



Carlyle House (5300 Columbia Pike)

Frequent flooding at Columbia Pike near Greenbrier St.

Bailey's Branch

Public Meeting
November 8, 2021

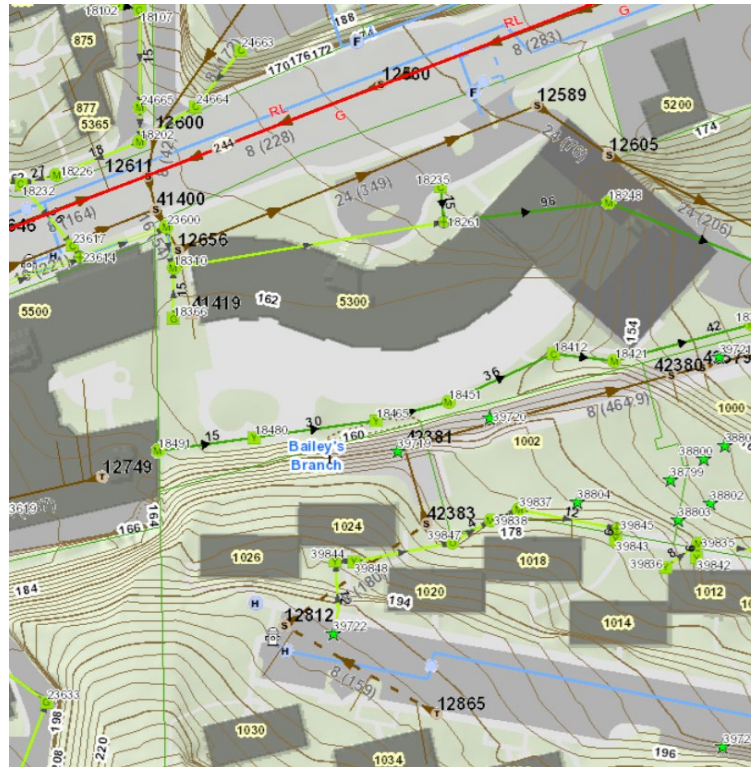
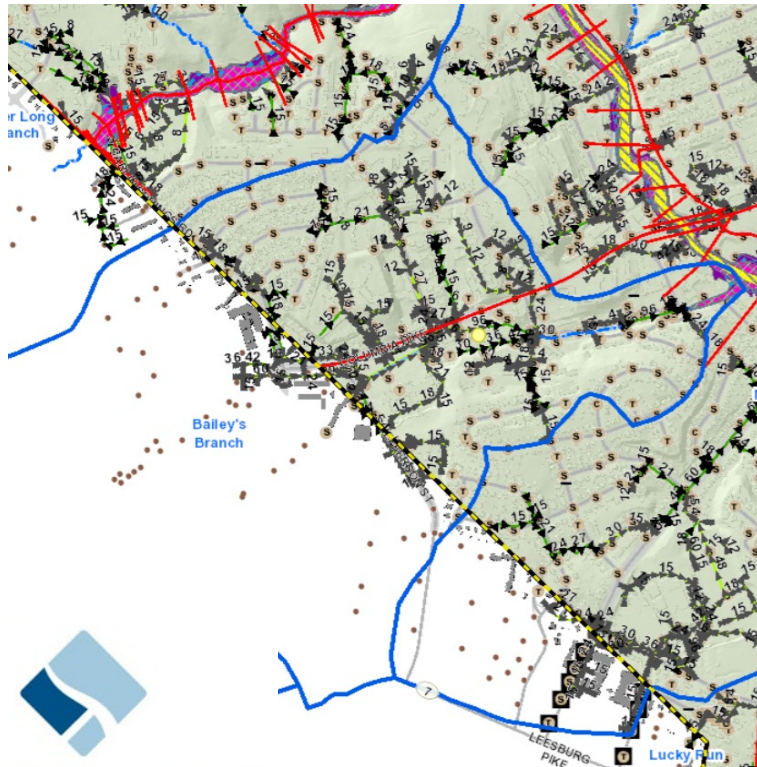


ARLINGTON
VIRGINIA

Flooded multiple times:

July 9, 2021
2020, 2019, 2018

- Issues:
- 90-degree bends in trunk line
- Outfall into Bailey's Branch is submerged
- Capacity limitations in crossings in Columbia Pike
- Multiple transportation projects already constructed – none addressed flooding due to scope and budget constraints
- Large Trunk line (96" underneath building, which was permitted that way years ago. No easements or agreements.) Not cause of flooding, but needs to be relocated.



