

★ Roll Call Number

Agenda Item Number

63A

Date September 24, 2007

An Ordinance entitled, "AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, and amended by Ordinance No. 13,881 passed November 6, 2000, and Ordinance No. 14,029 passed December 17, 2001, and Ordinance 14, 276 passed September 22, 2003, and Ordinance No. 14,326 passed March 22, 2004, and Ordinance No. 14,484 passed September 12, 2005, by amending Sections 42-86, 42-87, 42-121, 82-213, 106-2 and 106-136 and adding and enacting a new Section 106-201 thereof, enacting new regulations, prohibitions and enforcement provisions required by the USEPA and the IDNR relating to stormwater runoff control plans and relating to the maintenance of stormwater management facilities",

which was considered and voted upon for the first time under Roll Call No. 07- 1644 of August 20, 2007, and considered and voted upon for the second time under Roll Call No. 07- 1747 of September 10, 2007, again presented.

Moved by _____ that this ordinance do now pass.

ORDINANCE NO. _____

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
COLEMAN				
HENSLEY				
KIERNAN				
MAHAFFEY				
MEYER				
VLISSIS				
TOTAL				

MOTION CARRIED

APPROVED

.....
Mayor

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

City Clerk

★ Roll Call Number

07-1747

Agenda Item Number

47

Date September 10, 2007

An Ordinance entitled, "AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, and amended by Ordinance No. 13,881 passed November 6, 2000, and Ordinance No. 14,029 passed December 17, 2001, and Ordinance 14, 276 passed September 22, 2003, and Ordinance No. 14,326 passed March 22, 2004, and Ordinance No. 14,484 passed September 12, 2005, by amending Sections 42-86, 42-87, 42-121, 82-213, 106-2 and 106-136 and adding and enacting a new Section 106-201 thereof, enacting new regulations, prohibitions and enforcement provisions required by the USEPA and the IDNR relating to stormwater runoff control plans and relating to the maintenance of stormwater management facilities",

which was considered and voted upon under Roll Call No. 07-1644 of August 20, 2007; again presented.

Moved by Kiernan that this ordinance be considered and given second vote for passage.

(Second of three required readings)

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE	✓			
COLEMAN	✓			
HENSLEY	✓			
KIERNAN	✓			
MAHAFFEY	✓			
MEYER	✓			
VLASSIS	✓			
TOTAL	7			

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

MOTION CARRIED

APPROVED

T. M. Franklin Council

Mayor

Diane Rauh City Clerk



**Council
Communication**
Office of the City Manager

Date August 20, 2007

Agenda Item No. ~~26~~ 27
 Roll Call No. 07-1644 071747
 Communication No. 07-500
 Submitted by: William G. Stowe, Assistant City
 Manager/Public Works/Engineering

63 1747

AGENDA HEADING:

Amending Chapters 42, 82, and 106 of the Municipal Code regarding Post-construction Run-off Requirements for the City's National Pollution Discharge Elimination System.

SYNOPSIS:

Recommend Council amend Chapters 42, 82, and 106 of the Municipal Code regarding post-construction run-off requirements for the City's National Pollution Discharge Elimination System (NPDES). These changes are required by the NPDES permit issued to the City of Des Moines. Staff recommends revisions to Chapter 106 of the Municipal Code in order to address post-construction run-off control; the changes provide for administrative penalties and an administrative hearing process. Revisions to Chapter 42 reflect changes in the State of Iowa Administrative Code and the Iowa Department of Natural Resources Storm Water General Permit Number 2 for Construction Activities. Revisions to Chapter 82 add requirements to designs submitted to City staff in response to Chapter 106 revisions.

FISCAL IMPACT:

Amount: Unknown

Funding Source: Revenue from administrative penalties will be deposited in: 2007-08 City of Des Moines Operating Budget, Storm Water Utility Operations Fund EN301, Org Code: PWK077006, Administrative Penalties Account 457100.

ADDITIONAL INFORMATION:

Since 1972, the Clean Water Act and its amendments have prohibited the discharge of any pollutant into a body of water in the United States, unless it has been authorized by a national pollutant discharge elimination system permit. The NPDES program is designed to track point sources, single identifiable sources that discharge pollutants into the environment, and requires the implementation of necessary controls to minimize the pollutant discharges.

