

Public Information Meeting

Columbia Street Improvements

February 23, 2022

4:00 – 7:30 PM



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Public Information Meeting

Welcome!

February 23, 2022

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Columbia Street Improvements

Public Information Meeting

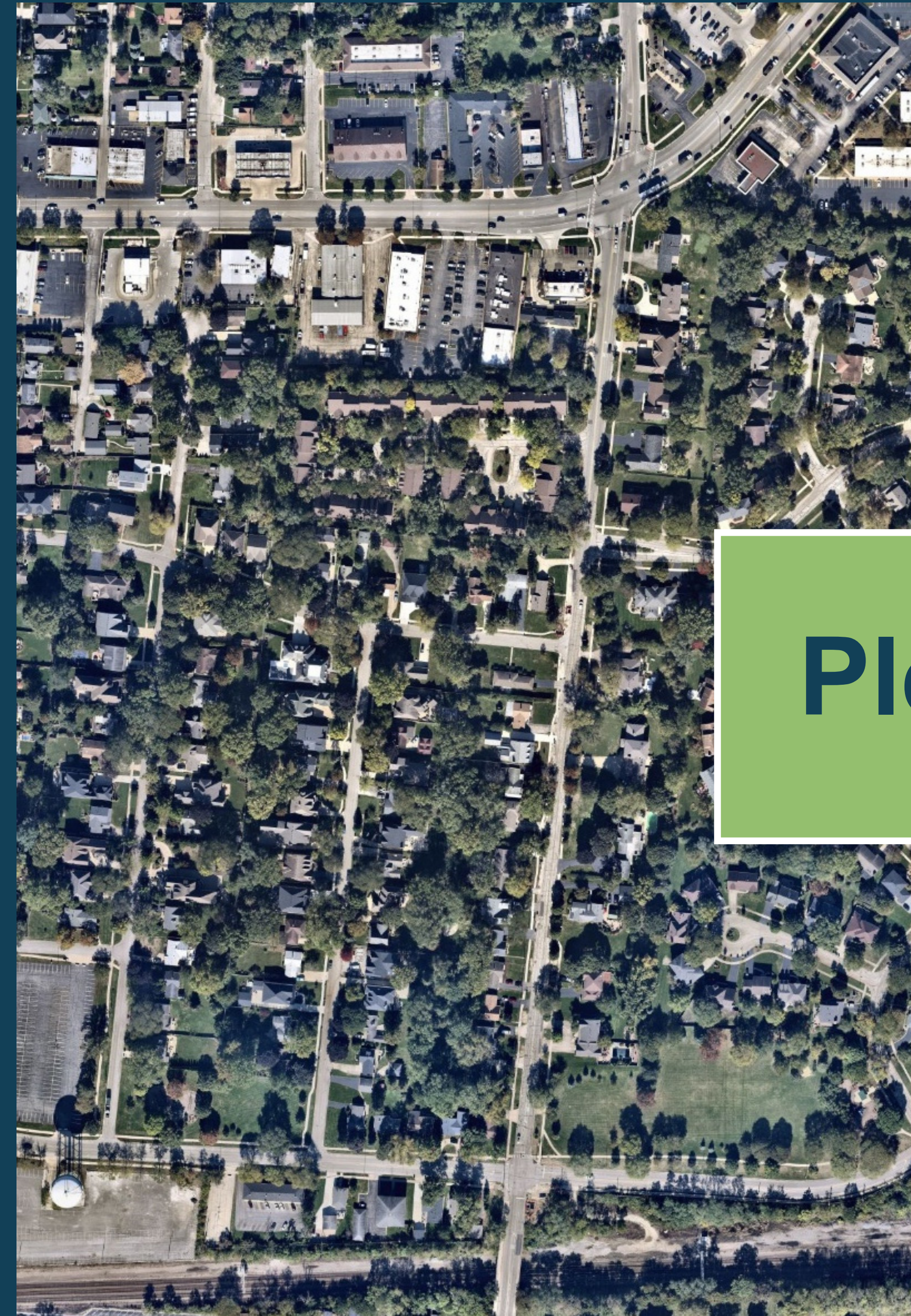
Welcome!

