</u>
• Water Main Installation (600') =	1.5 Weeks*
• Water Main Testing =	1 Weeks
• Service Connections & Tie-ins =	0.5 Weeks
• Road Construction, Concrete Work, Sidewalk Repairs, misc. =	2 Weeks
• Paving/Striping/Re-opening =	0.5 Weeks

\*A work week is assumed to be 5 working days per week

Total **Estimated** Duration = 6 Weeks

This estimate of duration is based on preliminary information and **does not** fully account for inclement weather, unforeseen delays, or other significant events that are outside of the City's control.



## What Do You Want Us to Know? What Is Important to You?

**We are planning to perform the project starting in sometime in early 2023.**

- Is there anything we missed that we should consider?
- Are there suggested tweaks or revisions you would make to the options?

 | **What Are Your Questions?**

 | 

## Next Steps

- “Walk & Talks” – can be arranged if requested or desired
- Contact Mike with any questions or comments:  
e-mail: [mnearing@a2gov.org](mailto:mnearing@a2gov.org)  
Phone: (734) 794-6410 ext. 43635
- Stay tuned at: [A2gov.org/smainwatermain](https://www.a2gov.org/smainwatermain)



**Thank You!**

**Public Engagement Meeting No. 2 – Planning the Project**  
June 23, 2021

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