



ORDINANCE NO. 922

**AN ORDINANCE AMENDING THE VILLAGE OF MACKINAW
MUNICIPAL CODE SAID MUNICIPAL CODE BEING ORDINANCE
NO. 513 OF THE VILLAGE OF MACKINAW TO PROVIDE
AMENDMENTS REGULATING TO STORM WATER RETENTION
REQUIRMENTS**

Published in pamphlet form by authority of the Village President and
Board of Trustees of the Village of Mackinaw

NOVEMBER 14, 2016

STATE OF ILLINOIS)
COUNTY OF TAZEWELL) SS
VILLAGE OF MACKINAW)

CERTIFICATE OF ORDINANCE

I, the undersigned, do hereby certify that I am the duly appointed, qualified and acting Village Clerk of the Village of Mackinaw, Tazewell County, Illinois (the "Issuer"), and as such official I am the keeper of the records and files of its President and Board of Trustees (the "Corporate Authorities").

I do further certify the foregoing constitutes a full, true and complete excerpt from the proceedings of the regular meeting of the Corporate Authorities held on the **14TH day of NOVEMBER 2016**, insofar as same relates to the adoption of **Ordinance No. 922**, entitled:

AN ORDINANCE AMENDING THE VILLAGE OF MACKINAW MUNICIPAL CODE SAID MUNICIPAL CODE BEING ORDINANCE NO. 513 OF THE VILLAGE OF MACKINAW TO PROVIDE AMENDMENTS RELATING TO STORM WATER RETENTION REQUIRMENTS

A true, correct and complete copy of which ordinance (the "Preliminary Ordinance" or "Ordinance") as adopted at such meeting appears in the transcript of the minutes of such meeting. The Preliminary Ordinance was adopted and approved by the vote and on the date therein set forth.

I do further certify the deliberations of the Corporate Authorities on the adoption of such Preliminary Ordinance were taken openly and was on the agenda at least 48 hours before the meeting at which it was adopted, that the adoption of such ordinance was duly moved and seconded, that the vote on the adoption of such ordinance was taken openly and was preceded by a public recital of the nature of the matter being considered and such other information as would inform the public of the business being conducted, that such meeting was held at a specified time and place convenient to the public, that notice of such meeting was duly given to all of the news media requesting such notice, that such meeting was called and held in strict compliance with the provisions of the Open Meetings Act of the State of Illinois, as amended, and the Illinois Municipal Code, as amended, and that the Corporate Authorities have complied with all of the applicable provisions of such Act and such Code and their procedural rules in the adoption of such ordinance.

The pamphlet form of **Ordinance No.922**, including the ordinance and a cover sheet thereof, was prepared and a copy of such Ordinance was posted for public inspection in the municipal building, the Mackinaw United States Post Office, and the Mackinaw Library commencing on **NOVEMBER 15, 2016** and continuing for at least ten days thereafter. The original ordinance was adopted by the Board of Trustees of the Village of Mackinaw at a regular meeting, attended by six members of the Board, and approved by the President, as said Ordinance appears on file in my office and as the same is recorded in the Book of Ordinances of said Village.

IN TESTIMONY WHEREOF, I have hereunto set my hand and the official seal of said Village of Mackinaw, Illinois, this 25TH DAY OF NOVEMBER, 2016.



Village Clerk

ORDINANCE NO. 922

AN ORDINANCE AMENDING THE VILLAGE OF MACKINAW MUNICIPAL CODE SAID MUNICIPAL CODE BEING ORDINANCE NO. 513 OF THE VILLAGE OF MACKINAW TO PROVIDE AMENDMENTS RELATING TO STORM WATER RETENTION REQUIRMENTS

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF MACKINAW, ILLINOIS:

SECTION 1: Title 15 of the Village Code of the Village of Mackinaw is hereby amended by inserting a new Chapter 156 which shall be as follows.

CHAPTER 156 STORM WATER RETENTION REQUIREMENTS

§156.01 DEFINITIONS.

As used in this Chapter, the following definitions shall apply unless the context otherwise requires:

DEVELOPMENT: The division of a parcel of land into two (2) or more parcels; the construction, reconstruction, conversion, structural alteration, relocation, or enlargement of any structure.

SINGLE-FAMILY DWELLING: A building designed for residential occupancy by one family.

§156.02 DUTY TO COMPLY WITH STORM WATER RETENTION REQUIREMENTS.

It shall be the responsibility of the owner, his agent or his contractor to assure that any development shall meet all storm water retention requirements as set forth in the Section 156.02 below. Development does not include construction of a single family home.

§156.03 STORM WATER RETENTION REQUIREMENTS.

