

City of Red Bank

BOARD OF COMMISSIONERS WORK SESSION

Work Session Agenda

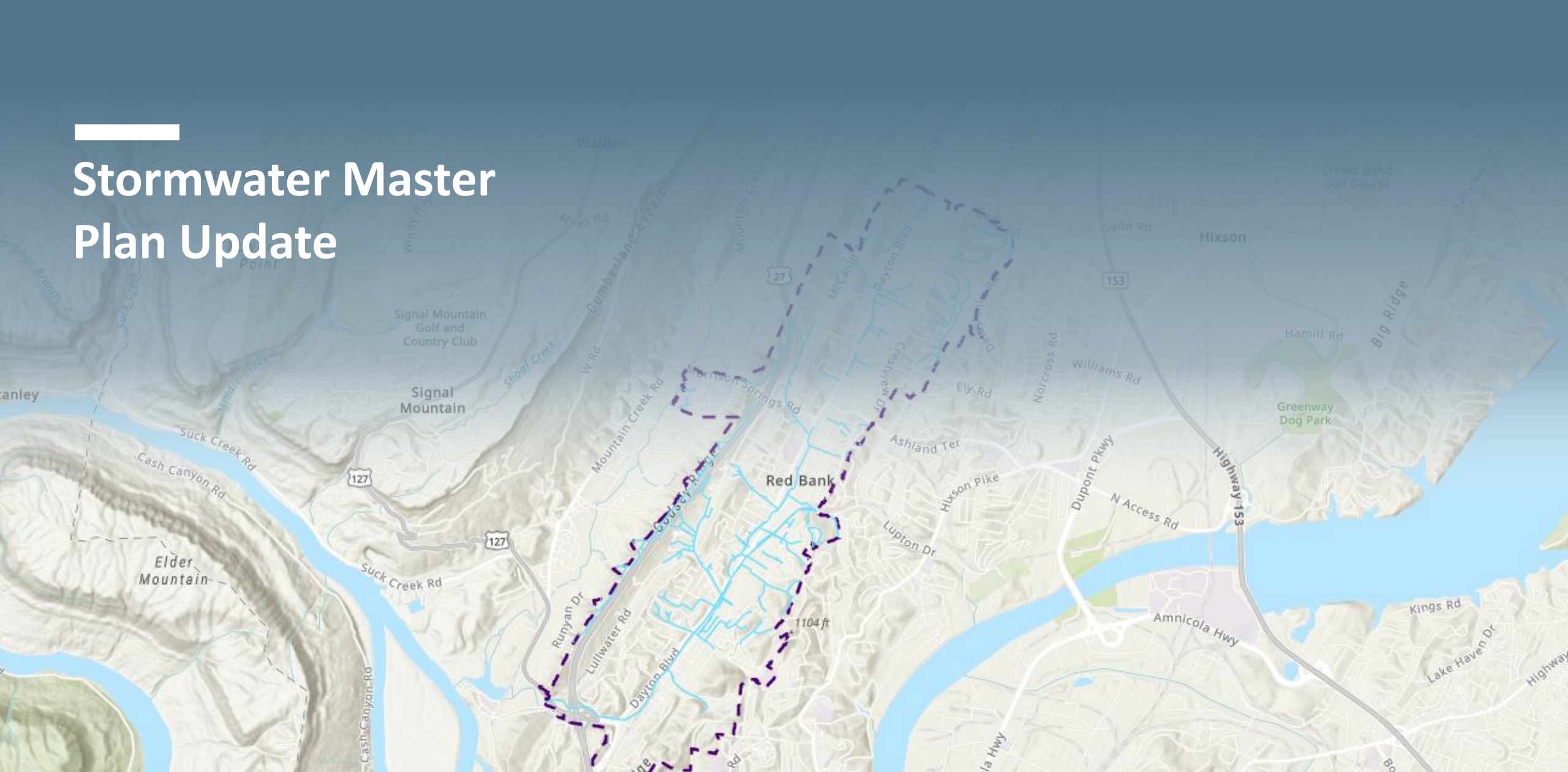
June 18, 2024

5:00 PM

The purpose(s) of the meeting shall be for the Commission to receive, consider, discuss, deliberate, and debate the matters listed herein below and such other public business as may lawfully be undertaken provided that no formal votes are to occur and no matters or issues will be formally decided upon at this meeting.

- I. **Stormwater Asset Mapping Project Update - Presentation from Barge Design (DPWD Johnson)**
- II. **Accept the "Healthy Built Environment Funding Opportunity" - Notice of Award from the Tennessee Department of Health Res No. 24-1702 (DPWD Johnson)**
- III. **Approve Purchase of Engine replacement in the amount of \$20,497.86 for RBF-001 Res No.24-1703 (FC Sylar)**
- IV. **Citizen Comments on Items on the Work Session Agenda**
5:45 Hard Stop to allow citizen comments on items on this Work Session Agenda
- V. **Any other business to discuss**
- VI. **Adjournment**

Stormwater Master Plan Update



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TENNESSEE

BARGE
DESIGN SOLUTIONS
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Agenda

01

Background and Objectives

02

Planning and Pilot Study

03

Inventory and Condition Assessment

04

Model Setup and Analysis

05

Capital Improvement Plans

06

System Improvements

01

Background and Objectives

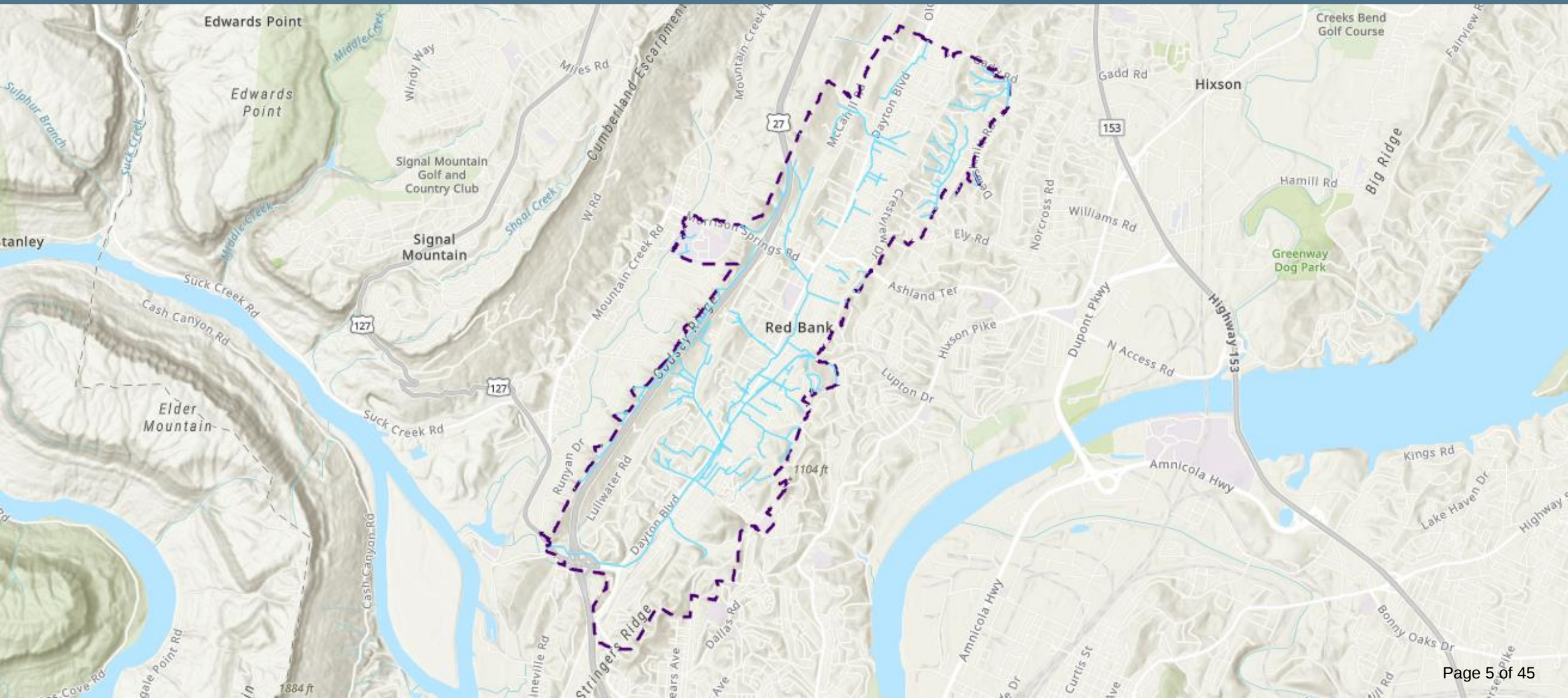


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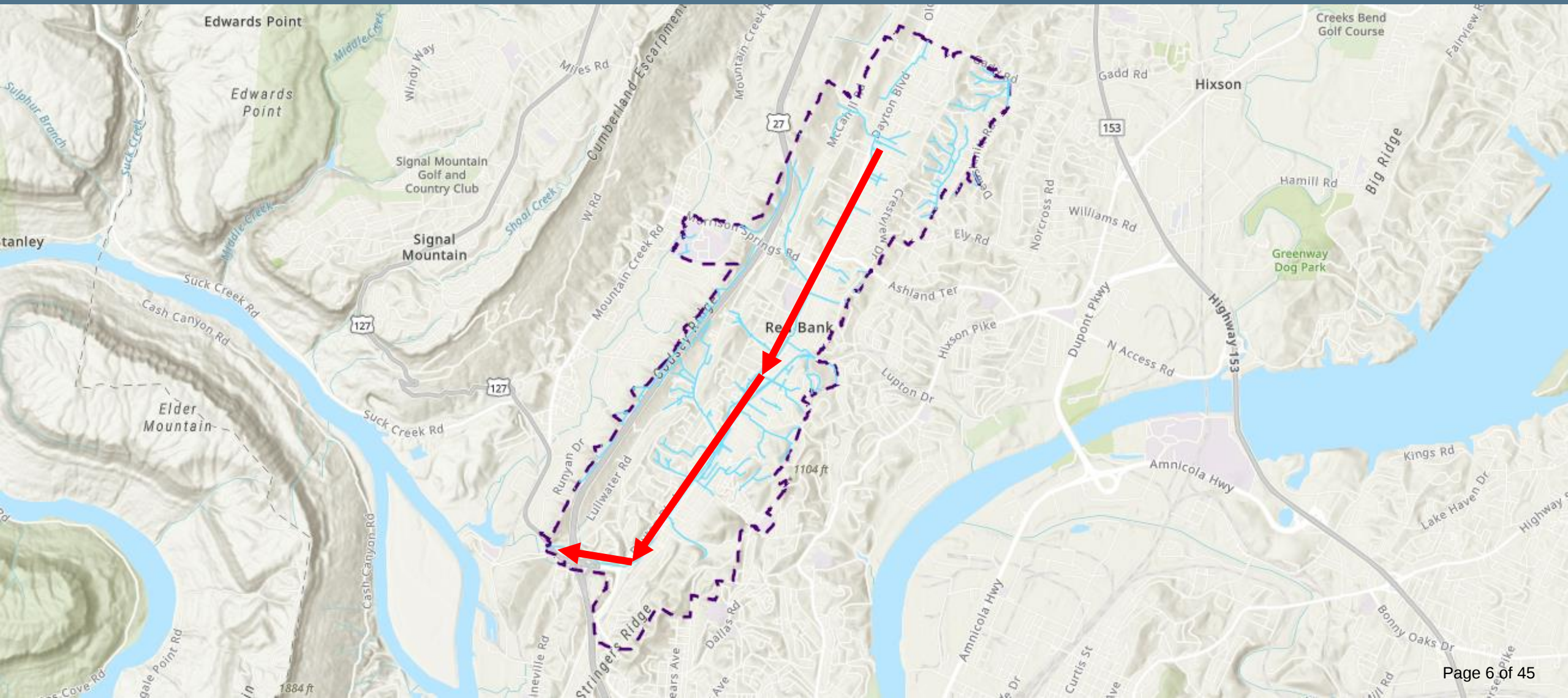
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Red Bank

