



CITY OF NORMAN, OK CITY COUNCIL STUDY SESSION

Municipal Building, Executive Conference Room, 201 West Gray, Norman,
OK 73069

Tuesday, November 29, 2022 at 5:30 PM

AGENDA

It is the policy of the City of Norman that no person or groups of persons shall on the grounds of race, color, religion, ancestry, national origin, age, place of birth, sex, sexual orientation, gender identity or expression, familial status, marital status, including marriage to a person of the same sex, disability, retaliation, or genetic information, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination in employment activities or in all programs, services, or activities administered by the City, its recipients, sub-recipients, and contractors. In the event of any comments, complaints, modifications, accommodations, alternative formats, and auxiliary aids and services regarding accessibility or inclusion, please contact the ADA Technician at 405-366-5424, Relay Service: 711. To better serve you, five (5) business days' advance notice is preferred.

CALL TO ORDER

AGENDA ITEMS

1. DISCUSSION REGARDING MODIFICATIONS TO THE ENGINEERING DESIGN CRITERIA.

ADJOURNMENT

EDC Update Project

City Council Study Session – November 29, 2022

CITY OF NORMAN, OK



AGENDA

- Background
- Project Approach
- EDC Highlights
- Discussion
- Next Steps

Background



BACKGROUND

Discussing two documents

September 1996 –
Originally adopted by Council

July 2006 –
Last of 9 amendments adopted
by Council

CITY OF NORMAN
Norman, Oklahoma



ENGINEERING DESIGN CRITERIA

for
**Streets
Storm Drainage
Water Lines
Sanitary Sewers**

Adopted: September 24, 1996
Amendment No. 1: April 28, 1998
Amendment No. 2: March 28, 2000
Amendment No. 3: May 8, 2001
Amendment No. 4: July 24, 2001
Amendment No. 5: February 26, 2002
Amendment No. 6: September 9, 2003
Amendment No. 7: January 11, 2005
Amendment No. 8a: June 13, 2006
Amendment No. 8b: July 11, 2006

CITY OF NORMAN
Norman, Oklahoma



Standard Specifications And Construction Drawings

for
**Streets
Storm Drainage
Water Lines
Sanitary Sewers**

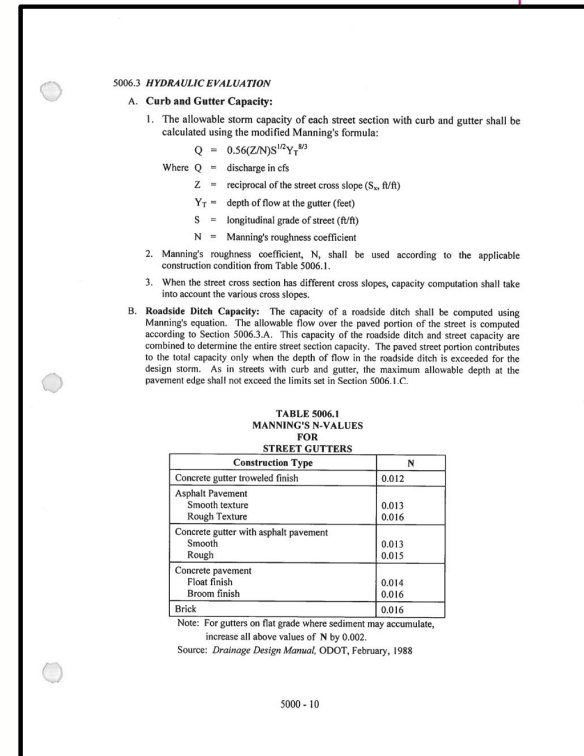
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BACKGROUND

What is an EDC?

Provides guidance to developers and design professionals regarding the design of all public infrastructure including:

- roadways,
- storm sewer systems,
- drainage,
- erosion control,
- waterlines and
- sanitary sewer lines.