Phase I was promulgated on November 16, 1990. The Phase I regulations required large sources of stormwater discharge to apply for NPDES permits. Large sources include medium and large municipal storm sewer systems usually serving 100,000 people or more as well as several categories of industrial activity. The NPDES permits require cities to develop a stormwater management program, track and oversee industrial facilities that are also regulated under the NPDES stormwater program, conduct monitoring, and submit periodic reports.

In response to, and as required by, the NPDES permit issued to the City of Des Moines, Public Works is proposing revisions to Chapter 106 of the City Code addressing post-construction run-off control. The proposed revisions provide regulation to reduce pollutants caused by run-off from private property by encouraging the implementation of stormwater management facilities that minimize the introduction of pollutants into the City's municipal storm sewer system. The proposed revisions provide for administrative penalties and an administrative hearing process; these changes also provide administrative penalties for improper maintenance.

The code revisions specify the City's responsibilities for storm water management facilities as well as those of other parties. Major and routine maintenance of all storm water management facilities situated on private property are not the responsibility of the City and shall be the responsibility of the owners of the properties upon which such facilities are located or of another pre-designated party. Further, it is incumbent upon the City to work with developers during the subdivision review process to ensure that workable maintenance plans are in place. As the Community Development Department reviews new subdivision plats and storm water plans for new development, care will be taken to avoid creating undue hardships on private owners. For example, when appropriate and feasible, homeowners associations may be asked to share maintenance responsibilities.

Chapter 106 also includes administrative penalties and an administrative hearing process for the failure by a private party to adequately maintain a management facility.

Public Works is also proposing revisions to Chapter 42 to reflect changes in the State of Iowa Administrative Code and the Iowa Department of Natural Resources Storm Water General Permit Number 2 for Construction Activities.

Revisions to Chapter 82 are proposed to add requirements to designs submitted to City staff in response to revisions to Chapter 106.

PREVIOUS COUNCIL ACTION(S):

Date: September 12, 2005

Roll Call: 05-2237

Action: Amending Chapter 42 of the Municipal Code regarding run-off and illicit discharge requirements of the City's National Pollution Discharge Elimination System and maintenance of drainage facilities. Moved by Hensley that this ordinance do now pass, #14,484. Motion Carried 6-1. Nays: Brooks.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Second and final reading of recommended ordinance amendment.

07-1644
56
47

ORDINANCE NO. _____

AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, and amended by Ordinance No. 13,881 passed November 6, 2000, and Ordinance No. 14,029 passed December 17, 2001, and Ordinance 14,276 passed September 22, 2003, and Ordinance No. 14,326 passed March 22, 2004, and Ordinance No. 14,484 passed September 12, 2005, by amending Sections 42-86, 42-87, 42-121, 82-213, 106-2 and 106-136 and adding and enacting a new Section 106-201 thereof, enacting new regulations, prohibitions and enforcement provisions required by the USEPA and the IDNR relating to stormwater runoff control plans and relating to the maintenance of stormwater management facilities.

Be It Ordained by the City Council of the City of Des Moines, Iowa:

Section 1. That the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, and amended by Ordinance No. 13,881 passed November 6, 2000, and Ordinance No. 14,029 passed December 17, 2001, and Ordinance 14,276 passed September 22, 2003, and Ordinance No. 14,326 passed March 22, 2004, and Ordinance No. 14,484 passed September 12, 2005 is hereby amended by amending Sections 42-86, 42-87, 42-121, 82-213, 106-2 and 106-136 and adding and enacting a new Section 206-201 thereof, enacting new regulations, prohibitions and enforcement provisions required by the USEPA and the IDNR relating to stormwater runoff control plans and relating to the maintenance of stormwater management facilities, as follows:

Sec. 42-86. Permits required.