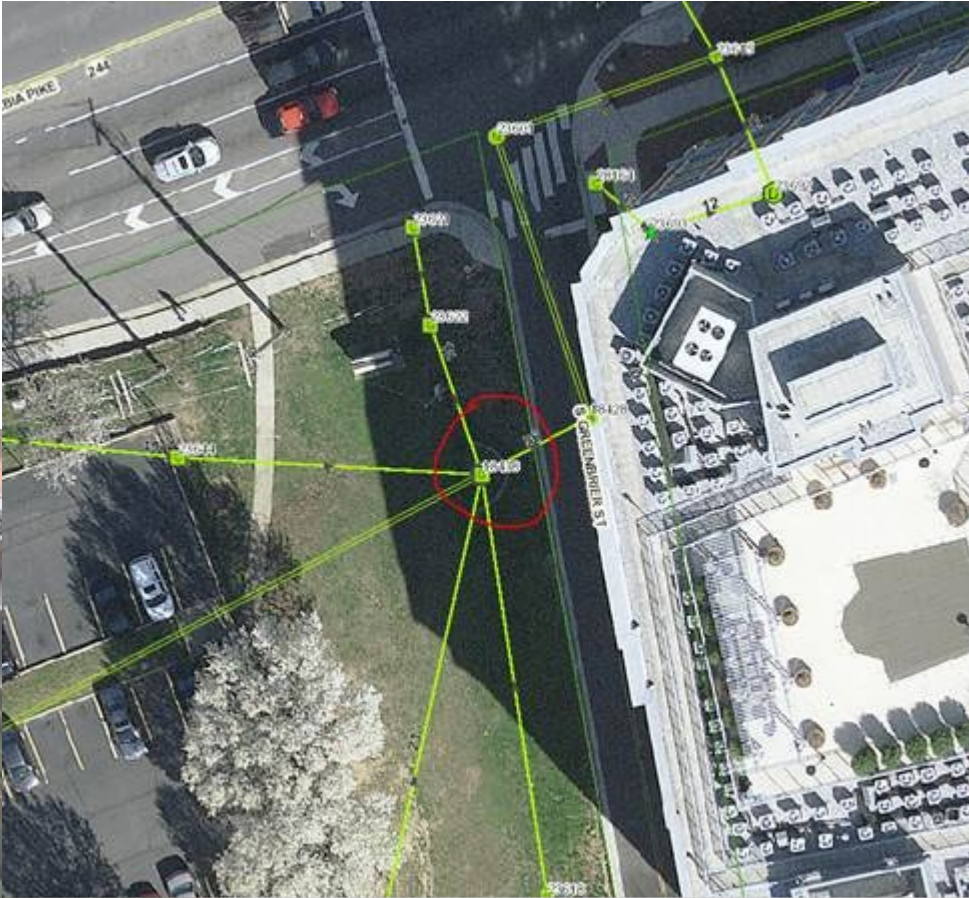
Examination of Specific Issues

Issues:

- 90 degree bends in trunk line
- Large Trunk line (96" underneath building, which was permitted that way years ago. No easements or agreements.) Not cause of flooding, but needs to be relocated.