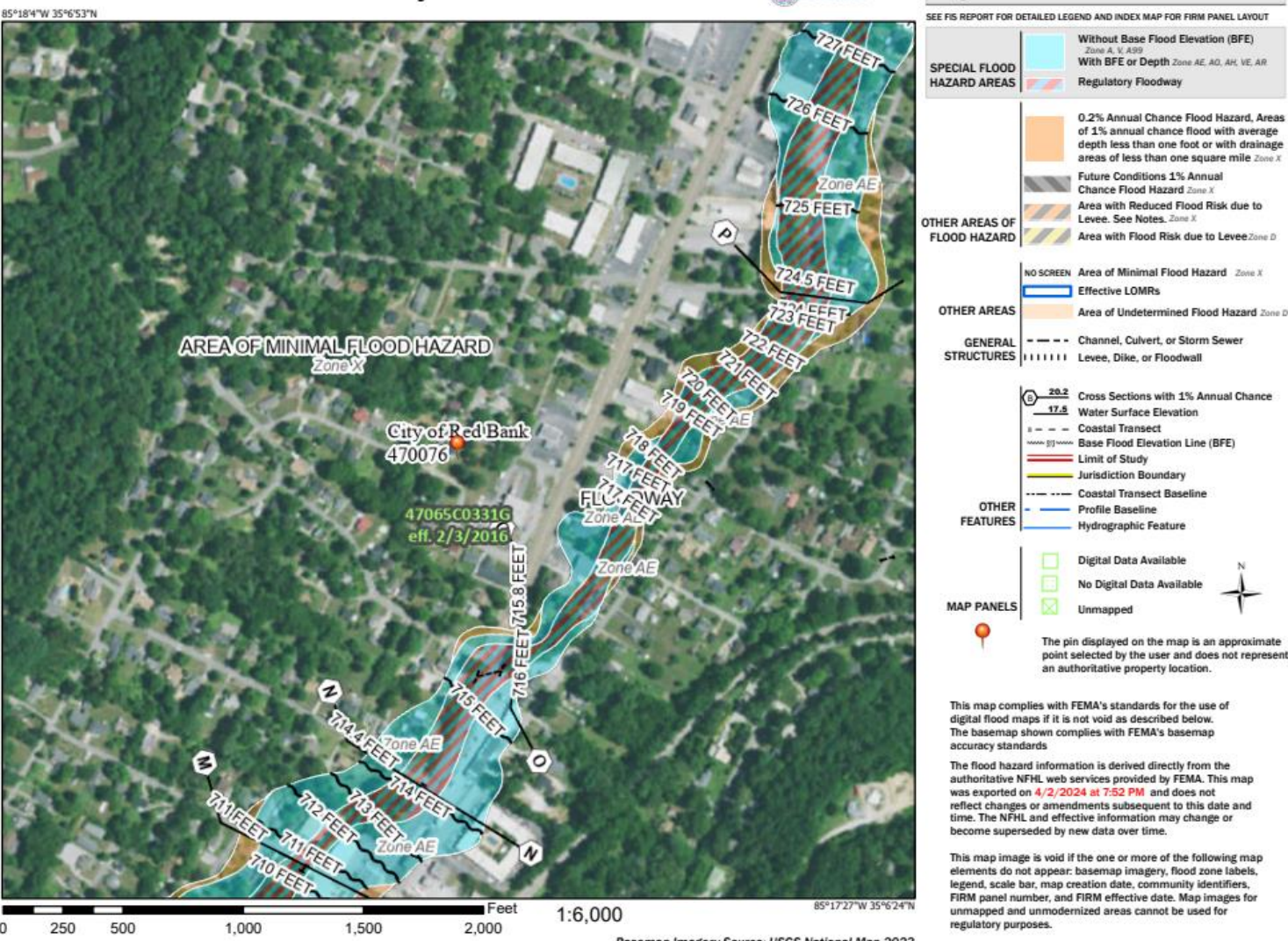


Stringers Branch



Stringers Branch

National Flood Hazard Layer FIRMette



study was completed in February 1987

Red Bank, City of:

the hydrologic and hydraulic analyses for the FIS report dated March 15, 1979, were performed by the TVA for the FIA, under Inter-Agency Agreement No. IAA-H-6-73 (42 U.S.C. 4001-4127). This work covers all the significant flooding sources in the City of Red Bank. For the FIS report dated September 5, 1990, the hydrologic and hydraulic analyses were performed by the TVA. FEMA reviewed and accepted these data for purposes of this revision.

The authority and acknowledgments for the Cities of Lakesite and Saddy-Daisy, and the Towns of Lookout Mountain and Signal Mountain are not included because there are no previously printed FIS reports for those communities.

The previously printed FIS report for the City of East Ridge is not available; therefore, it is not included in this countywide FIS.

