

THE ENVISION™ RATING SYSTEM



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Pinellas County Natural Resources**

Purpose

To foster a dramatic and necessary improvement in the performance and resiliency of our physical infrastructure across the full spectrum of sustainability. Envision provides the framework and incentives needed to initiate this systemic change. As a planning and design guidance tool, Envision™ provides industry-wide sustainability metrics for all infrastructure types.

Overview

- A holistic sustainability rating system for all types and sizes of civil infrastructure.
- Guide for making more informed decisions about the sustainability of projects.
- Framework of criteria and performance objectives to help project teams identify sustainable approaches during planning, design, construction, and operation.
- Optional third-party verification and award for recognizing project achievements.



Structure

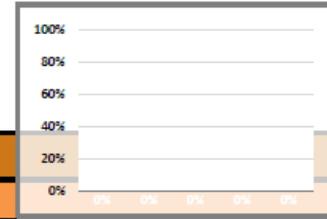
- Envision has 60 sustainability criteria called credits, arranged in 5 categories that address major impact areas



How Envision™ Works

- Go to www.sustainableinfrastructure.org to download Envision™ at no cost.
- Learn to use Envision™ better with the Envision™ Sustainability Professional (ENV SP) training.
- Use Envision™ to guide planning, design, and construction projects to reduce environmental footprint and support the larger goal of improved quality of life.
- Evaluate and recognize infrastructure projects that use transformational, collaborative approaches to incorporate sustainability throughout a project's life.





Quality of Life

1. Purpose

QL 1.1 Improve Community Quality of Life

Intent: Improve the net quality of life of all communities affected by the project and mitigate negative impacts to communities.

Metric: Measures taken to assess community needs and improve quality of life while minimizing negative impacts.

Assessment Questions:	Yes	No	N/A	
Are the relevant community needs, goals and issues being addressed in the project?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Are the potentially negative impacts of the project on the host and nearby communities been reduced or eliminated?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Has the project design received broad community endorsement, including community leaders and stakeholder groups?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Total	0 of 0			

QL 1.2 Stimulate Sustainable Growth and Development

Intent: Support and stimulate sustainable growth and development, including improvements in job growth, capacity building, productivity, business attractiveness and livability.

Metric: Assessment of the project's impact on the community's sustainable economic growth and development.

Assessment Questions:	Yes	No	N/A	
Will the project contribute significantly to local employment?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Will the project make a significant increase in local productivity?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Will the project make the community more attractive to people and businesses?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	?
Total	0 of 0			



ASCE's Report Card for Florida's Infrastructure

- 15 categories rated
- Overall grade of C-
- 2012 to 2013 comparison
 - Coastal Areas C+ to a D-
 - Energy D+ to a D
 - Flood Control C to a D+
 - Stormwater C+ to a C
 - Transit C+ to a C
 - Water and Sewer B- to a C

GRADES

B-	AVIATION
B	BRIDGES
D-	COASTAL AREAS
D	ENERGY
D+	FLOOD CONTROL
C	HIGHWAYS
C	PORTS
D+	SCHOOLS
C	STORMWATER
C	TRANSIT
C	WATER AND SEWER



Our Infrastructure Challenges



The Future of Infrastructure



Envision™ is Uniquely Qualified to Address Infrastructure

- Envision™ applies to all civil infrastructure
- Addresses design, planning, construction and maintenance
- Applicable at any point in an infrastructure project's life cycle
- Speaks to the triple bottom line: social, economic and environmental goals
- Designed to keep pace with a changing concept of sustainability