Overflowing inlet filmed during July 8, 2019 storm

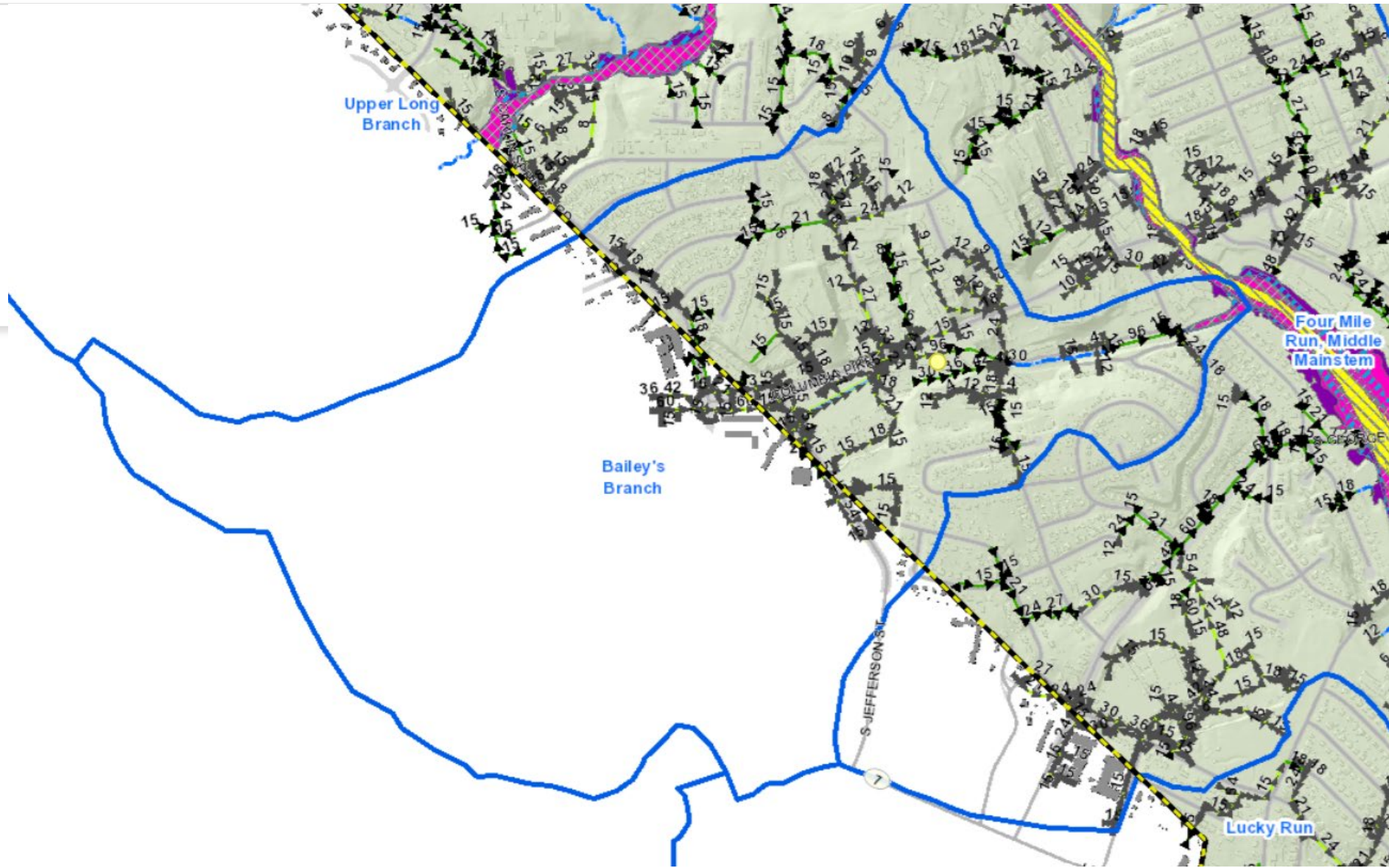


- Issues:
- Outfall into Bailey's Branch is submerged
- Capacity limitations in crossings in Columbia Pike



