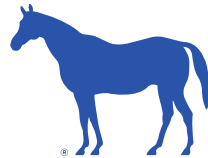


STORMWATER SECTION DRAINAGE & FLOODING PROGRAM UPDATE

ENVIRONMENTAL QUALITY & PUBLIC WORKS COMMITTEE:

August 2024



LEXINGTON

Agenda

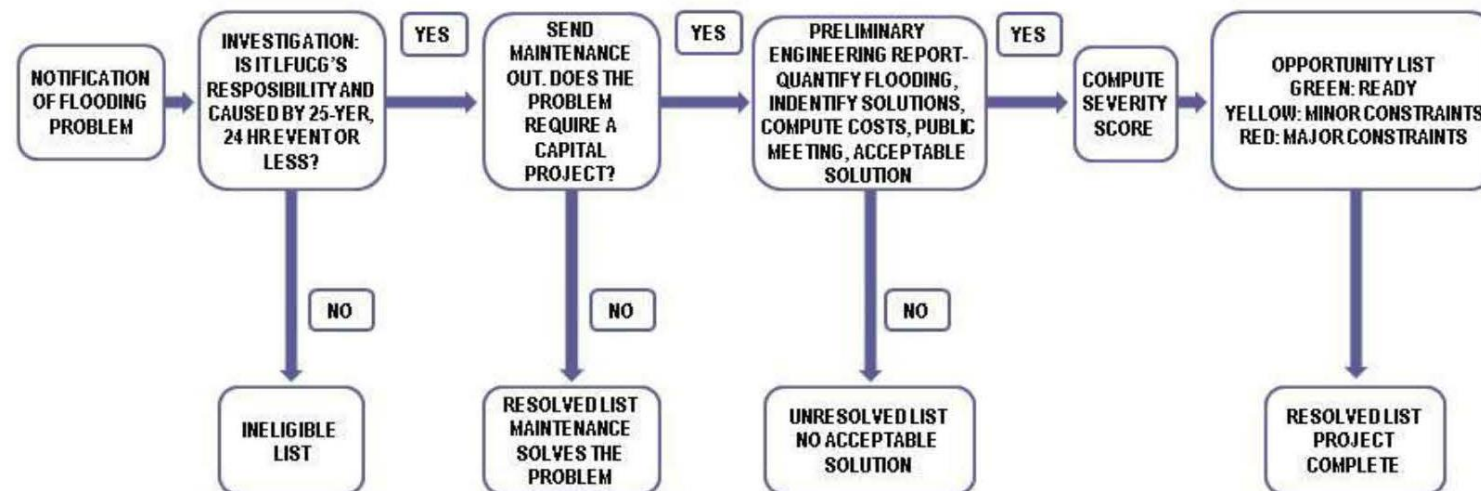
- Stormwater (SW) Priority Project List Overview
- Active Capital Projects - Construction
- Active Capital Projects – Design
- Capital Maintenance Work
- Questions





Stormwater (SW) Priority List

Severity Score Process





Stormwater (SW) Priority List

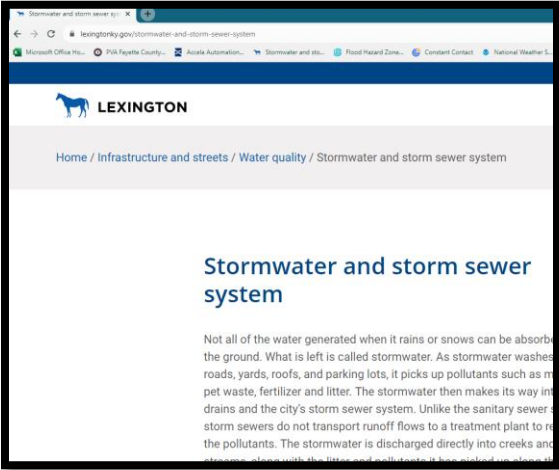
HOW DOES A PROPERTY GET CONSIDERED FOR INCLUSION ON THE STORMWATER PRIORITY LIST?