- (a) No person shall grade, strip, excavate, fill, stockpile or cause any non-agricultural earth change on any site without a grading permit issued by the city engineer for any of the following purposes:

- (1) Platting of land pursuant to chapter 106, pertaining to subdivisions, of this Code.
 - (2) Development of land for which a site plan is required, pursuant to article V of chapter 82 of this Code.
 - (3) Installation of utility improvements in trenches that are greater than one foot in width or underground appurtenances with an excavated surface area greater than 400 square feet by a public or private utility company.
 - (4) Excavation or the creation of any disturbed surface of 500 square feet or more of cumulative area within 100 feet of a lake, pond, river, stream, recognized drainageway or within the defined flood fringe of a river or stream.
 - (5) Any excavation or cause of earth change more than an average of two feet in depth across 2,500 square feet or more of area, or creation of a disturbed area more than 20,000 square feet in area, excluding basement excavations and backfill, utility service connections for one- or two-family residential dwellings, and utility trenches no greater than one foot in width. This exception does not apply to construction activity which is part of a larger common plan of development that requires a NPDES General Permit No. 2.
 - (6) Any fill of dirt, stone, brick, concrete, soil or similar material covering a cumulative area larger than 2,500 square feet.
 - (7) Stockpiling of any granular construction material in excess of 5,000 cubic yards on any site.
- (b) A grading permit will not be necessary for any of the activities identified in subsection (a) of this section where, prior to formal application, the applicant receives from the city engineer a written statement that the planned work or final structures or topographical changes, as presented by the applicant to the city engineer prior to formal application, will not result in or contribute to accelerated soil erosion or sedimentation and will not significantly interfere with any existing drainage course. A grading permit will also not be required for work performed by city crews or for city construction projects under direct control of the city engineer.
- (c) Persons exempt from permitting requirements are nonetheless subject to illicit discharge regulations found in article IX of this chapter.

Sec. 42-87. Application data required.

Plans and specifications shall accompany each grading permit application and shall contain the following data unless otherwise included in the information required to be set forth in a preliminary plat or site plan;

- (1) A vicinity sketch at a scale of one inch to 400 feet or larger indicating the site location as well as the adjacent properties within 500 feet of the site boundaries.
- (2) A boundary line survey of the property on which the work is to be performed, unless waived by the city engineer.
- (3) A plan of the site at a scale of one inch to 100 feet or larger, on 24-inch by 36-inch reproducible sepia, vellum or Mylar showing the following:
 - a. The names, addresses, and telephone numbers of the landowner, developer, and petitioner.
 - b. A time schedule indicating the anticipated starting and completion dates of the development's construction sequence and the time of exposure of each area prior to the completion of effective erosion and sediment control measures.
 - c. A SWPPP for sites of one acre or more.
 - d. Existing topography with contour intervals at least every two feet of elevation change with a minimum of two contour lines for each site.
 - e. Proposed topography with contour intervals at least every two feet of elevation change with a minimum of two contour lines for each site.
 - f. Location of any structure or natural feature, including existing trees six inches or larger in diameter or tree groups, rock outcrops, landslide area, springs and streams and other water bodies and any areas subject to flooding on the site or within 50 feet of the site boundary line.
 - g. Location of any proposed structures or development on the site.
 - h. Elevations, dimensions, location, extent, and the slope of all proposed grading.
 - i. The estimated total cost of the required temporary and permanent soil erosion control measures if such application for the grading permit is made pursuant to chapter 106, pertaining to subdivisions, of this Code.
 - j. Plans of all drainage provisions, retaining walls, cribbing, planting, erosion control measures, or other temporary or permanent soil erosion control measures to be constructed in connection with or as part of the proposed work.
 - k. A map or other document sufficient to show the drainage area of land tributary to the site and estimated runoff of the area served by any drains.
 - l. A soils report for the plat by a licensed professional engineer experienced in soils investigation. The content of such report shall be at the discretion of the licensed engineer, shall

show general soil conditions, and shall include recommendations as to the adaptability of such soils for the proposed development. The city engineer may, in his or her discretion, waive this requirement.

- m. The location of all soil borrow or spoil sites and the proposed routes from the borrow or spoil sites to the job site.
- n. Certification by a licensed engineer, architect or landscape architect.
- o. A Stormwater Runoff Control Plan in compliance with section 106-136 of the municipal code.

Small fill projects located on residential lots that exceed the area limits of section 42-86(a)(6), but are less than one acre, may be exempt from submitting a plan if, in the opinion of the city engineer, it has been demonstrated that adequate preventative measures will be taken to prevent any accelerated soil erosion or sedimentation or interference with any natural drainageway or storm sewer or constructed channel.

Sec. 42-121. Grading operations.

