

**Ann Arbor
Snyder/Edgewood Avenues Stormwater Improvement Project
Public Meeting Summary
November 29, 2018 – 7:00 pm to 8:30 pm**



1. Participant List – See Attachment #1

2. Introductions

- a. Michael Nearing, Ann Arbor Project Manager, introduced the project team:
 - i. Andrew Kilpatrick, Northwest Consultants, is responsible for civil engineering work and project oversight.
 - ii. Jay Zawacki, CDM Smith, is responsible for the hydraulic modeling analysis.
 - iii. Teresa Newman, Project Innovations, is responsible for public engagement.

3. Background

- a. Based on previous stormwater analysis projects, this area was identified as a highly flood prone area.
- b. Previous resident surveys provided information about flooding.
- c. The City initiated this project to propose improvements and address issues and concerns.
- d. The area’s stormwater system was originally designed for a 5-year storm.
- e. The City now customarily designs for a 10-year, 12-hour rain event. Essentially, this means that 3” of rain could fall in one hour in 10% of storms in any given year. It isn’t unheard of to have more than one storm of this magnitude in one year.
- f. The stormwater tributary area was reviewed to show the drainage area, the storm sewer routes that head out to Allens Creek:



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- g. Question: Does the Pioneer High School detention basin take in Snyder/Edgewood stormwater flow? Answer: It captures the first 2/10" of rain.

4. Project Scope

- a. Public engagement to understand flooding concerns in the area.
- b. Quantify issues and identify potential resolution for 10-year storms.
- c. Prepare 30% plans.

5. Public Engagement Activities

- a. Communication to residents include:
 - i. Project Announcement Letters
 - ii. Neighborhood Walkthrough Letter
 - iii. Neighborhood Walkthrough and Survey
 - iv. Meeting Announcement Postcards
 - v. Email Updates
 - vi. City Webpage: www.a2gov.org/sesip
- b. Public Meetings
 - i. Meeting #1 – Project Overview and Survey Results – 11/29/18
 - ii. Meeting #2 – Review Modeling Alternatives – 1/30/18
 - iii. Meeting #3 – Review Basis of Design
 - iv. Meeting #4 – Review 30% Design Model Analysis
- c. Neighborhood Walkthrough and Survey
 - i. Invitation sent to residents in the flooding prone area to schedule meeting to discuss concerns.
 - 1. 2 residents scheduled meetings to discuss concerns.
 - ii. Neighborhood Door-to-Door canvas conducted on Nov. 6.
 - 1. 3 residents were interviewed at their homes.
 - 2. 19 surveys left in mailboxes; 4 responses were received by mail.
- d. Survey Highlights – 9 surveys completed
 - i. All 9 respondents experienced flooding on or near their property.
 - ii. 3 respondents experienced damage inside their homes from flooding.
 - iii. 2 respondents reported basement leaking during storms.
 - iv. Greatest concerns during heavy rains:
 - 1. Street flooding
 - 2. Property flooding and damage
 - v. Concerns regarding construction:
 - 1. Coordinate with other projects to minimize impact.

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- vi. Concerns regarding the project:
 - 1. Alleviate flooding.

6. Project Overview

- a. Identify and Quantify Flooding Issues
 - i. Studies have identified that this area is prone to flooding. This project will identify and quantify flooding for the subsequent final design project to immediately follow this project.
 - ii. Guiding Standards:
 - 1. Ann Arbor Green Streets Policy
 - 2. Washtenaw County Water Resources Commission
- b. Identify and Quantify Potential Improvements
 - i. Study/provide alternatives to the stormwater issues.
 - ii. Look at upstream and downstream impacts.
 - iii. Not all flooding can be eliminated, it is virtually impossible to store/process the extremely large amounts of water generated by larger rain events.
 - iv. Not beholden to any particular option. A variety of solutions will be reviewed.
 - v. Guiding Standards:
 - 1. Ann Arbor Green Streets Policy
 - 2. Washtenaw County Water Resources Commission
- c. Prepare 30% Plans
 - i. Prepare 30% plans for cost estimating and set up for construction to ensure feasibility of proposed design solution. Activities include:
 - 1. Finalizing the stormwater improvement plan.
 - 2. Field survey and measurements.
 - 3. Prepare plans and specifications.
 - ii. 30% is the perfect point in the process to understand impacts and determine achievable, implementable solutions.
 - iii. Guiding Standards:
 - 1. American Assoc. of State Highway Transportation Officials Policies
 - 2. Ann Arbor Green Streets Policy
 - 3. Ann Arbor Non-Motorized Plan
 - 4. Americans with Disabilities Act
 - 5. Washtenaw County Water Resources Commission
- d. Questions/Answers and Comments:
 - i. Q: What is Green Streets Policy? A: The City of Ann Arbor developed a Policy for future roadway improvement projects by