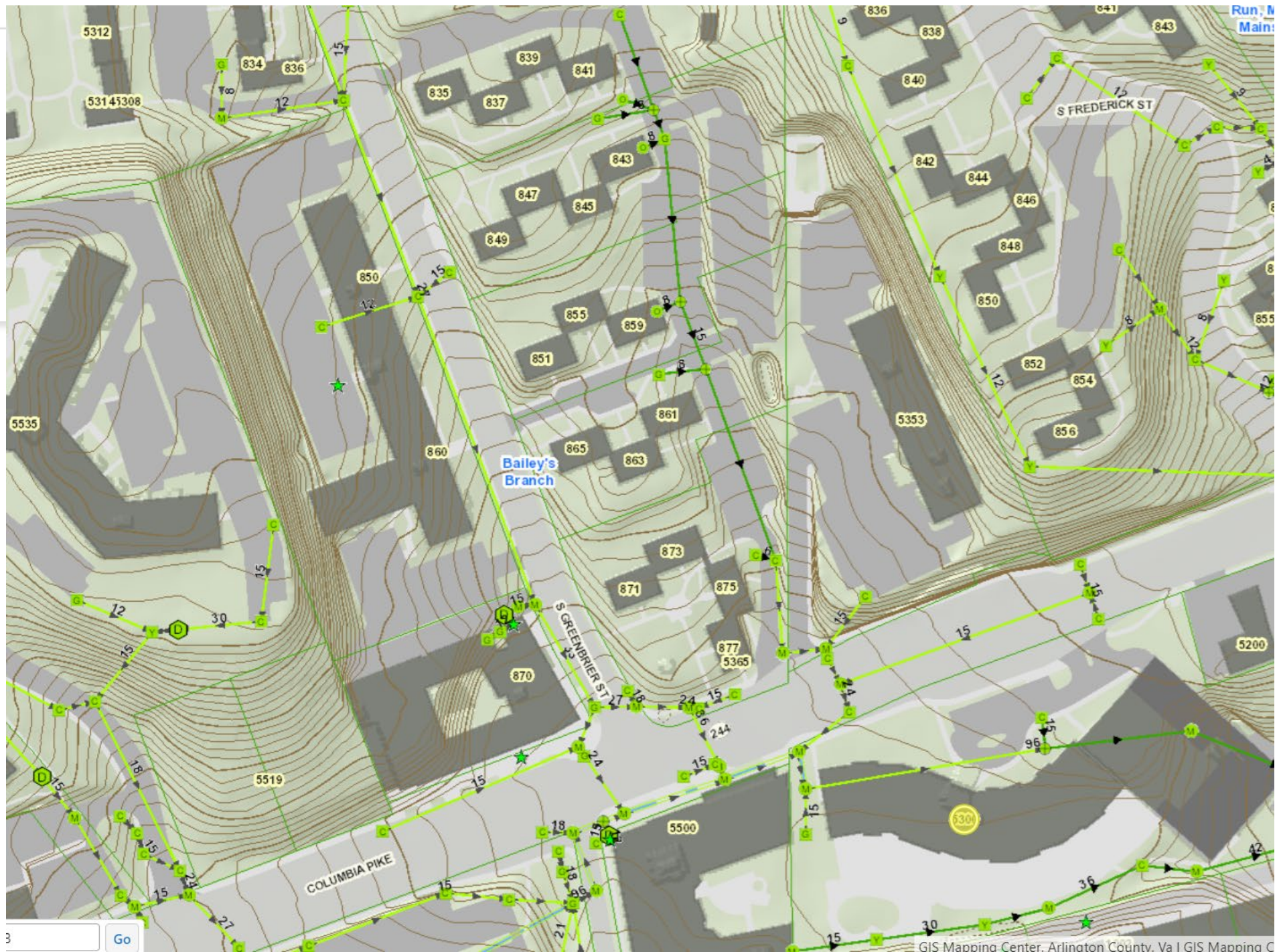
Submerged outfall means water isn't free to flow – system can back up. Need to account for this in the design of the new relocated pipe.

- Issues:
- Upstream Development in Fairfax County – Arlington has no control over this

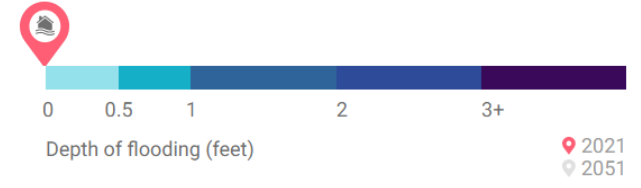


- Issues:

- Few Inlets



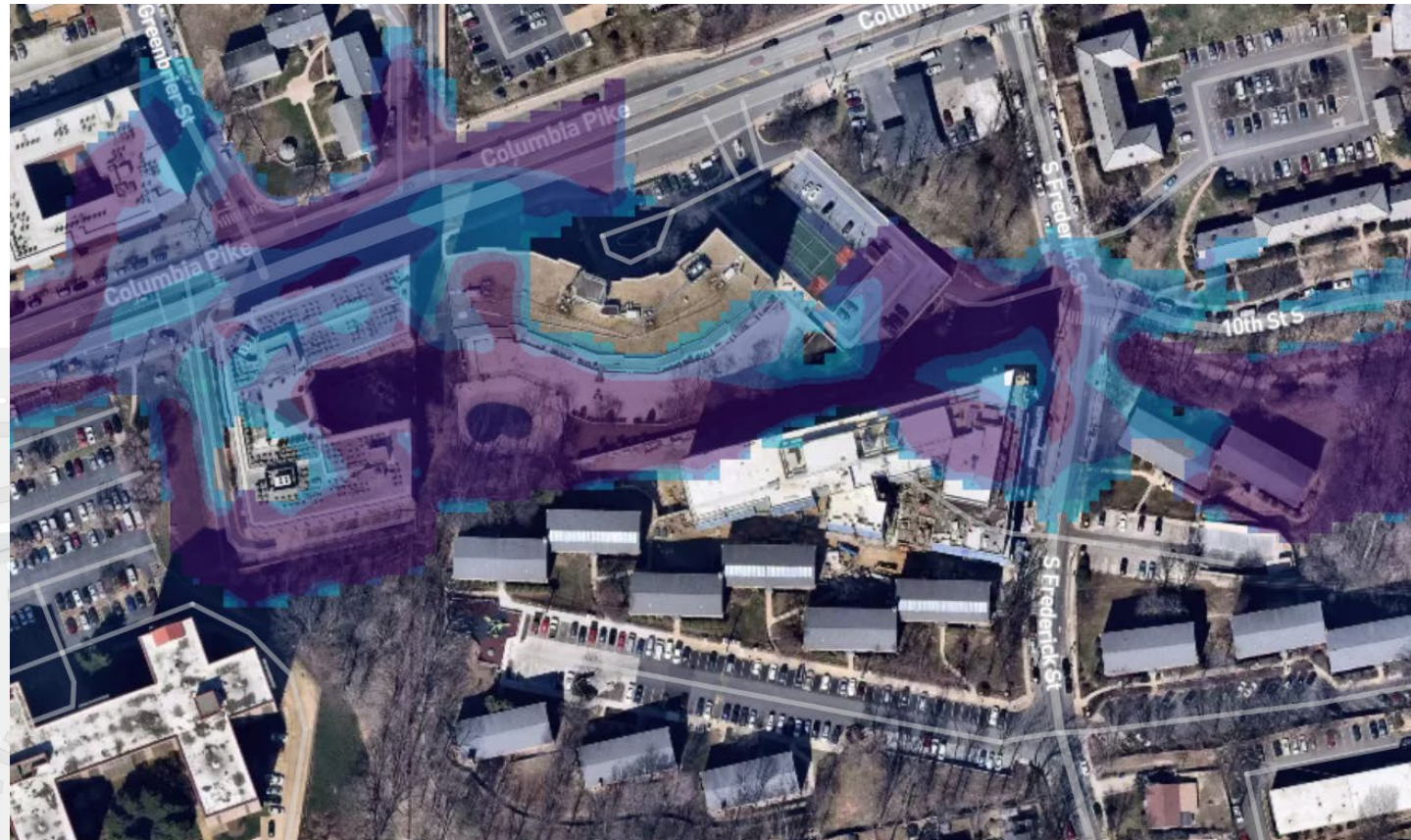
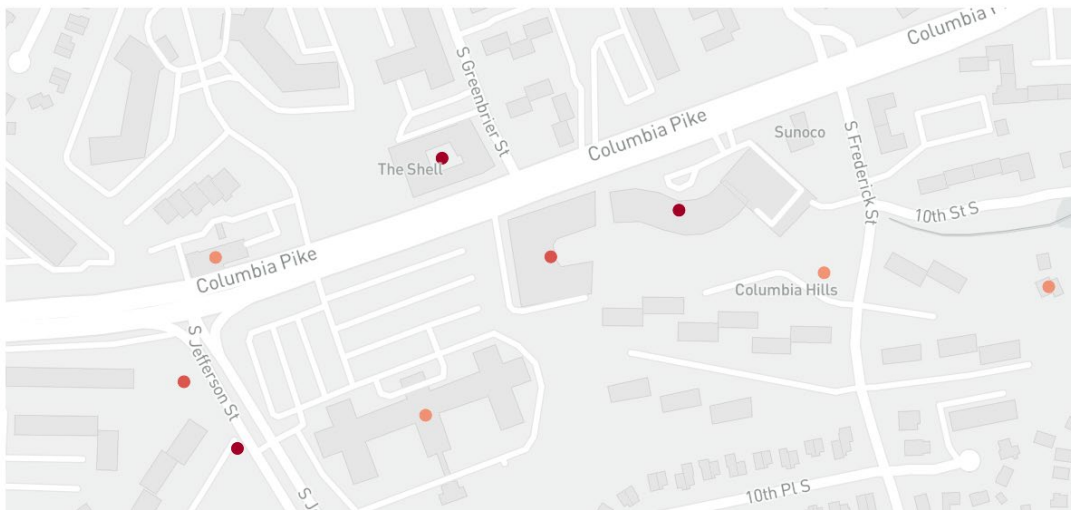
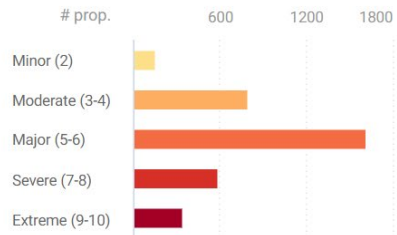
Floodfactor.com info



