Richland County, SC

Danbury Basin Improvements

• Synithia Williams, Stormwater General Manager
• Cynthia Kestner, Capital Projects Manager
• Yvonne McBride, Councilwoman

P.J. Noble and Associates, Inc.
• Pat Noble, President and CEO

Woolpert, Inc.
• Crystal Muller, PE, Project Manager
• Hal Clarkson, PE, CFM, Project Director

4D Engineering
• Justin Warneke, PE, Project Engineer
• Charlie Depp, PE, LEED AP, President

A Group Effort….

> Purpose
> What causes flooding
> Your Neighborhood
> Current Status
> Ways to Help
> Questions

6/25/2019
AGENDA:

- Purpose of meeting
- Causes of flooding
- Your neighborhood
- Current status
- Ways to help
- Questions?

Purpose

- What causes flooding
- Danbury Drive area experiences localized flooding during rain events

Discuss the County plan to reduce the depth and frequency of flooding

Discuss ways everybody can help reduce flooding

Explain drainage systems and causes of flooding
Purpose

What causes flooding

Your Neighborhood
Current Status
Ways to Help
Questions

How do communities handle rain?

Curb and Gutters

Outfalls

Ponds

Pipes, ditches, channels

Inlets
What causes flooding:

- The amount of rain
- The amount of recent rain
- The amount of impervious area like rooftops, roads, and other hard surfaces
- The amount of impervious area like rooftops, roads, and other hard surfaces
- Aging pipes
- Overgrown ditches
- Undersized systems
- Increasing flows to the drainage system

Drainage system flooding
Purpose

What causes flooding

Your Neighborhood

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Ways to Help

Questions

Thunderstorm 100% Yearly Chance

10-year 50-year 100-year

10% Yearly Chance

2% Yearly Chance

1% Yearly Chance

Design Storm...

For a 24-hour storm event:

Existing Detention Pond
Purpose > What causes flooding > Your Neighborhood

Current Status

Ways to Help > Questions

Project Components

Pipe Upsizing

Pond Size Increase

Channel Improvements

Pipe Improvements

Utilize existing stormwater pond

Channel Improvements

Pipe Improvements

Construction

Project Team under contract to develop final design and

Funding secured

Aging System

Undersized Infrastructure

Utility Encroachments

Drainage Study Completed

Utility Encroachments

Undersized Infrastructure

Aging System

Funding secured

Pipe Improvements

Channel Improvements

Pond Size Increase

Purpose > What causes flooding > Your Neighborhood

Current Status

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Channel Improvements

Pipe Improvements

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Utility Encroachments

Drainage Study Completed
During Construction

- Individual Property Owner Communications
- County will minimize disruptions
- Be Safe, Keep Workers Safe

Survey and Design
April-August

Project Bidding
August-October

Project Construction
October-April 2020

Current Status Questions

Ways to Help
CONTACT INFORMATION

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 Don’t dump yard debris into channels
 Keep yard waste out of gutters
 Keep inlets clear of leaves and other debris
 Do not allow gutters to discharge into open spaces