For storm events less than the 25-year, 24-hour event (5.23 inches) – at least one of the following conditions must be met:

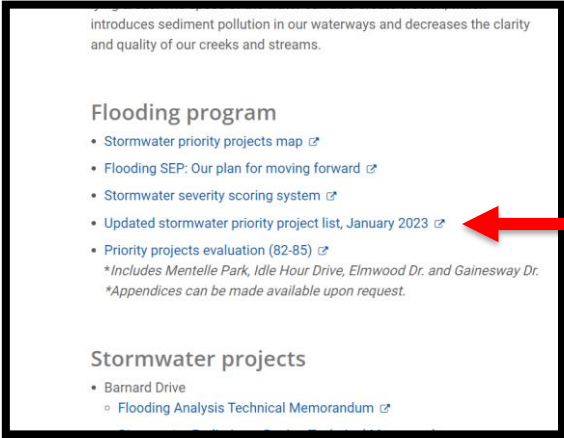
- Structure flooding (surface water entering a structure through an opening such as a door, window, or vent); or
- Street/road flooding with either greater than 1 foot of water in the driving lane or the crown of the road is not visible.

Stormwater (SW) Priority List

LFUCG Stormwater Website



Flooding Program Section



Stormwater Priority Projects Master List- January 2023

Home Flooding or Serious Street Flooding Known or Suspected
(Projects are Prioritized by Efficiency Value)
(Projects Active on the Date of Publication Appear as **Bold Text**)
(Shading Denotes Projects That are Complete, Bid, or Recommended for Removal)

Project Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
N/A WPGL	WR	3	1,506			PROJECT COMPLETED to prevent home flooding. Six homes demolished. Total Cost: \$ 450,000
N/A FEMA Grant #1 (Kilrush)	WR	9	N/A			PROJECT COMPLETED by demolishing 3 homes. FEMA grant used. Total Cost: \$ 293,000
1 Yellowstone	EH	7	195			PROJECT COMPLETED to stop street flooding and dangerous ice formation. Total Cost: \$ 9,000
2 Plainview Drive	WH	7	193			PROJECT COMPLETED to prevent home flooding. 405 Plainview acquired and demolished in 2011. Total Cost: \$ 227,185
3 CR-3, Sandpiper/Kingston/Swigert	CR	6	706			Project recommended for removal from stormwater priority list. Disruption to neighborhood and cost/benefit ratio unreasonable.
4 Smoky Mountain	EH	7	194			PROJECT COMPLETED to prevent street & home flooding. Total Cost: \$ 9,000
4.3 Greyhound Dr.	CR	12	480			Project recommended for removal from stormwater priority list. Property owner resolved flooding by using LFUCG Cooperative Floodproofing Program.
4.5 Perry Street / 200 Block	TB	2	1,234			PROJECT COMPLETED to prevent home flooding and serious street flooding. Total Cost: \$ 40,000
4.7 Sherwood Drive / Robin Road	WH	4	880			PROJECT COMPLETED to prevent home flooding. Total Cost: \$77,000
5 CR-6, Old Paris @ I-75	CR	6	486			PROJECT COMPLETED to prevent home flooding. Two houses razed. Total Cost: \$ 129,000
6 NE-2, Silver Leaf Court	NE	6	1,220			PROJECT COMPLETED- acquisition and demolition of one structure complete Dec 2020
7 WH-43, Coldstream Ct	WH	8	928			PROJECT COMPLETED to protect homes from dangerous erosion. Total Cost: \$ 20,000

Website – [LINK](https://www.lexingtonky.gov/stormwater-and-storm-sewer-system)

