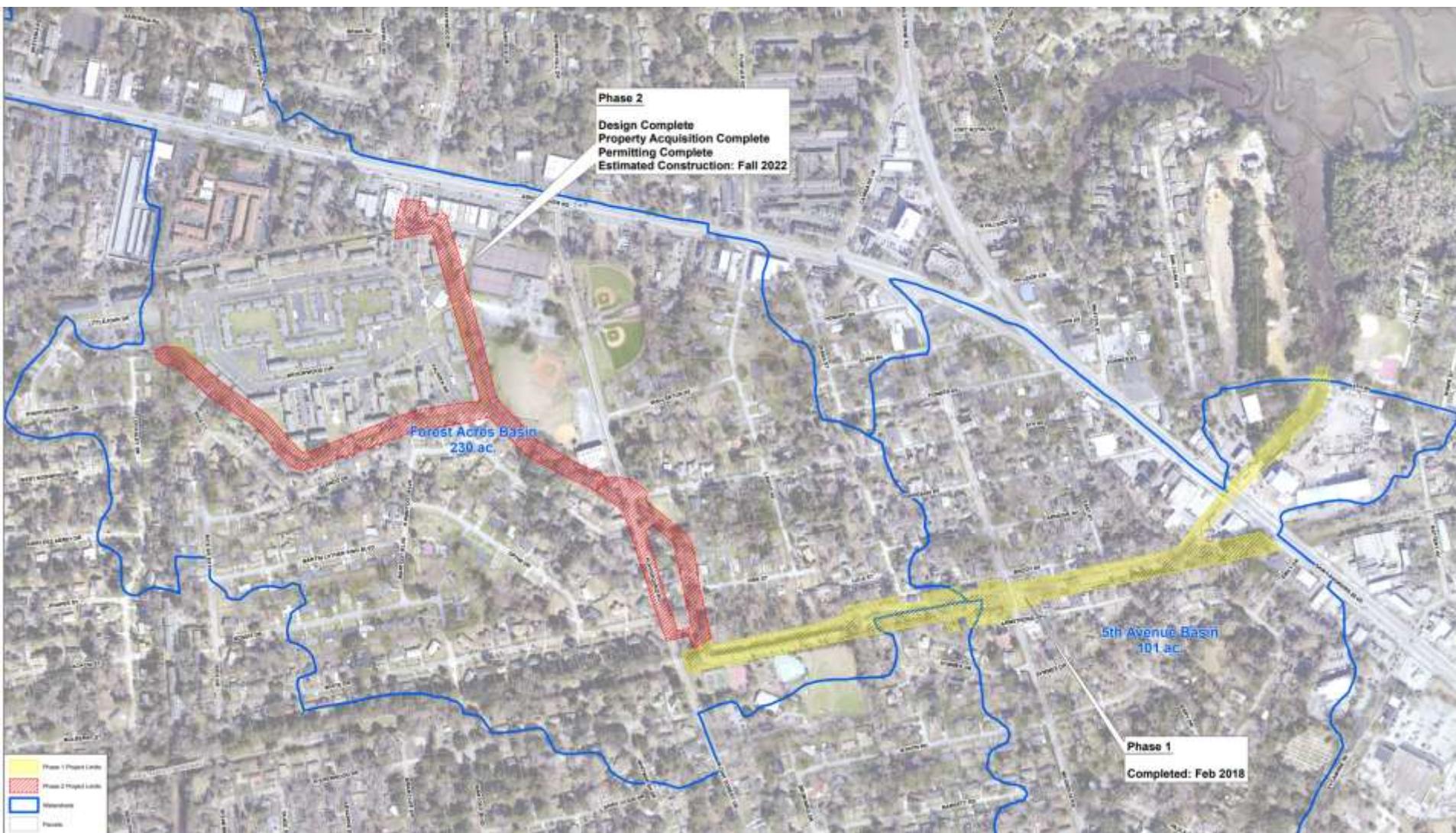


# City of Charleston West Ashley Stormwater Project Updates

WARC  
MARCH 2023



# Forest Acres Drainage Improvement



# Forest Acres Drainage Project

~\$11M CONSTRUCTION PROJECT –  
PHASE 2

CONSTRUCTION STARTED FALL 2022

COMPLETED TREE REMOVAL,  
WATER/SEWER RELOCATIONS, UTILITY  
RELOCATIONS IN PROGRESS

DRAINAGE INFRASTRUCTURE  
INSTALLATION PLANNED TO START  
SPRING 2023

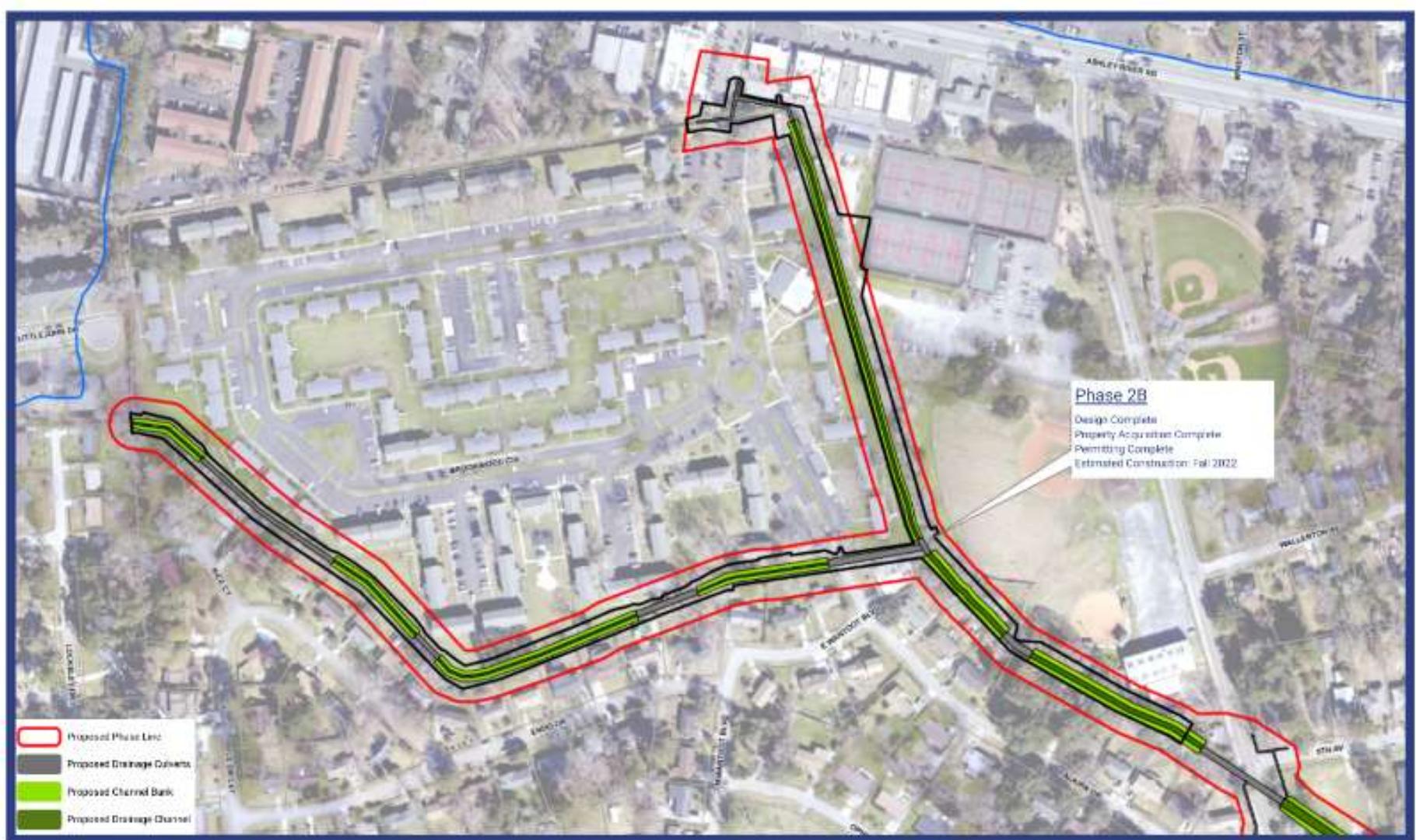