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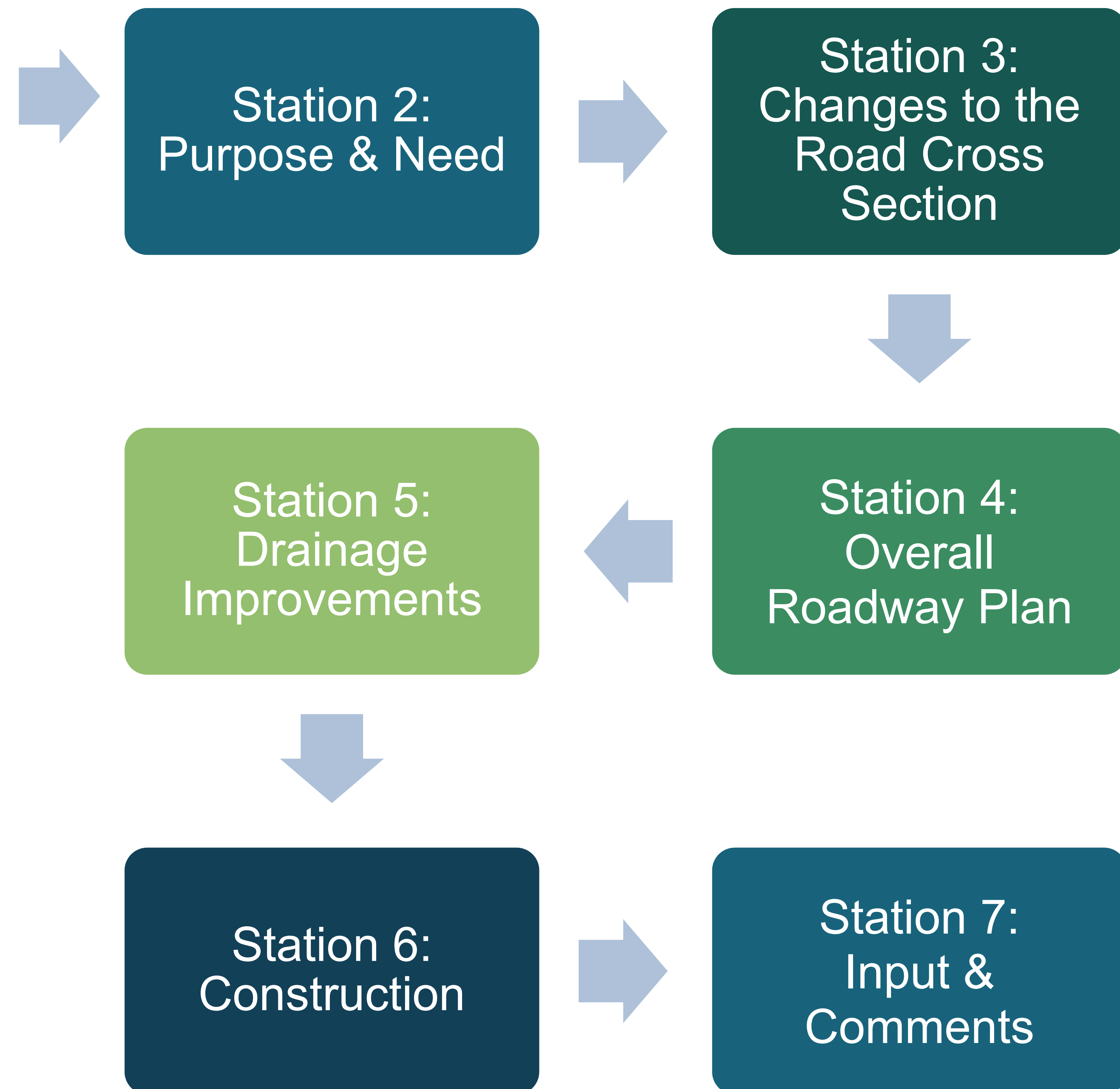
Please Sign In

