CHAPTER 145

DANGEROUS BUILDINGS

145.01 Enforcement Officer
145.02 General Definition of Unsafe
145.03 Unsafe Building
145.04 Notice to Owner
145.05 Conduct of Hearing
145.06 Posting of Signs
145.07 Right to Demolish; Municipal Infraction
145.08 Costs

145.01 ENFORCEMENT OFFICER. The Mayor is responsible for the enforcement of this chapter.

145.02 GENERAL DEFINITION OF UNSAFE. All buildings or structures that are structurally unsafe or not provided with adequate egress, or that constitute a fire hazard, or are otherwise dangerous to human life, or that in relation to existing use constitute a hazard to safety or health, or public welfare, by reason of inadequate maintenance, dilapidation, obsolescence, or abandonment, are, for the purpose of this chapter, unsafe buildings. All such unsafe buildings are hereby declared to be public nuisances and shall be abated by repair, rehabilitation, demolition, or removal in accordance with the procedure specified in this chapter.

(Code of Iowa, Sec. 657A.1 & 364.12[3a])

145.03 UNSAFE BUILDING. "Unsafe building" means any structure or mobile home meeting any or all of the following criteria:

1. Various Inadequacies. Whenever the building or structure, or any portion thereof, because of: (i) dilapidation, deterioration, or decay; (ii) faulty construction; (iii) the removal, movement, or instability of any portion of the ground necessary for the purpose of supporting such building; (iv) the deterioration, decay, or inadequacy of its foundation; or (v) any other cause, is likely to partially or completely collapse.

2. Manifestly Unsafe. Whenever, for any reason, the building or structure, or any portion thereof, is manifestly unsafe for the purpose for which it is being used.

3. Inadequate Maintenance. Whenever a building or structure, used or intended to be used for dwelling purposes, because of dilapidation, decay, damage, faulty construction, or otherwise, is determined by any health officer to be unsanitary, unfit for human habitation or in such condition that it is likely to cause sickness or disease.

4. Fire Hazard. Whenever any building or structure, because of dilapidated condition, deterioration, damage, or other cause, is determined by the Fire Marshal or Fire Chief to be a fire hazard.

5. Abandoned. Whenever any portion of a building or structure remains on a site after the demolition or destruction of the building or structure or whenever any building or structure is abandoned for a period in excess of six months so as to constitute such building or portion thereof an attractive nuisance or hazard to the public.

145.04 NOTICE TO OWNER. The enforcement officer shall examine or cause to be examined every building or structure or portion thereof reported as dangerous or damaged and, if such is found to be an unsafe building as defined in this chapter, the enforcement officer shall give to the owner of such building or structure written notice stating the defects thereof. This notice may require the owner or person in charge of the building or premises, within 48 hours

or such reasonable time as the circumstances require, to commence either the required repairs or improvements or demolition and removal of the building or structure or portions thereof, and all such work shall be completed within 90 days from date of notice, unless otherwise stipulated by the enforcement officer. If necessary, such notice shall also require the building, structure, or portion thereof to be vacated forthwith and not reoccupied until the required repairs and improvements are completed, inspected, and approved by the enforcement officer.

(Code of Iowa, Sec. 364.12[3h])

1. Notice Served. Such notice shall be served by sending by certified mail to the owner of record, according to Section 364.12[3h] of the *Code of Iowa*, if the owner is found within the City limits. If the owner is not found within the City limits, such service may be made upon the owner by registered mail or certified mail. The designated period within which said owner or person in charge is required to comply with the order of the enforcement officer shall begin as of the date the owner receives such notice.

2. Hearing. Such notice shall also advise the owner that he or she may request a hearing before the Council on the notice by filing a written request for hearing within the time provided in the notice.

145.05 CONDUCT OF HEARING. If requested, the Council shall conduct a hearing in accordance with the following:

1. Notice. The owner shall be served with written notice specifying the date, time and place of hearing.

2. Owner's Rights. At the hearing, the owner may appear and show cause why the alleged nuisance shall not be abated.

3. Determination. The Council shall make and record findings of fact and may issue such order as it deems appropriate.[†]

145.06 POSTING OF SIGNS. The enforcement officer shall cause to be posted at each entrance to such building a notice to read: "DO NOT ENTER. UNSAFE TO OCCUPY. CITY OF SHEFFIELD, IOWA." Such notice shall remain posted until the required demolition, removal or repairs are completed. Such notice shall not be removed without written permission of the enforcement officer and no person shall enter the building except for the purpose of making the required repairs or of demolishing the building.

145.07 RIGHT TO DEMOLISH; MUNICIPAL INFRACTION. In case the owner fails, neglects, or refuses to comply with the notice to repair, rehabilitate, or to demolish and remove the building or structure or portion thereof, the Council may order the owner of the building prosecuted as a violator of the provisions of this chapter and may order the enforcement officer to proceed with the work specified in such notice. A statement of the cost of such work shall be transmitted to the Council. As an alternative to this action, the City may utilize the municipal infraction process to abate the nuisance.

(Code of Iowa, Sec. 364.12[3h])

[†] **EDITOR'S NOTE:** Suggested forms of notice and of a resolution and order of the Council for the administration of this chapter are provided in the APPENDIX to this Code of Ordinances. Caution is urged in the use of this procedure. We recommend you review the situation with your attorney before initiating procedures and follow his or her recommendation carefully.

145.08 COSTS. Costs incurred under Section 145.07 shall be paid out of the City treasury. Such costs shall be charged to the owner of the premises involved and levied as a special assessment against the land on which the building or structure is located, and shall be certified to the County Treasurer for collection in the manner provided for other taxes. In addition, the City may take any other action deemed appropriate to recover costs incurred.

(Code of Iowa, Sec. 364.12[3h])

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CHAPTER 146

MANUFACTURED AND MOBILE HOMES

146.01 Definitions
146.02 Conversion to Real Property
146.03 Foundation Requirements

146.01 DEFINITIONS. For use in this chapter the following terms are defined:
(Code of Iowa, Sec. 435.1)

1. "Manufactured home" means a factory-built structure built under the authority of 42 U.S.C. Sec. 5403 which was constructed on or after June 15, 1976, and is required by federal law to display a seal from the United States Department of Housing and Urban Development.