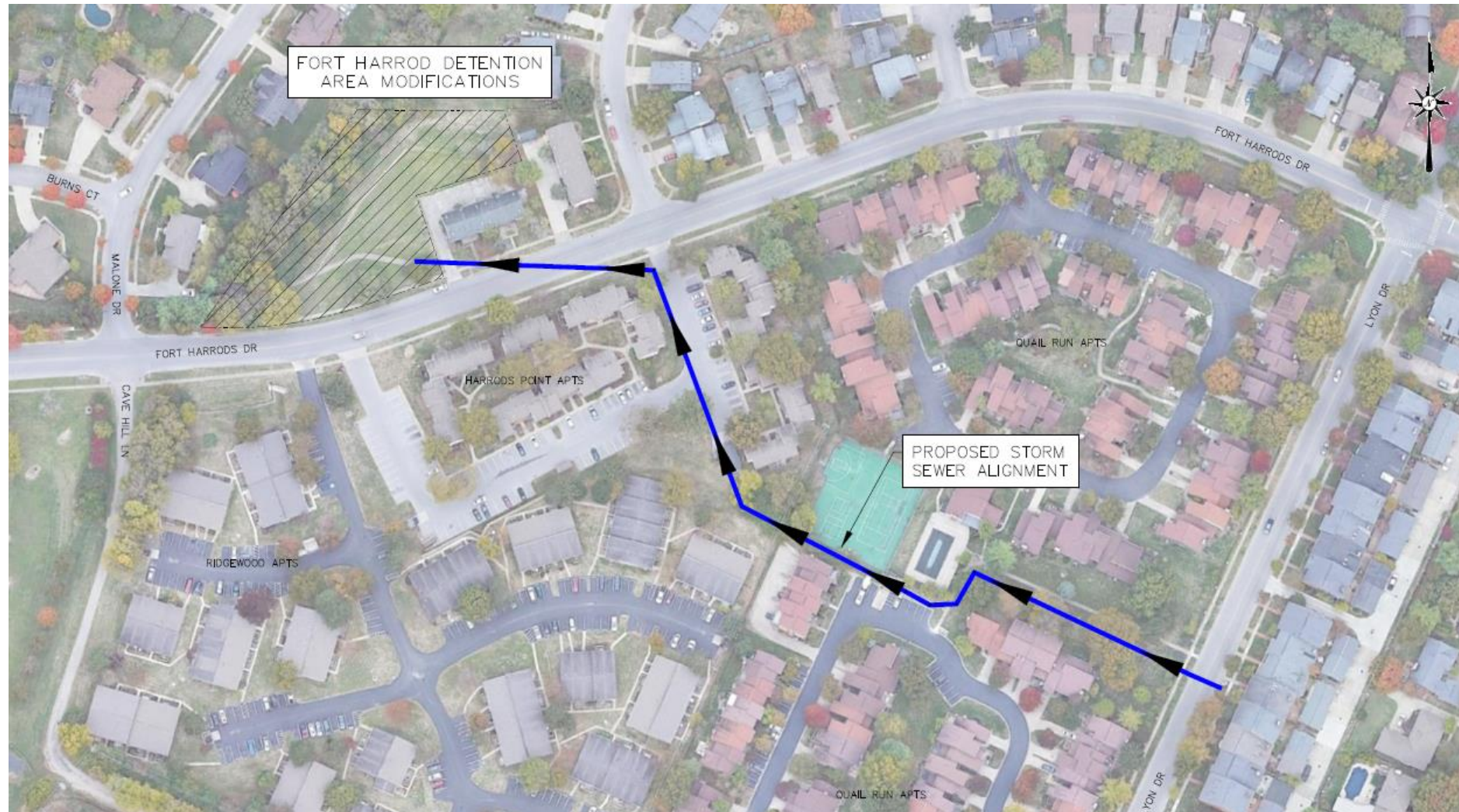
<https://www.lexingtonky.gov/stormwater-and-storm-sewer-system>

Active Capital Projects Construction

2023-2024 Capital Projects

- **LYON DRIVE SW PROJECT (Council District 10)**
 - Project is to mitigate street flooding on Lyon Dr. between Ft. Harrod Dr. and Snaffle Rd.
 - Project is to construct upsized stormsewer and expand an existing detention basin on Ft. Harrods Dr.
 - Low Bid \$1,393,232
 - Construction completion Fall 2024