PHASE 2A COMPLETED LATE 2023



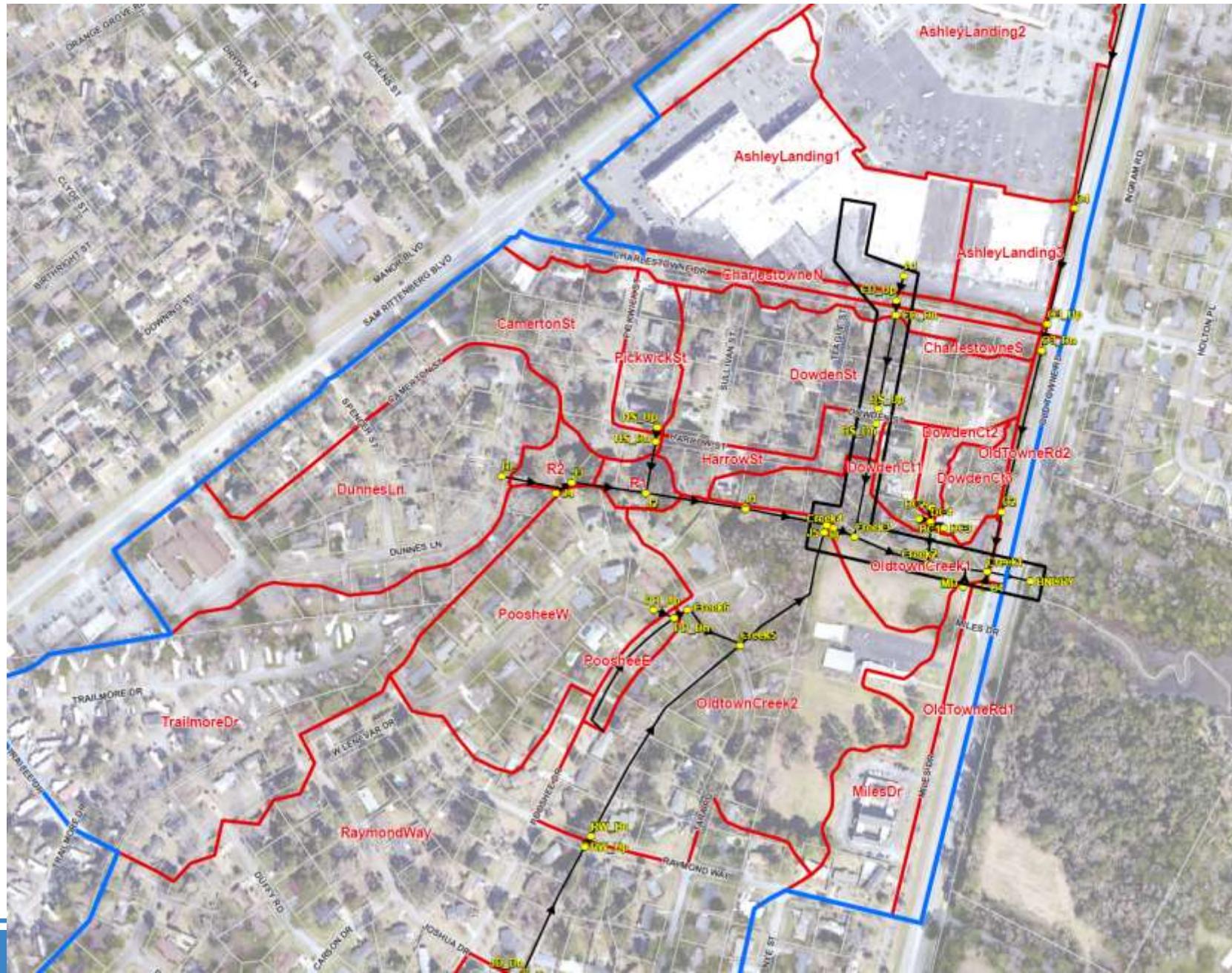
# Forest Acres Drainage Project



# Forest Acres Drainage Project



# Dowden Area Project Update



# Dowden Area Project Update

## SMALL PROJECT ALLOCATION

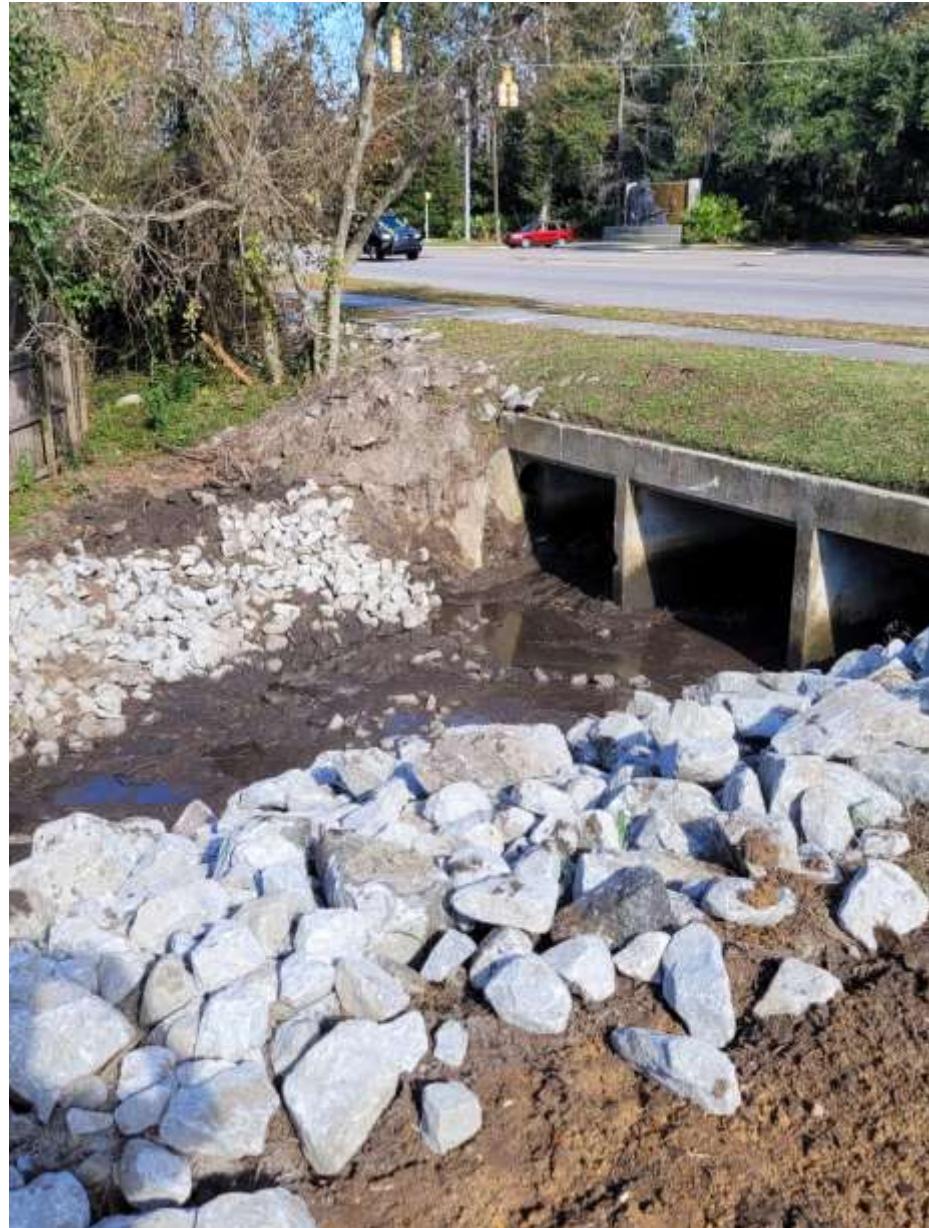
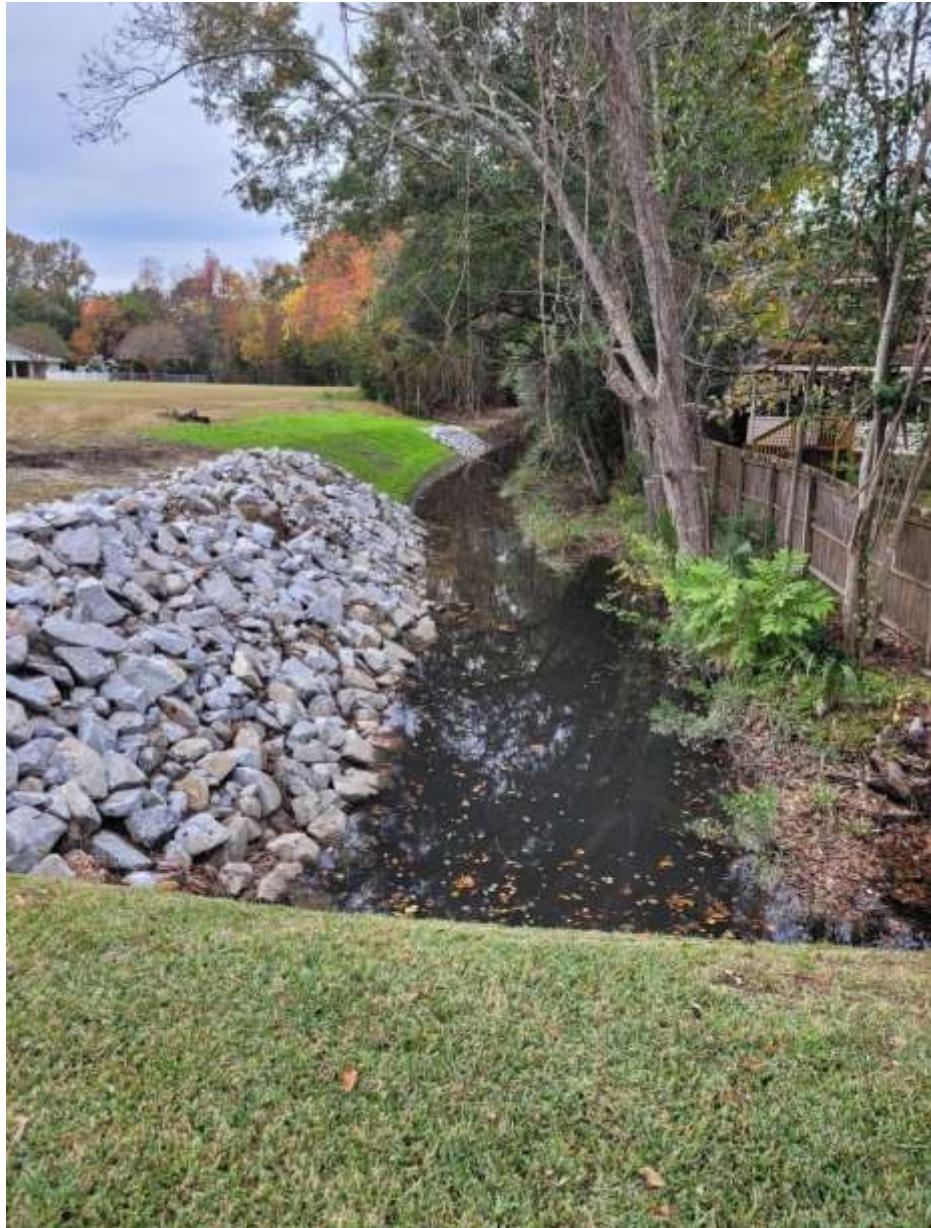
HISTORY OF ROAD AND PROPERTY FLOODING AND  
SANITARY SEWER OVERFLOWS

CONSULTANT DESIGN & SURVEY  
(THOMAS AND HUTTON)

CITY FIELD OPERATIONS CONSTRUCTION  
REALIGN CANAL, RESTORE PIPE SYSTEMS

COORDINATED WITH CWS – BUILDING NEW SEWER  
LIFT STATION ADJACENT TO CITY DRAINAGE WORK

# Dowden Area Project Update



# East/West Oak Forest Drainage Plans



# East/West Oak Forest Drainage

## Oak Forest at Keats

- **2 residential flood damaged properties acquired by the City with Federal Grants**
- **Construction projects following in Fall 2023 to retrofit properties to hold more stormwater and plant them with low maintenance native vegetation**



