McKenna Blvd./Park Edge-Park Ridge Flood Mitigation

BOARD OF PUBLIC WORKS - APRIL 17, 2019

Overview

- ► Flash Flooding Background
- Proposed Public Works Project
 - Project Location and Features
 - Layout
 - ▶ Construction Schedule



Background Information

FLASH FLOODING



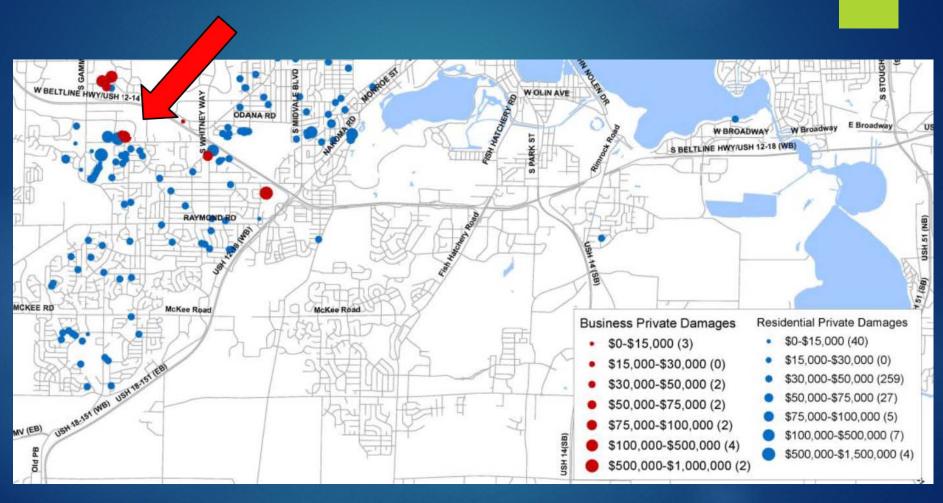
Rainfall in Elver Park Watershed

- ▶ July 21, 2016 2.75″ in 2 hrs
 - ▶ 10-25 year event
- ▶ July 10, 2017 4.33" in 4.5 hrs
 - ~50 year event
- ▶ June 16, 2018 4.03" in 2 hrs
 - >100 year event
- August 20, 2018 11.75" in 14 hrs
 - >1000 year event off the defined chart



July 2016 flooding

REPORTED Property Damage in August 2018





COMMON SIGHT – ENTIRE LOWER LEVELS GUTTED





THOUSANDS OF SANDBAGS PLACED BY NATIONAL GUARD

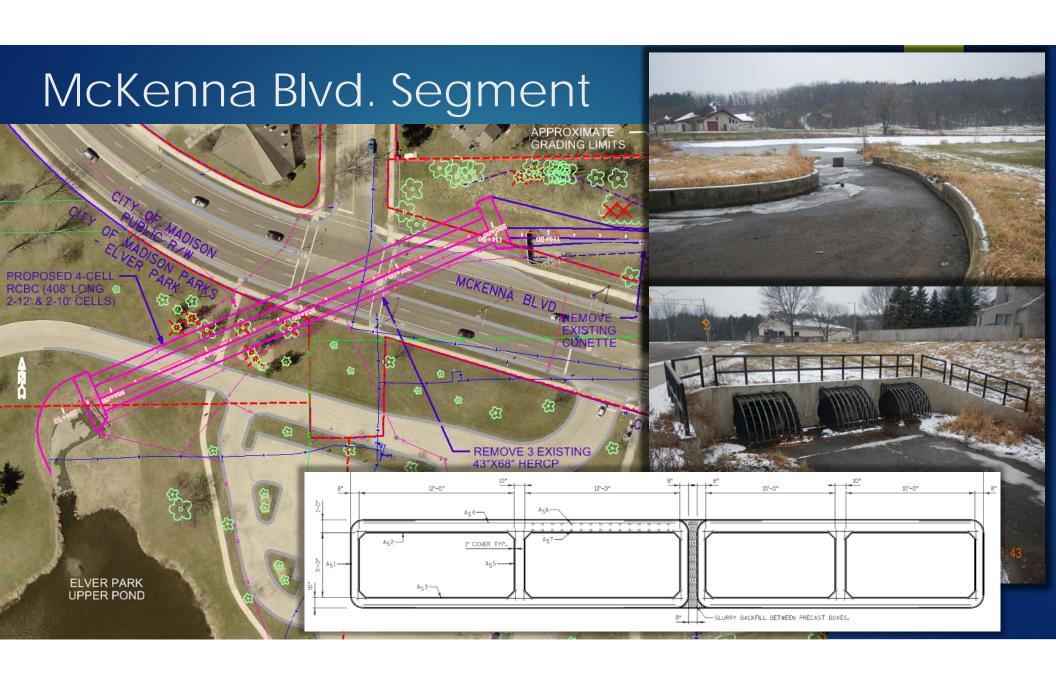
SANDBAGS 3-4FT TALL – SAME HEIGHT AS FLOOD WATERS