2. "Manufactured home community" means any site, lot, field, or tract of land under common ownership upon which ten or more occupied manufactured homes are harbored, either free of charge or for revenue purposes, and includes any building, structure or enclosure used or intended for use as part of the equipment of the manufactured home community.

3. "Mobile home" means any vehicle without motive power used or so manufactured or constructed as to permit its being used as a conveyance upon the public streets and highways and so designed, constructed or reconstructed as will permit the vehicle to be used as a place for human habitation by one or more persons; but also includes any such vehicle with motive power not registered as a motor vehicle in Iowa. A mobile home means any such vehicle built before June 15, 1976, which was not built to a mandatory building code and which contains no State or federal seals.

4. "Mobile home park" means any site, lot, field or tract of land upon which three or more mobile homes or manufactured homes, or a combination of any of these homes, are placed on developed spaces and operated as a for-profit enterprise with water, sewer or septic, and electrical services available.

The term "manufactured home community" or "mobile home park" is not to be construed to include manufactured or mobile homes, buildings, tents, or other structures temporarily maintained by any individual, educational institution, or company on its own premises and used exclusively to house said entity's own labor or students. The manufactured home community or mobile home park shall meet the requirements of any zoning regulations that are in effect.

146.02 CONVERSION TO REAL PROPERTY. A mobile home or manufactured home that is located outside a manufactured home community or mobile home park shall be converted to real estate by being placed on a permanent foundation and shall be assessed for real estate taxes except in the following cases:
(Code of Iowa, Sec. 435.26 & Sec. 435.35)

1. Retailer's Stock. Mobile homes or manufactured homes on private property as part of a retailer's or a manufacturer's stock not used as a place for human habitation.

2. Existing Homes. A taxable mobile home or manufactured home that is located outside of a manufactured home community or mobile home park as of January 1, 1995,

shall be assessed and taxed as real estate, but is exempt from the permanent foundation requirement of this chapter until the home is relocated.

146.03 FOUNDATION REQUIREMENTS. A mobile home or manufactured home located outside of a manufactured home community or mobile home park shall be placed on a permanent frost-free foundation system that meets the support and anchorage requirements as recommended by the manufacturer or required by the *State Building Code*. The foundation system must be visually compatible with permanent foundation systems of surrounding residential structures. Any such home shall be installed in accordance with the requirements of the *State Building Code*.

(Code of Iowa, Sec. 103A.10 & 414.28)

CHAPTER 147

FIRE LIMITS

147.01 Construction Within Fire Limits
147.02 Enforcement
147.03 Construction in Residential District Adjacent to Commercial District

147.01 CONSTRUCTION WITHIN FIRE LIMITS. The erection of any building or structure of any kind, or additions thereto, or substantial alteration or rebuilding thereof within the Commercial District, is prohibited unless the outer walls of the said building and/or improvement are constructed of brick, cement, block, mortar, stone, vinyl, asbestos or other composition or material approved as fire resistant by the National Board of Fire Underwriters and unless the roof material is likewise so approved.

147.02 ENFORCEMENT. The requirements of this chapter shall be enforced by the Fire Chief of the City. The City Zoning Administrator shall provide the Fire Chief with a copy of all building permits issued for construction within the area designated within this chapter.

147.03 CONSTRUCTION IN RESIDENTIAL DISTRICT ADJACENT TO COMMERCIAL DISTRICT. Residences and other complying buildings hereafter erected in the following residential district:

> The South Half (S½) of Blocks Seven (7) and Ten (10) and the North Half (N½) of Blocks Six (6) and Eleven (11), Original Town Plat,

which areas abut the Commercial District, shall be permitted only if the roof and siding are of fire resistant material; however, wood siding and trim for entryways, porches, windows, doors, decorative and similar purposes may be permitted. The Zoning Administrator shall not issue building permits for residences in these areas unless they comply with this basic plan.

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CHAPTER 148

WATER WELL PROTECTION

148.01 Purpose
148.02 Enforcement
148.03 Restrictions and Criteria

148.01 PURPOSE. The purpose of this chapter is to regulate the use of land surrounding wells and water supplies to prevent contamination of water supplies and to insure and maintain a safe water supply for the residents of the City.

148.02 ENFORCEMENT. The Water Superintendent of the City and/or the Clerk shall enforce the provisions of this chapter. This chapter applies to replacements of existing facilities or uses as well as to future facilities or use. The Water Superintendent may make such regulations as are necessary to enforce this chapter and that do not conflict with this chapter or this Code of Ordinances.

148.03 RESTRICTIONS AND CRITERIA. No structure or facility of the enumerated types set out in the following Table A shall be located within the distances set forth in said Table from public wells within the City. Prescriptions set forth in Table A shall apply to all public wells existing within the City, except public water wells formerly abandoned for use by resolution of the Council.

TABLE A: SEPARATION DISTANCES

SOURCE OF CONTAMINATION	REQUIRED MINIMUM DISTANCE FROM WELL, IN FEET	
	Deep Well[1]	Shallow Well[1]
WASTEWATER STRUCTURES:		
Point of Discharge to Ground Surface		
Sanitary and industrial discharges	400	400
Water treatment plant wastes	50	50
Well house floor drains	5	5
Sewers and Drains[2]		
Sanitary and storm sewers, drains	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Sewer force mains	0 – 75 feet: prohibited 75 – 400 feet if water main pipe 400 – 1,000 feet if water main or sanitary sewer pipe	0 – 75 feet: prohibited 75 – 400 feet if water main pipe 400 – 1,000 feet if water main or sanitary sewer main pipe
Water plant treatment process wastes that are treated onsite	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer pipe	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer main pipe
Water plant wastes to sanitary sewer	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Well house floor drains to sewers	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer pipe	0 – 25 feet: prohibited 25 – 75 feet if water main pipe 75 – 200 feet if sanitary sewer main pipe
Well house floor drains to surface	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer pipe	0 – 5 feet: prohibited 5 – 50 feet if sanitary sewer main pipe
Land Disposal of Treated Wastes		
Irrigation of wastewater	200	400
Land application of solid wastes[3]	200	400
Other		
Cesspools and earth pit privies	200	400
Concrete vaults and septic tanks	100	200
Lagoons	400	1,000
Mechanical wastewater treatment plants	200	400
Soil absorption fields	200	400