CITY OF NORMAN
Norman, Oklahoma



ENGINEERING DESIGN
CRITERIA

for
Streets
Storm Drainage
Water Lines
Sanitary Sewers

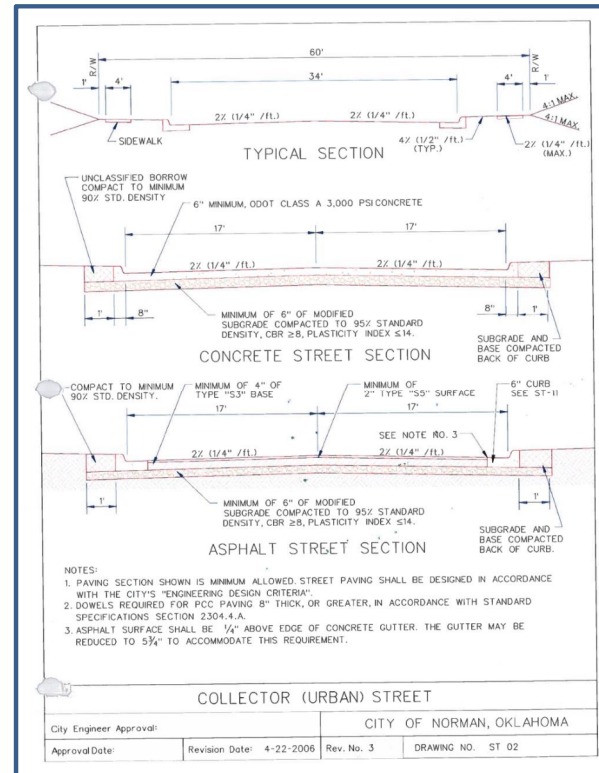
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BACKGROUND


What is a Standard Specifications and Construction Drawings?

The Standard Specifications provide the guidance for contractual agreements and the construction of all public infrastructure.

Construction Drawings provide standard details for the construction and repair of public infrastructure.



CITY OF NORMAN
Norman, Oklahoma



**Standard Specifications
And
Construction Drawings**

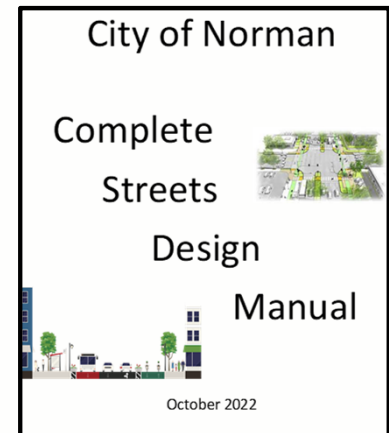
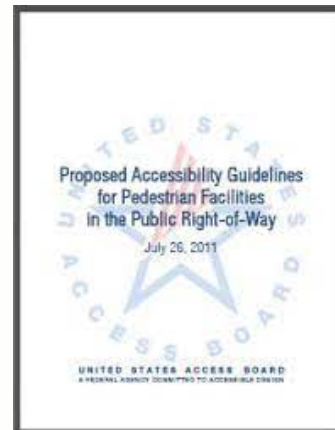
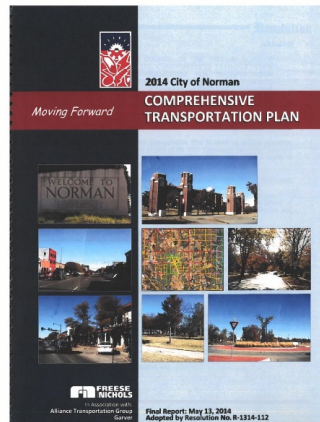
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BACKGROUND

Since the 2006 amendment the following items have changed or been added

- Water Quality Protection Zone (WQPZ) with Low Impact Development Manual
- Public Rights of Way Accessibility Guidelines (PROWAG)
- Comprehensive Transportation Plan (CTP)
- Complete Streets Manual
- Updates to stormwater modeling technology
- New construction materials
- Revised construction methods
- Updated State permits



04/01/10

AN ORDINANCE OF THE COUNCIL OF THE CITY OF NORMAN, OKLAHOMA AMENDING CHAPTER 19 OF THE CODE OF THE CITY OF NORMAN TO PROVIDE FOR STANDARDS AND REQUIREMENTS FOR A DESIGNATED WATER QUALITY PROTECTION ZONE INCLUDING THE LAKE TERREBOSCH WATERSHED, AND PROVIDING FOR THE SEVERABILITY THEREOF.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORMAN, OKLAHOMA:

§1. The Section 19-210 of Chapter 19 of the Code of the City of Norman, shall be amended to read as follows:

Sec. 19-210. Definitions.

The following words and phrases when used in this chapter, shall for the purposes of this chapter, have the meanings respectively ascribed to them in this article, except where the context otherwise requires:

A. *Alley*. A minor right-of-way dedicated to public use, which gives a secondary means of vehicle access to the back or side of properties abutting a street, and which may be used for public utility purposes.