Stringers Branch



Stringers Branch: Encapsulation



Stringer Branch



02

Planning and Pilot Study

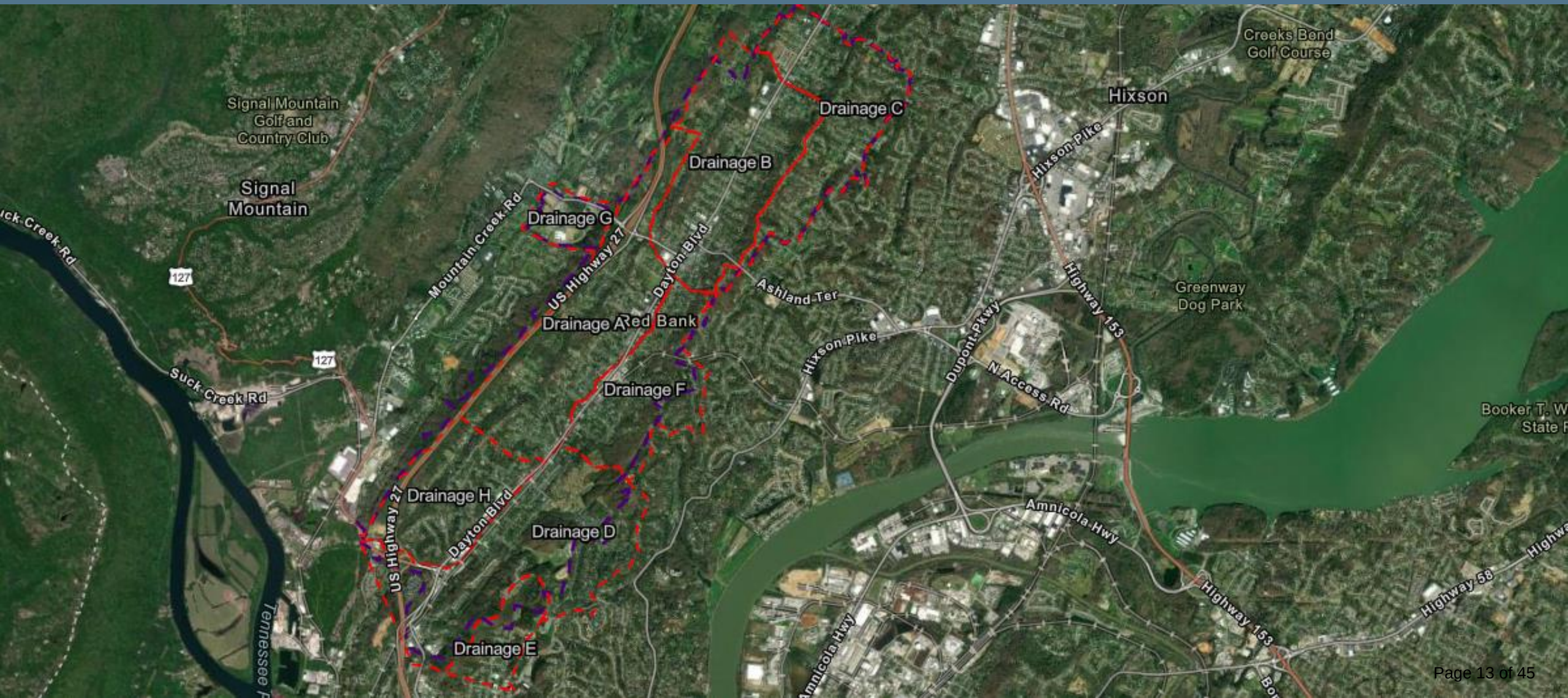


Inventory Size

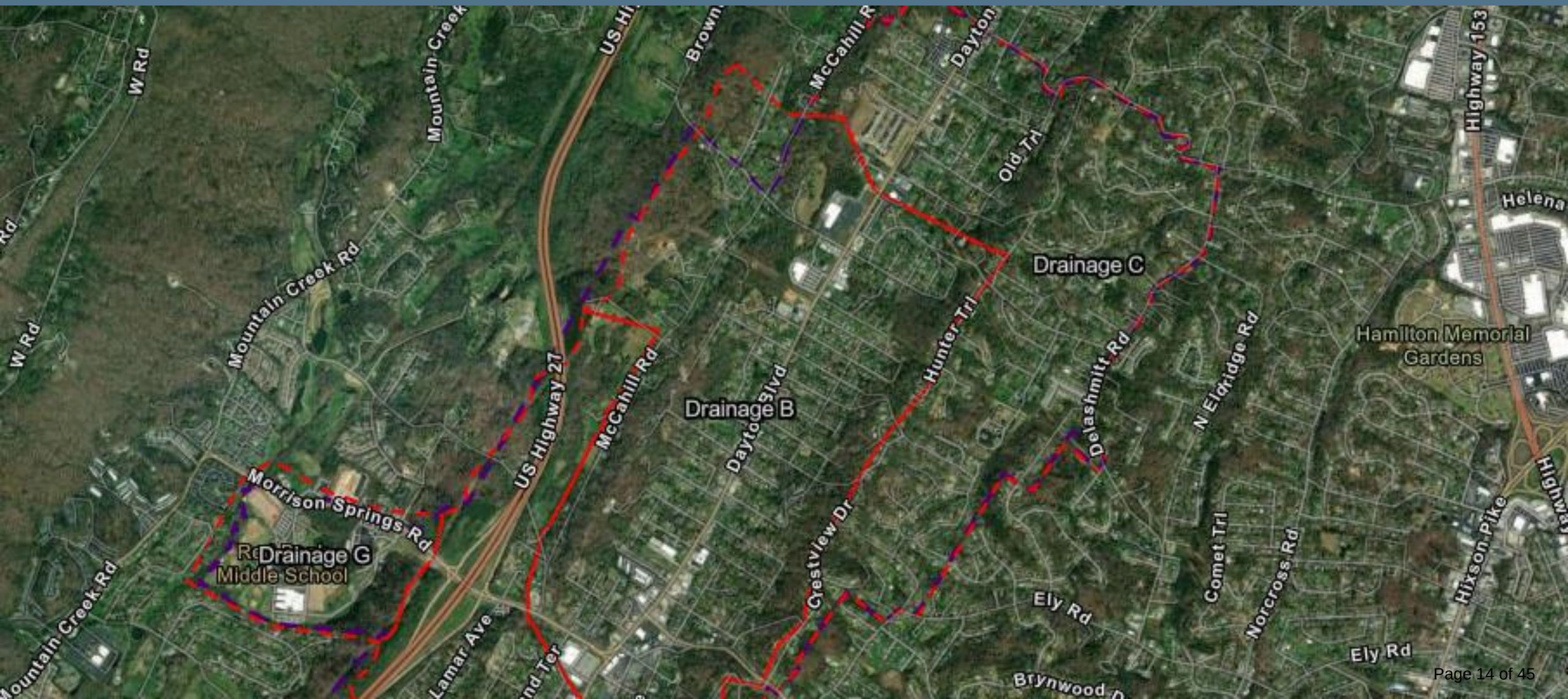




Pilot Study Area

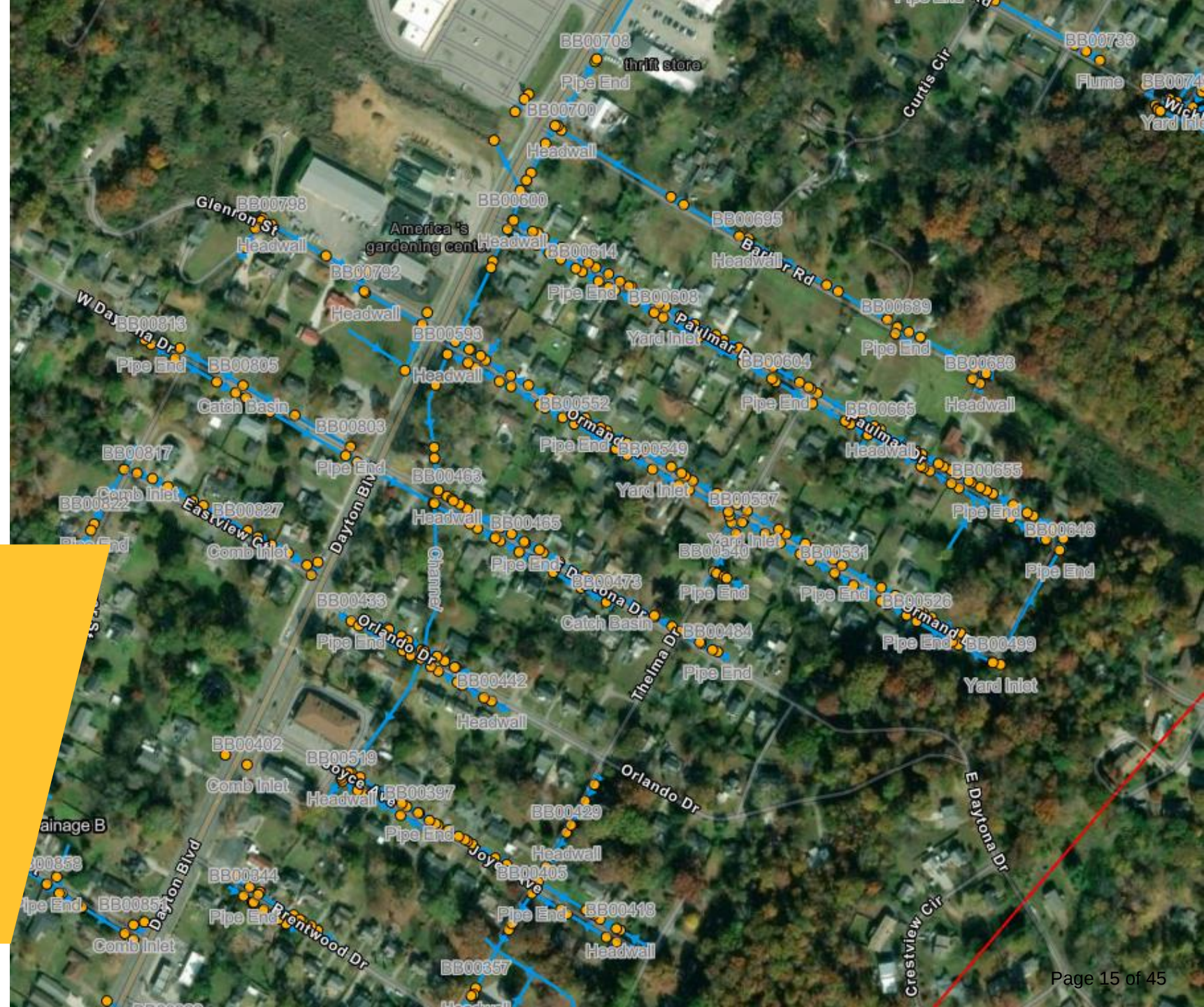


Pilot Study Area



Data Collection

- Culverts
- Inlets
- Manholes
- Road Crossings
- Open Channels



Data Collection

Unique ID

Inverts/Depths

**Structure/
Piping Sizes**

Major Issues

Bike Friendly Grate

360 Degree Video

03

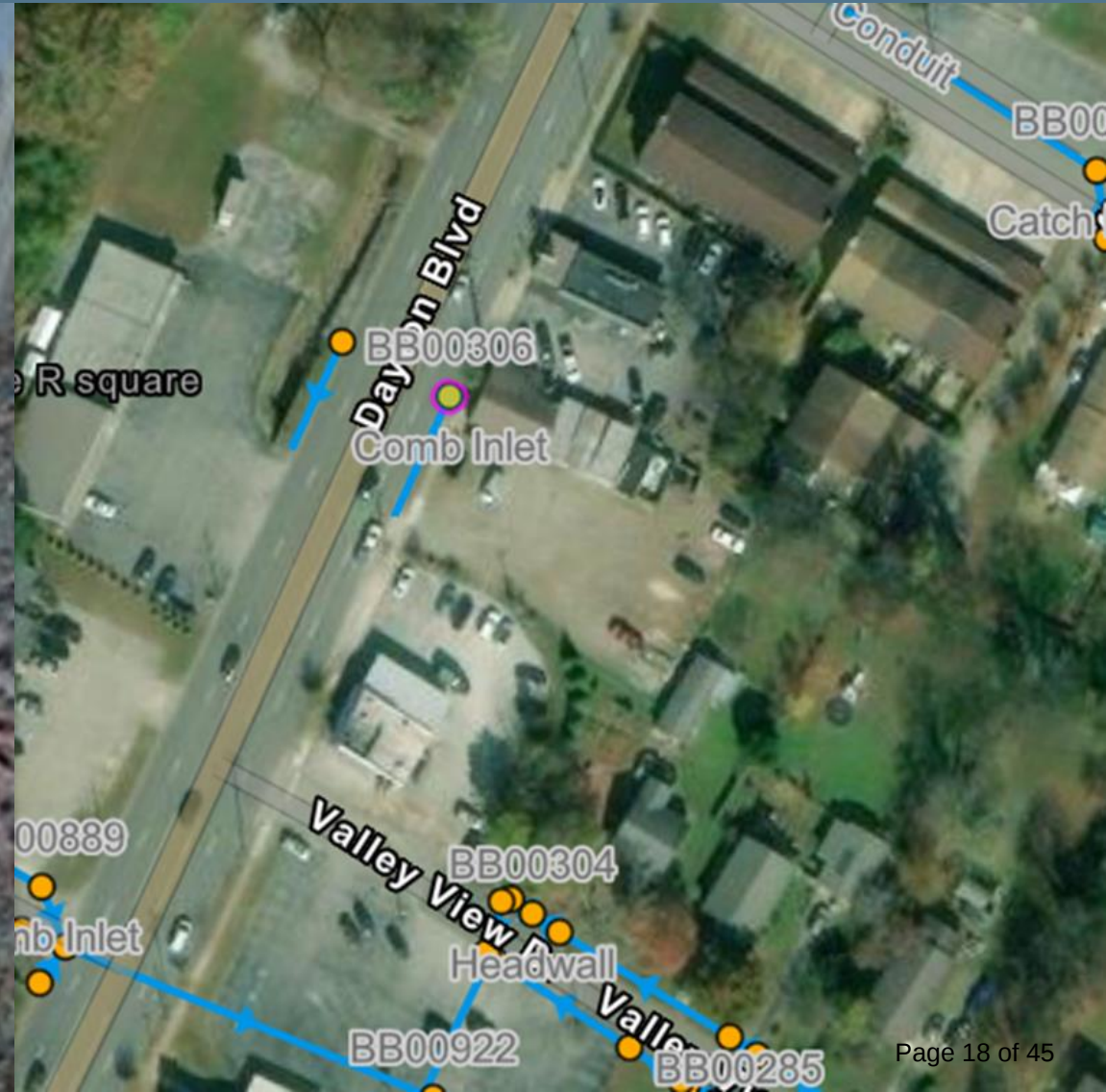
Inventory and Condition Assessment



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Inventory and Data Collection



Inventory and Data Collection

Field ID: BB00306

Zoom to Pan

Field ID	BB00306
Crossover Field ID	
Mapping Accuracy	Survey-Grade GPS
Structure Type	Comb Inlet
Structure Material Type	Brick
Number of Grates	4
Headwall Shape	
Number of Pipes	1
Weir 1 Dimension 1	
Weir 1 Dimension 2	



Inventory and Data Collection

Field ID: BB00306

Zoom to Pan

Weir 3 Dimension 2	
Weir 3 Size	
Length	1.500000
Width	1.500000
Depth	3.800000
Rim Elevation	761.404224
Bottom Elevation	757.604224
Major Issues	None
Condition Assessment	Grade 3 - Fair