SOURCE OF CONTAMINATION	REQUIRED MINIMUM DISTANCE FROM WELL, IN FEET	
	Deep Well[1]	Shallow Well[1]
CHEMICALS:		
Chemical application to ground surface	100	200
Chemical & mineral storage above ground	100	200
Chemical & mineral storage on or under ground	200	400
Transmission pipelines (such as fertilizer, liquid petroleum, or anhydrous ammonia)	200	400
ANIMALS:		
Animal pasturage	50	50
Animal enclosure	200	400
Earthen silage storage trench or pit	100	200
Animal Wastes		
Land application of liquid or slurry	200	400
Land application of solids	200	400
Solids stockpile	200	400
Storage basin or lagoon	400	1,000
Storage tank	200	400
MISCELLANEOUS:		
Basements, pits, sumps	10	10
Cemeteries	200	200
Cisterns	50	100
Flowing streams or other surface water bodies	50	50
Railroads	100	200
Private wells	200	400
Solid waste landfills and disposal sites[4]	1,000	1,000

[1] Deep and shallow wells, as defined in IAC 567-40.2(455B): A deep well is a well located and constructed in such a manner that there is a continuous layer of low permeability soil or rock at least five3 feet thick located at least 25 feet below the normal ground surface and above the aquifer from which water is to be drawn. A shallow well is a well located and constructed in such a manner that there is not a continuous layer of low permeability soil or rock (or equivalent retarding mechanism acceptable to the department) at least five feet thick, the top of which is located at least 25 feet below the normal ground surface and above the aquifer from which water is to be drawn.

[2] The separation distances are dependent upon two factors: the type of piping that is in the existing sewer or drain, as noted in the table, and that the piping was properly installed in accordance with the standards.

[3] Solid wastes are those derived from the treatment of water or wastewater. Certain types of solid wastes from water treatment processes may be land–applied within the separation distance on an individual, case-by-case basis.

[4] Solid waste means garbage, refuse, rubbish, and other similar discarded solid or semisolid materials, including but not limited to such materials resulting from industrial, commercial, agricultural, and domestic activities

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CHAPTER 150

BUILDING NUMBERING

150.01 Definitions
150.02 Owner Requirements
150.03 Building Numbering Plan

150.01 DEFINITIONS. For use in this chapter, the following terms are defined:

1. "Owner" means the owner of the principal building.

2. "Principal building" means the main building on any lot or subdivision thereof.

150.02 OWNER REQUIREMENTS. Every owner shall comply with the following numbering requirements:

1. Obtain Building Number. The owner shall obtain the assigned number to the principal building from the Clerk.

(Code of Iowa, Sec. 364.12[3d])

2. Display Building Number. The owner shall place or cause to be installed and maintained on the principal building the assigned number in a conspicuous place to the street in figures not less than 2½ inches in height and of a contrasting color with their background.

(Code of Iowa, Sec. 364.12[3d])

3. Failure to Comply. If an owner refuses to number a building as herein provided, or fails to do so for a period of 30 days after being notified in writing by the City to do so, the City may proceed to place the assigned number on the principal building and assess the costs against the property for collection in the same manner as a property tax.

(Code of Iowa, Sec. 364.12[3h])

150.03 BUILDING NUMBERING PLAN. Building numbers shall be assigned in accordance with the building numbering plan on file in the office of the Clerk.

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CHAPTER 151

TREES

151.01 Definition
151.02 Planting Restrictions
151.03 Duty to Trim Trees
151.04 Trimming Trees to Be Supervised
151.05 Disease Control
151.06 Inspection and Removal

151.01 DEFINITION. For use in this chapter, "parking" means that part of the street, avenue, or highway in the City not covered by sidewalk and lying between the lot line and the curb line or, on unpaved streets, that part of the street, avenue, or highway lying between the lot line and that portion of the street usually traveled by vehicular traffic.

151.02 PLANTING RESTRICTIONS. No tree shall be planted in any parking or street except in accordance with the following:

1. Alignment. All trees planted in any street shall be planted in the parking midway between the outer line of the sidewalk and the curb. In the event a curb line is not established, trees shall be planted on a line 10 feet from the property line.

2. Spacing. Trees shall not be planted on any parking that is less than nine feet in width, or contains less than 81 square feet of exposed soil surface per tree. Trees shall not be planted closer than 20 feet from street intersections (property lines extended) and 10 feet from driveways. If it is at all possible, trees should be planted inside the property lines and not between the sidewalk and the curb.

3. Prohibited Trees. No person shall plant in any street any fruit-bearing tree or any tree of the kinds commonly known as cottonwood, poplar, box elder, Chinese elm, evergreen, willow, or black walnut.

151.03 DUTY TO TRIM TREES. The owner or agent of the abutting property shall keep the trees on, or overhanging the street, trimmed so that all branches will be at least 15 feet above the surface of the street and eight feet above the sidewalks. If the abutting property owner fails to trim the trees, the City may serve notice on the abutting property owner requiring that such action be taken within five days. If such action is not taken within that time, the City may perform the required action and assess the costs against the abutting property for collection in the same manner as a property tax.

(Code of Iowa, Sec. 364.12[2c, d & e])

151.04 TRIMMING TREES TO BE SUPERVISED. Except as allowed in Section 151.03, it is unlawful for any person to trim or cut any tree in a street or public place unless the work is done under the supervision of the City.

151.05 DISEASE CONTROL. Any dead, diseased, or damaged tree or shrub that may harbor serious insect or disease pests or disease injurious to other trees is hereby declared to be a nuisance.