B. *Best Management Practices (BMP)*. An effective combination of structural controls and structural controls which provide an efficient discharge, reduce pollutants, enhance water quality, and/or reduce peak and/or stream bank stabilization, prevent property damage due to flooding, and assist in sediment reduction. BMP's include, but are not limited to, the following:

1. Structural controls such as:
 - a. Retention basins;
 - b. Channel weirs;
 - c. In-stream structures;
 - d. Voluntary urban runoff management;
 - e. Stormwater runoff management;
 - f. Wetlands;
 - g. Riprapped stream-bank stabilization;
 - h. Retention basins.

Page 1

BACKGROUND

- Comprehensive Transportation Plan (2014) recommendations:
 - Update Engineering Design Criteria (EDC) and Construction Standard Specifications and Construction Drawings
- City Council goal (2017) – incentivize “green building codes”
- Council Community Planning and Transportation Committee (CPTC) (2017-2019)
 - Exploring incentive programs
 - Green building practices
 - Green infrastructure / Low impact development (GI/LID)
 - Parking for new developments
- Private sector expressed interest
 - Incentives to use Sustainable Design Techniques (LID)
- July 1, 2019 – Funding for EDC Update included in the FYE 2020 Capital Improvements Program (CIP) budget
- February 20, 2020 - Contract with Freese and Nichols approved by Council

