

CITY OF STRONGSVILLE, OHIO

ORDINANCE NO. 2025 – 016

By: Mayor Perciak and All Members of Council

AN ORDINANCE AMENDING SECTION 1058.06 OF TITLE FIVE OF PART TEN-STREETS, UTILITIES AND PUBLIC SERVICES CODE OF THE CODIFIED ORDINANCES OF THE CITY OF STRONGSVILLE CONCERNING STORM WATER MANAGEMENT DESIGN CRITERIA, AND DECLARING AN EMERGENCY.

WHEREAS, by and through Ordinance No. 2022-051, this Council amended existing Chapter 1058 concerning Storm Water Management and Sediment and Erosion Control; and

WHEREAS, in order to remain in compliance with the City's NPDES Small MS4 General Permit (OHQ000004) and the Ohio EPA NPDES General Storm Water Permit for Construction Activities (OHC000005), the City is again required to update its storm water management Ordinances; and

WHEREAS, therefore, the following amendments to existing Chapter 1058 are recommended.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF STRONGSVILLE, COUNTY OF CUYAHOGA AND STATE OF OHIO:

Section 1. That Section 1058.06 of Chapter 1058 of Title Five of Part Ten-Streets, Utilities and Public Services Code of the Codified Ordinances of the City of Strongsville concerning Storm Water Management Design Criteria, be and is hereby amended to read in part as follows:

1058.06 STORM WATER MANAGEMENT DESIGN CRITERIA.

* * *

**Table 5a Extended Detention Post-Construction Practices
With Minimum Drain Times**

Extended Detention Practices	Minimum Drain Time of WQv
Wet Extended Detention Basin ^{1,2,3}	24 hours
Constructed-Extended Detention-Extended Detention Constructed Wetland ^{1,23}	24 hours
Dry Extended Detention Basin with Forebay and Micropool ^{1,3,4}	48 hours
Permeable Pavement – Extended Detention ¹	24 hours
Underground Storage Facility – Extended Detention ^{1,45}	24 hours
Sand & Other Media Filtration-Filter – Extended Detention ^{1,56}	24 hours

Notes:

1. The outlet structure shall not discharge more than the first half of the WQv in less than one-third of the drain time.
2. Provide a permanent pool with a minimum volume equal to the WQv and an extended detention volume above the permanent pool equal to 1.0 x WQv.
3. **An additional volume equal to 20 percent of the WQv shall be incorporated into the BMP for sediment storage.**
34. Dry **extended detention** basins must include a forebay and a micropool each sized at a minimum of 0.1 x WQv and a protected outlet, or include acceptable pretreatment and a protected outlet.
45. Underground storage must have pretreatment for removal of suspended sediments included in the design and documented in the SWP3. This pretreatment shall concentrate sediment in a location where it can be readily removed. For non-infiltrating, underground extended detention systems, pretreatment shall be 50% effective at capturing total suspended solids according to the testing protocol established in the Alternative Post-Construction BMP Testing Protocol.
56. The WQv ponding area shall completely empty between 24 and 72 hours.

**Table 5b ~~Extended Detention-Infiltration~~ Post-Construction Practices
With ~~Minimum-Maximum~~ Drain Times**

Infiltration Practices	Maximum Drain Time of WQv
Bioretention Area/Cell ^{1,2,3}	24 hours
Infiltration Basin ^{2, 3}	24 hours
Infiltration Trench ^{3, 4}	48 hours
Permeable Pavement – Infiltration ³	48 hours
Underground Storage Facility – Infiltration ^{3,4, 5}	48 hours

Notes:

1. Bioretention soil media shall have a permeability of approximately 1 – **45** in/hr. Meeting the soil media specifications in the Rainwater and Land Development manual is considered compliant with this requirement. Bioretention cells must have underdrains unless in-situ conditions allow for the WQv (surface ponding) plus the bioretention soil (to a depth of 24 inches) to drain completely within 48 hours.
2. Infiltrating practices with the WQv stored aboveground (bioretention, infiltration basin) shall fully drain the WQv within 24 hours to minimize nuisance effects of standing water and to promote vigorous communities of appropriate vegetation.
3. **The SWP3 shall demonstrate the design infiltration rate values are derived from site-specific measurements obtained through field tests of the in-situ soil for practices designed to infiltrate the WQv.**
34. Subsurface practices designed to fully infiltrate the WQv (infiltration trench, permeable pavement with infiltration, underground storage with infiltration) shall empty within 48 hours to recover storage for subsequent storm events.
45. Underground storage systems with infiltration must have adequate pretreatment of suspended sediments included in the design and documented in the SWP3 in order to minimize clogging of the infiltrating surface. Pretreatment shall concentrate sediment in a location where it can be readily removed. Examples

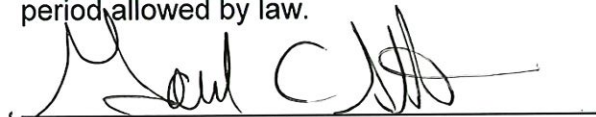
include media filters situated upstream of the storage or other suitable alternative approved by Ohio EPA. For infiltrating underground systems, pretreatment shall be 80% effective at capturing total suspended solids according to the testing protocol established in the Alternative Post-Construction BMP Testing Protocol.

* * *

~~(Ord. 2022-051. Passed 3-21-22.)~~

Section 2. That it is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council; and that all deliberations of this Council, and any of its committees, that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 3. That this Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, property, health, safety and welfare of the City, and for the further reason that it is necessary for the City to amend its storm water management Ordinances to remain in compliance with the City's NPDES Small MS4 General Permit and the Ohio EPA. Therefore, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise from and after the earliest period allowed by law.


President of Council

Date Passed:

February 18, 2025

Approved:


Mayor

Date Approved:

Feb. 18, 2025

Attest:


Clerk of Council

Carbone
Clark
Kaminski
Kosek
Roff
Short
Spring

Yea

Nay

☒
☒
☒
☒
☒
☒
☒

☐
☐
☐
☐
☐
☐
☐

Ord. No. 2025-016 Amended: _____

1st Rdg. 02-18-25 Ref: _____

2nd Rdg. Suspended Ref: _____

3rd Rdg. Suspended Ref: _____

Public Hrg. _____

Ref: _____

Adopted: 02-18-25 Defeated: _____