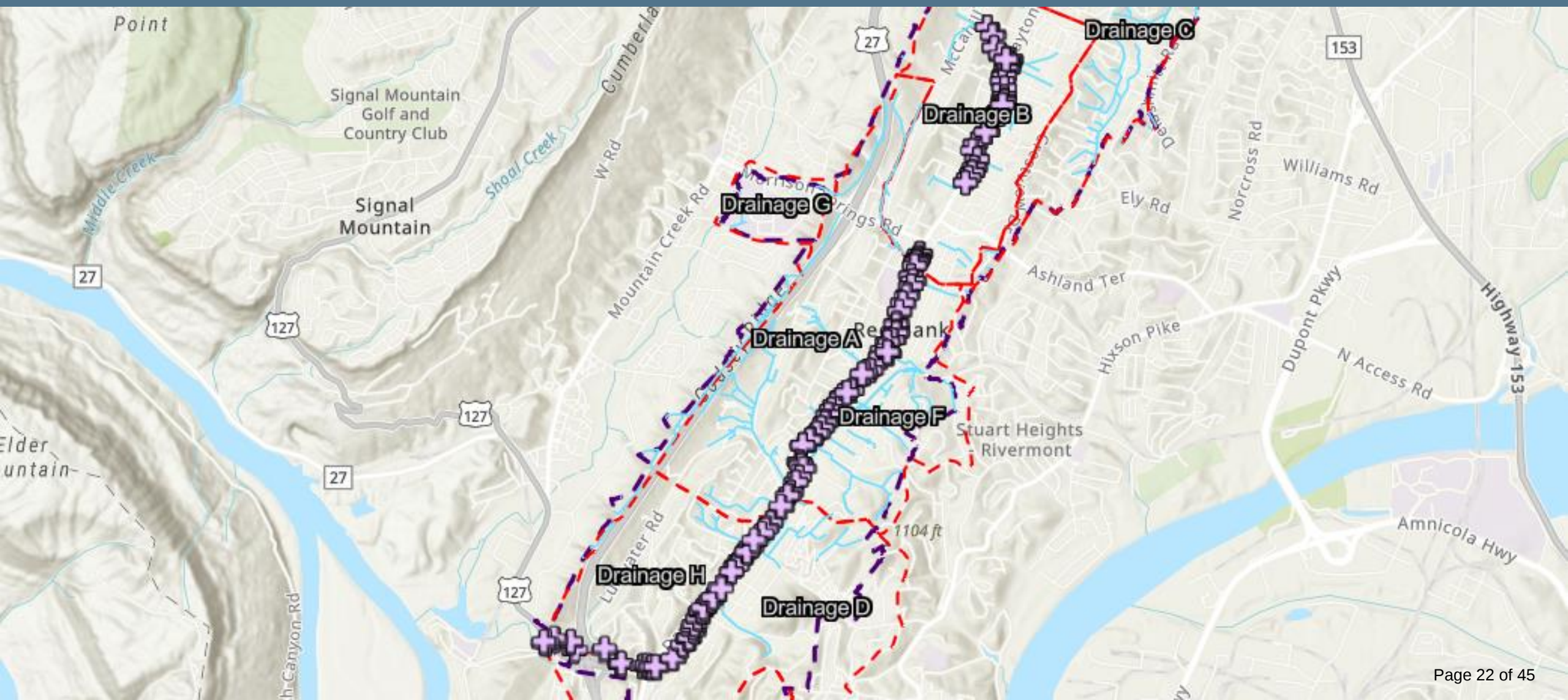
Notes



360 Degree Video



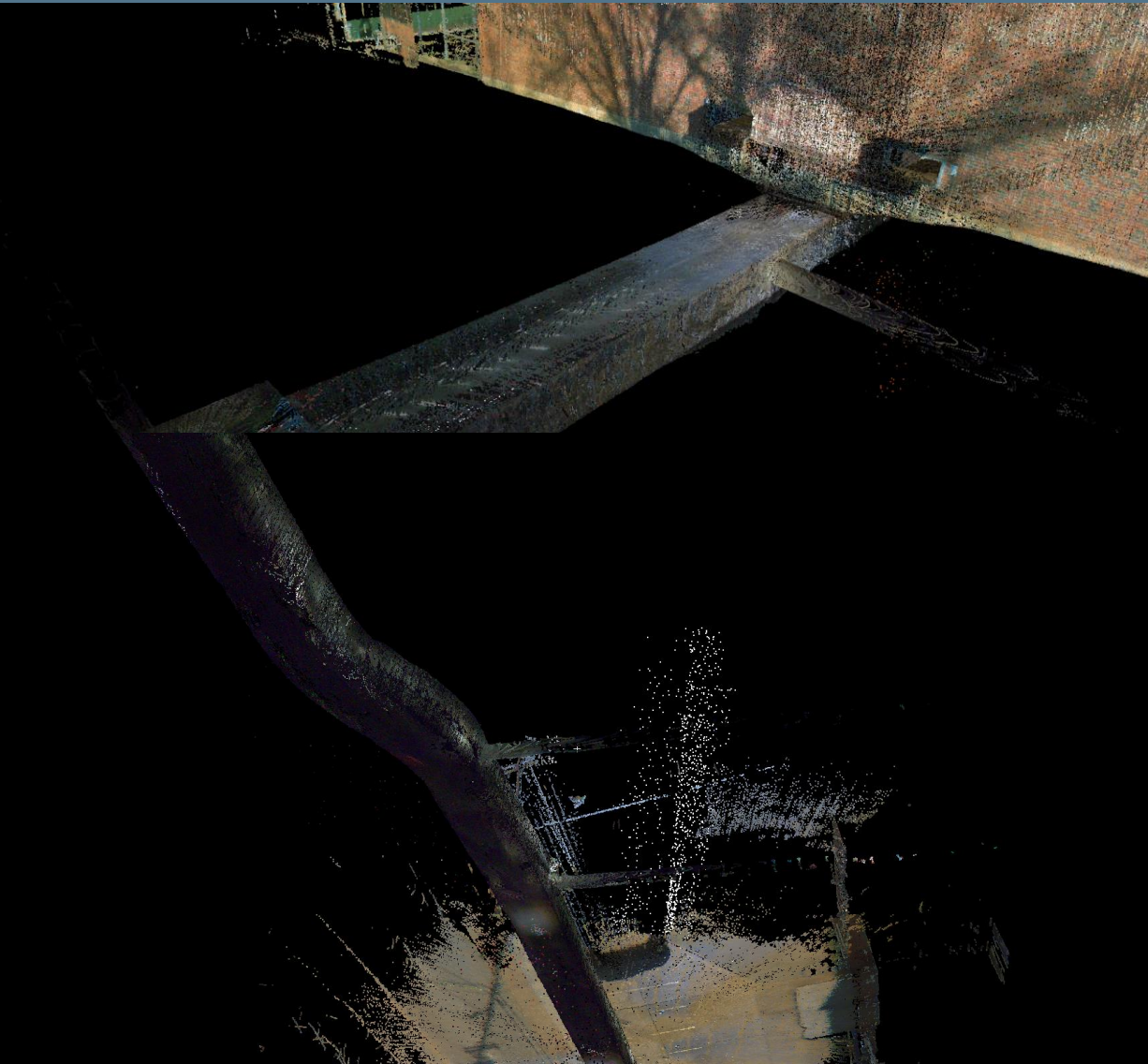
Stringers Branch Cross Sections



360 Degree Cross Sectional Photo



Stringers Branch Encapsulated Portion Survey

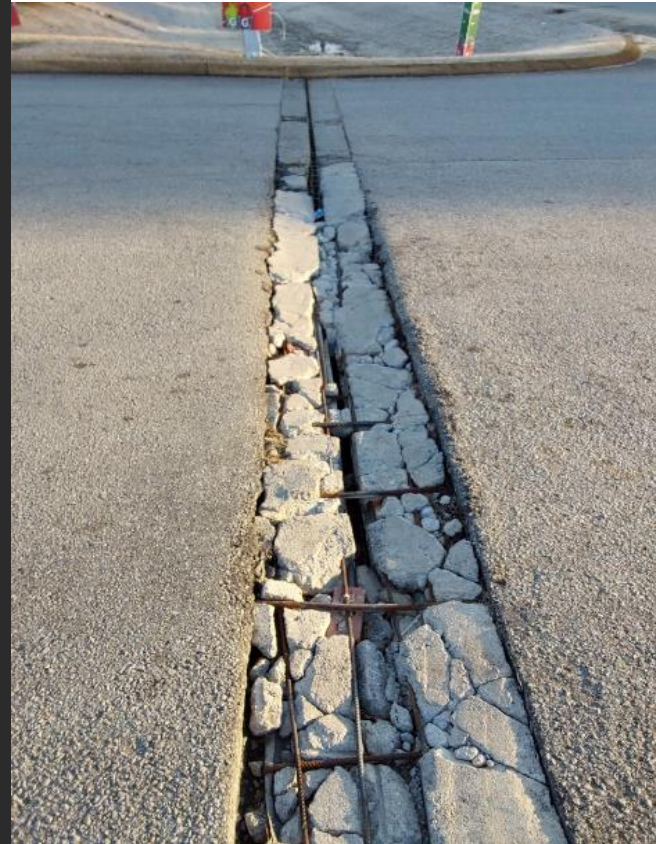
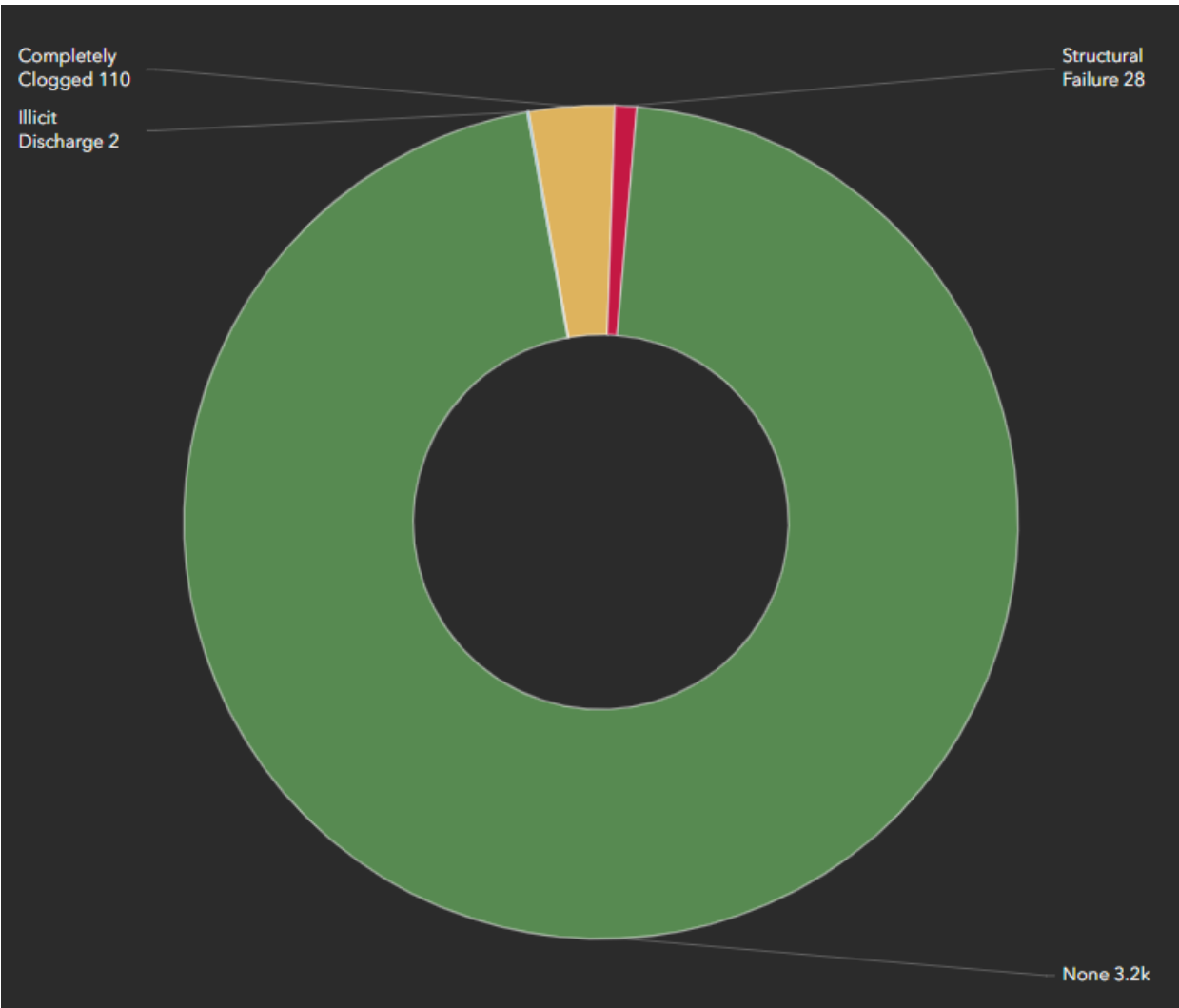