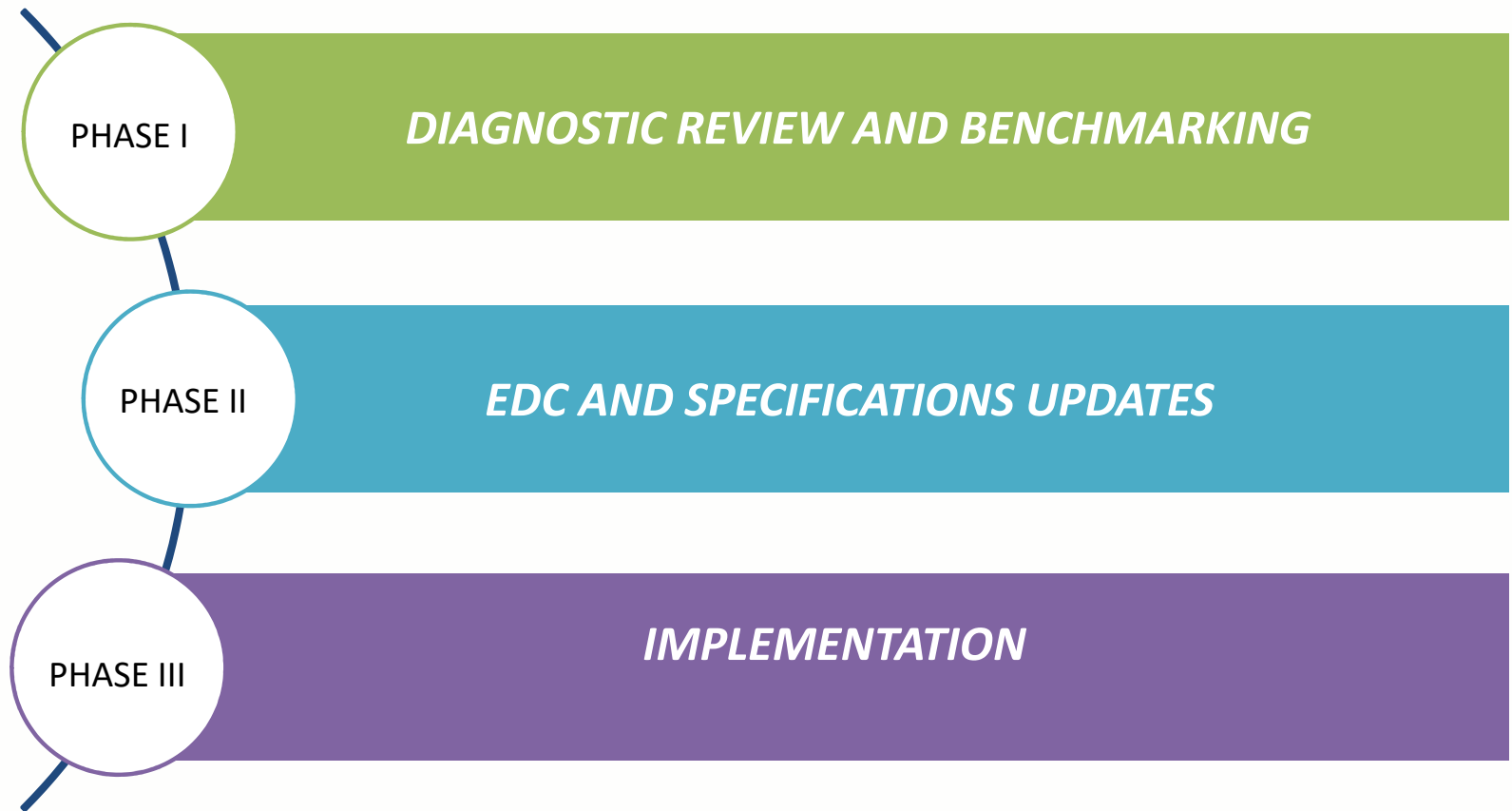
PROJECT OBJECTIVES

- Comprehensive update of the 25-year-old EDC, Standard Specifications and Construction Drawings
- Consolidation of multiple, disconnected manuals into one easily-accessible, modern manual
- Addition of Norman Green Stormwater Infrastructure (GSI) manual to EDC
- Incorporation of Complete Streets Policy in EDC
- Update Traffic Impact Analysis (TIA) guidelines
- Incorporation of PROWAG in EDC
- Incorporation of WQPZ policy and practices in EDC
- Correlation of EDC with CTP

Project Approach



PROJECT APPROACH



STAFF AND COMMUNITY ENGAGEMENT

Considered vital to success of project

Staff Advisory Committee

- 10 staff members representing
 - Parks and Recreation
 - Planning
 - Public Works
 - Utilities

Stakeholder Committee

- 25 members representing
 - Developers,
 - Home builders
 - Consultants
 - Community members
 - Contractors
- Expanded to 33 members in Phase II



PROJECT APPROACH

PHASE I

DIAGNOSTIC REVIEW AND BENCHMARKING

- Document Review
- Stakeholder Interviews
- Community Benchmarking
- Diagnostic Report

PHASE I MILESTONES



PHASE I ENGAGEMENT

June 22, 2020 Meeting with Stakeholders

- Introduce the project
- Overview of the draft Diagnostic Report
- Questions and answers
- Opportunity for open discussion.

Draft Diagnostic Report – Stakeholder Review

- December 9, 2020 - December 21, 2020

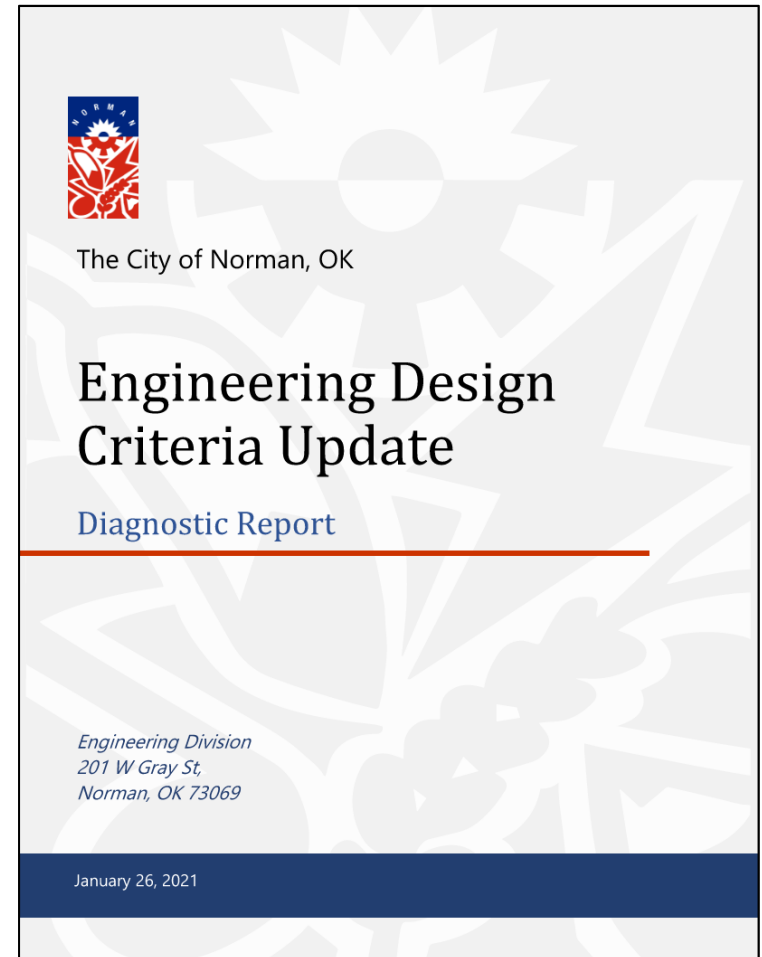


Diagnostic Report

66 page document that:

- Identified issues to be updated in the EDC, Standard Specifications and Construction Drawings
- Recommended solutions for items identified
- Benchmarking related to Sustainable Stormwater Development programs

Every section was reviewed



PROJECT APPROACH

PHASE II

EDC, Specifications, Construction Details and Code Recommendations

- Technical Documents
- Advisory Committee Review
- Stakeholder Engagement
- Code Recommendations

PHASE II MILESTONES



PHASE II ENGAGEMENT

Phase II Kick-off Meeting (in-person)

- May 6, 2021
- 19 stakeholders attended
- Stakeholder list expanded to 33
- Subcommittees focused on specific topics

Subcommittee Meetings

- Sustainable Development – 7 meetings
- Drainage (Stormwater) – 3 meetings
- Streets – 4 meetings
- Utilities – 2 meetings

Additional consultation with City staff representing each topic throughout the EDC development process



PHASE II ENGAGEMENT

Committee meetings and EDC Drafting

- May 2021 through June 2022

Staff review

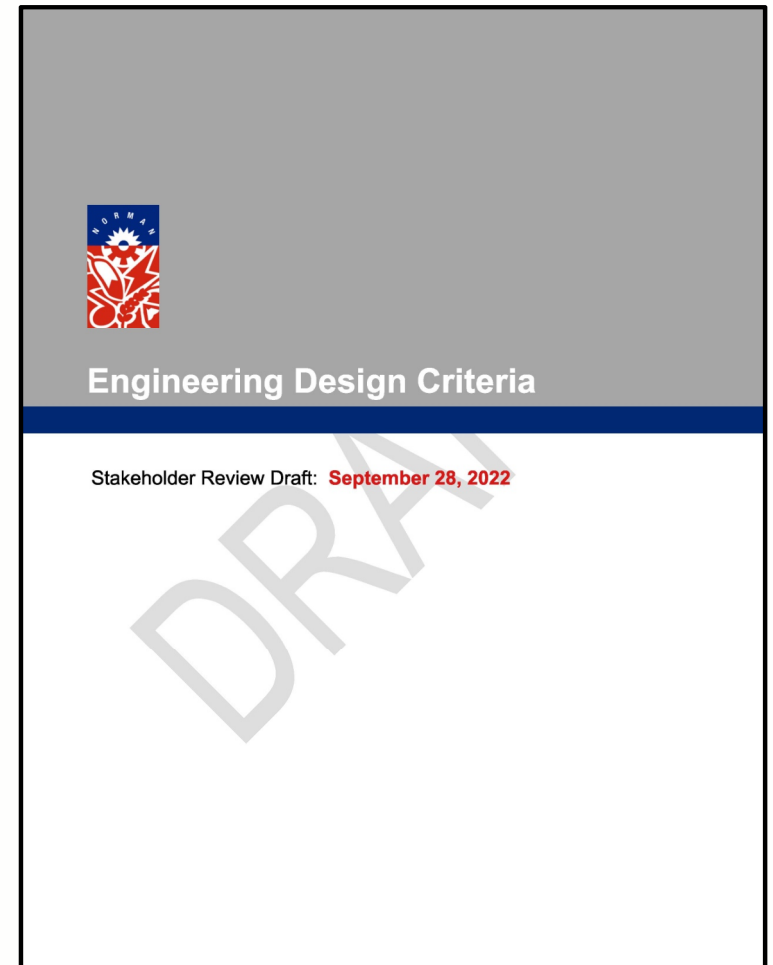
- June – September 2022

Distribution to Stakeholders – September 29, 2022


Stakeholder Meeting – October 6, 2022

Project Website (open comment period)

- October 6 - present



HIGHLIGHTS



General



Utilities



Streets



Stormwater



Sustainable Development



Development Regulations

HIGHLIGHTS



General

Section 1000

GENERAL

- General formatting and punctuation updates
- Consolidated Definitions section (EDC)
- Updated references to adopted codes, plans, and studies

