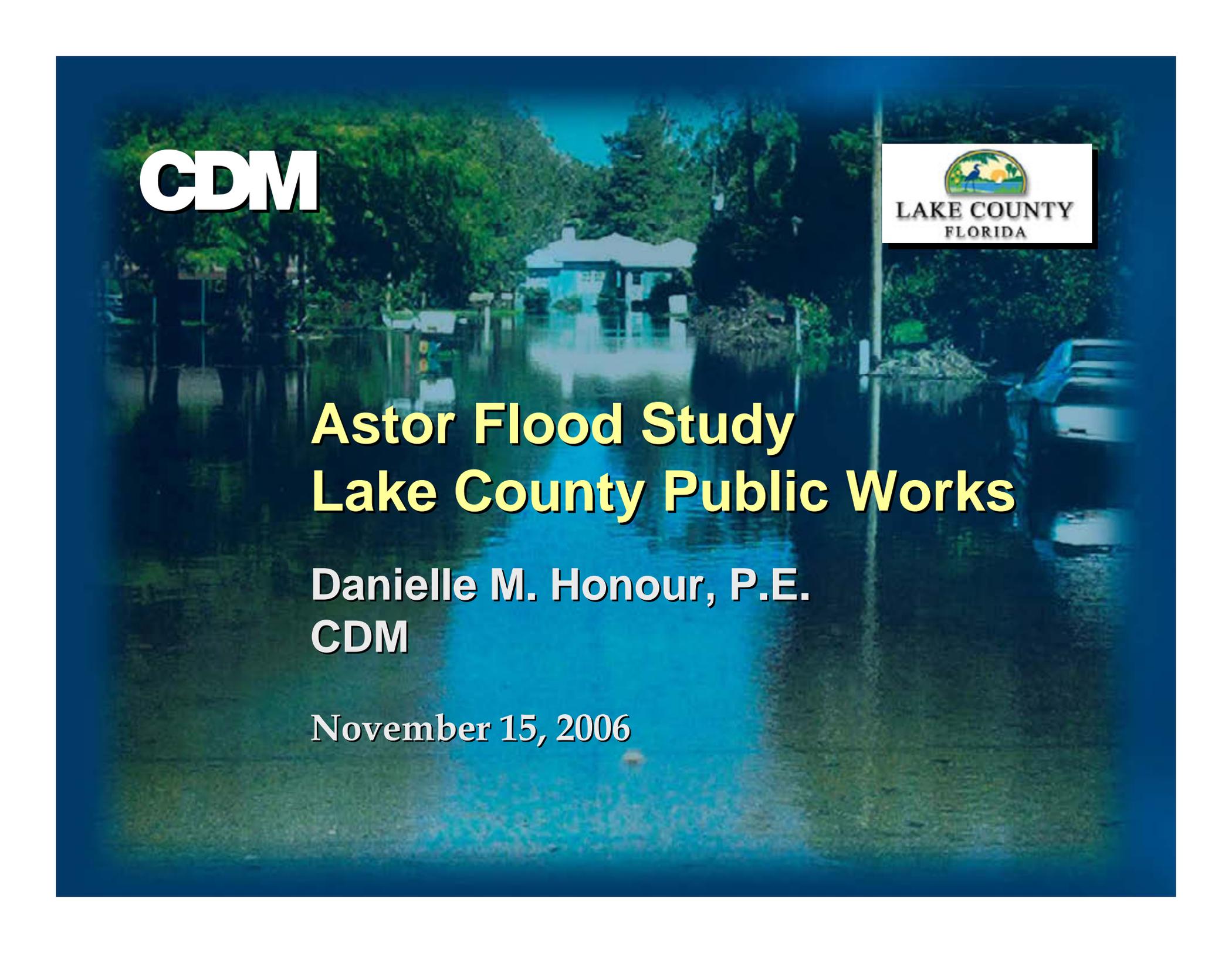




CDM



**Astor Flood Study
Lake County Public Works**

**Danielle M. Honour, P.E.
CDM**

November 15, 2006

Meeting Agenda

- ◆ Introductions
- ◆ Purpose
- ◆ Project Overview
- ◆ Project Schedule
- ◆ Resident Feedback & Comments

