



SELECTED ALTERNATIVE PUBLIC MEETING







Edgewater-Rosecrest Storm Drainage Improvement Project

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WELCOME AND INTRODUCTIONS

Charlotte-Mecklenburg Storm Water Services (CMSWS)

Shawn McDonald – Project Manager Phone - 704-432-0963 Email – shawn.mcdonald@charlottenc.gov

Doug Lozner – Watershed Area Manager

LaBella Associates

Robby Wayne - Senior Project Manager





HOUSEKEEPING

- Sign-In Sheet
- Customer Service Comment Cards

 Time is available for Question and Answer periods after Presentation





MEETING PURPOSE

Purpose

- Provide a summary of the history and proposed improvements
- Present and explain the remaining project milestones
- Request input from property owners/residents on proposed improvements





AGENDA

- Charlotte-Mecklenburg Storm Water Services (CMSWS)
- Project History
- City's Proposed Improvements
- Future Project Milestones
- General Questions and Answers
- Break-Out Groups





CHARLOTTE-MECKLENBURG STORM WATER SERVICES (CMSWS)

- Public Utility started in 1993
- Funded by Storm Water Fee
- Goals Related to this Project
 - Address storm drainage issues such as road and structure flooding
 - Improve storm drainage infrastructure
- Design Management Team
 - Works on repairs and other minor storm drainage issues
 - Issues reported through 311 Citizen Service Requests
 - To meet program eligibility requirements, must include public street runoff and the type of drainage concern must qualify for assistance
- Engineering Team
 - Works on larger project areas
 - Multiple or large storm drainage issues exist
 - Issues can not be addressed with minor repairs/replacements





STORM DRAINAGE IMPROVEMENT PROJECT PHASES

PLANNING (Done)

- Existing Conditions Analysis Finding the Problems
- Alternatives Analysis Developing Alternative Improvements
- Proposed Alternative Test Proposed Improvements

DESIGN (Typically 21 to 34 months)

• Designing the Improvements

PERMITTING (Typically 3 to 9 months, but overlaps the Design Phase)

• Federal, State, and Local Approvals

EASEMENT ACQUISITION (Typically 9 to 12 months)

BID & AWARD (Typically 7 to 8 months)

CONSTRUCTION (Up to 2 years)





PROJECT HISTORY

Why was the Edgewater-Rosecrest area chosen?

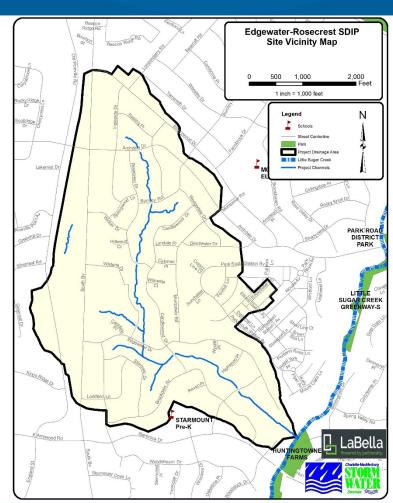
- Requests for Service from Property Owners
 - Inadequate and Deteriorating Infrastructure
 - Road and Structure Flooding
 - Old culverts, pipes, inlets
 - Sink Holes
 - Erosion, blockages in channels
- Larger watershed-wide issues that cannot be managed by spot repairs or without potentially impacting downstream properties





STUDY AREA

- 472 acres
- Bounded by:
 - Emerywood Drive (north)
 - Starbrook Drive (south)
 - Park South Station Development (east)
 - Old Pineville Road (west)
- System Length
 - 40,000+ feet of drainage system







IMPROVEMENT ALTERNATIVES



1. Public Safety



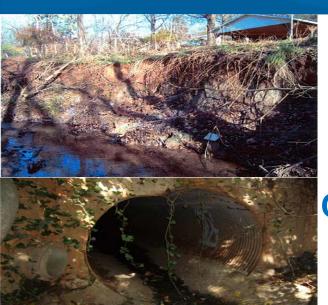
3. Public Cost







PROPOSED IMPROVEMENTS



Improvements Include:

Culvert Replacement

Pipe Systems

Channel Stabilization

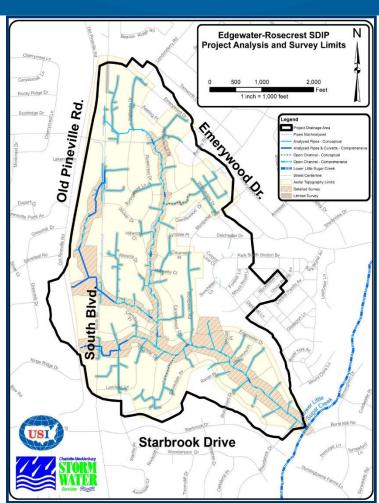






ANALYSIS

- Hydrologic Analysis
 - How much storm water runoff?
 - Existing Conditions
 - Future Conditions
- Hydraulic Analysis
 - How is the existing system performing under current City Design Standards (CDS)?
 - Existing Infrastructure
 Condition (Age and Condition)
 - Potential for Road & Structure Flooding (Level of Service)
 - Channel Erosion & Instability
 - Downstream Impacts