The applicant or the owner of the property or any part thereof shall be responsible for the following:

- (1) The prevention of damage to any public utilities or services within the limits of grading and along any routes of travel of the equipment.
- (2) The prevention of damage of adjacent property.
- (3) Carrying out the proposed work so as not to grade on land so close to the property line as to endanger any adjoining public street, sidewalk, alley, or any other public or private property without supporting and protecting such property from settling, cracking, or other damage which might result.
- (4) Carrying out the proposed work in compliance with the approved plans, the requirements of this article, the NPDES General Permit No. 2 covering the property, the SWPPP covering the property, and all applicable state and federal laws and regulations, and in compliance with section 106-136 of the municipal code.
- (5) The prompt removal of excessive soil, miscellaneous debris, or other materials applied, dumped, or otherwise deposited on public streets, highways, sidewalks, or other public thoroughfares during transit to and from the construction site so as to prevent a violation of section 42-349 of this chapter.
- (6) Completing the grading operation and the erosion control measures within the approved time schedule.
- (7) Conducting any earth changes in such a manner as to effectively reduce accelerated soil erosion and resulting

sedimentation.

- (8) Designing, implementing and maintaining acceptable soil erosion and sedimentation control measures, in conformance with the Soil Conservation Districts Law, I.C. § 161A.1 et seq., and the adopted rules of the Polk Soil Conservation District as they pertain to erosion control and which effectively reduce accelerated soil erosion.
- (9) Designing, constructing and completing all earth changes in such manner that the exposed area of any disturbed land shall remain exposed for the shortest possible period of time so as to prevent a violation of section 42-349.
- (10) Updating, amending, implementing and maintaining the SWPPP, making required inspections and keeping inspection reports, and retaining all plans and reports, in accordance with the applicant's NPDES General Permit No. 2 requirements.

Sec. 82-213. Design regulations.

The design regulations provided in this section are necessary to ensure the orderly and harmonious development of property in such manner as will safeguard the public's health, safety and general welfare and to ensure that the future development of property in the city will not be foreclosed by such development. The decision to approve, approve subject to conditions or disapprove a proposed site plan shall be based upon the conformance of the site plan with the following design regulations:

- (1) The design of the proposed development shall make adequate provisions for surface and subsurface drainage, including submittal of a Stormwater Runoff Control Plan in compliance with section 106-136 of the municipal code, for connections to water and sanitary sewer lines, each so designed as to neither overload nor to substantially decrease the capacity of existing public utility lines in a fashion that will serve to inhibit or preclude the planned future development of other property within the city and so as not to increase the danger of erosion, flooding, landslide, or other endangerment of adjoining or surrounding property. The city's comprehensive plan shall be the principal guide in determining the prospective use and population density of other properties. However, the factors to be considered in arriving at conclusions on standards of design shall include those set forth in subsection 82-206(b)(2) of this article.
- (2) The proposed development shall be designed and located within the property in such manner as not to unduly diminish or impair the use and enjoyment of adjoining property and to this end shall minimize the adverse effects on such adjoining properties from automobile headlights, illumination of

- required perimeter yards, refuse containers, and impairment of light and air. For purposes of this subsection, the term "use and enjoyment of adjoining property" shall mean the use and enjoyment presently being made of such adjoining property, unless such property is vacant. If vacant, the term "use and enjoyment of adjoining property" shall mean those uses permitted under the zoning district in which such adjoining property is located.
- (3) The proposed development shall have such entrances and exits upon adjacent streets and such internal traffic circulation patterns as will not unduly increase congestion on adjacent or surrounding public streets and in a manner which will conform to the proposed future circulation of traffic throughout the city and provide for adequate fire protection access.
 - (4) To such end as may be necessary and proper to accomplish the standards in subsections (1), (2), and (3) of this section, the proposed development shall provide water, sewer, stormwater, street, erosion control or other improvements.
 - (5) All electrical, telephone, and cable television transmission systems shall be placed underground whenever reasonably practicable.
 - (6) The proposed development shall conform to all applicable provisions of state law and all applicable sections of this Code.
 - (7) If the private property is connected to the existing skywalk system, as shown on the official skywalk map, or the applicant intends to connect to the planned skywalk system, as shown on the skywalk system plan map, the proposed development shall have such connections to the existing and planned skywalk system and such internal skywalk system pattern as will best permit the optimal expansion of the skywalk system to serve the greatest number of properties possible and best provide for the expected skywalk system traffic through the property. If the private property is not connected to the existing skywalk system, as shown on the official skywalk map, and the applicant does not intend to connect to the planned skywalk system, as shown on the skywalk system plan map, this design standard shall not apply to the proposed site plan.
 - (8) The proposed development shall provide landscaping, including plantings fences and screening in accordance with the landscape standards in the adopted site plan policies.
 - (9) The stormwater runoff control facilities installed in compliance with the Stormwater Runoff Control Plan shall be maintained in compliance with section 106-136 of the municipal code.