Purpose of the Study



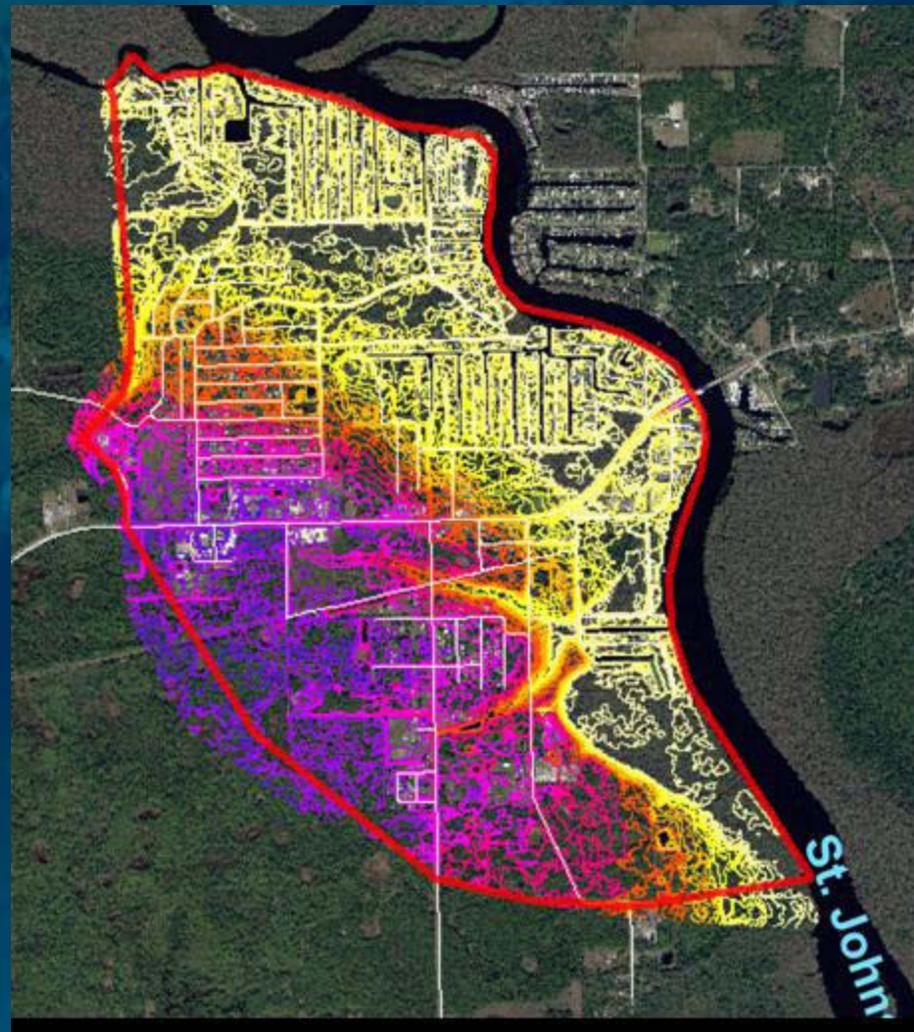
- ◆ Limited Stormwater Infrastructure
- ◆ History of Residential & Street Flooding
- ◆ Study to Identify System Improvements to Address Flooding & Water Quality Issues

Data Review & Evaluation

- ◆ Existing and Future (build-out) Land Use Map
- ◆ Wetlands Map
- ◆ Aerial Topographic Maps
- ◆ Historical Rainfall Data
- ◆ Soils Data
- ◆ Existing Engineering Reports & Studies
- ◆ Historical Flood Complaint Records and Location Map
- ◆ High Water Mark Elevations
- ◆ Flow and Stage Measurements (St. Johns River)