151.06 INSPECTION AND REMOVAL. The Council shall inspect or cause to be inspected any trees or shrubs in the City reported or suspected to be dead, diseased or damaged, and such trees and shrubs shall be subject to the following:

1. City Property. If it is determined that any such condition exists on any public property, including the strip between the curb and the lot line of private property, the Council may cause such condition to be corrected by treatment or removal. The Council may also order the removal of any trees on the streets of the City which interfere with the making of improvements or with travel thereon.

2. Private Property. If it is determined with reasonable certainty that any such condition exists on private property and that danger to other trees or to adjoining property or passing motorists or pedestrians is imminent, the Council shall notify by certified mail the owner, occupant or person in charge of such property to correct such condition by treatment or removal within 14 days of said notification. If such owner, occupant, or person in charge of said property fails to comply within 14 days of receipt of notice, the Council may cause the condition to be corrected and the cost assessed against the property.

(Code of Iowa, Sec. 364.12[3b & h])

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CHAPTER 160

FLOOD PLAIN REGULATIONS

160.01 Definitions
160.02 Statutory Authority, Findings of Fact and Purpose
160.03 General Provisions
160.04 Administration
160.05 Flood Plain Management Standards
160.06 Establishment of Variance Procedures
160.07 Nonconforming Uses
160.08 Penalties for Violation
160.09 Amendments

160.01 DEFINITIONS. Unless specifically defined below, words or phrases used in this chapter shall be interpreted so as to give them the meaning they have in common usage and to give this chapter its most reasonable application.

1. "Appurtenant structure" means a structure which is on the same parcel of the property as the principal structure to be insured and the use of which is incidental to the use of the principal structure.

2. "Base flood" means the flood having one percent chance of being equaled or exceeded in any given year (also commonly referred to as the "100-year flood").

3. "Base flood elevation" (BFE) means the elevation floodwaters would reach at a particular site during the occurrence of a base flood event.

4. "Basement" means any enclosed area of a building which has its floor or lowest level below ground level (subgrade) on all sides. Also see "lowest floor."

5. "Development" means any manmade change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation, drilling operations or storage of equipment or materials. "Development" does not include minor projects or routine maintenance of existing buildings and facilities, as defined in this section. It also does not include gardening, plowing, and similar practices that do not involve filling or grading.

6. "Enclosed area below lowest floor" means the floor of the lowest enclosed area in a building when all the following criteria are met:

   A. The enclosed area is designed to flood to equalize hydrostatic pressure during flood events with walls or openings that satisfy the provisions of 160.05(4)(A) of this chapter; and

   B. The enclosed area is unfinished (not carpeted, drywalled, etc.) and used solely for low damage potential uses such as building access, parking or storage; and

   C. Machinery and service facilities (e.g., hot water heater, furnace, electrical service) contained in the enclosed area are located at least one foot above the base flood elevation; and

   D. The enclosed area is not a basement, as defined in this section.

7. "Existing construction" means any structure for which the start of construction commenced before the effective date of the first floodplain management regulations adopted by the community.

8. "Existing factory-built home park or subdivision" means a factory-built home park or subdivision for which the construction of facilities for servicing the lots on which the factory-built homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before the effective date of the first floodplain management regulations adopted by the community.

9. "Expansion of existing factory-built home park or subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the factory-built homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

10. "Factory-built home" means any structure, designed for residential use which is wholly or in substantial part, made, fabricated, formed or assembled in manufacturing facilities for installation or assembly and installation, on a building site. For the purpose of this chapter factory-built homes include mobile homes, manufactured homes, and modular homes; and also includes recreational vehicles which are placed on a site for greater than 180 consecutive days and not fully licensed for and ready for highway use.

11. "Factory-built home park" means a parcel or contiguous parcels of land divided into two or more factory-built home lots for sale or lease.

12. "500-year flood" means a flood, the magnitude of which has a two-tenths percent chance of being equaled or exceeded in any given year or which, on average, will be equaled or exceeded at least once every 500 years.

13. "Flood" means a general and temporary condition of partial or complete inundation of normally dry land areas resulting from the overflow of streams or rivers or from the unusual and rapid runoff of surface waters from any source.

14. "Flood insurance rate map" (FIRM) means the official map prepared as part of (but published separately from) the Flood Insurance Study which delineates both the flood hazard areas and the risk premium zones applicable to the community.

15. "Flood insurance study" (FIS) means a report published by FEMA for a community issued along with the community's Flood Insurance Rate Map(s). The study contains such background data as the base flood discharge and water surface elevations that were used to prepare the FIRM.

16. "Flood plain" means any land area susceptible to being inundated by water as a result of a flood.

17. "Flood plain management" means an overall program of corrective and preventive measures for reducing flood damages and promoting the wise use of flood plains, including but not limited to emergency preparedness plans, flood control works, floodproofing and flood plain management regulations.

18. "Flood proofing" means any combination of structural and nonstructural additions, changes, or adjustments to structures, including utility and sanitary facilities, which will reduce or eliminate flood damage to such structures.

19. "Floodway" means the channel of a river or stream and those portions of the flood plains adjoining the channel, which are reasonably required to carry and discharge flood waters or flood flows so that confinement of flood flows to the floodway area will not cumulatively increase the water surface elevation of the base flood by more than one foot.

20. "Floodway fringe" means those portions of the special flood hazard area outside the floodway.

21. "Highest adjacent grade" means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.

22. "Historic structure" means any structure that is:

A. Listed individually in the National Register of Historic Places, maintained by the Department of Interior, or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing of the National Register;

B. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;

C. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or

D. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either: (i) by an approved state program as determined by the Secretary of the Interior; or (ii) directly by the Secretary of the Interior in states without approved programs.

23. "Lowest floor" means the floor of the lowest enclosed area in a building including a basement except when the criteria listed in the definition of "enclosed area below lowest floor" are met.

24. Maximum damage potential uses" means hospitals and like institutions; buildings or building complexes containing documents, data, or instruments of great public value; buildings or building complexes containing materials dangerous to the public or fuel storage facilities; power installations needed in emergency or other buildings or building complexes similar in nature or use.

25. "Minor projects" means small development activities (except for filling, grading and excavating) valued at less than $500.00.