Lyon Drive SW Project



Lyon Drive Construction Photos

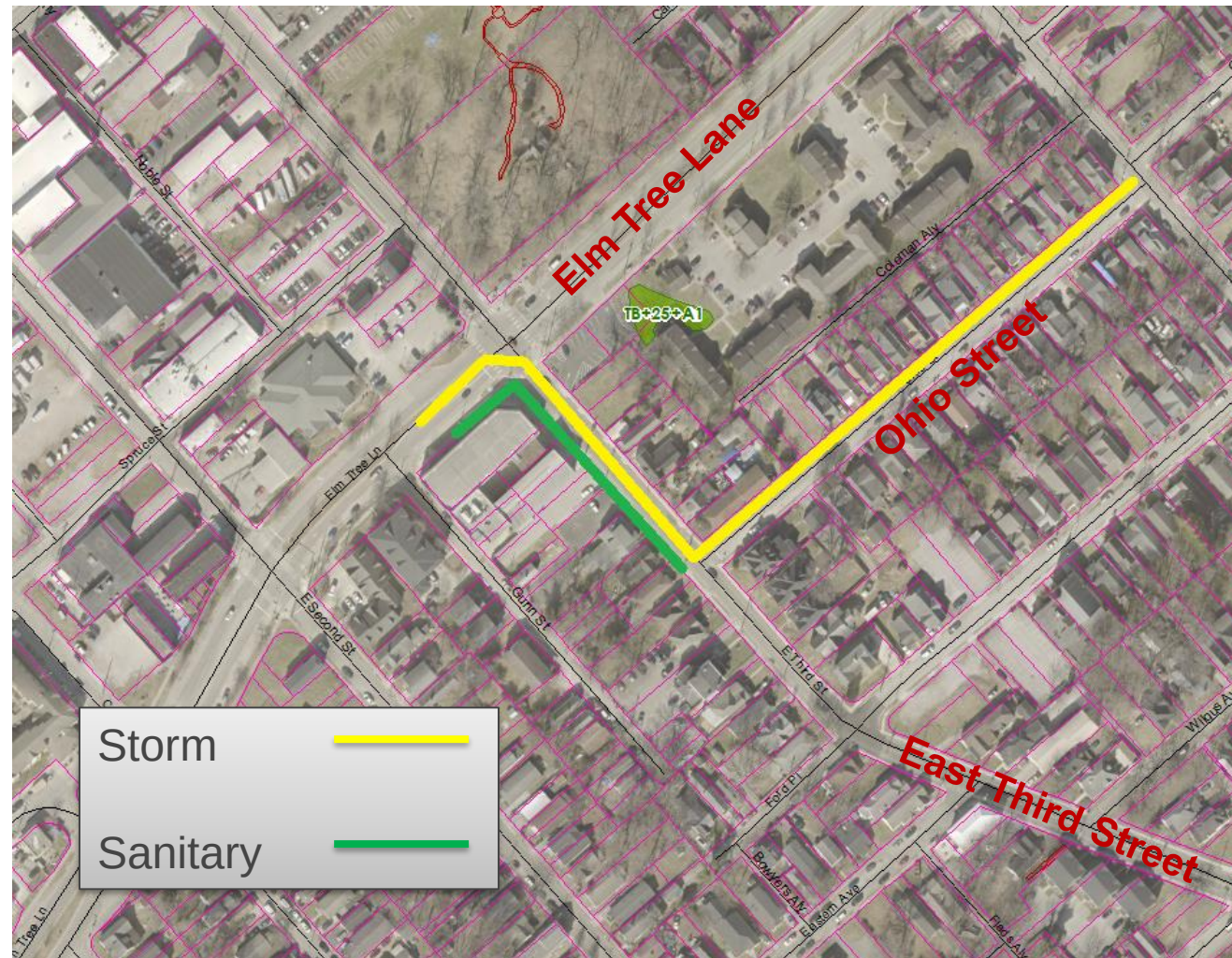


EAST THIRD & OHIO **(Council District 1)**

- Project is to mitigate street flooding at intersection of East Third and Ohio Street.
- Undersized infrastructure.
- Project is to construct upsized stormsewer as well as replace some aging sanitary sewer along Ohio Street.
- Current Project Cost - \$2,179,875.00



East Third & Ohio SW Project



3rd Street at the Lyric Theater





Active Capital Projects Design

Active Capital Projects

JOYLAND AREA STORMWATER PROJECT (Council District 1 & 6)

- **Problem:** Undersized infrastructure and no detention in the project area.
- **Remedy:**
 - Create detention within the project area at Lisa Drive, Cabot Drive, and Shandon Drive.
 - Construct additional stormsewer on Freeman Dr.
- Two Phase Approach
 - Phase 1 - Basins (2023) - \$1,289,489.00
 - Phase 2 – Pipeline Work
 - *Advertised Fall/Winter 2024*
 - *Construction 2025*

Joyland Area SW Project – Phase 2 (Council District 1 & 6)

- *LFUCG-DWQ applied for a FEMA Hazard Mitigation Grant Program (HMGP)*
- *Awarded \$999,598.00*
 - *Federal (90%)- \$899,638.20*
 - *State (4.8%) - \$47,980.70*
 - *Local (5.2%) - **\$51,979.10***
- *Additional Award*
 - *SRMC **Grant** (100% Federal) - \$21,083.00*
- *Period of Performance Deadline*
 - *May 2nd 2026*