Filter properties by Flood Factor:

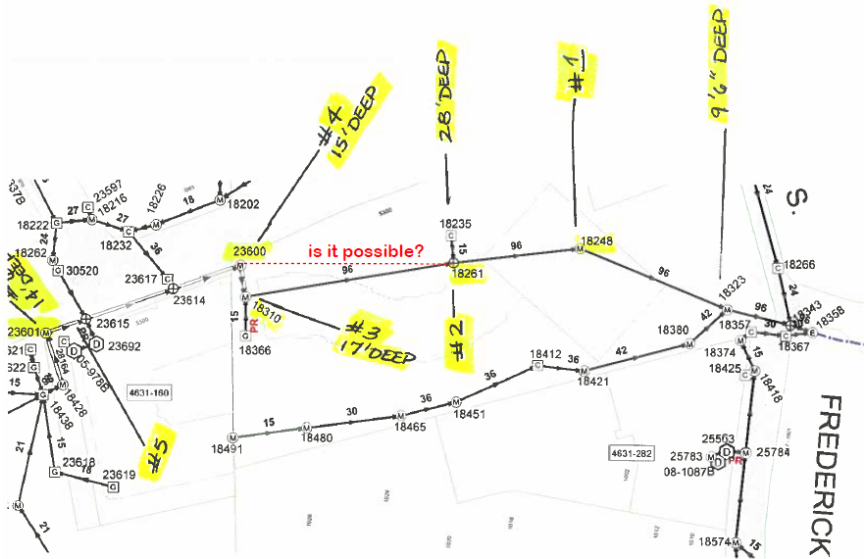
- All
- Minimal (1)
- Minor (2)
- Moderate (3-4)
- Major (5-6)
- Severe (7-8)
- Extreme (9-10)

Distribution of properties at risk in Arlington County



What is County doing?