26. "New construction" (new buildings, factory-built home parks) means those structures or development for which the start of construction commenced on or after the effective date of the first flood plain management regulations adopted by the community.

27. "New factory-built home park or subdivision" means a factory-built home park or subdivision for which the construction of facilities for servicing the lots on which the factory-built homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on or after the effective date of the effective date of the first flood plain management regulations adopted by the community.

28. "Recreational vehicle" means a vehicle which is:

A. Built on a single chassis;

B. Four hundred (400) square feet or less when measured at the largest horizontal projection;

C. Designed to be self-propelled or permanently towable by a light duty truck; and

D. Designed primarily not for use as a permanent dwelling but as a temporary living quarters for recreational, camping, travel, or seasonal use.

29. "Routine maintenance of existing buildings and facilities" means repairs necessary to keep a structure in a safe and habitable condition that do not trigger a building permit, provided they are not associated with a general improvement of the structure or repair of a damaged structure. Such repairs include:

A. Normal maintenance of structures such as re-roofing, replacing roofing tiles and replacing siding;

B. Exterior and interior painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work;

C. Basement sealing;

D. Repairing or replacing damaged or broken window panes;

E. Repairing plumbing systems, electrical systems, heating or air conditioning systems and repairing wells or septic systems.

30. "Special flood hazard area" (SFHA) means the land within a community subject to the base flood. This land is identified on the community's Flood Insurance Rate Map as Zone A, A1-30, AE, AH, AO, AR, and/or A99.

31. "Start of construction" includes substantial improvement, and means the date the development permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement, was within 180 days of the permit date. The actual start means either the first placement or permanent construction of a structure on a site, such as pouring of a slab or footings, the installation of pile, the construction of columns, or any work beyond the stage of excavation; or the placement of a factory-built home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of the building, whether or not that alteration affects the external dimensions of the building.

32. "Structure" means anything constructed or erected on the ground or attached to the ground, including, but not limited to, buildings, factories, sheds, cabins, factory-built homes, storage tanks, grain storage facilities and/or other similar uses.

33. "Substantial damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damage condition would equal or exceed 50 percent of the market value of the structure before the damage occurred. Volunteer labor and donated materials shall be included in the estimated cost of repair.

34. "Substantial improvement" means any improvement to a structure which satisfies either of the following criteria:

A. Any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either: (i) before the start of construction of the improvement; or (ii) if the structure has been substantially damaged and is being restored, before the damage occurred.

The term does not, however, include any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions. The term also does not include any alteration of a historic structure, provided the alteration will not preclude the structure's designation as a historic structure.

B. Any addition which increases the original floor area of a building by 25 percent or more. All additions constructed after the effective date of the first floodplain management regulations adopted by the community shall be added to any proposed addition in determining whether the total increase in original floor space would exceed 25 percent.

35. "Variance" means a grant of relief by a community from the terms of the flood plain management regulations.

36. "Violation" means the failure of a structure or other development to be fully compliant with the community's flood plain management regulations.

160.02 STATUTORY AUTHORITY, FINDINGS OF FACT AND PURPOSE.

1. The Legislature of the State of Iowa has in Chapter 364, *Code of Iowa*, as amended, delegated the power to cities to exercise any power and perform any function it deems appropriate to protect and preserve the rights, privileges and property of the City or of its residents, and to preserve and improve the peace, safety, health, welfare, comfort and convenience of its residents.

2. Findings of Fact.

A. The flood hazard areas of the City are subject to periodic inundation which can result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base all of which adversely affect the public health, safety and general welfare of the community.

B. These flood losses, hazards, and related adverse effects are caused by: (i) the occupancy of flood hazard areas by uses vulnerable to flood damages which create hazardous conditions as a result of being inadequately elevated or otherwise protected from flooding; and (ii) the cumulative effect of obstructions on the flood plain causing increases in flood heights and velocities.

3. Statement of Purpose. It is the purpose of this chapter to protect and preserve the rights, privileges and property of the City and its residents and to preserve and improve the peace, safety, health, welfare, and comfort and convenience of its residents by minimizing those flood losses described in paragraph 2(A) of this section with provisions designed to:

A. Restrict or prohibit uses which are dangerous to health, safety or property in times of flood or which cause excessive increases in flood heights or velocities.

B. Require that uses vulnerable to floods, including public facilities which serve such uses, be protected against flood damage at the time of initial construction or substantial improvement.

C. Protect individuals from buying lands which may not be suited for intended purposes because of flood hazard.

D. Assure that eligibility is maintained for property owners in the community to purchase flood insurance through the National Flood Insurance Program.

160.03 GENERAL PROVISIONS.

1. Lands to Which Chapter Applies. The provisions of this chapter shall apply to all areas having special flood hazards within the jurisdiction of the City. For the purpose of this chapter, the special flood hazard areas are those areas designated as Zone A on the Flood Insurance Rate Map (FIRM) for Franklin County and Incorporated Areas, City of Sheffield, Panels 19069C0065C and 0070C, dated December 18, 2012, which is hereby adopted and made a part of this chapter.

2. Rules for Interpretation of Flood Hazard Boundaries. The boundaries of the Special Flood Hazard areas shall be determined by scaling distances on the official Flood Insurance Rate Map. When an interpretation is needed as to the exact location of a boundary, the Administrator shall make the necessary interpretation. The City Council shall hear and decide appeals when it is alleged that there is an error in any requirement, decision, or determination made by the Administrator in the enforcement or administration of this Ordinance.

3. Compliance. No structure or land shall hereafter be used and no structure shall be located, extended, converted or structurally altered without full compliance with the terms of this chapter and other applicable regulations which apply to uses within the jurisdiction of this chapter.

4. Abrogation and Greater Restrictions. It is not intended by this chapter to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this chapter imposes greater restrictions, the provisions of this chapter shall prevail. All other ordinances inconsistent with this chapter are hereby repealed to the extent of the inconsistency only.

5. Interpretation. In their interpretation and application, the provisions of this chapter shall be held to be minimum requirements and shall be liberally construed in favor of the governing body and shall not be deemed a limitation or repeal of any other powers granted by State statutes.