**The
stormwater
management
challenge in
Joyland.**

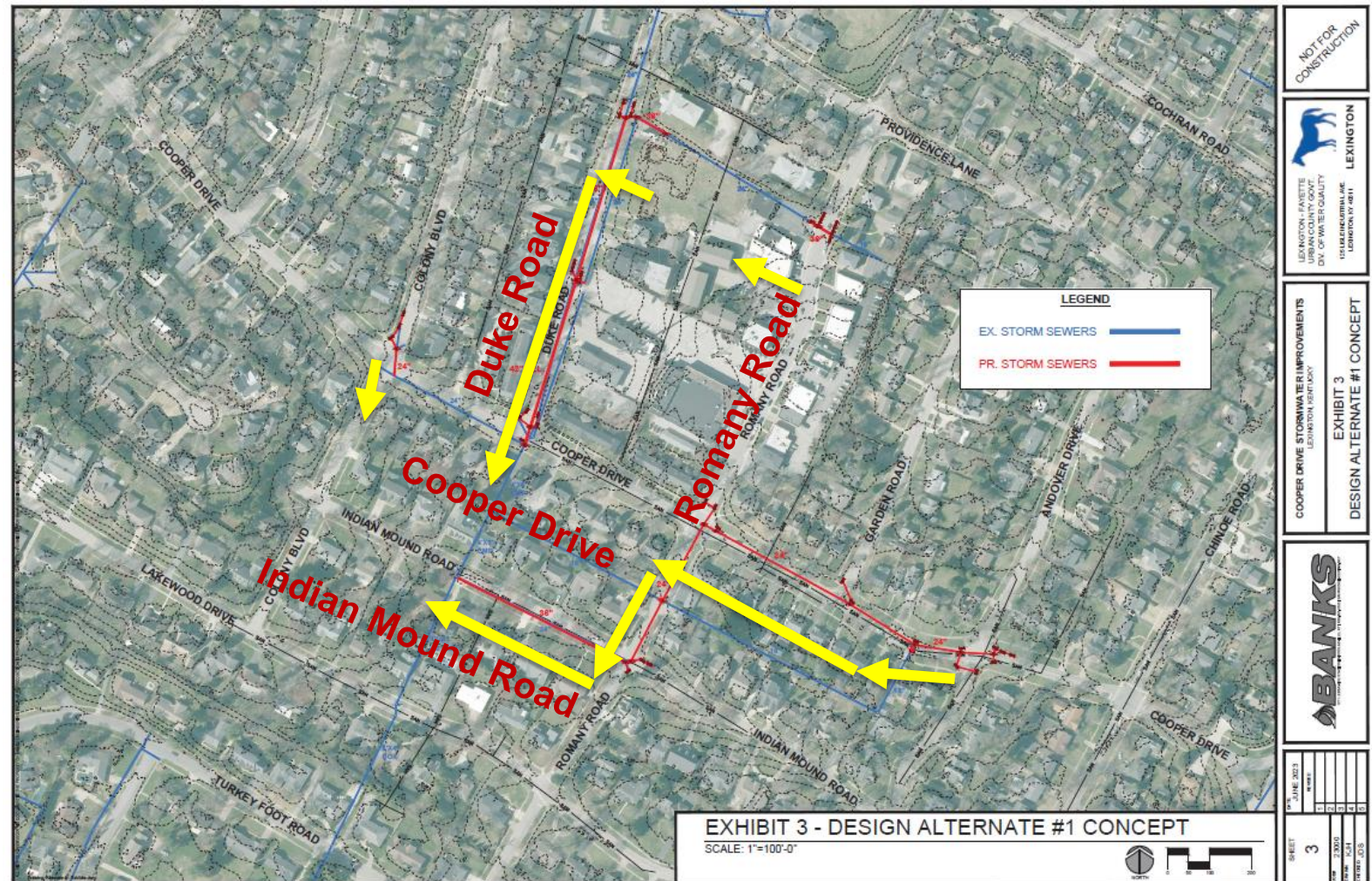
The Cave!