Condition Assessment

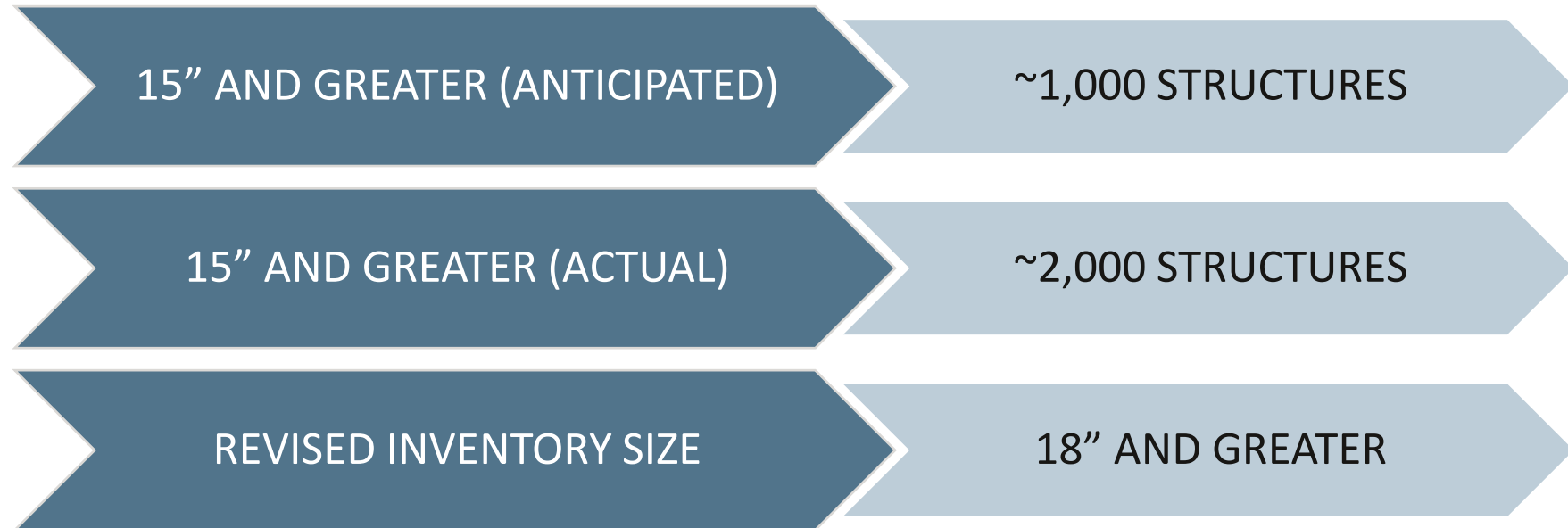
GRADE	COMMON DEFECTS
Other	Roof drains or underdrains
Incomplete	Pipe unable to be evaluated due to inability to access
0	None
1	Poor grouting in joints, small cracks
2	Poor grouting in joints, Medium cracks, Joint separation, Infiltration, Cracked coating, Aggregate showing
3	Medium cracks, Joint separation, Infiltration, Damaged coating, Aggregate showing, Roots in pipe, Exposed/rusted reinforcement, Surface rusted, Signs of surcharging, Small holes
4	Joint separation, Infiltration leading to sinkholes, Missing coating, Surface rusted, Settled deposits, Medium holes.
5	Collapse