HIGHLIGHTS



Utilities

Section 2000
WATER LINES



- Updated to reflect current practices and materials
- Revised installation of lines in subdivisions

HIGHLIGHTS



Utilities

Section 3000
SANITARY SEWER

- Updated to reflect current practices and materials
- Revised location of lines in subdivisions

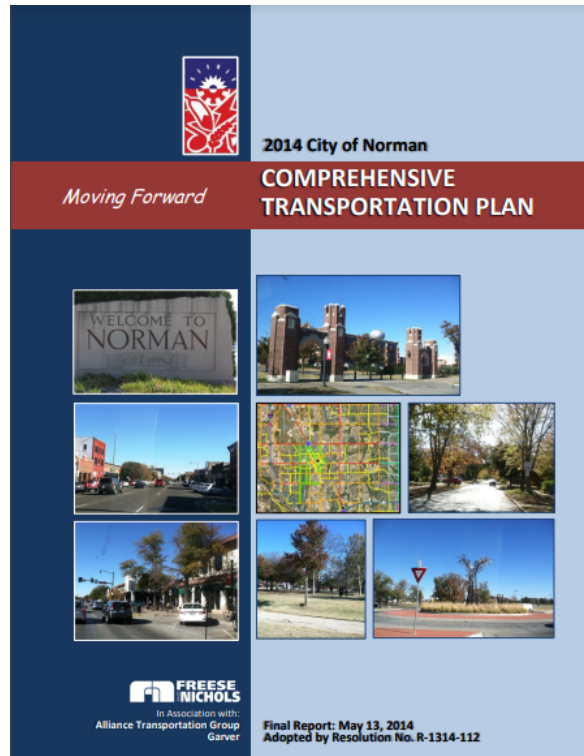


HIGHLIGHTS



Streets

Section 4000
STREETS



- Align with the Comprehensive Transportation Plan
- Includes Traffic Study Guidelines
- Incorporates Complete Streets
- Identified PROWAG as best practices

HIGHLIGHTS



Stormwater

Section 5000
STORMWATER
QUALITY

- Updated modelling programs
- Revised appropriate use of drainage equations
- Included new pipe materials



HIGHLIGHTS



Stormwater

Section 6000
STORMWATER
QUALITY

- Updated requirements for latest State Permits



HIGHLIGHTS



Sustainable
Development

Section 7000

SUSTAINABLE
STORMWATER
DEVELOPMENT

- New Section to the EDC
- Replaces the outdated Wichita Stormwater Manual for GSI design
- Voluntary Green Stormwater Infrastructure (GSI) design manual
- Considers modernized designs
- Future consideration to incentivize GSI
- Includes construction and maintenance requirements

HIGHLIGHTS



Sustainable Development

Section 7000
SUSTAINABLE
STORMWATER
DEVELOPMENT

Manufactured System



Rain Garden



Bioretention



Porous Pavement

HIGHLIGHTS



**Development
Regulations**

**Technical Memo
CODE ALIGNMENT
INCENTIVES
CREDIT PROGRAM**

Guidance for aligning updated EDC with Development Regulations

- Remove Barriers
- Incentivize Sustainable Stormwater Development

Credit-Based System – tools and examples

Next Steps



PUBLIC REVIEW

Council Study Session – November 29, 2022

Stakeholder input - ongoing

Community Open House

- November 30 – December 15 (Virtual)
- December 7, 2022 (Hybrid / virtual with call-in option)
- December 7, 2022 (In-person)

City Council review and adoption

- January 10, 2023

PROJECT WEBSITE



Home Background Documents **Get Involved** Team Contact Us



Share Your Ideas

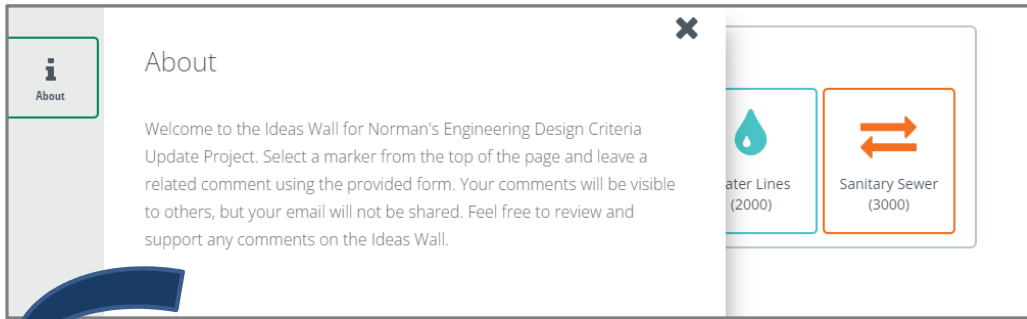
Share your ideas on the ideas wall!