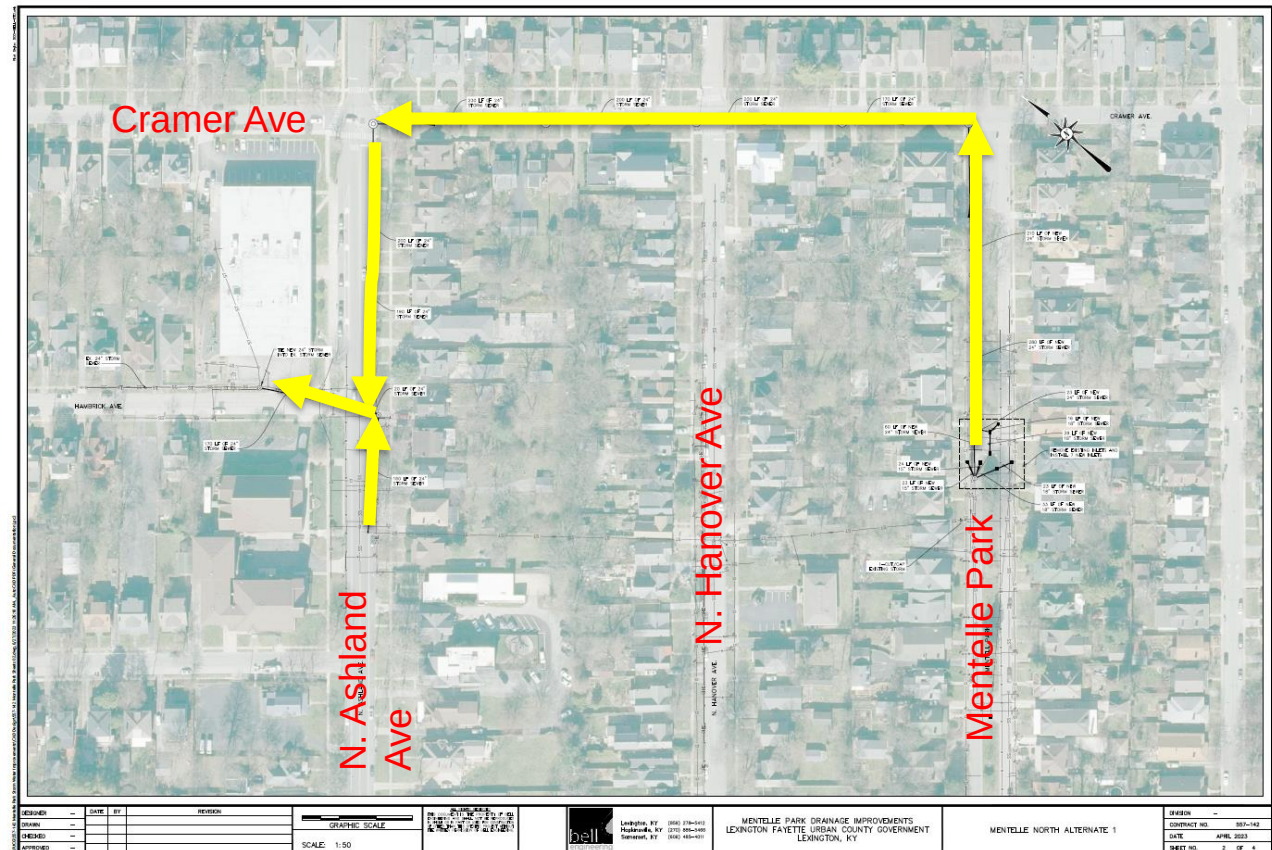
Cooper Drive SW Project (Council District 5)

- Project Plans – 75%
- Construction - 2025
- Cost Estimate - \$2,500,000



Mentelle Park North SW Project

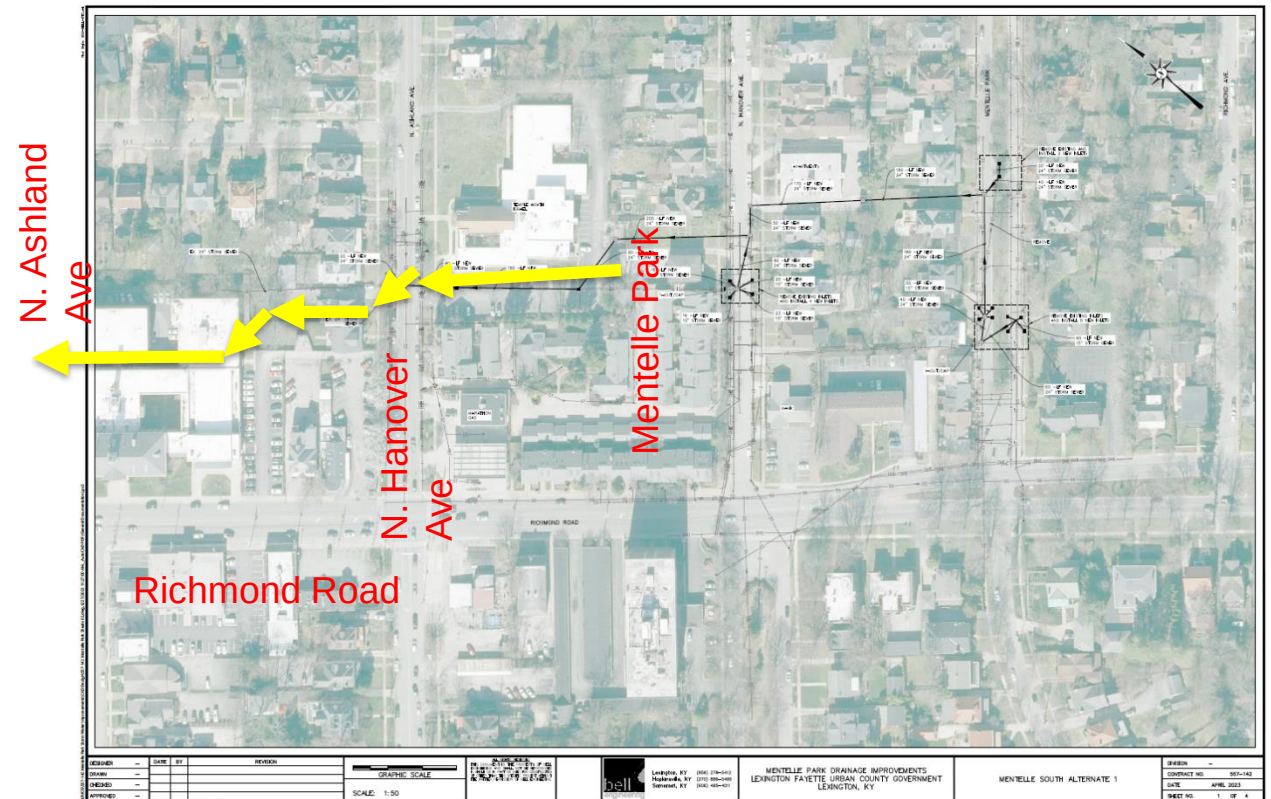
- Stage: Preliminary Engineering Report – complete.
- Work appears to be in the street.
- Cost Estimate - \$1,700,000
- Construction target – 2025