Columbia Street Improvements

Station 1 - Introduction

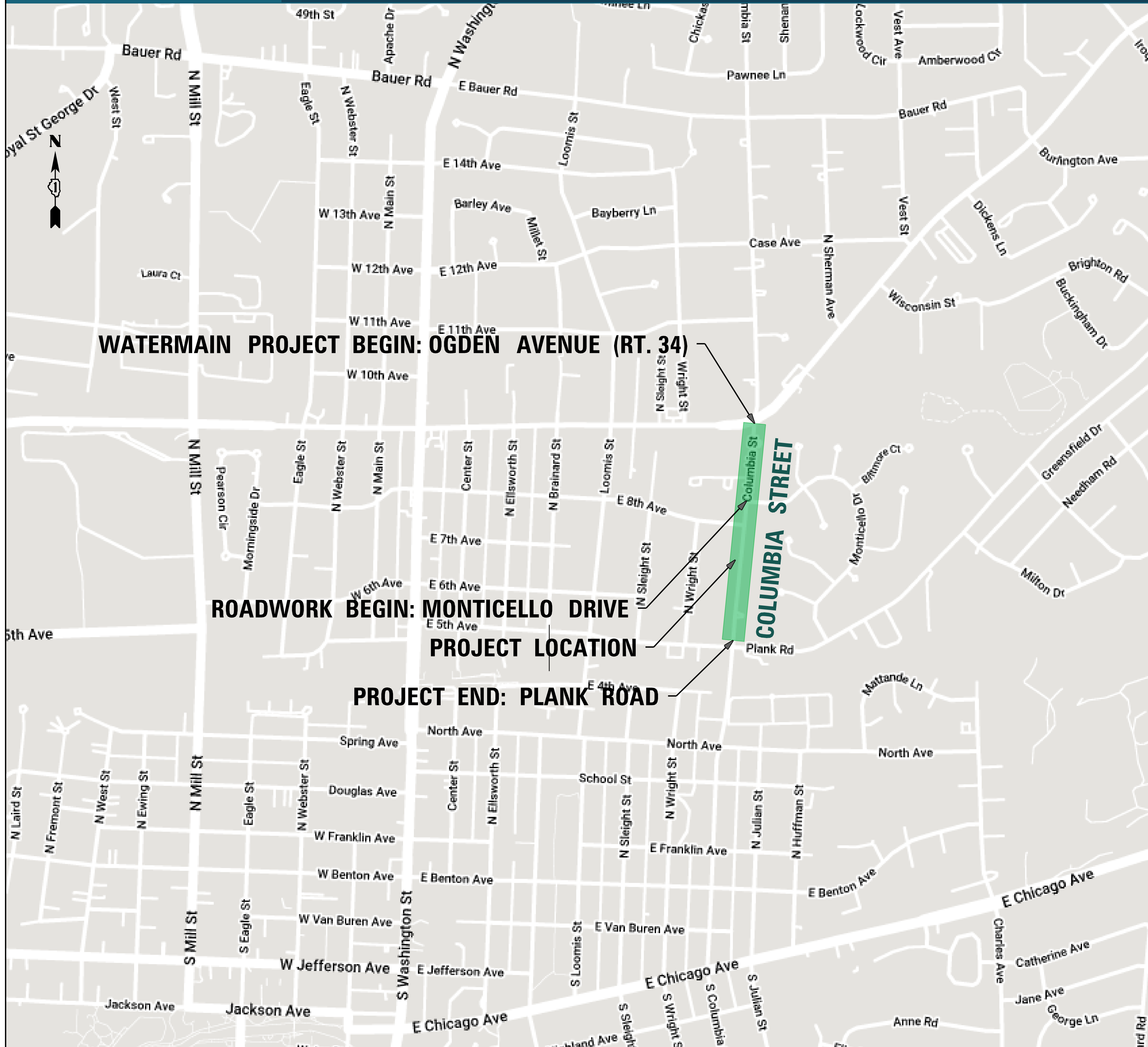
Welcome to the public meeting for the Columbia Street Road Improvement Project. The room is set up with 7 stations to introduce you to the project and explain the proposed changes to Columbia Street. Please see anyone with a project name tag if you have any questions. Comments can be submitted at Station 7.

Thank you for attending!



STATION 2

LOCATION MAP & TIMELINE



Project Timeline



Station 2 – Purpose and Need

Roadway Standards

- This section of Columbia Street is currently more like a road found in a rural setting.
- This rural-type of road does not have curb and gutter and has gravel shoulders.



- A portion of Columbia Street does not currently have adequate roadway lighting.

Lighting

Station 2 – Purpose and Need

Drainage

- The area around 8th Avenue and Columbia Street experiences frequent flooding.
- Flooding usually occurs in short-duration, high-intensity rainfall events.