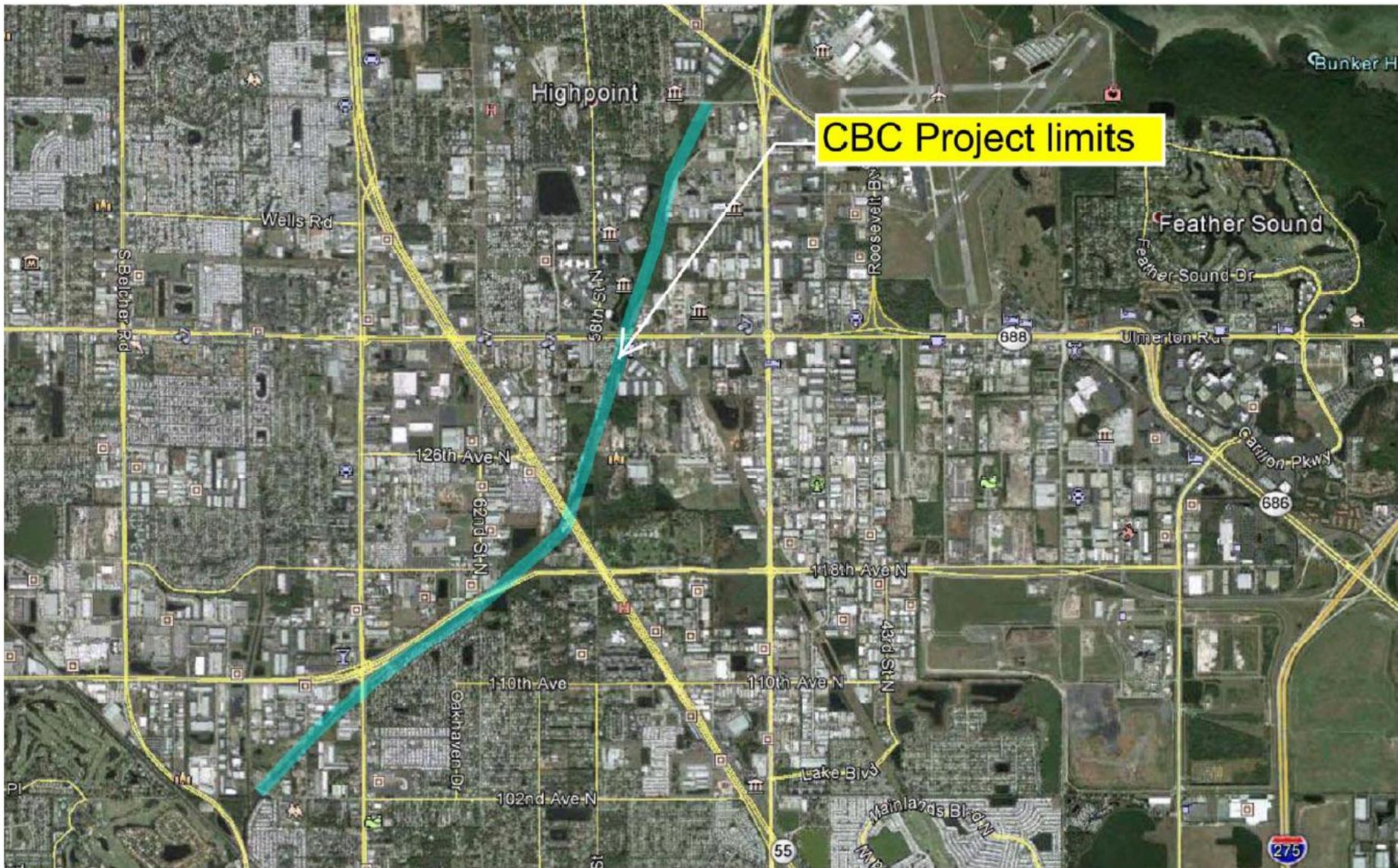
Pinellas County Envision™ Pilot Project

- Cross Bayou Flood Control Improvements
 - Flooding
 - Water Quality
 - Habitat
 - Recreation
 - Maintenance
 - Transportation
 - Climate Change
- Project scope includes criteria for a Bronze rating



Flooding and Erosion





Going Forward

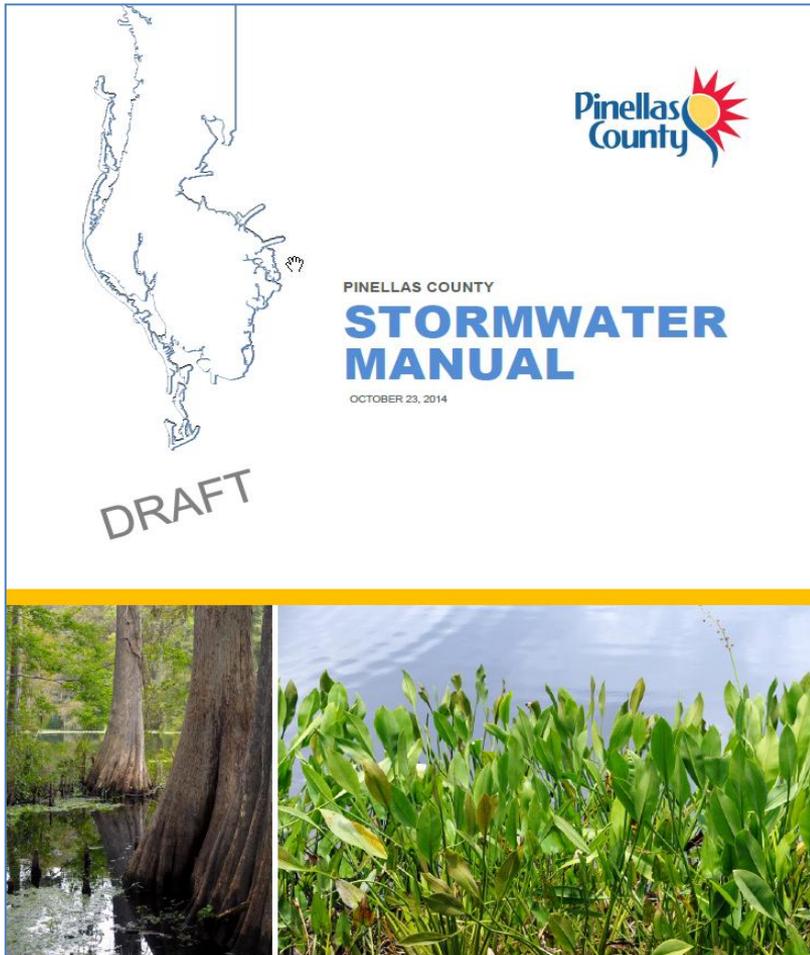
- Asset Management
 - Watershed planning
 - Stormwater CIP
 - Stormwater maintenance
 - Renewal and replacement
- Curlew Creek and Smith Bayou Watershed Management Plan
- McKay Creek floodplain restoration
- Stormwater conveyance CIP
- TMDL implementation plans