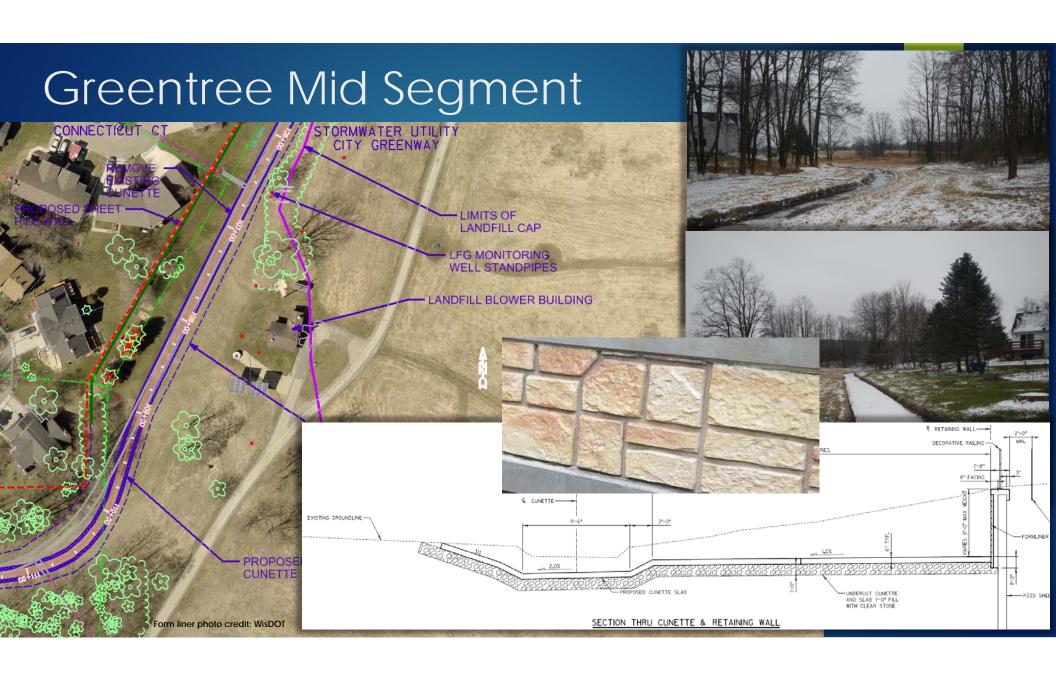
Proposed Public Works Project Design

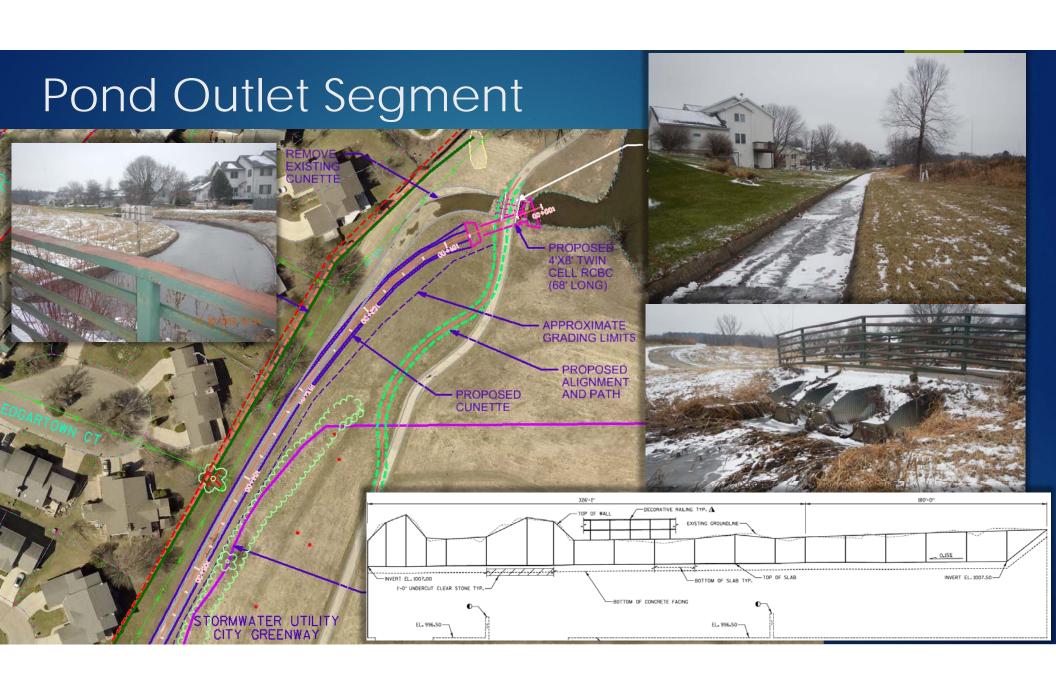
Project Features

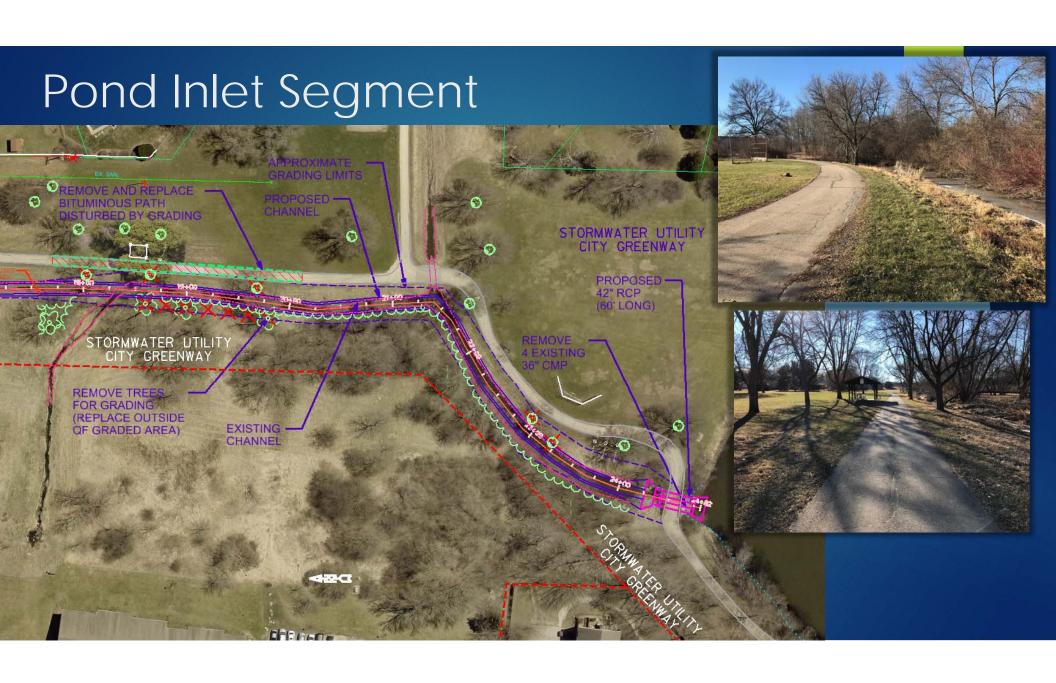
- Large box culverts (2-5'x12' & 2-5'x10') at McKenna Blvd. to carry flood flows
- Replace concrete channel lining
 - Re-align and lower cunette
 - Retaining wall with protective railing
- Remove and replace culverts at Greentree Pond
 - Lower pipe invert elevations by 1.5'
 - Modify bike path in Greentree Landfill
- Lower channel upstream of Greentree Pond
 - Extend greenway modification upstream past Schroeder Road
 - Proposed grading match into existing ground
 - ▶ Remove and replace culverts under Schroeder