Add Your Ideas

<https://freese.mysocialpinpoint.com/normanedcupdate/home>

PROJECT WEBSITE

1



An 'About' page screenshot. On the left is a sidebar with an 'About' button. The main content area has a heading 'About' and a paragraph: 'Welcome to the Ideas Wall for Norman's Engineering Design Criteria Update Project. Select a marker from the top of the page and leave a related comment using the provided form. Your comments will be visible to others, but your email will not be shared. Feel free to review and support any comments on the Ideas Wall.' To the right are two markers: 'Water Lines (2000)' with a water drop icon and 'Sanitary Sewer (3000)' with a double-headed arrow icon.

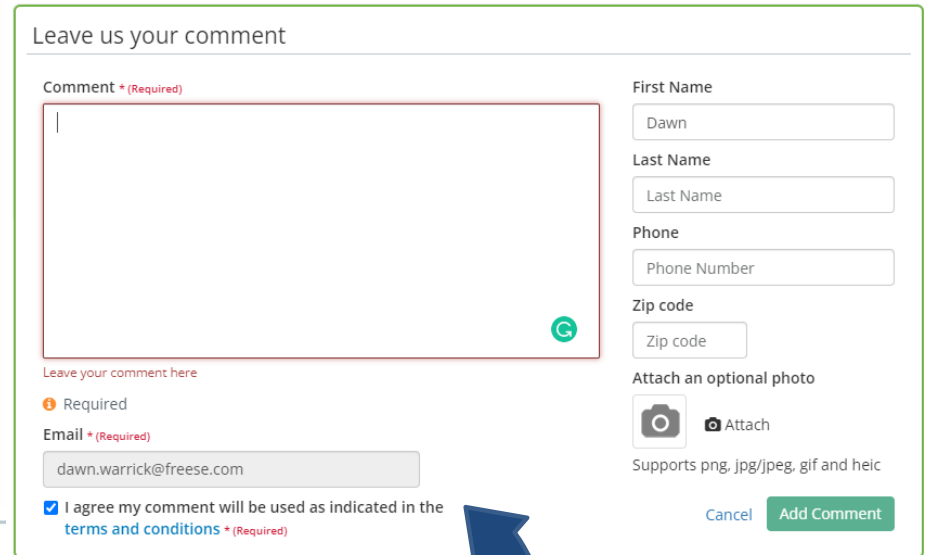
2

Share with us about ...



A row of six colored boxes, each with an icon and text: 'General (1000)' with a speech bubble icon, 'Stormwater (5000 & 6000)' with a wavy line icon, 'Streets (4000)' with a road icon, 'Sustainable Development (7000)' with a tree icon, 'Water Lines (2000)' with a water drop icon, and 'Sanitary Sewer (3000)' with a double-headed arrow icon.

3



A 'Leave us your comment' form. It features a large text area for the comment, a 'Required' label, and a 'Comment * (Required)' label. Below the text area is a 'Required' label and an 'Email * (Required)' field containing 'dawn.warrick@freese.com'. A checkbox is checked with the text 'I agree my comment will be used as indicated in the terms and conditions * (Required)'. On the right side, there are input fields for 'First Name' (Dawn), 'Last Name' (Last Name), 'Phone' (Phone Number), and 'Zip code' (Zip code). Below these is an 'Attach an optional photo' section with a camera icon and 'Attach' text, and a note 'Supports png, jpg/jpeg, gif and helc'. At the bottom right are 'Cancel' and 'Add Comment' buttons.

PROJECT APPROACH

PHASE III

IMPLEMENTATION

- Training resources
- Workshops
- Checklists
- Design Guides
- Brochures or other publications

Follows adoption of the updated EDC

Support roll out of new technical resources and programs

Educational materials for review, inspection, design and construction activities

Materials to inform and educate the public

Final scope must be determined and authorized prior to initiating any Phase III work

Discussion & Questions