6. Warning and Disclaimer of Liability. The standards required by this chapter are considered reasonable for regulatory purposes. This chapter does not imply that areas outside the designated special flood hazard areas will be free from flooding or flood damages. This chapter shall not create liability on the part of the City or any officer or employee thereof for any flood damages that result from reliance on this chapter or any administrative decision lawfully made thereunder.

7. Severability. If any section, clause, provision or portion of this chapter is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of this chapter shall not be affected thereby.

160.04 ADMINISTRATION.

1. Appointment, Duties and Responsibilities of Mayor.

A. The Mayor is hereby appointed to implement and administer the provisions of this chapter and will herein be referred to as the Administrator.

B. Duties and responsibilities of the Administrator shall include, but not necessarily be limited to the following:

(1) Review all flood plain development permit applications to assure that the provisions of this chapter will be satisfied.

(2) Review flood plain development applications to assure that all necessary permits have been obtained from federal, state and local governmental agencies including approval when required from the Department of Natural Resources for flood plain construction.

(3) Record and maintain a record of: (i) the elevation (in relation to North American Vertical Datum 1988 of the lowest floor (including basement) of all new or substantially improved structures; or (ii) the elevation to which new or substantially improved structures have been floodproofed.

(4) Notify adjacent communities/counties and the Department of Natural Resources prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Emergency Management Agency.

(5) Keep a record of all permits, appeals and such other transactions and correspondence pertaining to the administration of this chapter.

(6) Submit to the Federal Insurance Administrator an annual report concerning the community's participation, utilizing the annual report form supplied by the Federal Insurance Administrator.

(7) Notify the Federal Insurance Administration of any annexations or modifications to the community's boundaries.

(8) Review subdivision proposals to insure such proposals are consistent with the purpose of this chapter and advise the City Council of potential conflict.

(9) Maintain the accuracy of the community's Flood Insurance Rate Maps when;

a. Development placed within the Floodway results in any of the following: (i) an increase in the Base Flood Elevations; or (ii) alteration to the floodway boundary.

b. Development place in Zones A, AE, AH, and A1-30 that does not include a designated floodway that will cause a rise of more than one foot in the base flood elevation; or

c. Development relocates or alters the channel.

Within 6 months of the completion of the development, the applicant shall submit to FEMA all scientific and technical data necessary for a Letter of Map Revision.

(10) Perform site inspections to ensure compliance with the standards of this Ordinance.

2. Flood Plain Development Permit.

A. Permit Required. A Flood Plain Development Permit issued by the Administrator shall be secured prior to any flood plain development (any manmade change to improved and unimproved real estate, including but not limited to buildings or other structures, mining, filling, grading, paving, excavation or drilling operations), including the placement of factory-built homes.

B. Application for Permit. Application shall be made on forms furnished by the Administrator and shall include the following:

(1) Description of the work to be covered by the permit for which application is to be made.

(2) Description of the land on which the proposed work is to be done (e.g., lot, block, track, street address or similar description) that will readily identify and locate the work to be done.

(3) Location and dimensions of all buildings and building additions.

(4) Indication of the use or occupancy for which the proposed work is intended.

(5) Elevation of the base flood.

(6) Elevation (in relation to North American Vertical Datum 1988 of the lowest floor (including basement) of buildings or of the level to which a building is to be floodproofed.

(7) For buildings being improved or rebuilt, the estimated cost of improvements and market value of the building prior to the improvements.

(8) Such other information as the Administrator deems reasonably necessary (e.g., drawings or a site plan) for the purpose of this chapter.

C. Action on Permit Application. The Administrator shall, within a reasonable time, make a determination as to whether the proposed flood plain development meets the applicable standards of this chapter and shall approve or disapprove the application. For disapprovals, the applicant shall be informed, in writing, of the specific reasons therefor. The Administrator shall not issue permits for variances except as directed by the City Council.

D. Construction and Use to Be as Provided in Application and Plans. Flood Plain Development Permits based on the basis of approved plans and applications authorize only the use, arrangement, and construction set forth in such approved plans and applications and no other use, arrangement or construction. Any use, arrangement, or construction at variance with that

authorized shall be deemed a violation of this chapter. The applicant shall be required to submit certification by a professional engineer or land surveyor, as appropriate, registered in the State of Iowa, that the finished fill, building floor elevations, flood proofing, or other flood protection measures were accomplished in compliance with the provisions of this chapter, prior to the use or occupancy of any structure.

160.05 FLOOD PLAIN MANAGEMENT STANDARDS. All uses must be consistent with the need to minimize flood damage and meet the following applicable performance standards. Where base flood elevations have not been provided in the Flood Insurance Study, the Iowa Department of Natural Resources shall be contacted to determine: (i) whether the land involved is either wholly or partly within the floodway or floodway fringe; and (ii) the 100 year flood level. The applicant will be responsible for providing the Department of Natural Resources with sufficient technical information to make such determination. Review by the Iowa Department of Natural Resources is not required for the proposed construction of new or replacement bridges or culverts where: (i) the bridge or culvert is located on a stream that drains less than 100 square miles; and (ii) the bridge or culvert is not associated with a channel modification that constitutes a channel change as specified in 567-71.2(1)b, Iowa Administrative Code.

1. All Development. All development within the special flood hazard areas shall:

   A. Be consistent with the need to minimize flood damage.

   B. Use construction methods and practices that will minimize flood damage.

   C. Use construction materials and utility equipment that are resistant to flood damage.

   D. Obtain all other necessary permits from federal, state and local governmental agencies including approval when required from the Iowa Department of Natural Resources.

2. Residential Structures. All new or substantially improved residential structures shall have the lowest floor, including basement, elevated a minimum of one foot above the base flood elevations. Construction shall be upon compacted fill which shall, at all points, be no lower than one foot above the base flood elevations and extend at such elevation at least 18 feet beyond the limits of any structure erected thereon. Alternate methods of elevating (such as piers or extended foundations) may be allowed subject to favorable consideration by the City Council, where existing topography, street grades, or other factors preclude elevating by fill. In such cases, the methods used must be adequate to support the structure as well as withstand the various forces and hazards associated with flooding. All new residential structures located in areas that would become isolated due to flooding of surrounding ground shall be provided with a means of access that will be passable by wheeled vehicles during the base flood. However, this criterion shall not apply where the Administrator determines there is sufficient flood warning time for the protection of life and property. When estimating flood warning time, consideration shall be given to the criteria listed in 567-75.2(3), Iowa Administrative Code.