- Other utilities are in need of replacement or additional capacity:
- Watermain
- Natural Gas
- Electric Ductbank

Utility Replacement

Station 3 – Road Cross Section

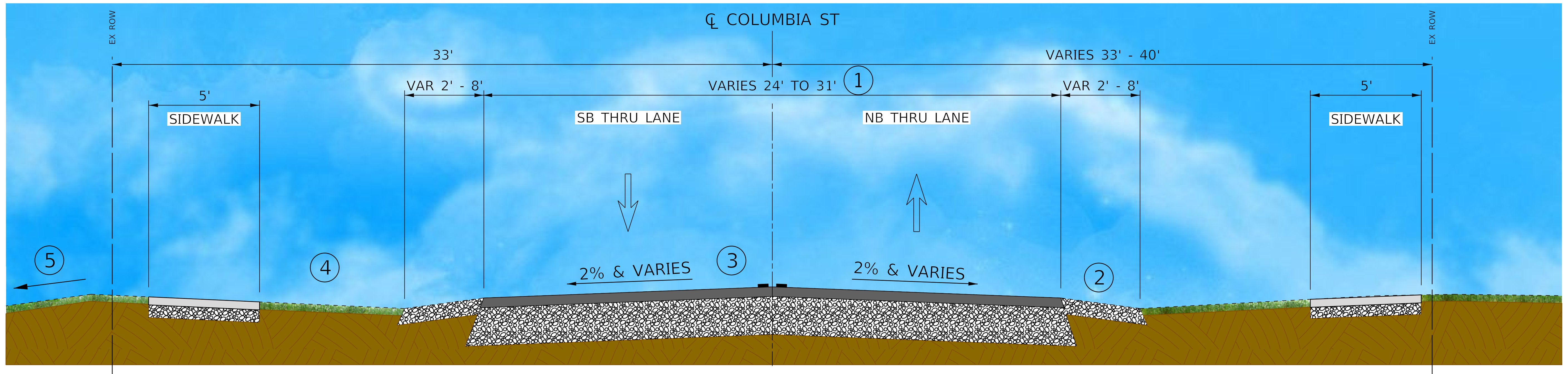
Existing Section

1. The width of pavement is between 24' to 31'
2. Gravel shoulders with no curb & gutter
3. The slope of the road (cross-slope) from the center to the edge varies.
4. In some locations, there is no grass parkway between the shoulder and sidewalk.
5. During heavy rain storms, water will flow across the high point of the road and continue to the west, through residents' yards.

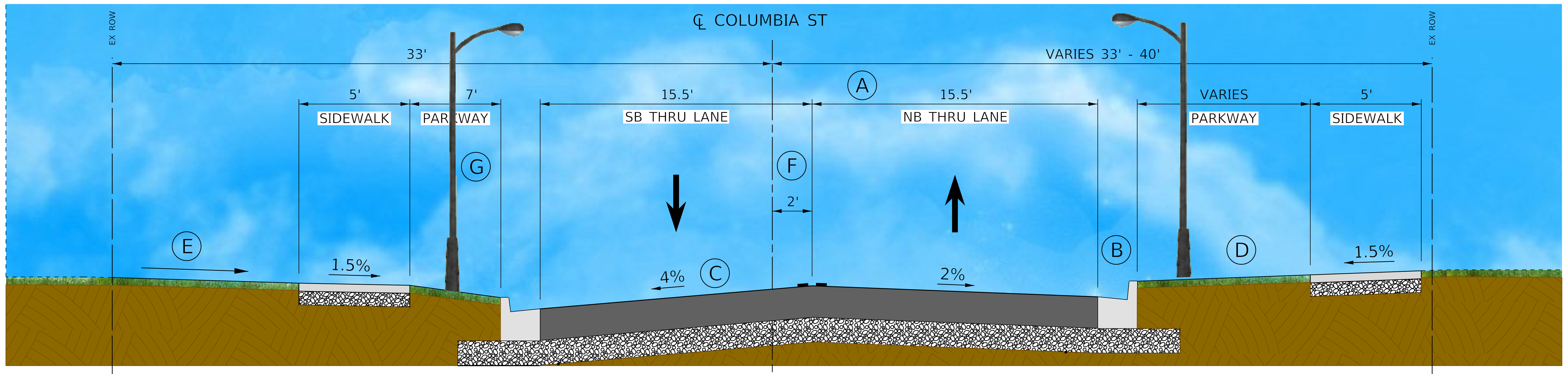
A cross section shows you the road as if you were to cut through the roadway and see from the surface and down. Please refer to the Section exhibit and the descriptions on this board.