Sec. 106-2. Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section,

except where the context clearly indicates a different meaning:

Alley means a public or private right-of-way primarily designed to serve as secondary access to the side or rear of those properties whose principal frontage is on some other street.

Applicant means a proprietor or subdivider of land proposed to be subdivided or his or her representative.

Auditor's plat means a subdivision plat required by either the county auditor or the county assessor and prepared by a registered land surveyor under the direction of the county auditor.

Benefited property means the property identified in the Stormwater Runoff Control Plan and the Stormwater Facility Maintenance Covenant and Permanent Easement Agreement as being served by the stormwater maintenance facility to control and address storm water runoff from the property.

Bond means cash deposits, surety bonds or instruments of credit in an amount and form satisfactory to the city attorney and finance director or their authorized representatives.

Building means any structure, excluding signs and billboards, designed or intended for the support, enclosure, shelter or protection of persons, animals or property.

Building line means a line on a plat between which line and public right-of-way line no buildings or other structures may be erected.

City engineer means the chief civil engineer of the city or his or her designated representative.

Cluster subdivision means an alternative to conventional subdivision development wherein variable lot sizes are permitted in conjunction with a minimum lot size standard and which retains the same types and density of uses established by the applicable regulations and restrictions of chapter 134 of this Code.

Commission means the city plan and zoning commission.

Comprehensive plan means the current comprehensive plan for the general development of the city adopted by the city council pursuant to section 82-77 of this Code, including any part of such plan and any amendment to such plan separately adopted.

Construction plan means the maps or drawings prepared by a registered professional engineer accompanying a plat and showing the specific location and design of improvements to be installed in the subdivision in accordance with the requirements of the city engineer and the plan and zoning commission.

Design standards means the design standards policy manual for construction of public improvements approved by the commission and adopted by the city council.

Drainageway, improved means an improved ditch with invert protection, graded slopes and controlled velocities.

Drainageway, natural means an existing ditch in as natural a condition as possible and which can be maintained as such in the opinion of the city engineer.

Escrow means a deposit of cash with the city in lieu of an amount required and still in force under the surety bond and placed

in an identified separate account by the city treasurer.

Flood fringe means the portion of a floodplain between a floodway and the outer limits of a 100-year flood.

Floodway means the channel of a stream or other watercourse and the adjacent land areas required to carry and discharge a 100-year flood.

Grade means the slope of a road, street or other public way, specified in percent of vertical to horizontal measurements.

Improvement means any drainage ditch, roadway, parkway, storm sewer, sanitary sewer, water main, sidewalk, pedestrian way, or other facility for which the city may ultimately assume the responsibility for maintenance and operation or which may affect an improvement for which city responsibility is established.

Lot means a tract of land in a subdivision intended as a unit for the purpose, whether immediate or future, of transfer of ownership or for building development and represented and identified by a letter or number designation on a plat.

Model building means a building used initially for display purposes which typifies the type of units that will be constructed in the subdivision.

Official plat means either a subdivision plat or an auditor's plat that meets the requirements of I.C. § 354.1 et seq., and this chapter and that has been filed for record in the offices of the county recorder, auditor and assessor.

Parcel means a part of a tract of land.

Permit and development center coordinator means the individual assigned to manage the city permit and development center.

Planning director means the planning director of the city or his or her designated representative.

Plans of record means plans prepared by a registered professional engineer showing his or her signature and certifying that the public improvements have been constructed as shown.

Plat means a graphical representation of the subdivision of land, prepared by a registered land surveyor, having a number or letter designation for each lot and a succinct name or title that is unique.

Plat, major means any subdivision plat which incorporates a new street.

Plat, minor means any subdivision plat which does not include a new street.

Plat of survey means the graphical representation of a survey of one or more parcels of land, including a complete and accurate description of each parcel within the plat, prepared by a registered land surveyor.

Proprietor means any person who has a recorded interest in land sought to be subdivided under this chapter, including a person selling or buying the land pursuant to a contract, but excluding persons holding a mortgage, easement or lien interest.