Mentelle Park South SW Project

- **Stage: Preliminary Engineering Report**
- **Work likely outside the street – much heavier lift.**
- **Construction – 2026-2027 (post phase 1)**



Capital Maintenance

- Smaller projects to mitigate nuisance flooding or;
- Repair and cleaning projects intended to restore neglected infrastructure or;
- Larger “Repair” projects, which require engineering design and are openly bid for construction. These would not likely meet the criteria for Priority Capital projects.



Advertise/Award/Construction

Meadowthorpe Phase 2 (CD 11)

Dogwood (CD 9)

Barnard (CD6)

Final Design

Savannah-Guilford (CD 10)

Masterson Station/Great Acres (CD 2)

Lakewood Court (CD 5)

Furlong Drive (CD 11)

Haggard Court (CD 1)

Preliminary Engineering Report

Kenesaw Drive (CD 8)

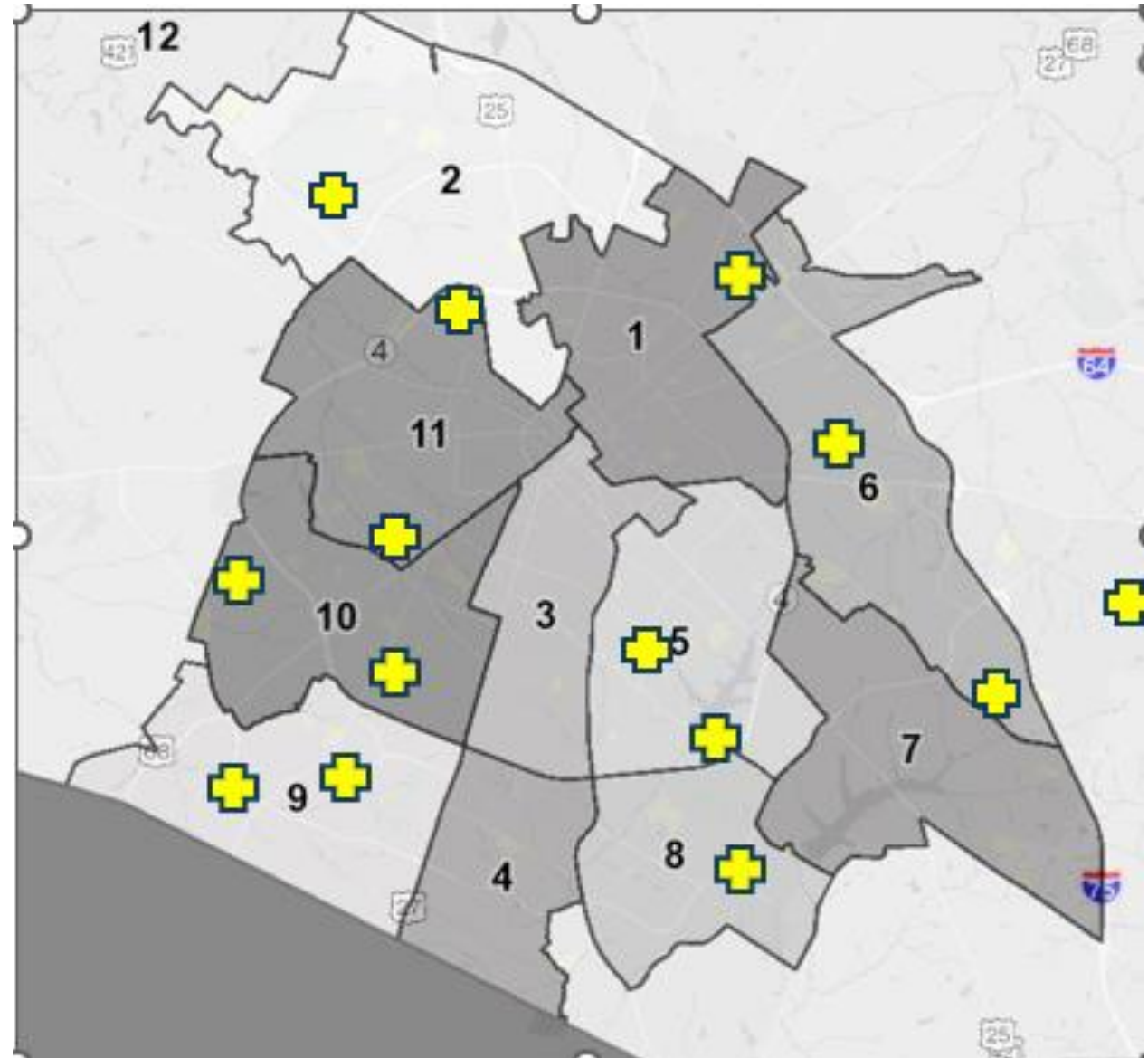
Gayle Drive (CD 6)