# East/West Oak Forest Drainage

## Shelley Road

- **1 residential flood damaged properties acquired by the City with Federal Grants**
- **Construction project following in Fall 2023 to retrofit property to hold more stormwater, plant it with low maintenance native vegetation and provide improved maintenance equipment access to drainage system on along rear of properties**



# East/West Oak Forest Drainage

## Drainage Artery

Evaluate Improvement Options Based  
on Existing Constrictions

Obtain Drainage Easements

Obtain USACE and Critical Area  
Permits for Canal Maintenance

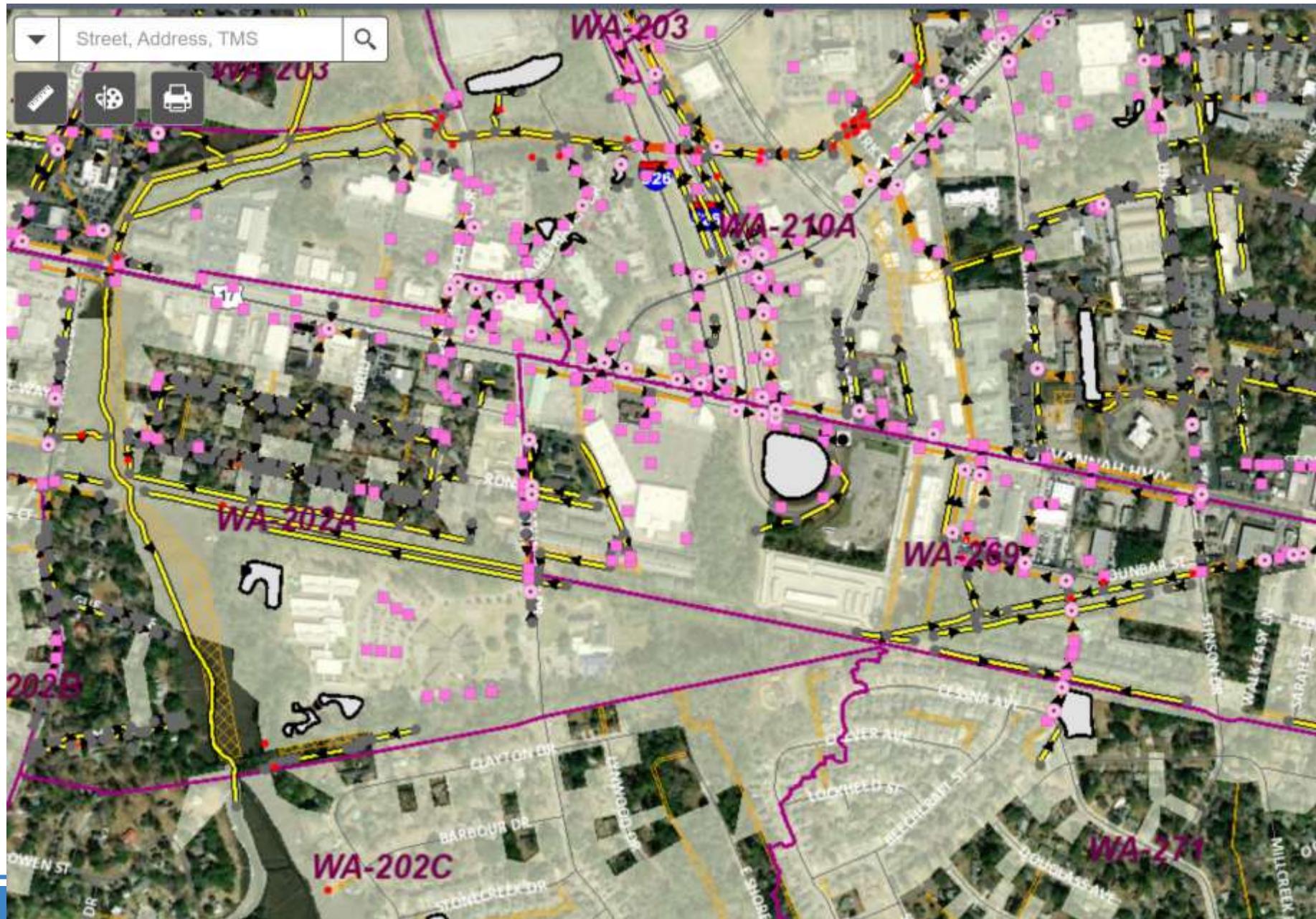
Clean Open Channel System and  
Existing Pipes

Obtain USACE and Critical Area  
Permits for Pipe Replacement/  
Improvement

Repair/Replace Driveway Pipe  
Crossing and Clean/Improve  
Greenway Pipe Crossing and  
Potentially Improve US17 Crossing