Major Issues

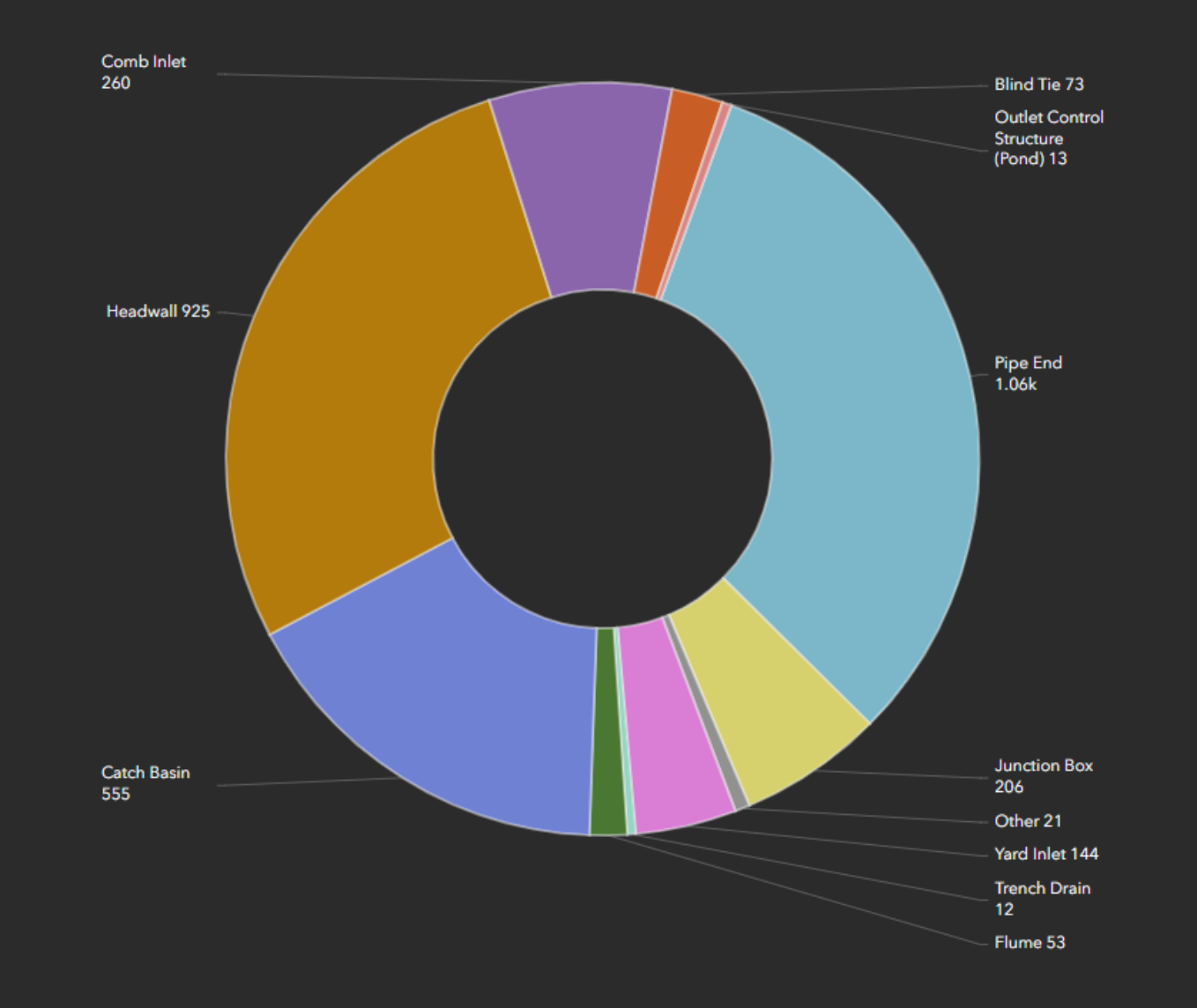


Pilot Study





Inventory Update



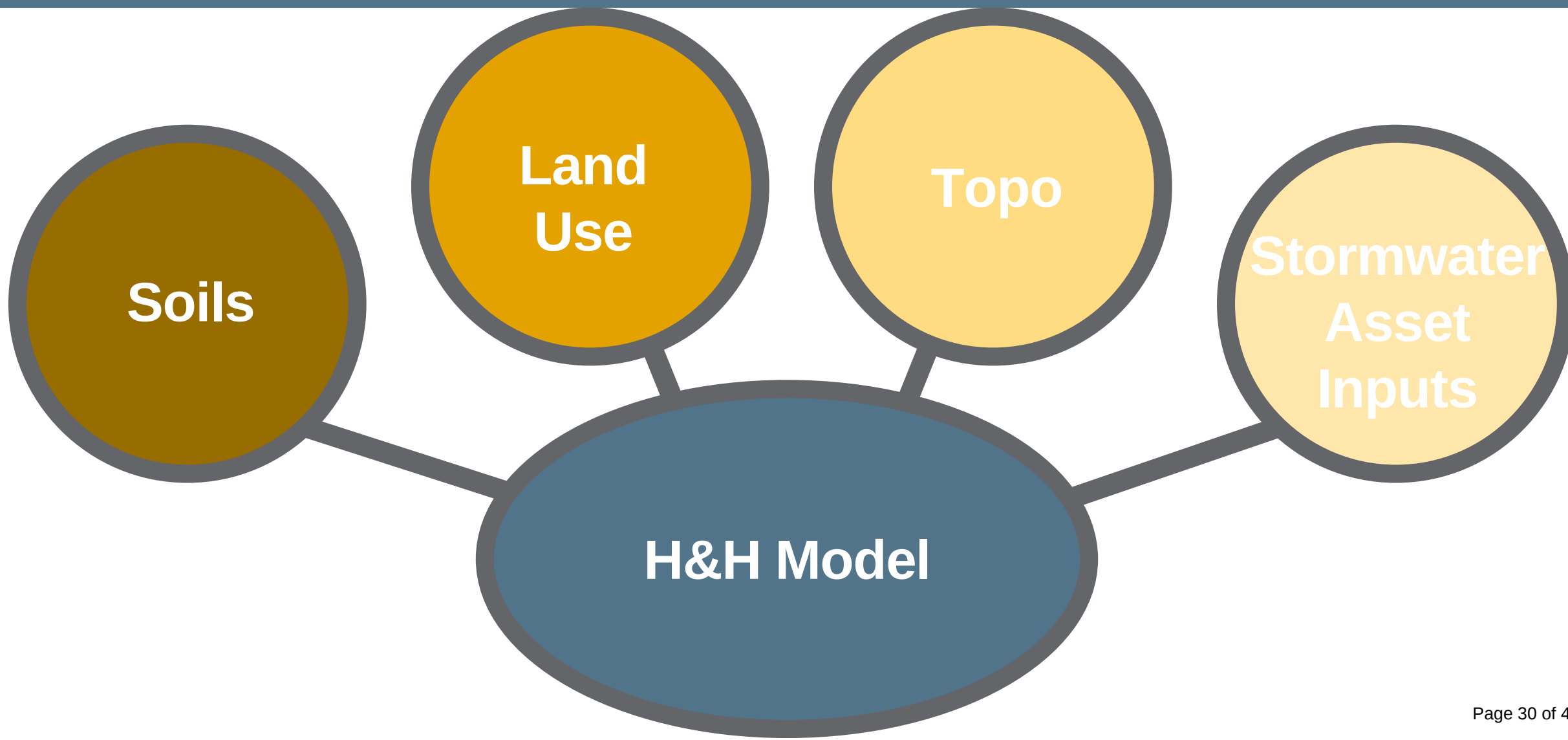
3,320 Structures

04

Model Setup and Analysis



Hydrologic & Hydraulic Modeling

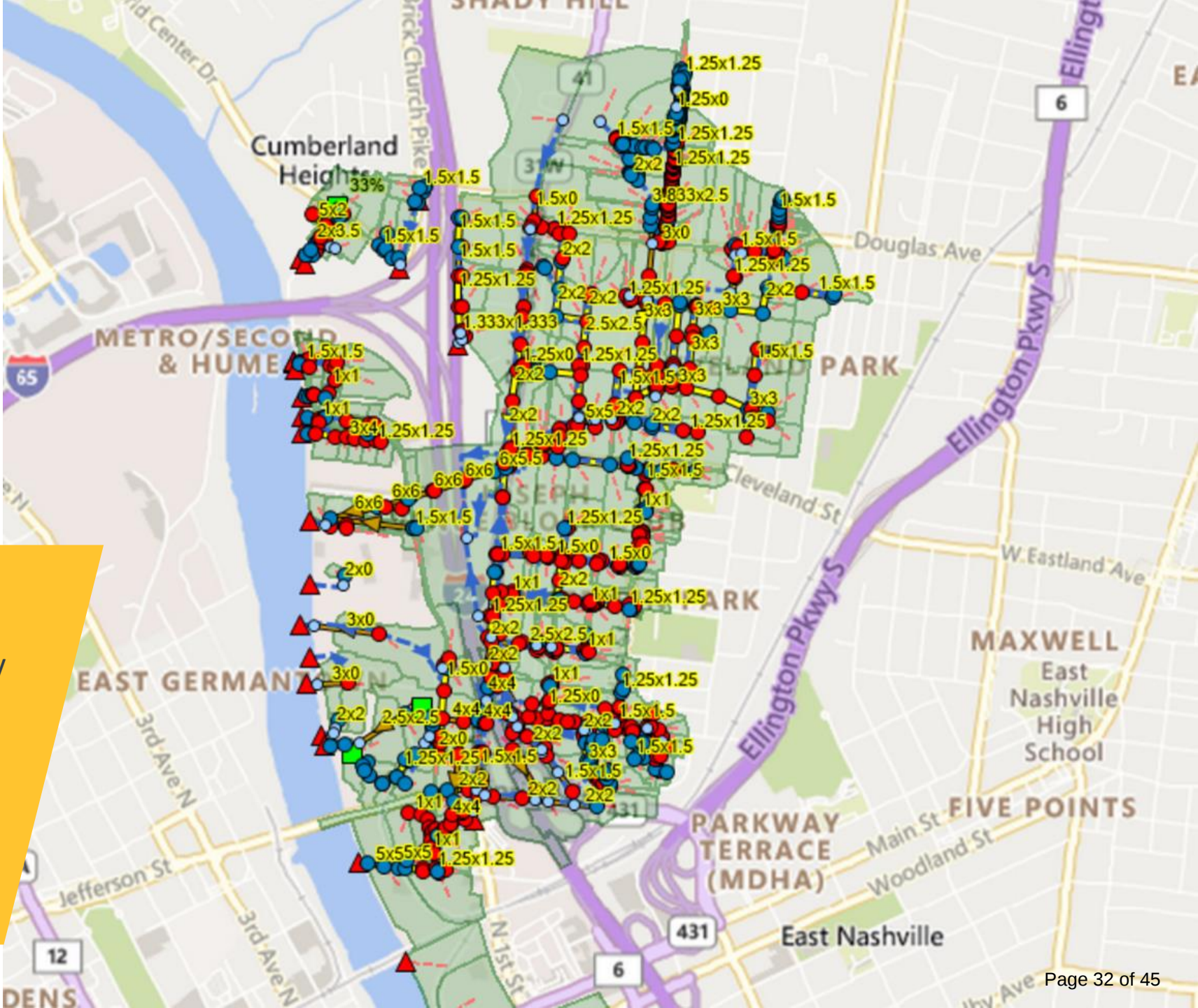


Model Setup

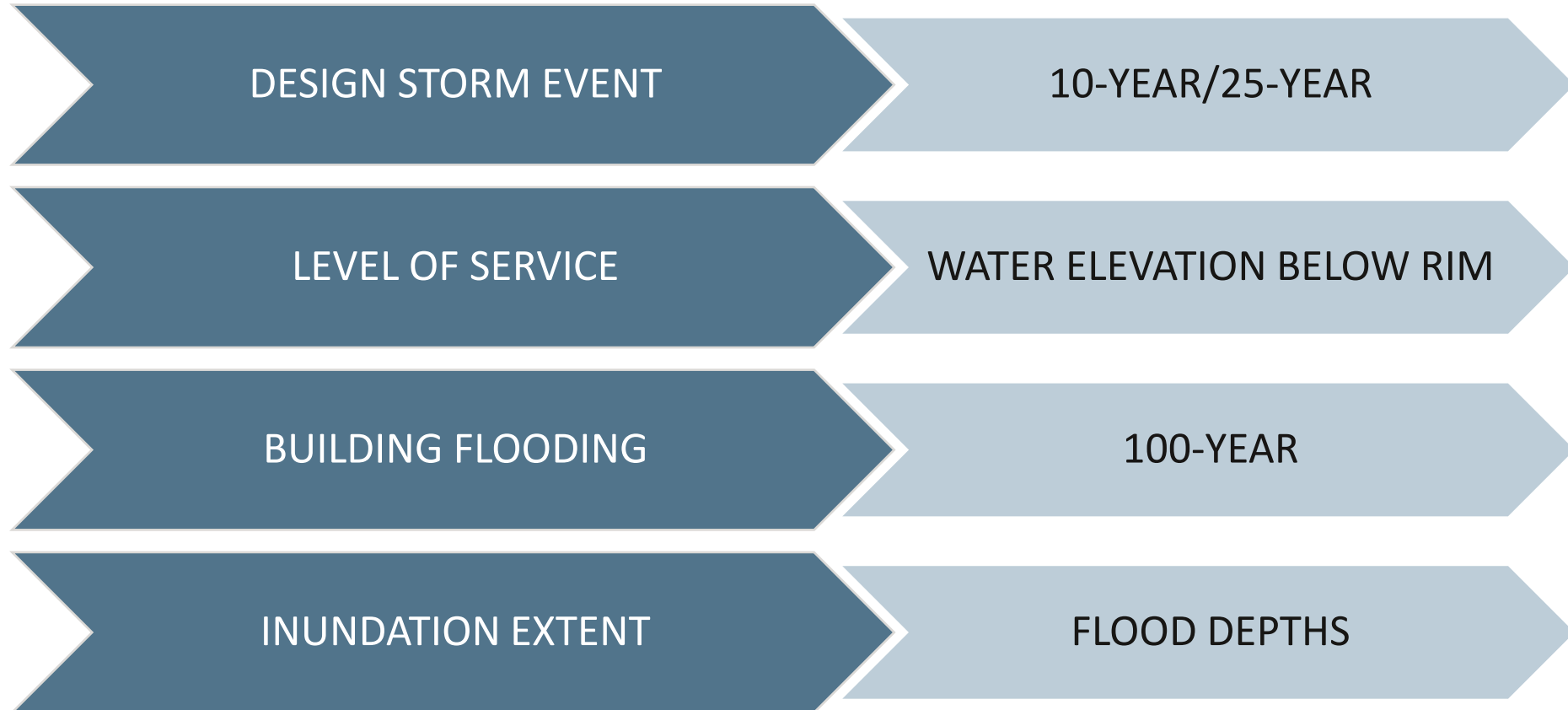


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- Stormwater Inputs from Inventory
- Hydraulic Parameters

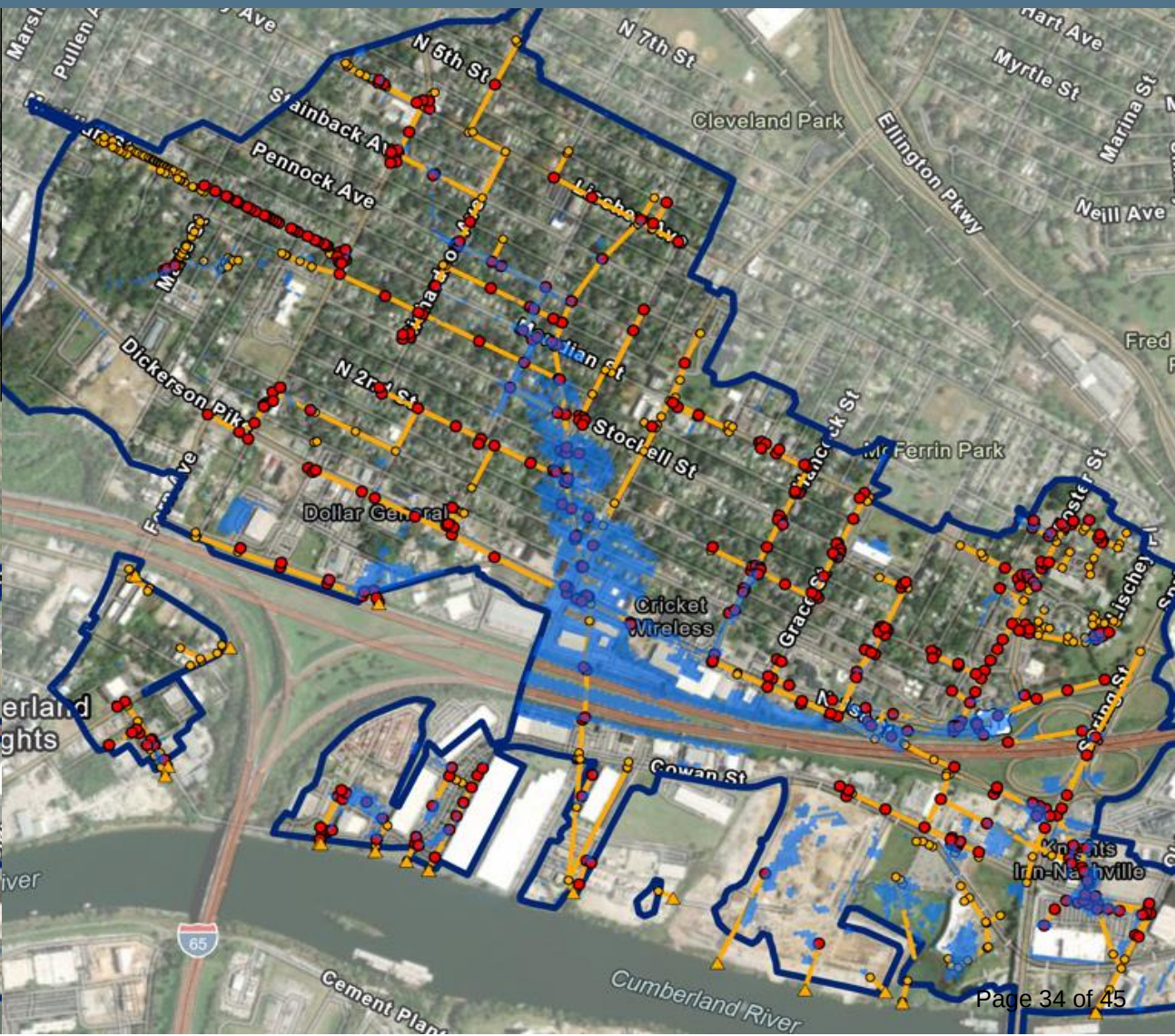
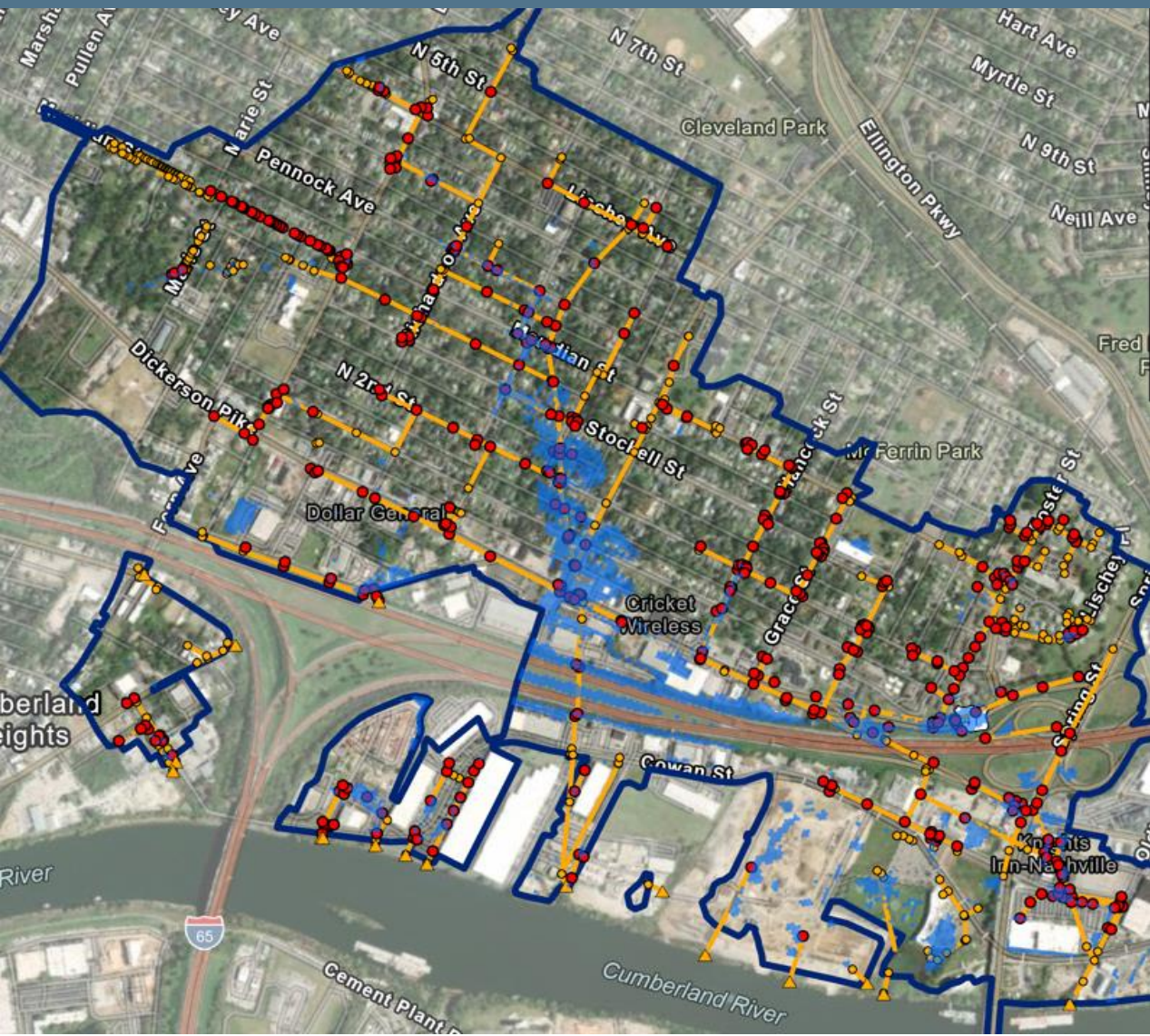