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creating a set of sustainability guidelines that direct the handling of rainwater by infiltration methods to the extent possible.
Example: Pipes built under roadways and over sandy soil captures water to infiltrate back into the aquifer.

- ii. Q: Are water quality issues being addressed? A: Yes, water quality measures are being reviewed and addressed in the design alternative element of the project.
- iii. Q: A project was planned to build a water pipe in Prescott Ave. Can excavation occur simultaneously? A: That raw water line was part of the Stadium Blvd. Project. Prescott is the best route for the new line because Edgewood isn't wide enough for stormwater and water line construction.
- iv. Q: If these projects were done together could they be coordinated? A: Yes.
- v. Q: Which project would begin first? A: The final phase of the Stadium Blvd. project is not yet in the Capital Improvement Plan (CIP). This stormwater improvement project is in the CIP and would begin in the next 1-2 years.
- vi. Q: Which meeting will be laying out the alternatives? A: Meetings 2 and 3 will present a series of high to low impact options. Cost estimates will be presented for each alternative.
- vii. Comment: Events happen quickly and recede quickly. It isn't the long events that cause the problem, in 2012 the intersection became a storage basin and surging water was a big issue.
 - 1. Jay explained that they will look at variations from 15 minutes to back-to-back events. He added that the event observations do match up to the models very well.
 - 2. Mike explained that it is common that the intense, short duration storms overwhelm the storm sewers.

7. Small Group Discussion Results

- a. Two groups commented on the following questions:
 - i. Are you in support of the project approach?
 - 1. Why aren't you designing for 100-year storms?
 - 2. Why not outline 10-year and 100-year alternatives and let the City decide how to proceed?
 - 3. Yes. Fix the flooding, we will deal with the impacts!
 - 4. Yes, is the project funded?
 - ii. What potential construction impacts do you foresee?
 - 1. If a larger stormwater pipe is built across Stadium will it need to be torn up again to build the raw water line?

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2. There is significant vehicular traffic on Edgewood Ave. during morning and afternoon related to the school.
- iii. What other concerns or feedback should be considered?
 1. Involve Jerry Hancock in the project, he is very knowledgeable about the stormwater system.
 2. It was previously pointed out that because there are only 7 houses that are significantly impacted that they should just be purchased by the City? Is that still an option?
 3. What is the actual lowest point in the area and how much flooding can be tolerated?
 4. Can detention basins be built under parking lots and green spaces? Consider Snyder/Edgewood intersection, Franklin/Snyder intersection, Pioneer High School parking lot, U of M pond, Golf and Outing.
 5. Reference NOAA rainfall data.
 6. Maintenance of storm catch basins may be causing some of the problem.
- iv. What other important project issues do we need to address in the future?
 1. Include water quality improvements in the project.

8. Proposed Timeline of Activities

- a. January 30, 2019 – Meeting to review Model Updates and Alternatives
- b. February 2019 – Meeting to review Basis of Design Report
- c. March 2019 – Meeting to review 30% Design Model Analysis
- d. June 2019 – 30% Plan Submitted
- e. July 2019 – 30% Plan Finalized
- f. Option for webinar meeting - the group was asked if they would be interested in participating in an online meeting versus meeting in person. The overall feedback was that in person meetings were more productive.

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ATTACHMENT #1

**Snyder/Edgewood Avenues Area Stormwater Improvement Project
Public Meeting #1 – Pioneer High School Cafeteria Annex
November 29, 2018**

NAME	HOME ADDRESS	EMAIL ADDRESS	AFFILIATION OR ORGANIZATION	PHONE (OPTIONAL)
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