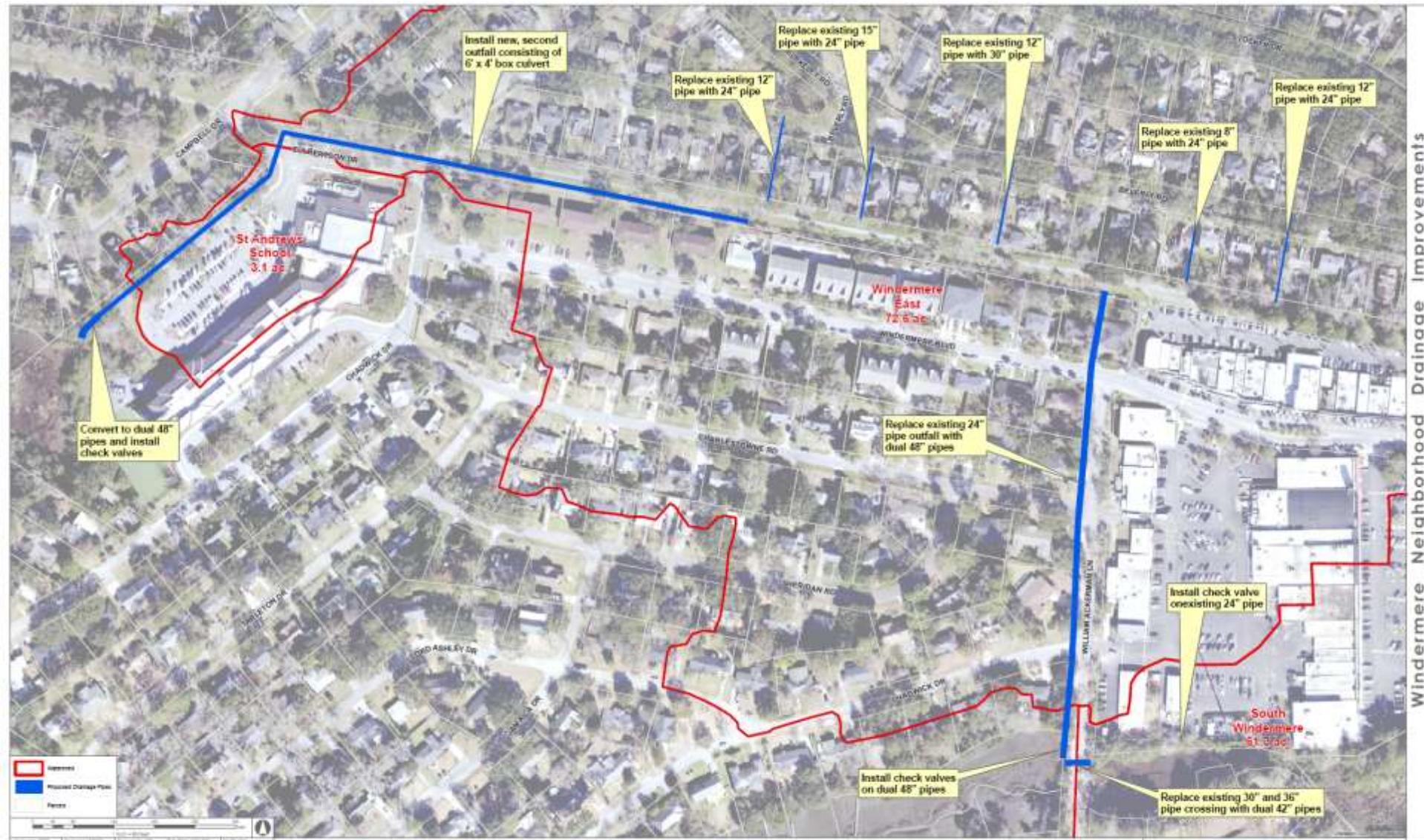
# Citadel Woods/Wildwood Update



# Citadel Woods/Wildwood Update



# Windermere Project Update



## Windermere Neighborhood Drainage Improvements

City of Charleston, SC

### Conceptual Improvements

City of Charleston



Charleston, South Carolina

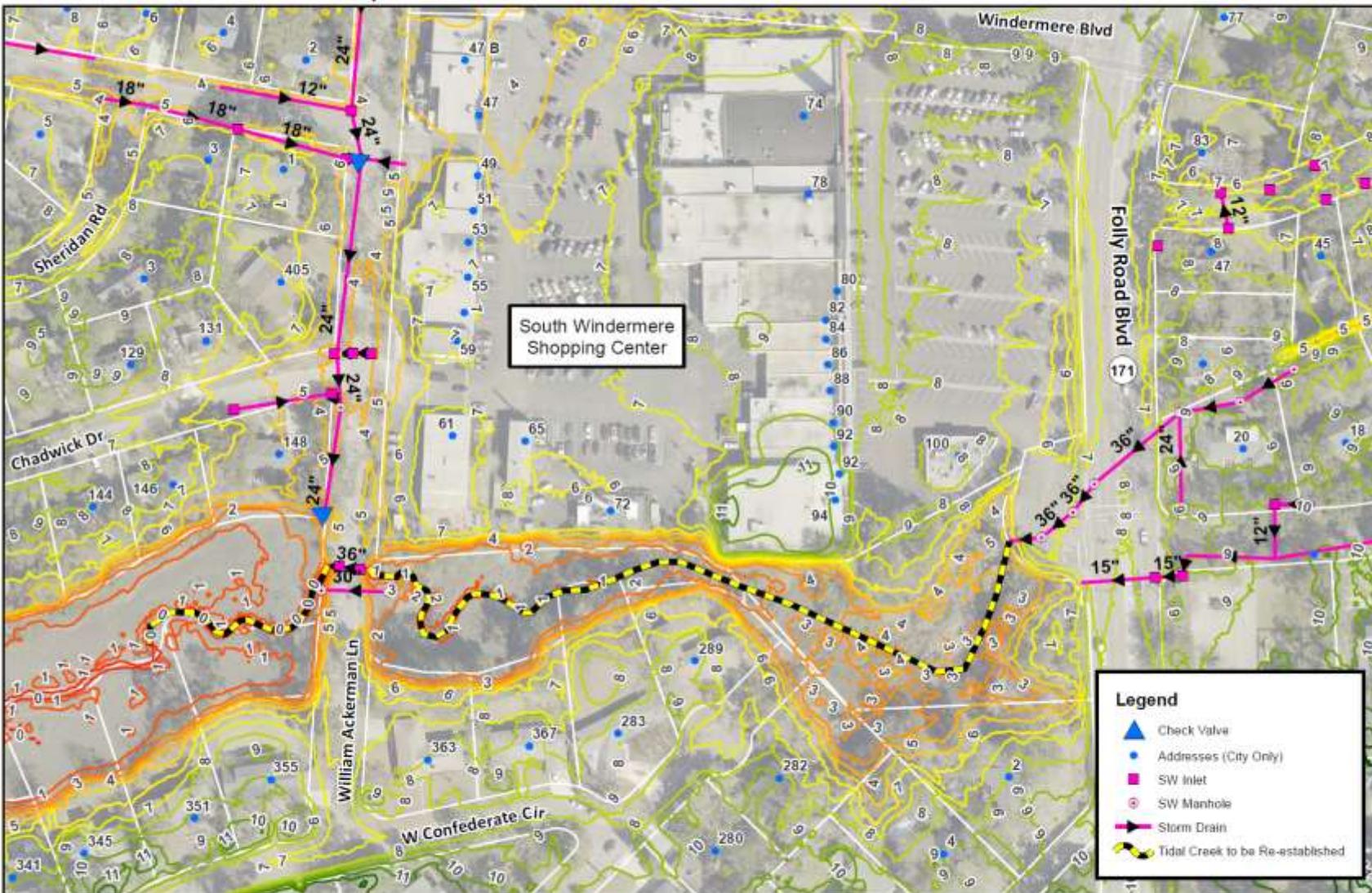


680 JOHNNIE BOODOO BLVD • SUITE 100  
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[WWW.TOMASANDMERTON.COM](http://WWW.TOMASANDMERTON.COM)

GEOGRAPHIC INFORMATION SYSTEMS  
gis@tomm.com • Thomas & Merton

# Outfall Cleaning

## South Windermere Outfall Improvement



CITY OF CHARLESTON  
**STORMWATER  
MANAGEMENT**

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City of Charleston  
Department of Stormwater Management  
1 George St., Suite 2500  
Charleston, SC 29401  
[www.charleston-sc.gov](http://www.charleston-sc.gov)