1. Public Meetings in 2019
2. Flood proofing visits and reports in 2019
3. Pipe Inspections 2019 and 2021
4. Site visits 2019 – 2021 (Multiple Agencies:
 - WSS
 - OSEM
 - ISD



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October 3, 2019

Arlington County, Virginia
Attn: Elizabeth Thurber, PE
Department of Environmental Services
Office of Sustainability and Environmental Management
Stormwater Infrastructure
2100 Clarendon Boulevard
Suite 705
Arlington, Virginia 22201

RE: Contract #17-084-RFP-S, Task Order #19-03, Disaster Assistance Services – Technical Site Visits

Location: **Parag Nathaney (Site #0094)**
5300 Columbia Pike, Unit T15, Arlington, VA 22204

Site Visit Date: 10/01/2019

Dear Mrs. Thurber,

The extreme heavy rainfall and flash flooding event which occurred July 8, 2019 through parts of the Arlington County jurisdiction has prompted the County to develop an Outreach Program to aid the affected community in understanding possible mitigation efforts that could be developed by property owners to reduce or circumvent the potential impact of future flooding risks.

Dewberry was tasked to meet with affected residents with the objective to understand the specific cause of flooding, identify potential flood mitigation solutions and determine if the home owners have planned any mitigation efforts themselves.

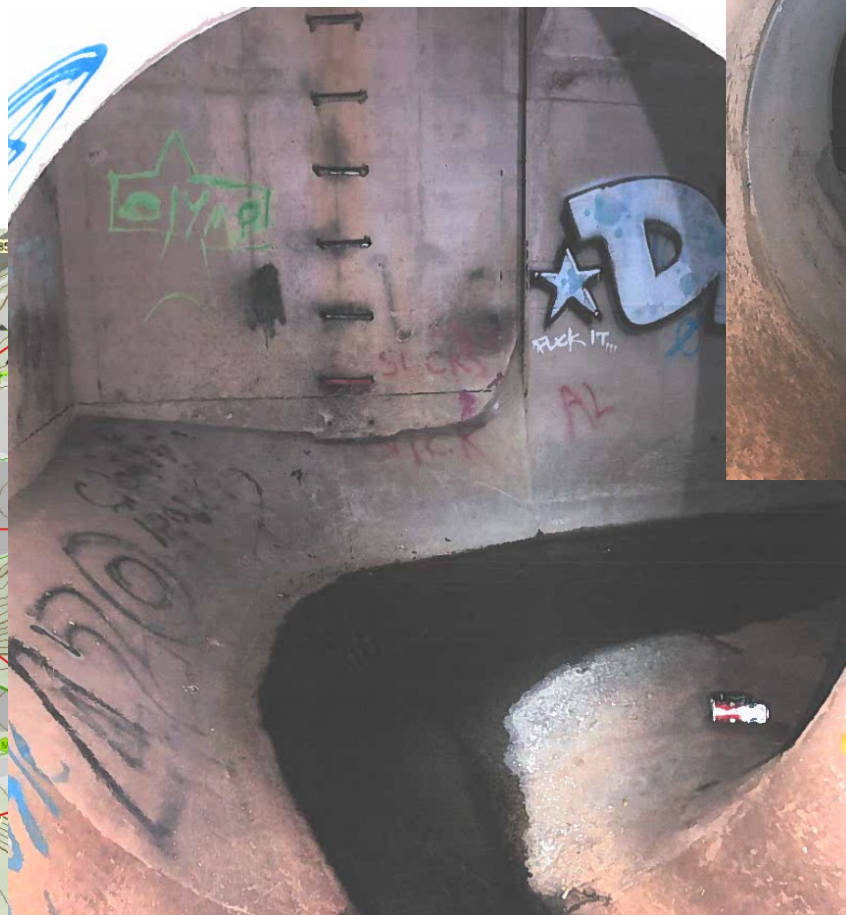