Storm water retention requirements shall be established by the Village Engineer based on the Rational Method for estimating peak runoff rate for a specified design storm. The allowable runoff rate before development, Q_a , and the peak runoff rater after development, Q_p , shall be determined. The required storage volume shall be the difference in runoff rates ($Q_p - Q_a$) times the duration of the design storm. The owner, his agent, or his contractor shall propose a storm water retention facility which provides the required storage volume and which restricts the rate of storm water discharge from the allowable runoff rate, Q_a . Developments which are larger, complex or extra sensitive to drainage considerations may require

more sophisticated analysis. The Village maintains the right to determine adequacy of storm water detention.

§156.04 CONSTRUCTION STANDARDS.

All storm water retention facilities or devices shall be designed in a manner to minimize the need for maintenance and reduce the chance of failure. Storm water easements and covenants shall be provided by the property owner for access for facility inspection and maintenance. All final design of facilities shall be approved by the Village Engineer prior to building permits being issued.

§156.05 MAINTENANCE OF STORM WATER RETENTION FACILITIES

All storm water facilities shall be routinely maintained according to IEPA requirements, and as provided in the permit. The person(s) or organization(s) responsible for the maintenance of the facilities shall be designated in the plan, and shall either be the property owner or a homeowner's association. With regard to non-routine maintenance, (such as infrequent but expensive activities as pond dredging or major repairs to the facilities) the same shall be performed on an as-needed basis based on information gathered during regular inspections by landowner and/or the Village at the cost of the landowner or homeowner's association. If either routine or non-routine maintenance is not completed in a timely manner by the landowner or homeowner's association then the same may be completed by the Village at the owner's expense.

§156.06 INSPECTION OF STORM WATER RETENTION FACILITIES.

The person(s) or organization(s) responsible for maintenance shall inspect storm water facilities on a regular basis, as outlined in the plan, but not less than one time per year. Authorized Village representatives may enter at reasonable times to conduct on-site inspections or maintenance. Land owners and/or organization(s) responsible for said inspections shall file with the Village inspection and maintenance reports at least one time per year.

§156.07 CERTIFICATION OF STORM WATER RETENTION COMPLIANCE.

It shall be the responsibility of the owner to obtain from the Village Engineer prior to the construction of a Development written approval certifying that the storm water retention facility meets requirements. No building permit shall issue for construction of any Development until such certification has been obtained from the Village Engineer.

§156.08 PENALTY.

The violation of any of the terms of the ordinance shall constitute an offense punishable under the general penalty provision §10.99 of the Village Code. Each day a violation continues and remains uncorrected constitutes a separate offense. Such fines authorized under the general penalty provision shall be in addition to any other remedy provided by law.

§156.09 RATIONAL METHOD.

The following sets forth the Rational Method of Computing Storm Water Retention:

Rational Method:

$$Q = C.I.A$$

Q = Resultant runoff rate in cubic feet per second (c.f.s)

C = Coefficient of runoff: before development (agriculture) = 0.25

Grass = .30

Rooftops and paved areas = .95

r-1 residential = 0.50

I = Intensity of rainfall = 4"/hr. fir 15-min. duration for design storm

A = Area in acres

1. Determine area of entire site (in acres), A
2. Determine area of paved ground and rooftops (in acres), A1
3. Determine area of grass (in acres), A2
4. Determine allowable runoff rate, Qa, as follows:

$$Qa = 0.35 \times 4 \times A \text{ (c.f.s.)}$$

5. To find if retention is needed, compute the following:
 - a. $Q1 = .95 \times 4 \times A1$
 - b. $Q2 = .30 \times 4 \times A2$
 - c. $Qp = Q1 + Q2$ (Runoff rate after development) c.f.s.

If Qp is greater than Qa, retention is required.

6. Determine required retention: volume, V, as follows:
 $V = (Qp - Qa) \times 15 \text{ minutes} \times 60 \text{ seconds/minute}$ (cubic feet)

SECTION 2: If any section or part of this Ordinance is held invalid, it shall not affect the validity of the remainder of this Ordinance.

SECTION 3: This Ordinance shall take effect 10 days after publication thereof as provided by law.

SECTION 4: Ordinance No. 513 of the Village of Mackinaw, as amended by this Ordinance, shall remain in full force and effect and all previous amendments to Ordinance No. 513 shall remain in force and effect except as modified by this Ordinance

PASSED AND ADOPTED this 14th day of November, 2016, by the following vote.

APPROVED:



President of the Board of Trustees of
The Village of Mackinaw

ATTEST:



Village Clerk

AYES:	<u>4</u>
NAYS:	<u>0</u>
ABSENT:	<u>2</u>