Project Overview

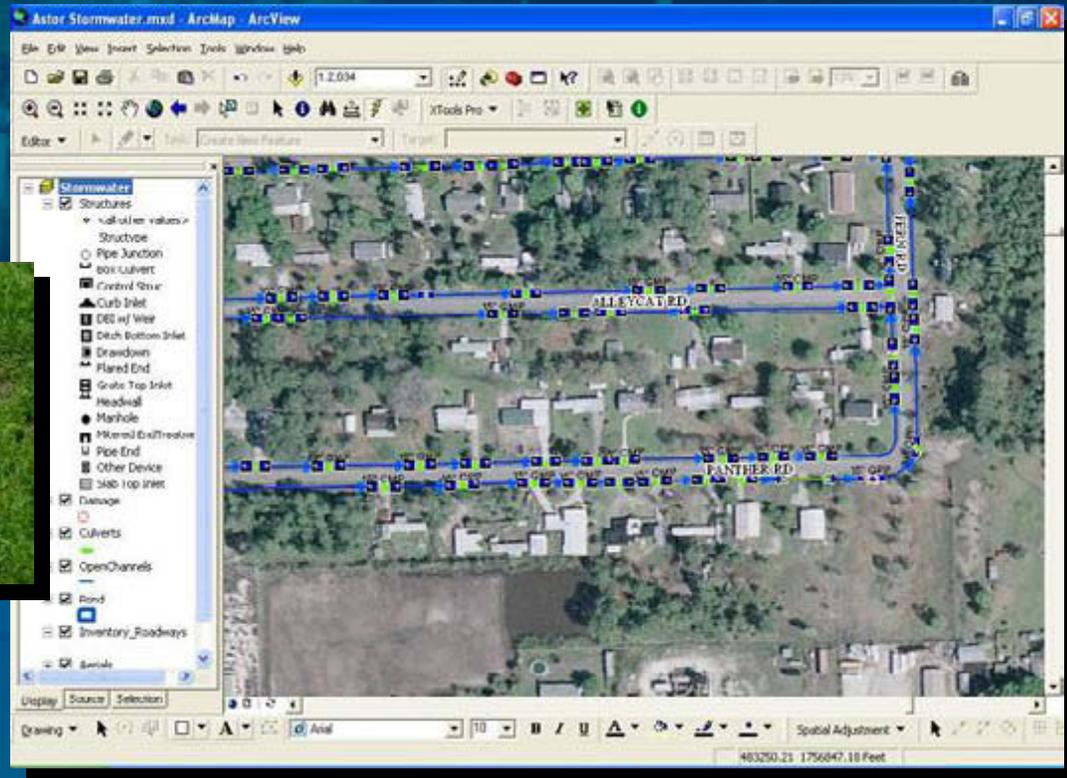
Elevation Data



- ◆ County has recently collected detailed 1-foot topographic contour information for the Astor area

Project Overview

Stormwater System Inventory



- ◆ Southeastern & Survey Mapping Corporation (SSMC)
 - ◆ Culverts
 - ◆ Manholes
 - ◆ Ponds
 - ◆ Curb Inlets
 - ◆ Swales/Ditches
 - ◆ Control Structures

Water Quality Analysis

- ◆ Estimate stormwater-related pollutant loads generated within the Astor limits
- ◆ Pollutants ultimately reach the St. Johns River
- ◆ St. Johns River is considered impaired by the State of Florida for Dissolved Oxygen and Nutrients
- ◆ Help target areas that may require additional stormwater treatment for water quality as well as flooding

Stormwater Needs Evaluation

- ◆ Identify and prioritize the stormwater needs (both flood control and water quality management)



- ◆ Collected data
- ◆ System Inventory
- ◆ Citizen Feedback
- ◆ Water Quality Analysis Results

Evaluation of Alternatives



- ◆ Develop a conceptual improvement plan to address the stormwater management needs of Astor
- ◆ May include a mixture of conveyance and storage improvements and water quality treatment
- ◆ Estimate conceptual project costs
- ◆ Recommend a phased capital improvement plan

Public Participation Program

- ◆ Public Meetings & Public Information Brochure
- ◆ Project Website (currently under development)
- ◆ Lake County Board of County Commissioner (BOCC) Meetings

PUBLIC MEETING

to discuss drainage improvements for Astor community

The Lake County Department of Public Works is hosting a community meeting on Wednesday, Nov. 15, from 6 to 8 p.m. at the Astor Community Center, located at 24148 Ann St., to discuss a flood study with residents of the community.

The study is being conducted by a contracted consultant for the Stormwater Section of the Lake County Engineering Division. Due to the community's limited stormwater infrastructure and history of road and residential flooding, the study will help identify improvements to address these issues.

The community meeting will provide an opportunity for the consultant to explain the scope of the study and for local residents to provide input regarding areas of concern. For more information about this meeting or the Astor Flood Study, call the Lake County Stormwater Section at (352) 483-9080 or e-mail mhamilton@lakecountyfl.gov.

Project Schedule

- ◆ Phase I (current phase) to be completed by June 2007
- ◆ Second Public Meeting - update on the project status and to solicit input on stormwater issues prioritization (early 2007)
- ◆ Third Public Meeting – present the findings (mid 2007)



Your Feedback is Most Important!

- ◆ Please sign in on the sign-in sheet
- ◆ Please fill out comment forms provided
- ◆ Please be as specific as possible (i.e., nature of the problem location)
- ◆ Please mark the location of the problem on the maps with the stickers provided
- ◆ Please put the sticker number on your completed comment form
- ◆ Representatives from the County and CDM are available to answer your questions

Lake County
Asset Flood Study
Public Meeting
November 15, 2006
Comment Form

Name _____
Address: _____
Telephone No./E-mail Address: _____

Please assign a number to each issue below from 1 to 5 with 1 representing the most important and 5 representing the least important (use each number only once):

Property Flooding _____ Home/Structure Flooding _____
Flooded Roads/Driveways _____ Water Quality _____
Miscellaneous _____

Comment (please provide detailed information such as location, frequency, severity of problem, etc.):

Sticker No. _____

LAKE COUNTY
FLORIDA
Public Works
627 Avlon Avenue
Gotha, FL 32726
(352) 483-8000

County Contact Information



**Lake County Public Works
437 Ardice Avenue
Eustis, FL 32726
(352) 483-9000**

MHamilton@co.lake.fl.us