Analysis



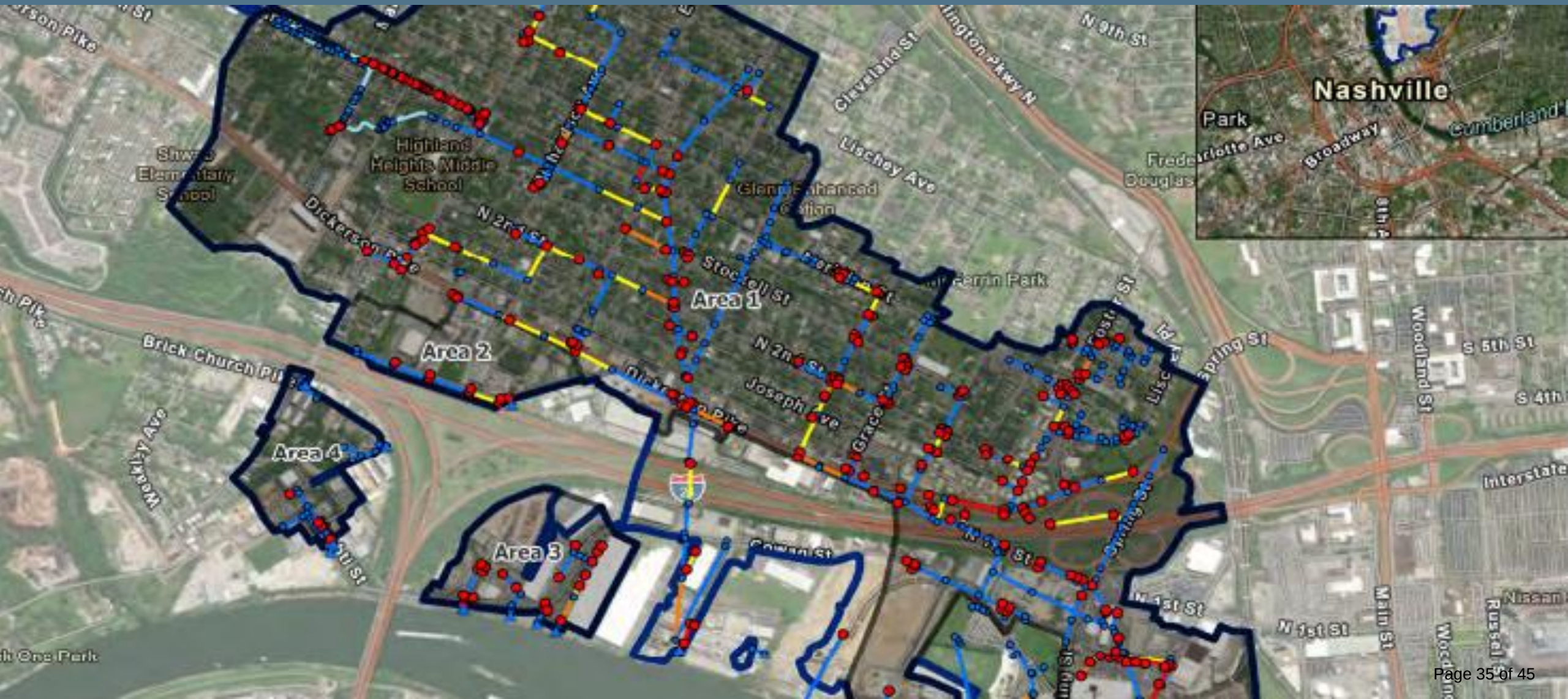


Maps





Project Areas



05

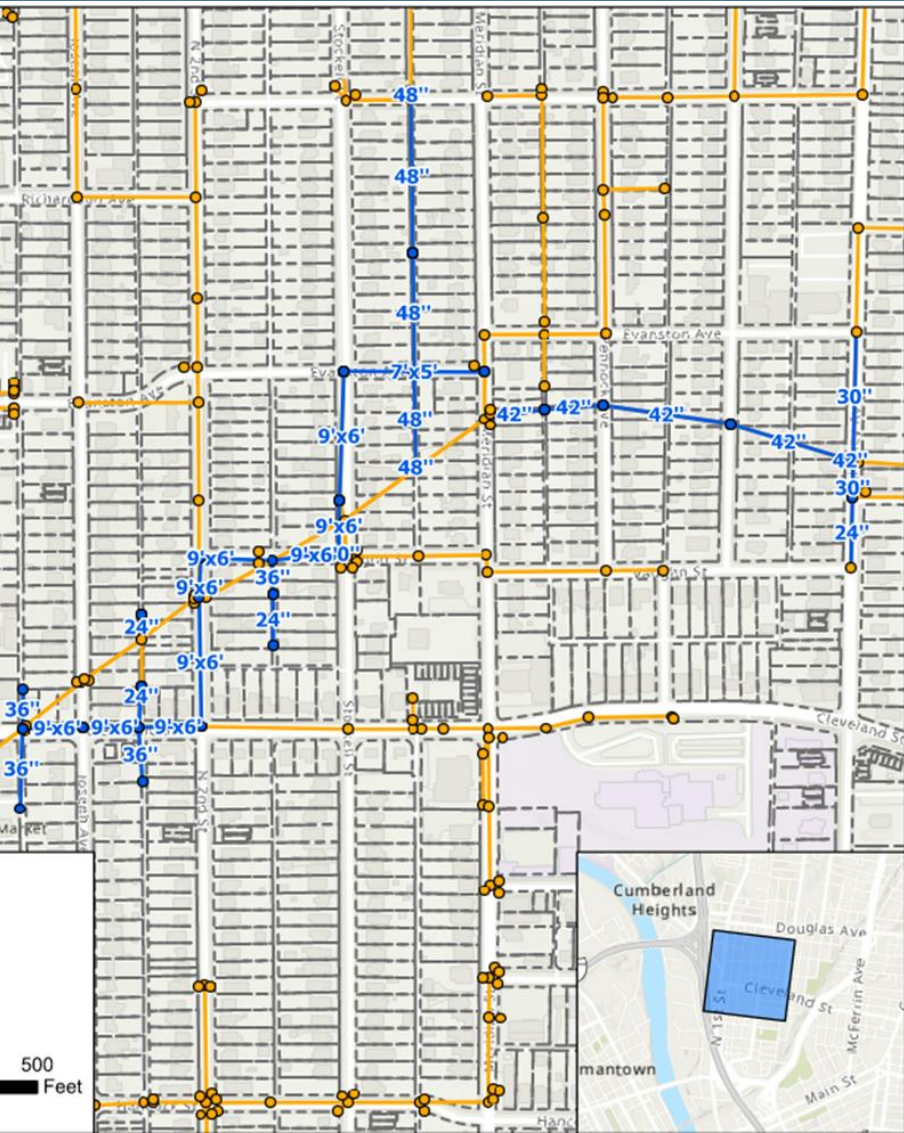
Capital Improvement Plans



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Capital Improvement Plans



East Nashville - Area 2 Alternative #1

Upsize 5,075 linear feet (LF) of reinforced concrete pipe (RCP). Install 2,368 LF of new RCP.

Details:

- 559 LF 24" RCP
- 517 LF 30" RCP
- 615 LF 36" RCP
- 1,115 LF 42" RCP
- 2,247 LF 48" RCP
- 416 LF 7x5 RCB
- 1,974 LF 9x6 RCB
- 26 Structures

Benefits:

- Flood Mitigation
- Improved Safety
- Road Flooding
- Highly Visible Issue
- Improved Resiliency
- Reduced Velocities

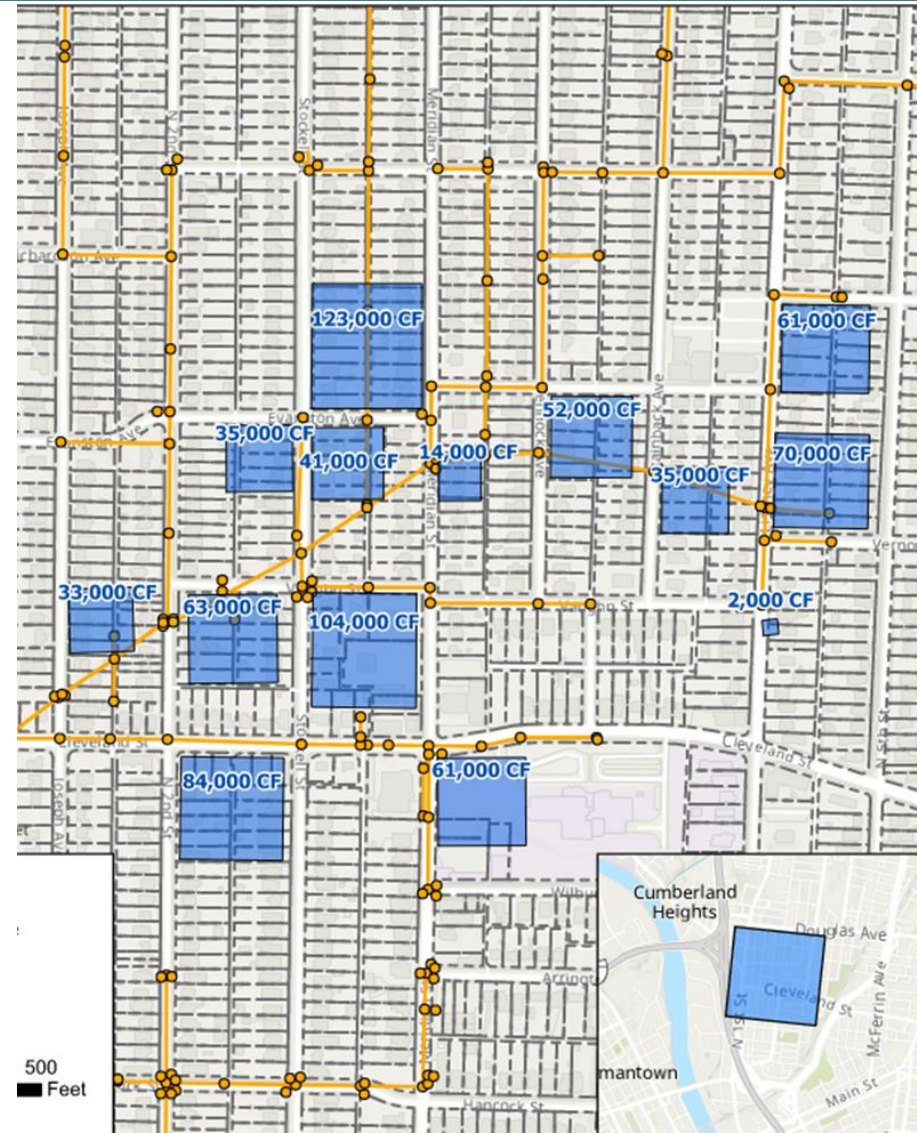
Planning-level Opinion of Probable Project Cost:

\$22,515,000

Potential Easements: (Council District 5)

5 affected parcels

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East Nashville - Area 2 Alternative #2

Provide 778,000 cubic feet (CF) of underground storage around the residential neighborhoods north of Cleveland Street and east of Dickerson Pike.