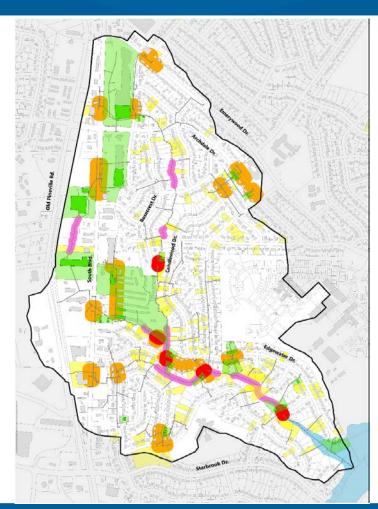


EXISTING CONDITIONS RESULTS

Reported Citizen Concerns

Potential Road Flooding

- Culverts
- Roadway Systems
 South Boulevard
 Residential Roads
- Channel Capacity & Instability Concerns
- Potential Structure Flooding

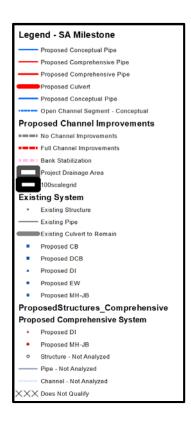




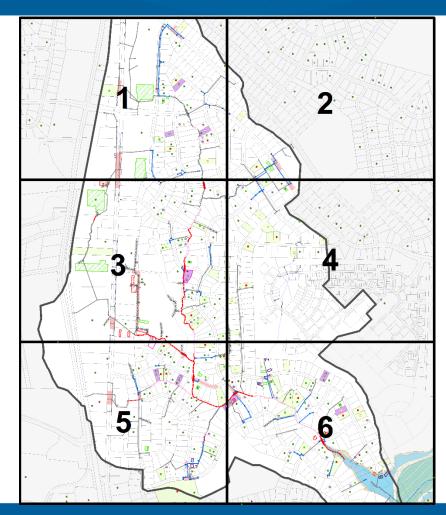


PROPOSED IMPROVEMENTS

Overall System Map

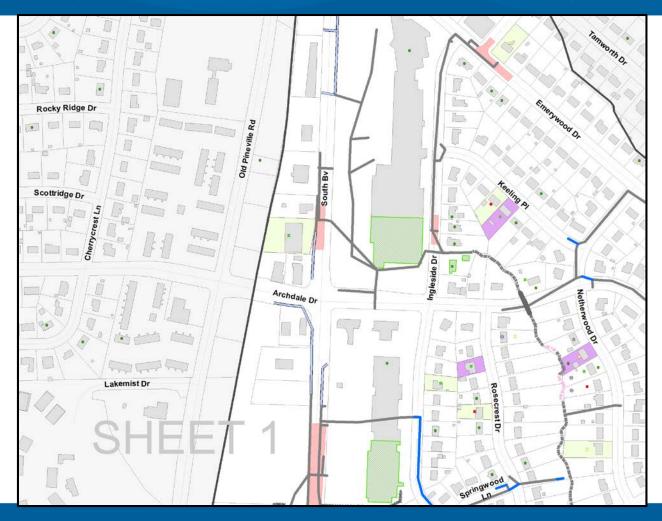






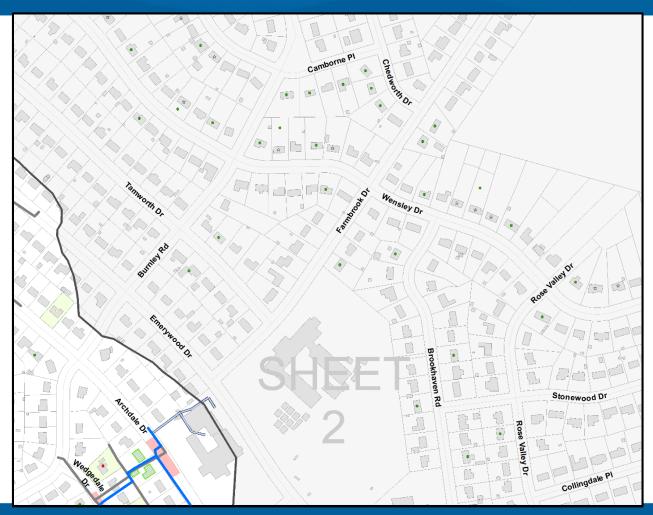






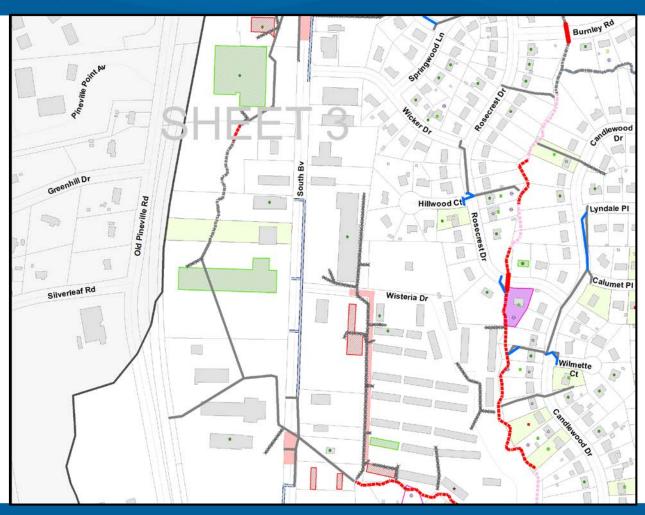












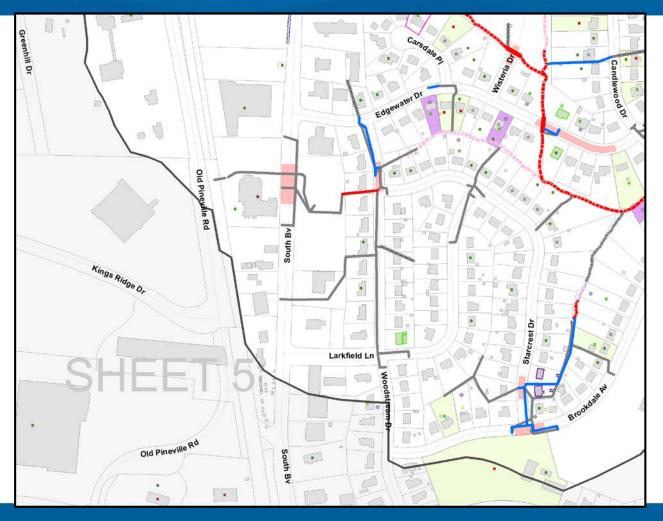






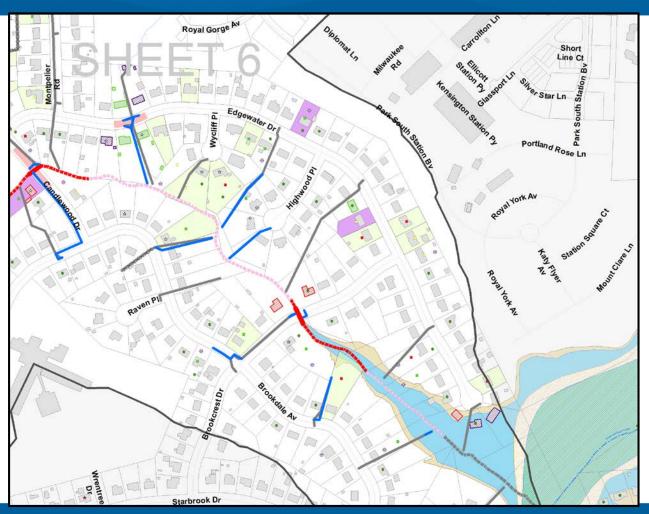
















NEXT STEPS

Design

- Preparation of construction documents (plans, cost estimate, etc.)
- Additional survey data collection

Permitting

- 401/404 Permits
- Erosion Control Permit
- Floodway Encroachment
- Stormwater Regional General Permit

Easement Acquisition

City will ask property owners for easements to construct and maintain improvements





NEXT STEPS

- Bid
 - The City advertises the project for bid and the contract is awarded by City Council
- Construction
 - The selected contractor builds the Improvements





WHAT WE NEED FROM YOU

- Feedback on the proposed improvements
- Support for the Project's future phases
 - Design
 - Easement Acquisition
 - Construction





CONCLUSION

Please Remember:

- Sign-In Sheet
- Customer Service Comment Cards

The Team will be available after the General Question & Answer period to discuss specific questions and receive input

Thank You for Coming to the Meeting Your Input is Appreciated!





BREAK-OUT GROUPS