3. Nonresidential Structures. All new or substantially improved nonresidential structures shall have the lowest floor (including basement) elevated a minimum of one foot above the base flood elevation, or together with attendant utility and sanitary

systems, be flood proofed to such a level. When flood proofing is utilized, a professional engineer registered in the State of Iowa shall certify that the flood proofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the base flood; and that the structure, below the base flood elevation is watertight with walls substantially impermeable to the passage of water. A record of the certification indicating the specific elevation (in relation to North American Vertical Datum 1988) to which any structures are floodproofed shall be maintained by the Administrator.

4. All New and Substantially Improved Structures.

A. Fully enclosed areas below the lowest floor (not including basements) that are subject to flooding shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or meet or exceed the following minimum criteria:

(1) A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.

(2) The bottom of all openings shall be no higher than one foot above grade.

(3) Openings may be equipped with screens, louvers, valves, or other coverings or devices provided they permit the automatic entry and exit of floodwaters.

Such areas shall be used solely for parking of vehicles, building access and low damage potential storage.

B. New and substantially improved structures must be designed (or modified) and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy.

C. New and substantially improved structures must be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities elevated or flood proofed to a minimum of one foot above the base flood elevation.

5. Factory-Built Homes:

A. All new and substantially improved factory-built homes, including those placed in existing factory-built home parks or subdivisions, shall be elevated on a permanent foundation such that the lowest floor of the structure is a minimum of one foot above the 100-year flood level.

B. All new and substantially improved factory-built homes, including those placed in existing factory-built home parks or subdivisions, shall be anchored to resist flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. Anchorage systems may include, but are not limited to, use of over-the-top or frame ties to ground anchors as required by the State Building Code.

6. Utility and Sanitary Systems.

A. On-site waste disposal and water supply systems shall be located or designed to avoid impairment to the system or contamination from the system during flooding.

B. All new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system as well as the discharge of effluent into flood waters. Wastewater treatment facilities (other than on-site systems) shall be provided with a level of flood protection equal to or greater than one foot above the 100-year flood elevation.

C. New or replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system. Water supply treatment facilities (other than on-site systems) shall be provided with a level of protection equal to or greater than one foot above the 100-year flood elevation.

D. Utilities such as gas or electrical systems shall be located and constructed to minimize or eliminate flood damage to the system and the risk associated with such flood damaged or impaired systems.

7. Storage of Materials and Equipment. Storage of equipment and materials that are flammable, explosive or injurious to human, animal or plant life is prohibited unless elevated a minimum of one foot above the base flood elevation. Other material and equipment must either be similarly elevated or: (i) not subject to major flood damage and be anchored to prevent movement due to flood waters; or (ii) readily removable from the area within the time available after flood warning.

8. Flood Control Structures. Flood control structural works such as levees, flood walls, etc. shall provide, at a minimum, protection from the base flood with a minimum of three feet of design freeboard and shall provide for adequate interior drainage. In addition, structural flood control works shall be approved by the Department of Natural Resources.

9. Watercourse Alterations. Watercourse alterations or relocations must be designed to maintain the flood carrying capacity within the altered or relocated portion. In addition, such alterations or relocations must be approved by the Department of Natural Resources.

10. Subdivisions. Subdivisions (including factory-built home parks and subdivisions) shall be consistent with the need to minimize flood damages and shall have adequate drainage provided to reduce exposure to flood damage. Development associated with subdivision proposals (including the installation of public utilities) shall meet the applicable performance standards of this chapter. Subdivision proposals intended for residential use shall provide all lots with a means of access which will be passable by wheeled vehicles during the 100-year flood. Proposals for subdivisions greater than five acres or 50 lots (whichever is less) shall include 100-year flood elevation data for those areas located within the Special Flood Hazard Area.

11. Accessory Structures to Residential Uses. Detached garages, sheds, and similar structures that are incidental to a residential use are exempt from the base flood elevation requirements where the following criteria are satisfied.

A. The structure shall be designed to have low flood damage potential. Its size shall not exceed 600 square feet in size. Those portions of the structure

located less than one foot above the BFE must be constructed of flood-resistant materials.

B. The structure shall be used solely for low flood damage potential purposes such as vehicle parking and limited storage. The structure shall not be used for human habitation.

C. The structure shall be constructed and placed on the building site so as to offer minimum resistance to the flow of floodwaters.

D. The structure shall be firmly anchored to resist flotation, collapse and lateral movement.

E. The structure's service facilities such as electrical and heating equipment shall be elevated or floodproofed to at least one foot above the base flood elevation.

F. The structure's walls shall include openings that satisfy the provisions of subsection 4(A) of this section.

Exemption from the 100-year flood elevation requirements for such a structure may result in increased premium rates for flood insurance coverage of the structure and its contents.

12. Recreational Vehicles.

A. Recreational vehicles are exempt from the requirements of subsection 5 of this section regarding anchoring and elevation of factory-built homes when the following criteria are satisfied.

(1) The recreational vehicle shall be located on the site for less than 180 consecutive days; and

(2) The recreational vehicle must be fully licensed and ready for highway use. A recreational vehicle is ready for highway use if it is on its wheels or jacking system and is attached to the site only by quick disconnect type utilities and security devices and has no permanently attached additions.

B. Recreational vehicles that are located on the site for more than 180 consecutive days or are not ready for highway use must satisfy requirements of subsection 5 of this section regarding anchoring and elevation of factory-built homes.

13. Pipeline Crossings. Pipeline river and stream crossings shall be buried in the streambed and banks, or otherwise sufficiently protected to prevent rupture due to channel degradation and meandering.