Taborlake Drive (CD 5)

Longwood Drive (CD 9)

Southland Drive (CD10)

Walnut Grove (CD 12)



STORMWATER CAPITAL MAINTENANCE



***Edgelawn Detention Basin
(After Big Storms – Help (as-needed))***



***Wyndham Hills & Clays Mills
(Buried Inlet – Impacted Storm Pipe)***



***Race Street
(Broken Storm Pipe and KAW Conflict)***

STORMWATER CAPITAL MAINTENANCE



Curb Inlets full of Trash



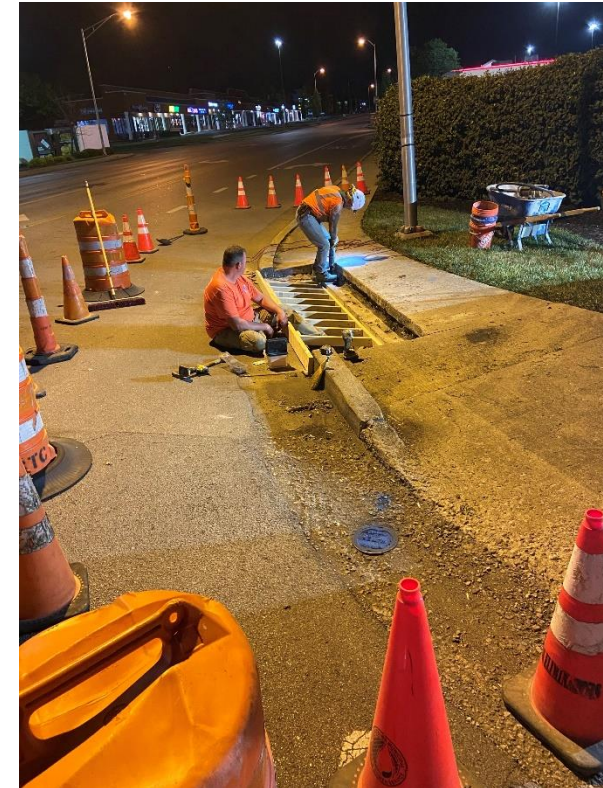
Cleaning Concrete Flumes



Completely Broken Inlets



Coolers blocking Storm Pipes



Working at Night

3 FTEs manage a contractor to clean and repair Stormwater infrastructure with an annual budget of \$1,000,000.

Completed Work Orders

Year	CCTV	Point Repair	Clean/Repair Basin	Totals
2018	16	25	46	87
2019	17	56	69	142
2020	15	21	25	61
2021	30	108	50	218
2022	49	122	61	232
2023	22	156	46	224

Questions?



LEXINGTON