Proposed Section

- A. The road is consistently 31' wide
- B. Curb & gutter added
- C. The cross-slope of the road is 2% in the east lane and 4% in the west lane.
- D. Sidewalk rebuilt on both sides of the road, grass parkway between the curb & sidewalk.
- E. The right-of-way is graded so that rain will flow towards the road, not adjacent yards.
- F. The center of the pavement shifts to the east by 2 feet.
- G. Streetlights added



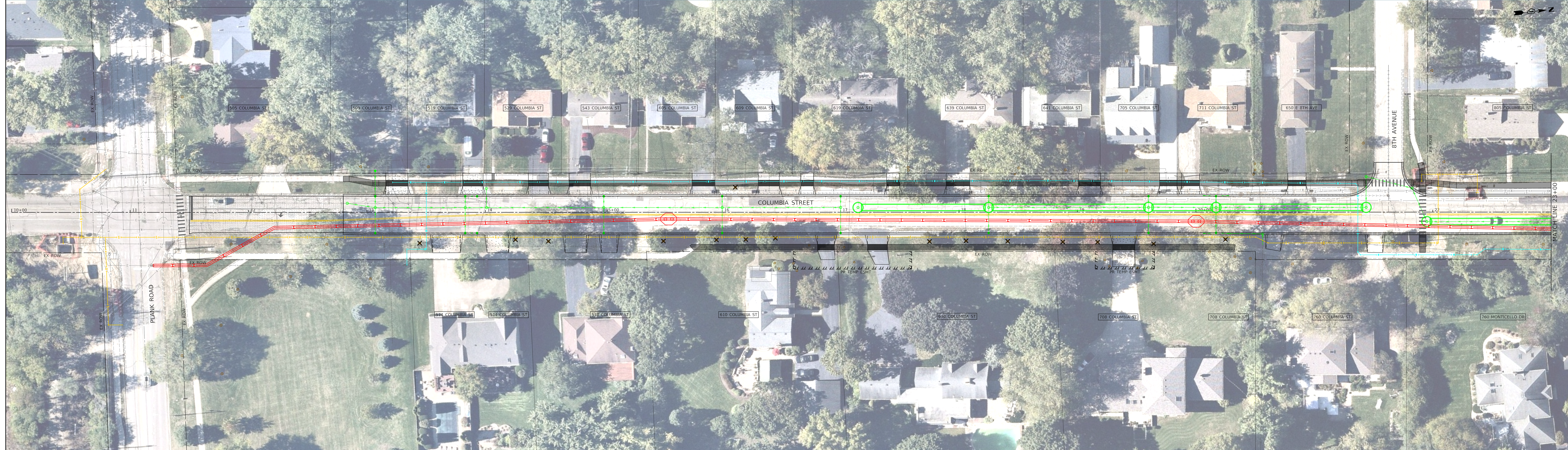
EXISTING TYPICAL SECTION



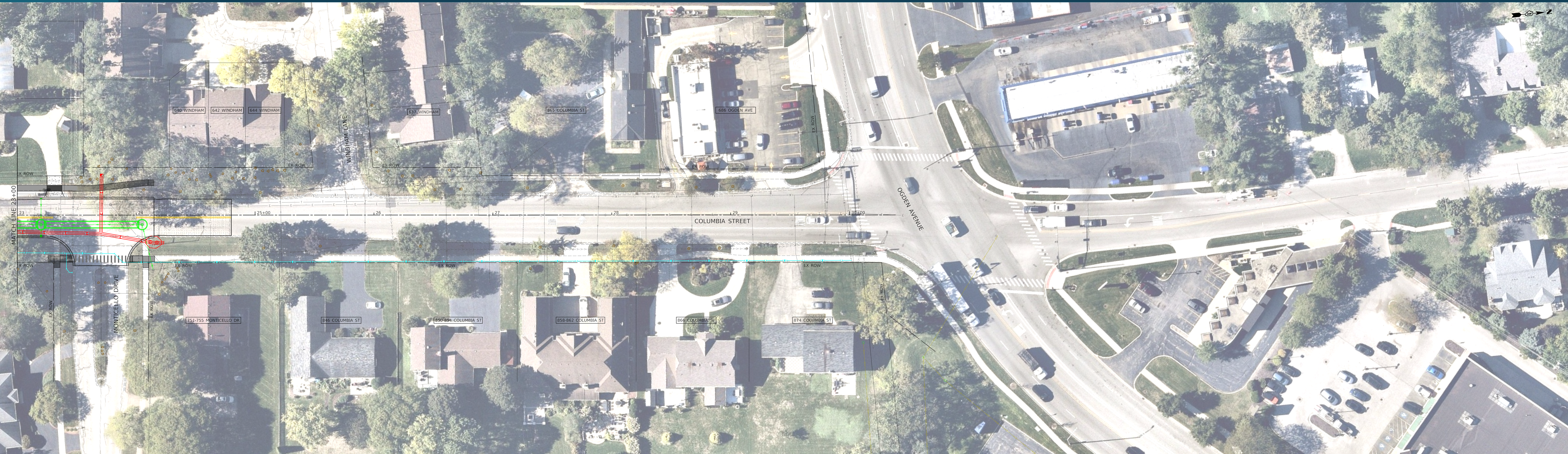
PROPOSED TYPICAL SECTION

STATION 4

PROPOSED ROADWAY AND DRAINAGE PLAN



MATCH LINE 23+00



Station 5 – Drainage Improvements

- A drainage study performed in 2016 found that flooding in the low area west of Columbia Street occurs when rain falls at fast rate (intense!).
- Flood boundaries were approximated for rain events with various probabilities of occurrence. The light blue line represents a 100% chance of occurring each year.
- The study recommended improving how water could leave the low area (further to the west) and protecting water entry points of homes affected.
- The Columbia Street project is upstream and east of this area. The drainage study recommendations cannot be implemented as a part of this project.



*From Wills, Burke, Kelsey Associates, Ltd. Study d. February 12, 2016