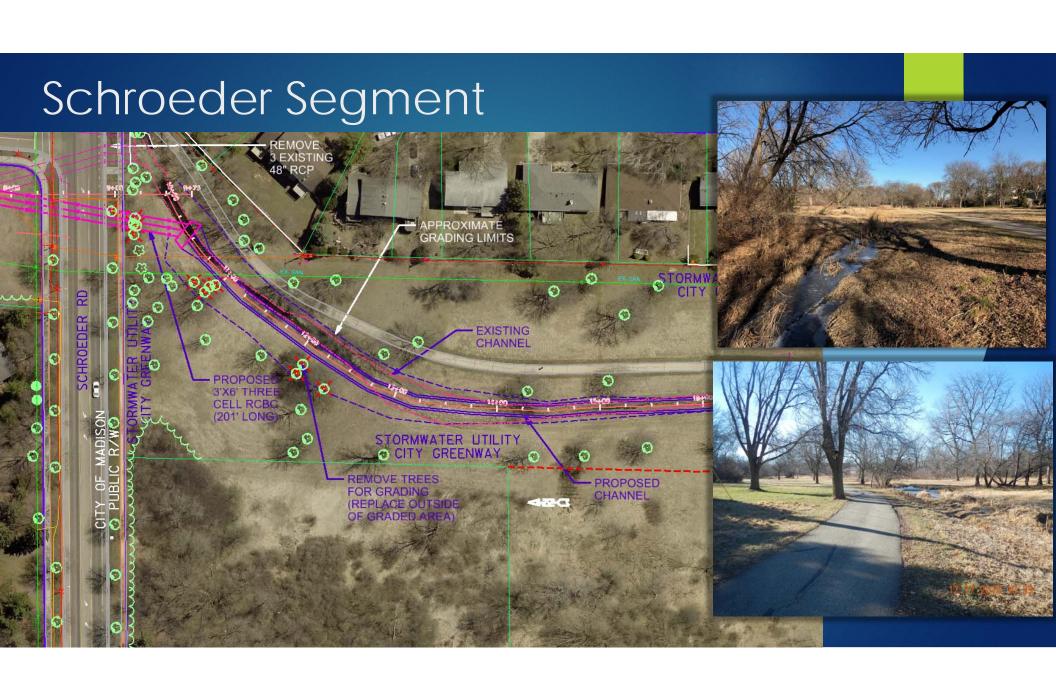


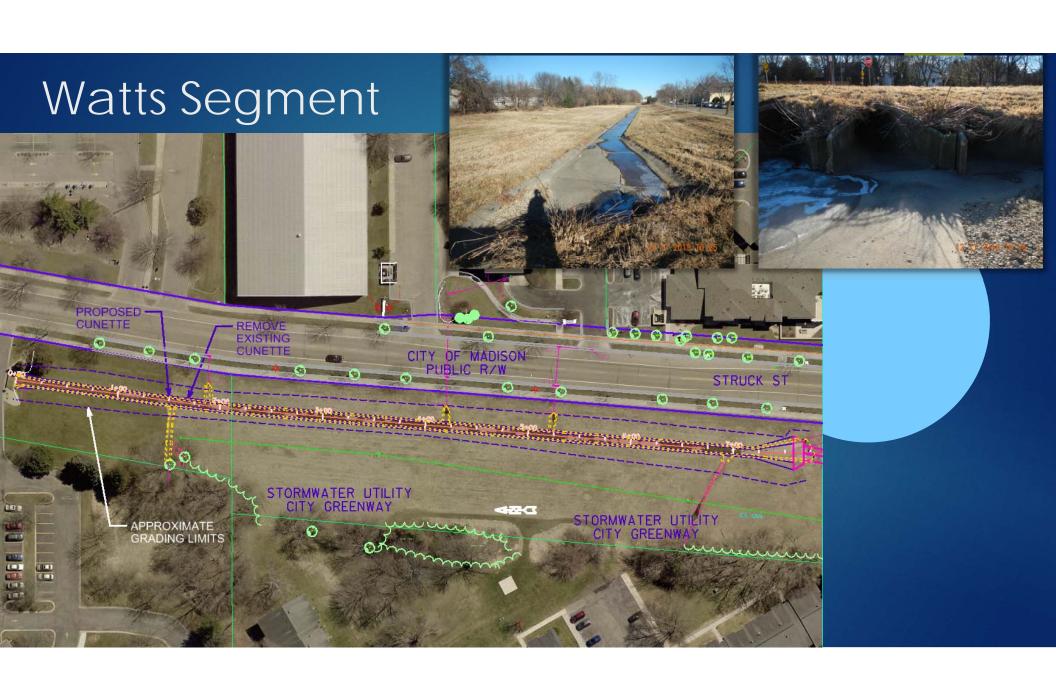












Tentative Construction Schedule

- ▶ Bidding:
 - ► Late Spring -Summer 2019
- Construction:
 - ▶ Late Summer through late Fall 2019
 - Street Construction on Struck and upper reach may be moved to 2020 depending on contractor availability
 - Culvert:
 - 6 stages, alter traffic pattern on McKenna Blvd.
 - ► Maintain Elver Park west parking lot access
 - ► Channel:
 - ▶ Drive sheet pile from south to north
 - ▶ Pour channel concrete from south to north
 - ▶ Temporary flow diversion



QUESTIONS?