Registered land surveyor means a land surveyor properly

56
47
45
63A

licensed and registered in the state who engages in the practice of land surveying pursuant to I.C. ch. 542B.

Registered professional engineer means an engineer properly licensed and registered in the state who engages in the practice of engineering pursuant to I.C. ch. 542B.

Responsible party means the applicant and owner, and all benefited property owners responsible for maintenance of the storm water management facility. The city shall only authorize a transfer of such responsibility from the applicant or owner to owners of the benefited property.

Right-of-way means a strip of land to be dedicated as a roadway, walkway, or another special use established and shown on a final plat as separate and distinct from the adjoining lots and not included within the dimensions of such lots.

Standard specifications means the standard specifications for construction of public improvements adopted by the city council.

Stormwater Facility Maintenance Covenant and Permanent Easement Agreement or Stormwater Facility Maintenance Agreement means that covenant and easement agreement that has been approved in writing by the city engineer which is binding on all subsequent owners of land and benefited property served by the stormwater management facilities and is recorded in the applicable county recorder's office. The Stormwater Facility Maintenance Agreement shall provide for the access to the stormwater management facilities and the land it serves at reasonable time for inspection by the responsible party and the city and for regular or special assessments of property owners to ensure that the stormwater management facilities are maintained in proper working condition.

Stormwater Management Facility means those structures and plantings designed and installed pursuant to an approved stormwater runoff control plan pursuant to section 106-136.

Street classifications means an assignment of functional character and carrying capacity to streets and highways officially given in the urban transportation plan.

Street, dead-end means a street permanently or temporarily closed to through traffic.

Street, major means a street that provides for traffic movement between collector or arterial streets and local streets and direct access to abutting property.

Street, minor means a local service street used primarily for access to abutting property.

Street tree means a tree in a public place, street, special easement, or right-of-way adjoining a street.

Structure means anything constructed or erected with a fixed location on the ground, or attached to something having a fixed location on the ground.

Subdivider means any person who:

- (1) Having an interest in the land, causes it, directly or indirectly, to be divided into a subdivision or to be included in a proposed subdivision;

- (2) Directly or indirectly, sells, leases, or develops or offers to sell, lease, or develop or advertise for sale, lease, or development any interest, lot, parcel, site, unit, or plat in a proposed subdivision; or
- (3) Engages, directly or through an agent, in the business of selling, leasing, developing or offering for sale, lease, or development a subdivision or any interest, lot, parcel, site, unit, or plat in a proposed subdivision.

Subdivision means a tract of land divided or proposed to be divided into three or more parcels, whether by subdivision plat, plat of survey, or otherwise; the act of creating a subdivision.

Tract means an aliquot part of a section within the United States public land survey system, a lot within an official plat, or a government lot.

Urban transportation plan means a part of the comprehensive plan providing for the development of traffic circulation throughout the city in a manner that will safely accommodate increased traffic volume at optimal speeds.

Zoning ordinance means the official zoning ordinance of the city, together with any and all amendments thereto, set forth in article X of chapter 22 and in chapter 134 of this Code.

Sec. 106-136. Detention of ~~stormwater runoff~~ Stormwater runoff control.

- ~~(a) When the proposed subdivision may have a detrimental effect by increasing the intensity of stormwater runoff into the city stormwater drainage system or onto adjoining properties, detention methods may be required by the city engineer to ensure the on-site control of such runoff.~~

The following stormwater runoff control and reduction requirements shall apply to all subdivisions, as well as new developments permitted by site plans and grading permits for land one acre or larger or less than one acre but which is part of a larger common plan of development that is one acre or larger, and no subdivision approval, site plan approval, or grading permit may be issued until the applicant has complied with the requirements of this section 106-136:

- (a) A Stormwater Runoff Control Plan, prepared and certified by a Professional Engineer, Architect or Landscape Architect licensed in the State of Iowa and familiar with retention and detention calculations and stormwater runoff control methods and techniques, must be submitted by the applicant for approval by the city engineer. Such Plan shall include all reports, tests and calculations and all other information required by the city engineer to determine the viability of the such Plan
- (b) A Stormwater Runoff Control Plan shall reduce projected runoff for a project by controlling rain events that total 1.25" or less in a 24 hour period, with the resulting volume being