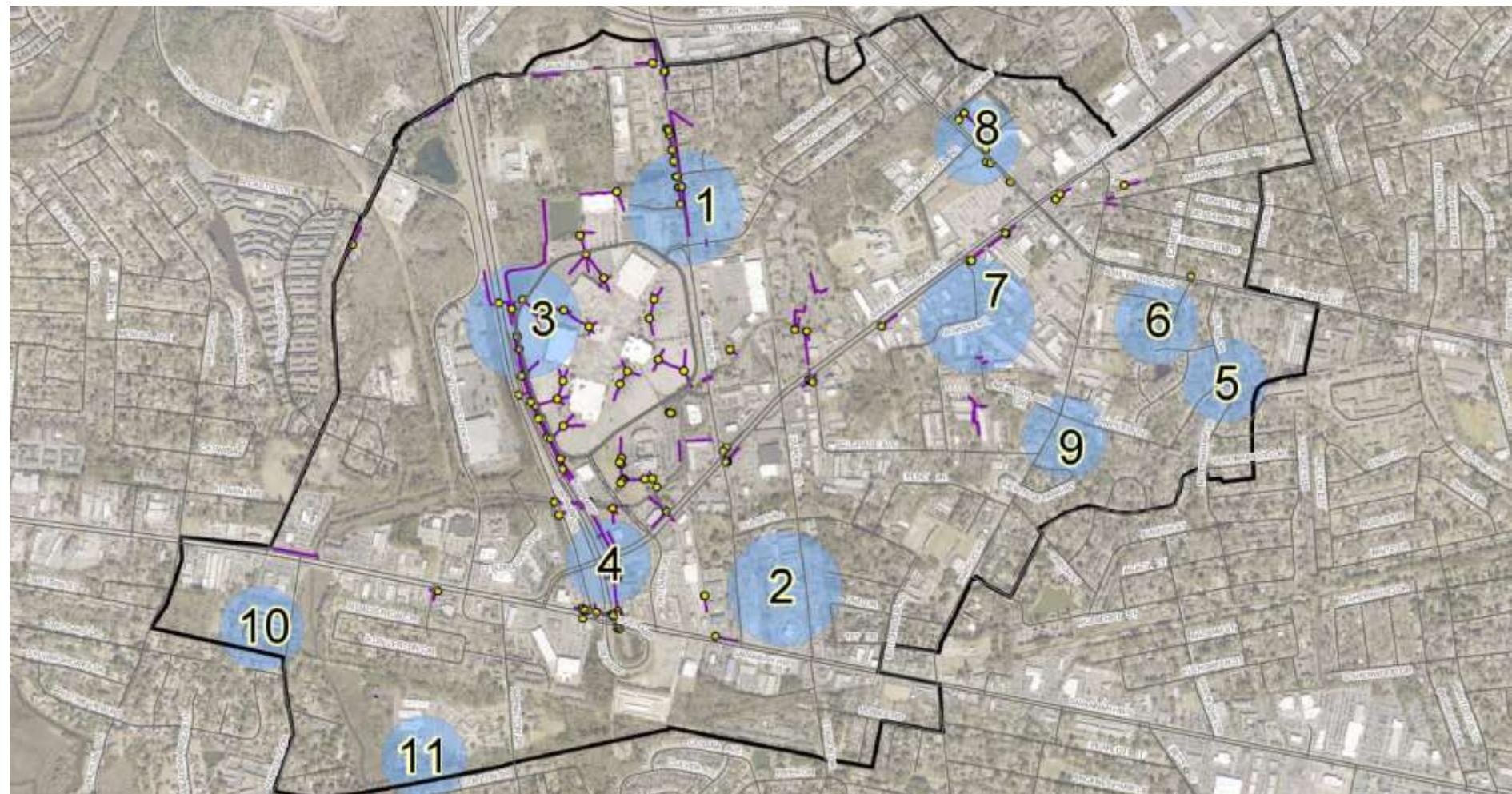
150 75 0 150 300  
Feet

Date: 4/28/2021

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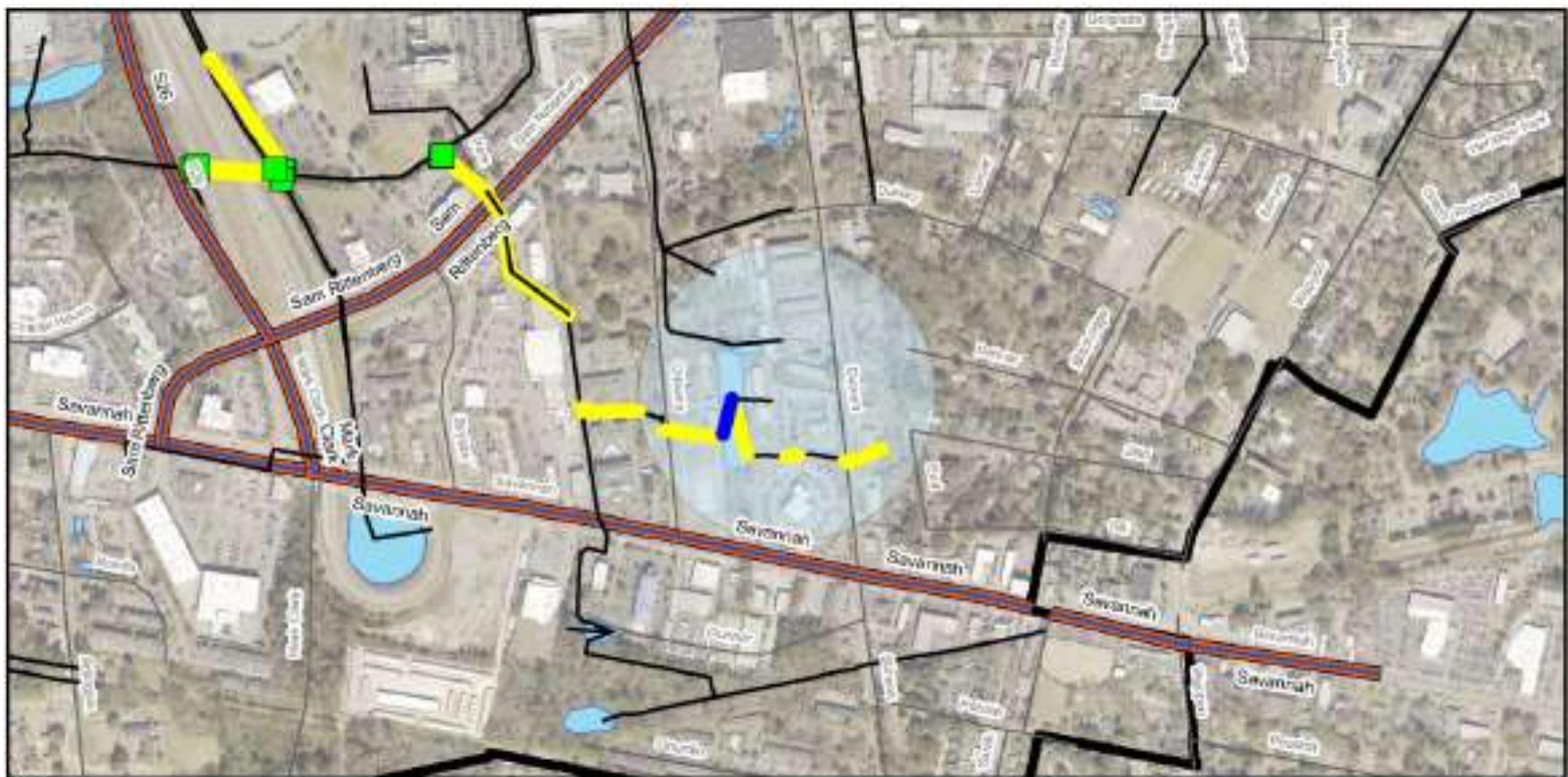
# Dupont Wappoo Drainage