www.sustainableinfrastructure.org



Stormwater Code Update



- Ch. 1: Introduction
- Ch. 2: Evaluating and Master Planning a Site
- Ch. 3: County Stormwater Req. and Criteria
- Ch. 4: Stormwater Quantity/Flood Control Req.
- Ch. 5: Water Quality Permitting Req.
- Ch. 6: Catalog of BMPs
- Ch. 7: Case Studies



Stormwater Manual Details

- Introduction
 - Local context
 - Urban environment and hydrology
 - Watersheds and receiving waters
 - Discharges to receiving waters
 - Flood Control considerations
 - Local rainfall
- Master Plans
 - Impacts and goals
 - LID BMPs
 - Evaluating effectiveness
 - Site assessment
 - Site planning and design
 - Performance monitoring and maintenance
 - LID checklist



Stormwater Manual Details

- Requirements and Criteria
 - Compatibility with ERP
 - Criteria flexibility and alternative designs
 - Performance Standards
 - Erosion and Sediment Control
 - Re-certifications
 - Permitting requirements to protect potable water supply
 - Compensating treatment and Regional Facilities
- Quantity/Flood Control Requirements
 - Design criteria
 - Open basin requirements
 - Closed basin requirements
 - Discharges to tidal waters
 - Comprehensive planning requirements
 - Calculation of runoff rates



Stormwater Manual Details

■ Water Quality Permitting Requirements

- Calculating pollutant loading
 - Pre-development v. post hydrology
 - Pre-development loading
 - Post-development loading
 - Designing BMP treatment trains to meet load reductions

■ Catalog of BMPs

- Retention Basins
- Exfiltration trenches
- Underground storage and retention
- Treatment swales
- Vegetative buffers
- Pervious pavement
- Green roof/cisterns
- Wet detention
- Stormwater harvesting
- LID BMPs
- Rainfall interceptor trees



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Permit Technicians,
(727) 464-3401 - voice mail

Board of Adjustment Information:
(727) 464-5047 - voice mail

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Unincorporated Pinellas County Land Development Code Project

News & Updates:

- Code Update Workgroup - Meeting Information
- Draft Stormwater Manual Under Development**

What is the Land Development Code?

The Pinellas County Land Development Code (LDC) contains regulations that govern how land is developed in the **unincorporated areas** of Pinellas County. The code affects the everyday lives of people in our community in many ways. It addresses everything from zoning, site development, the natural environment and stormwater management to parking, sidewalks, landscaping and energy efficiency.

Why Update the Code?

Pinellas County is almost built out, and most of our development activity is actually *redevelopment*. This is exciting because each new project provides an opportunity to improve our communities. New approaches are being considered to guide the development process in ways that will enhance the condition of the County's natural and built environments, promote economic opportunity and help us achieve a more sustainable future. It is important for you to be part of the process.

Goals Include:

- Implement policies in the County's Comprehensive Plan, including the theme of "Planning Today for a Sustainable Tomorrow!"
- Modernize the code to better address new initiatives like livable communities.
- Make it easier to walk, bike and take transit and encourage green building and energy efficiency.
- Contribute to quality neighborhoods, communities and businesses.
- Streamline the code and make it easier for Realtors,

Map It!

All about your property, your neighborhood and the opportunities your location provides.

Workgroup Meetings
[Meeting materials and information](#)

Comprehensive Plan
[Findings, goals, objectives and policies](#)

Current LDC
[Current Land Development Code \(LDC\)](#)

Green Pinellas
County government promotes a greener, more sustainable.

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Stormwater Manual Under Development

Pinellas County is currently in the process of developing a Stormwater Manual that will consolidate all stormwater quality, quantity and conveyance requirements in one central location. The manual will also provide a number of mechanisms to meet these requirements that include Low Impact Development techniques in addition to traditional techniques.

The manual does not deviate from typical stormwater quantity and conveyance requirements however, in an effort to incentivize redevelopment, promote urban regeneration and provide adequate water quality treatment, the County is proposing a pollutant reduction methodology when calculating the required water quality treatment. This will enable the development community to utilize a variety of BMPs, not just typical wet or dry ponds, to meet their water quality requirements.

Current Status:

The County is currently working with a stakeholder group that includes representatives from the development community and other public agencies to provide comments and suggested changes to the County's Stormwater Manual. The first comment review period ends April 3rd. The County will incorporate the comments and suggested changes into the manual and will follow up with another stakeholder meeting.

- Current Proposed Manual (January 16, 2015)**
- Comments / email us**

http://www.pinellascounty.org/plan/stormwater_manual.htm