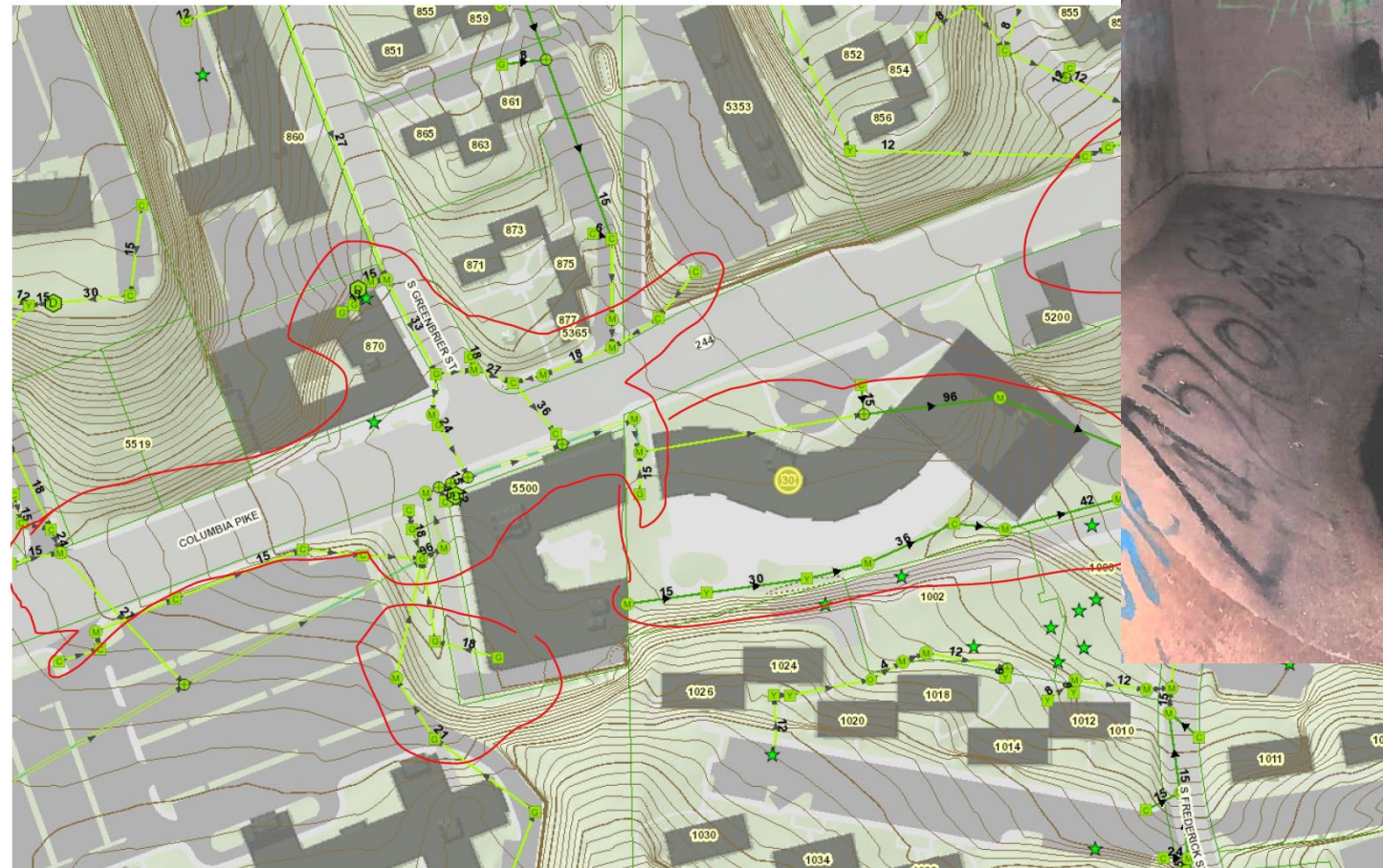
A site investigation for the above referenced property has been performed on October 1, 2019, as requested by the home owner through the Outreach Program administered by the County to determine possible mitigation efforts. Our findings are listed below.

DISCLAIMER: This letter memorandum is provided to assist the homeowner in having well informed discussions with its licensed and qualified designer and contractor. The flood mitigation methods identified in this memorandum are based on limited information gathered from visual inspection and conversations with the homeowners and are NOT based on engineering calculations. This memorandum is provided to the homeowner for convenience only, does not establish a contractual relationship between Dewberry and the homeowner or between Arlington County and the homeowner, and in no way is the homeowner under any obligation to implement the mitigation methods. DEWBERRY DISCLAIMS ANY



What is County doing?

- 1. Inspected storm sewers throughout watershed (see photos)
- 2. Analyzing Entire System
 - 1. Scope surveys
 - 2. Scope Storm Drainage Improvement Project



Liz,
Tim's team walked the culvert and found no issues with the pipes or box culverts along the stretch from Greenbrier to Frederick.

Contacts

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