

MAY 2024

AGENDA

DRAINAGE ORDINANCE REVISION Chapter 16 revisions include definition update and clean up of inconsistencies

Storm sewer design

DRAINAGE CRITERIA MANUAL

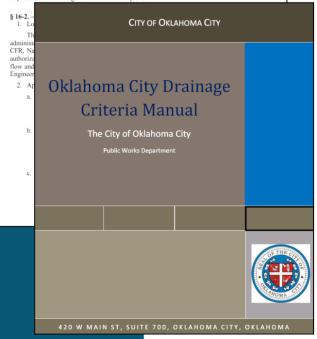


Chapter 16 - DRAINAGE AND FLOOD CONTROL

Cross Reference – Public Works Departments, § 2-541 et seq.; buildings and buildings regulations, Ch 12

§ 16-1. - Purpose and scope

It is the intent of this chapter to establish community floodplain management ordinances to protect the general health, safety, and welfare of the public from the hazards and damages of flooding; to provide clean and sanitary channels for stormwater runoff; to prevent pollution of watersheds, streams, and channels; to prevent the encroachment of structures and improvements on channels to protect natural scenic areas; and to provide for the conservation of the natural resources of the area. All subdivisions of land and all developments or improvements of any character which affect runoff, stormwater flow or drainage in any portion of the City of Oklahoma City (City) shall be subject to the provisions of this chapter and the technical details within the Oklahoma City Drainage Criteria Manual (DCM). This chapter is not intended to repeal, abrogate, or impair any existing requirements, obligations, easements, covenants, or deed restrictions. However, where another ordinance conflicts or overlaps this chapter or the DCM, whichever imposes the more stringent restrictions shall prevail



DOCUMENTS

Found at okc.gov/pw

- Drainage Ordinance (Chapter 16)
- Drainage Criteria Manual
- Summary of Proposed Revisions

CURRENT ORDINANCE

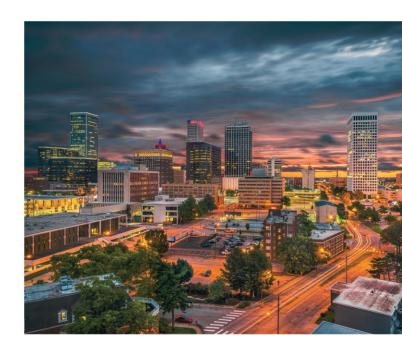
Revisions:

Chapter 15A 1981 to 2020

- Drainage and Flood Control Ordinance
- Made part of Oklahoma City Code in 1970

Chapter 16

- FEMA map amendments periodically with last update in 2020
- Fifteen revisions to the Drainage Ordinance since 1981





Address inconsistencies within Chapter 16



Revise definitions to be more consistent with FEMA

3

Remove Drainage Design Criteria from Chapter 16 and create Drainage Criteria Manual for design requirements



Revise drainage design criteria to address current and future flooding issues

DRAINAGE ORDINANCE REVISIONS

Changes: on-site detention, fee-in-lieu of detention, multi-frequency outlet structure design and individual lot requirement

Changes: on-grade storm sewer system 10-year changes to 25-year storm event

Changes: open drainage channel 50-year changes to 100-year storm event

DETENTION

STORM SEWER
SYSTEMS

DRAINAGE CHANNELS

Changes: definition of private systems, review, approval, inspection, development site

Changes: storm sewer criteria
moved to Drainage Criteria
Manual

Changes: FEMA certificate requirements

PUBLIC VS PRIVATE STORM SEWER SYSTEMS

DRAINAGE CRITERIA MANUAL

FLOODPLAIN
ACTIVITY PERMIT

DETENTION UPDATE

- Requires on-site detention for all new developments
- Removed requirement for Fee-in-Lieu of Detention (FILO)
- Requires multi-frequency outlet structure design for 2-, 5-, 10-, 25-, 50- and
 100-year storm events
- Waiver can be considered if site:
 - Drains directly to public street or public storm sewer system
 - Drainage discharges directly to creek or river channel
 - All waiver requests must be accompanied with supporting calculations
- Downtown Area Development/Redevelopment
 - Detention Waivers will be considered on a case by case basis

DRAINAGE CHANNELS UPDATE

- Requires all open drainage channels in a development to be designed to:
 - convey the runoff from the 100-year storm event
 -or-
 - have the land that would be inundated by such an event be contained within an easement or common area

DRAINAGE CRITERIA MANUAL

- Storm sewer design removed from Drainage Ordinance and published in Drainage
 Criteria Manual (DCM)
- DCM presented as reference document to Drainage Ordinance
- Subsequent revisions to the DCM may be approved by Public Works Director/City
 Engineer without City Council approval.

Revisions will be posted on okc.gov/pw for a minimum of 60 days before becoming effective

STORM SEWER SYSTEMS UPDATE

- Revised ordinance requires on-grade Storm Sewer Systems to be designed for the 25-year storm event
- Storm Sewer design criteria in sump locations is not changed

PUBLIC VS PRIVATE STORM SEWER SYSTEMS UPDATE (1 OF 2)

PUBLIC STORM SEWER SYSTEMS

- Required when the development has Public streets
- Reviewed by Public Works Engineering for approval
- Construction of Public Storm Sewer Systems will be inspected by Public Works Field Services personnel
- Following construction, new infrastructure must be dedicated to the
 City, and the City will assume future maintenance

PUBLIC VS PRIVATE STORM SEWER SYSTEMS UPDATE (2 OF 2)

PRIVATE STORM SEWER SYSTEMS

- Required for developments with Private streets
- Complete Plans & Calculations must be submitted to Public Works
 Engineering for processing
- Plans & Calculations will be stamped as RECEIVED and processed for the required Work Orders
- Plans & Calculations may receive a cursory review
- Construction of Private Storm Sewer Systems will be inspected by Public Works Field Services personnel

FLOODPLAIN ACTIVITY PERMIT

- Floodplain Activity Permits will be required for all construction activities within 200 feet of a FEMA mapped floodplain
- FEMA Elevation Certificates will:
 - Not be required for buildings/structures that lie within 200 feet of a FEMA mapped floodplain. Surveyor's Certificate is required
 - Be required when a building/structure is within the limits of the FEMA mapped floodplain



Community Outreach

- Website Content Updated May 6, 2024
- Technical Review Newsletter May 13, 2024
- Public Meeting No. 1 May 17, 2024
- Email Invitation May 20, 2024
- Public Meeting No. 2 May 30, 2024

Sign up for our newsletter to receive the latest updates



NEXT STEPS



City Council Public Hearing -July 30, 2024

OKC Comments/Revisions -June 18, 2024 5 City Council Approval -August 13, 2024

3 Introduction to City Council - July 16, 2024

Ordinance Effective -October 1, 2024

Plans in review prior to the ordinance effective date will be allowed to use the current ordinance.



DRAINAGE ORDINANCE REVISION AND DRAINAGE CRITERIA MANUAL

Email PWDrainage@okc.gov with questions or comments