Station 5 – Drainage Improvements



Adding curb and gutter to Columbia Street and grading the parkway to drain to the road will provide the most noticeable drainage improvements.



The proposed project will also include underground detention under the roadway to store some rainfall before it flows to the low point on 8th Avenue.



600' of a 5' wide by 3' tall box culvert can fit within the limits of the roadway among the other existing utilities.

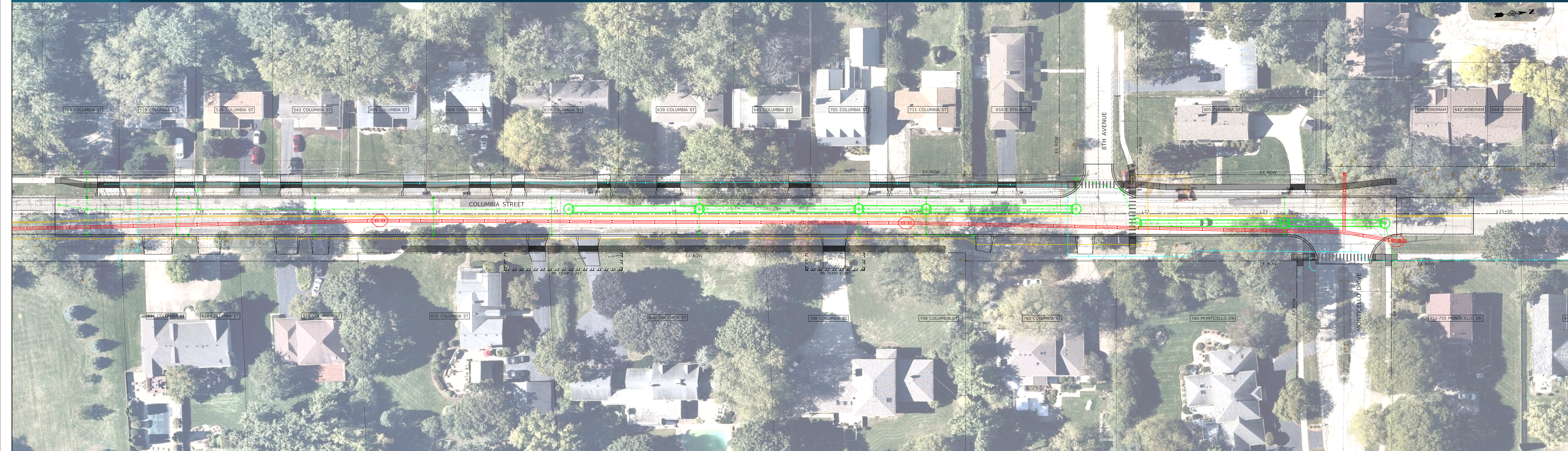


It is expected that flooding will be greatly reduced for rain events of 1.5" or less. It is anticipated that flooding will be reduced for larger rain events but will still exist.



Example of
Box Culvert
Detention





STATION 6

DETOUR MAP



Station 7 – Your Role

We want your input!

Written questions, comments, and requests for more information about this project may be submitted in the drop-box during today's public meeting, mailed/dropped off at the address below, or emailed to the Project Manager (maryc@thomas-engineering.com). All comments must be submitted no later than March 31, 2022.

City of Naperville
Transportation, Engineering, and
Development Business Group
ATTN: Raymund Fano, P.E., CFM
400 S. Eagle Street
Naperville, IL 60540



Input forms also found on the City's
project website:
www.Naperville.il.us/ColumbiaStreet