Details:

- 778,000 CF Storage

Benefits:

- Flood Mitigation
- Improved Safety
- Road Flooding
- Residential Lot Flooding
- Highly Visible Issue

Planning-level Opinion of Probable Project Cost:

\$40,720,000

Potential Easements: (Council District 5)

159 affected parcels

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06

System Improvements



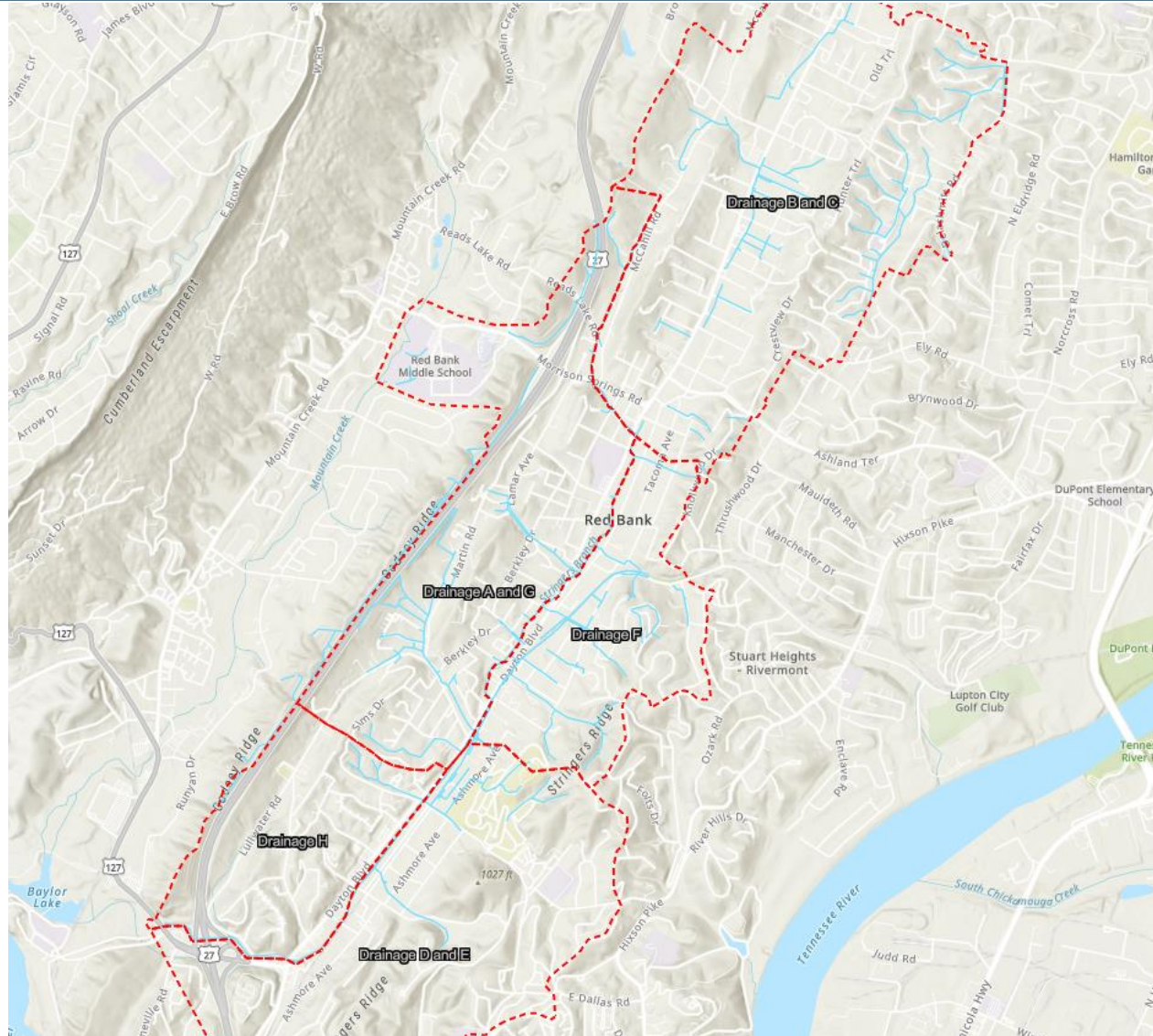
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System Improvements



Schedule



Questions?



CITY OF
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TENNESSEE

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615 3rd Avenue South // SUITE 700
Nashville // TENNESSEE // 37210
Phone // 615-254-1500 // BARGEDESIGN.COM



STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ANDREW JOHNSON TOWER, 5TH FLOOR
710 JAMES ROBERTSON PARKWAY
NASHVILLE, TENNESSEE 37243

BILL LEE
GOVERNOR

RALPH ALVARADO, MD, FACP
COMMISSIONER

Notice of Award

June 6, 2024

Dear Applicants:

Thank you for your application in response to Request for Application (RFA) 34301-17625 Healthy Built Environment Funding Opportunity. The state has completed the evaluation of all applications. All records regarding this RFA are subject to public record.

The following are the applications that were received and considered for grant award:

City of Cleveland
City of Columbia
City of Red Bank
City of Sevierville
Clay County
Cocke County Cradle to Career Coalition
Knox County dba Knox County Health Department
Lewis County Government, Tennessee
Metropolitan Government of Nashville-Davidson County
Obion County Schools
Play Where You Stay
Tennessee Department of Environment & Conservation
Town of Decatur

This notice is NOT a guarantee of funding. The state retains the right to reject any application. This notice shall NOT create rights, interests, or claims of entitlement in the above-named or any applicant. No applicant shall acquire any such right unless and until a contract is fully signed by the contract parties and approved, in accordance with applicable Tennessee laws and regulations as indicated within the RFA proforma contract.

We appreciate your interest in doing business with the State of Tennessee and hope that you will respond to future solicitations.

Sincerely,

Ralph
Alvarado MD,
FACP
Ralph Alvarado, MD, FACP
Commissioner

Digitally signed by
Ralph Alvarado MD,
FACP
Date: 2024.06.05
13:00:38 -05'00'



Payment terms are 30 days from invoice date unless otherwise agreed upon in writing. Remit to:
Cummins Sales and Service
PO Box 772639
Detroit, MI 48277-2639

CHATTANOOGA TN BRANCH
1509 EAST 26TH STREET
CHATTANOOGA, TN 37407-
(423)6291447

REPRINT

INVOICE NO
A5-77821
TO PAY ONLINE LOGON TO customerpayment.cummins.com

BILL TO

CITY OF RED BANK WHITE OAK
3105 DAYTON BLVD
RED BANK, TN 37415-

RANDY BELL - 423 802-8451

PAGE 1 OF 2

*** CHARGE ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
05-JUN-2024	.	28-SEP-2004	ISC CM850		SPARTAN
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
1157782		04-JUN-2024	46394487		3D8ME
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
141763	UL755		93236		1

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
OSN/MSN/VIN		4S7HU2B984C047875					
COMPLAINT		CHECK FOR HIGH BLOWBY					
CAUSE		ORIGINAL WO # 141447 INV # A5-77503 CUSTOMER APPROVED FOR LINE OF CREDIT- REBILL \$20497.86 HIGH BLOWBY 25+					
CORRECTION		ROAD TESTED TO VERIFY HIGH BLOW-BY. HAD OVER 24 INCHES. TROUBLESHOOTING AND GOT OK TO DISASSEMBLE FOR INSPECTION. REMOVED CYLINDER KITS AND FOUND BROKE RING ON #6 CYLINDER DAMAGING CYLINDER, PISTON, INJECTOR, AND HEAD. MADE A QUOTE FOR A REBUILD. CLEANED AND INSPECTED ALL PARTS, AND BLOCK. REASSEMBLED WITH NEW LINERS, PISTONS, HEAD, ONE INJECTOR, BEARINGS AND GASKETS AS NECESSARY. RAN AND CHECKED.					
COVERAGE		CUSTOMER BILLABLE					
REMARK		CA497 LAST SAVED : 08 MAY 2024 03:10:32 PM EDT WAITING ON PISTONS. ETA UNKNOWN AT THIS TIME.					
		UL755 LAST SAVED : 03 MAY 2024 01:36:21 PM EDT RANDY BELL APPROVED QUOTE IN THE AMOUNT OF 20459.38					
		CA497 LAST SAVED : 03 MAY 2024 01:12:06 PM EDT EMAILED RANDY ESTIMATE TO REPAIR. \$20459.38					
		UL755 LAST SAVED : 02 MAY 2024 02:30:05 PM EDT RANDY BELL APPROVED REQUEST TO PULL #6 PISTON AS THAT IS THE					

Billing Inquiries? Call (877)480-6970

THERE ARE ADDITIONAL CONTRACT TERMS ON THE REVERSE SIDE OF THIS DOCUMENT, INCLUDING LIMITATION ON WARRANTIES AND REMEDIES, WHICH ARE EXPRESSLY INCORPORATED HEREIN AND WHICH PURCHASER ACKNOWLEDGES HAVE BEEN READ AND FULLY UNDERSTOOD.

AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____



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Cummins Sales and Service
PO Box 772639
Detroit, MI 48277-2639

CHATTANOOGA TN BRANCH
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PAGE 2 OF 2

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1157782		04-JUN-2024	46394487		3D8ME
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
141763	UL755		93236		1

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
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OSN/MSN/VIN

4S7HU2B984C047875

SUSPECTED PROBLEM AREA- WILL UPDATE HIM WITH FINDINGS

UL755

LAST SAVED : 02 MAY 2024 08:59:55 AM EDT
RANDY BELL APPROVED LABOR TIME TO PULL CYLINDER HEAD FOR FURTHER
INSPECTION/ DIAGNOSTIC

PARTS:	0.00
PARTS COVERAGE CREDIT:	0.00CR
TOTAL PARTS:	0.00
SURCHARGE TOTAL:	0.00
LABOR:	6,651.10
LABOR COVERAGE CREDIT:	0.00CR
TOTAL LABOR:	6,651.10
MISC.:	13,846.76
MISC. COVERAGE CREDIT:	0.00CR
TOTAL MISC.:	13,846.76
MISCELLANEOUS	13,846.76
LOCAL	0.00

Billing Inquiries? Call (877)480-6970

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SUB TOTAL: 20,497.86

TOTAL TAX: 0.00

TOTAL AMOUNT: US \$ 20,497.86

AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____