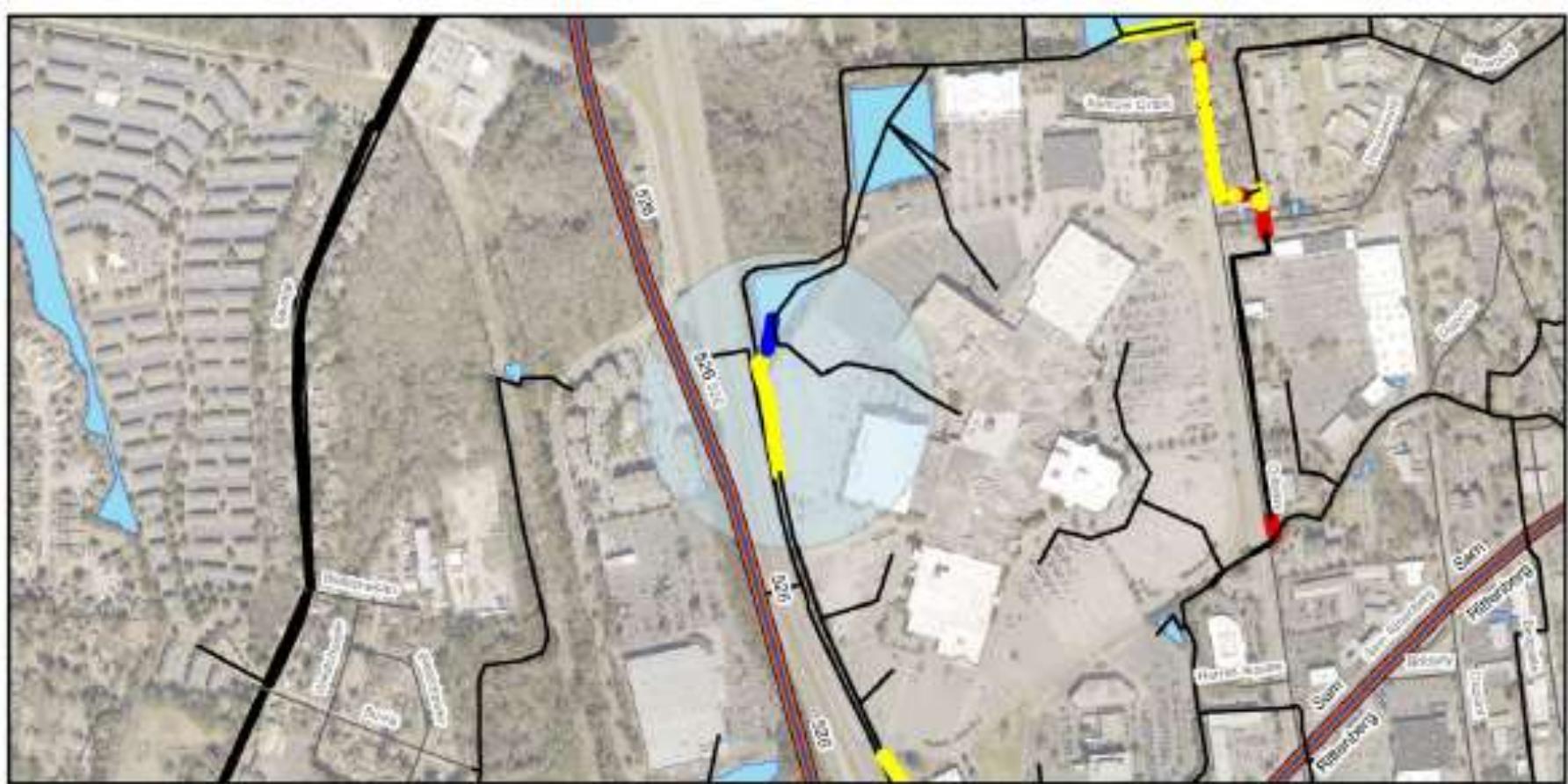
# Area 1



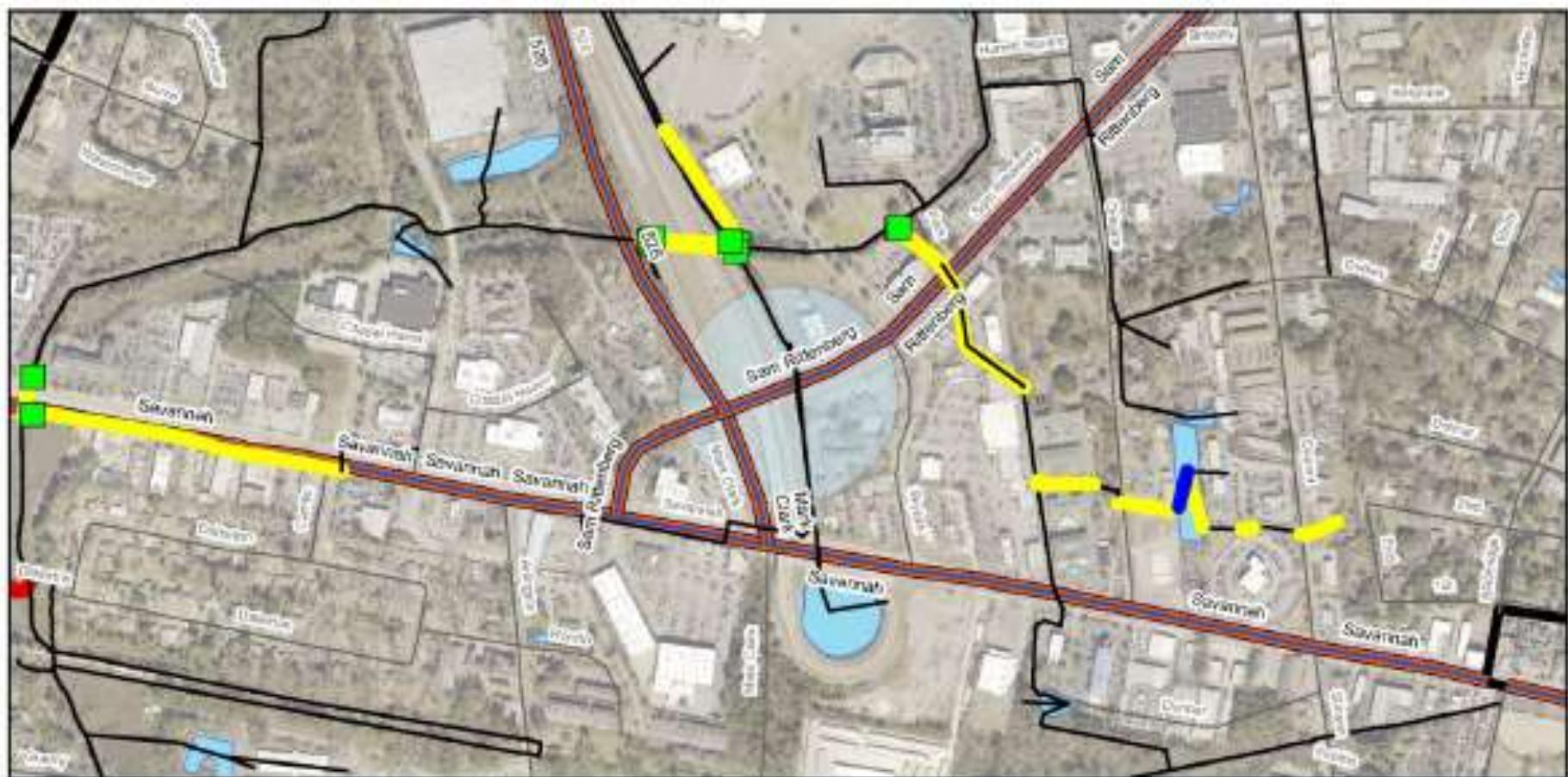
# Area 2



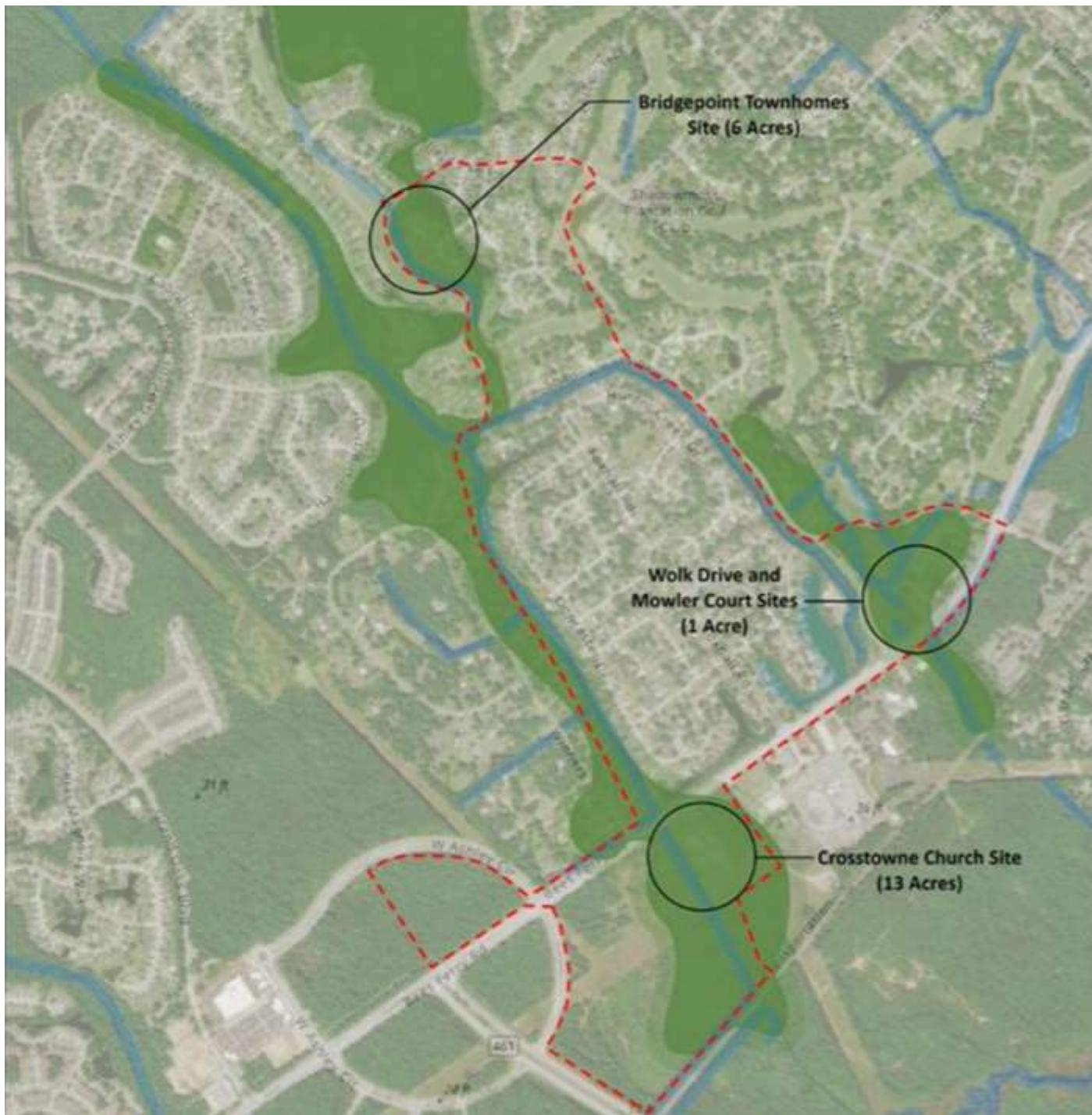
# Area 3



# Area 4



# Church Creek Flood Storage



# Church Creek – Bridge Pointe



# Church Creek – Mowler Ct / Wolk Dr



# SW Development Regulations

ASSESS IMPACTS OF PROJECT ON THE WATERSHED

REQUIRE UNDEVELOPED PROPERTIES IN BASINS WITH  
FLOODING TO DEMONSTRATE NO NEGATIVE IMPACTS  
FROM DEVELOPMENT

REQUIRE DEVELOPED PROPERTIES IN BASINS WITH  
FLOODING TO COME AT LEAST PARTIALLY INTO  
COMPLIANCE WITH CURRENT STANDARDS

ALSO VALUATION BASED REDEVELOPMENT ACTIVITY THAT  
INCLUDES WORK INDEPENDENT OF TRADITIONAL LAND  
DISTURBANCE REQUIREMENTS