14. Maximum Damage Potential Uses. All new or substantially improved maximum damage potential uses shall have the lowest floor (including basement) elevated a minimum of one foot above the elevation of the 500-year flood, or together with attendant utility and sanitary systems, be floodproofed to such a level. When flood proofing is utilized, a professional engineer registered in the State of Iowa shall certify that the flood proofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the base flood; and that the structure, below the base flood elevation is watertight with walls substantially impermeable to the passage of water. A record of the certification indicating the specific elevation (in relation to North American Vertical Datum 1988)

to which any structures are flood proofed shall be maintained by the Administrator. Where 0.2% chance flood elevation data has not been provided in the Flood Insurance Study, the Iowa Department of Natural Resources shall be contacted to compute such data. The applicant will be responsible for providing the Department of Natural Resources with sufficient technical information to make such determinations.

160.06 ESTABLISHMENT OF VARIANCE PROCEDURES.

1. The City Council may authorize upon request in specific cases such variances from the terms of this chapter that will not be contrary to the public interest where, owing to special conditions, a literal enforcement of the provisions of this chapter will result in unnecessary hardship. Variances granted must meet the following applicable standards.

A. Variances shall only be granted upon: (i) a showing of good and sufficient cause; (ii) a determination that failure to grant the variance would result in exceptional hardship to the applicant; and (iii) a determination that the granting of the variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public or conflict with existing local codes or ordinances.

B. Variances shall not be issued within any designated floodway if any increase in flood levels during the 100-year flood would result. Consideration of the effects of any development on flood levels shall be based upon the assumption that an equal degree of development would be allowed for similarly situated lands.

C. Variances shall only be granted upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.

D. In cases where the variance involves a lower level of flood protection for buildings than what is ordinarily required by this chapter, the applicant shall be notified in writing over the signature of the Administrator that: (i) the issuance of a variance will result in increased premium rates for flood insurance up to amounts as high as $25.00 for $100.00 of insurance coverage; and (ii) such construction increases risks to life and property.

E. All variances granted shall have the concurrence or approval of the Department of Natural Resources.

2. Factors upon Which the Decision of the City Council Shall Be Based. In passing upon applications for Variances, the Council shall consider all relevant factors specified in other sections of this chapter and:

A. The danger to life and property due to increased flood heights or velocities caused by encroachments.

B. The danger that materials may be swept on to other land or downstream to the injury of others.

C. The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination and unsanitary conditions.

D. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.

E. The importance of the services provided by the proposed facility to the County.

F. The requirements of the facility for a flood plain location.

G. The availability of alternative locations not subject to flooding for the proposed use.

H. The compatibility of the proposed use with existing development and development anticipated in the foreseeable future.

I. The relationship of the proposed use to the comprehensive plan and flood plain management program for the area.

J. The safety of access to the property in times of flood for ordinary and emergency vehicles.

K. The expected heights, velocity, duration, rate of rise and sediment transport of the flood water expected at the site.

L. The cost of providing governmental services during and after flood conditions, including maintenance and repair of public utilities (sewer, gas, electrical and water systems), facilities, streets and bridges.

M. Such other factors which are relevant to the purpose of this chapter.

3. Conditions Attached to Variances. Upon consideration of the factors listed above, the Council may attach such conditions to the granting of variances as it deems necessary to further the purpose of this chapter. Such conditions may include, but not necessarily be limited to:

A. Modification of waste disposal and water supply facilities.

B. Limitation of periods of use and operation.

C. Imposition of operational controls, sureties, and deed restrictions.

D. Requirements for construction of channel modifications, dikes, levees, and other protective measures, provided such are approved by the Department of Natural Resources and are deemed the only practical alternative to achieving the purpose of this chapter.

E. Floodproofing measures shall be designed consistent with the flood protection elevation for the particular area, flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, and other factors associated with the regulatory flood. The Council shall require that the applicant submit a plan or document certified by a registered professional engineer that the floodproofing measures are consistent with the regulatory flood protection elevation and associated flood factors for the particular area.

160.07 NONCONFORMING USES.

1. A structure or the use of a structure or premises which was lawful before the passage or amendment of the ordinance codified in this chapter, but which is not in conformity with the provisions of this chapter, may be continued subject to the following conditions:

A. If such use is discontinued for six consecutive months, any future use of the building premises shall conform to this chapter.

B. Uses or adjuncts thereof that are or become nuisances shall not be entitled to continue as nonconforming uses.

2. If any nonconforming use or structure is destroyed by any means, including flood, it shall not be reconstructed if the cost is more than 50 percent of the market value of the structure before the damage occurred, unless it is reconstructed in conformity with the provisions of this chapter. This limitation does not include the cost of any alteration to comply with existing state or local health, sanitary, building or safety codes or regulations or the cost of any alteration of a structure listed on the National Register of Historic Places, provided that the alteration shall not preclude its continued designation.

160.08 PENALTIES FOR VIOLATION. Violations of the provisions of this chapter or failure to comply with any of the requirements shall constitute a misdemeanor. Any person who violates this chapter or fails to comply with any of its requirements shall upon conviction thereof be fined not more than $500.00 or imprisoned for not more than 30 days. Nothing herein contained shall prevent the City from taking such other lawful action as is necessary to prevent or remedy violation.

160.09 AMENDMENTS. The regulations and standards set forth in this chapter may from time to time be amended, supplemented, changed, or repealed. No amendment, supplement, change, or modification shall be undertaken without prior approval of the Department of Natural Resources.

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CHAPTER 161

STORMWATER DETENTION REQUIREMENTS AND DESIGN

161.01 Definitions
161.02 Purpose
161.03 General Provisions
161.04 Control Structure
161.05 Detention Basic Aesthetics
161.06 Special Requirements
161.07 Required Setbacks
161.08 Access
161.09 Detention Rates

161.01 DEFINITIONS.

1. "Acre-ft" means the volume of one acre of surface area to a depth of one foot. 43,560 cubic feet.

2. "Impervious" means incapable of being penetrated.

3. "Backwater" means water backed up in its course by an obstruction, opposing current, or the tide.

4. "Detention basin" means a stormwater management facility designed, constructed or modified to provide short-term storage of stormwater runoff, which reduces the peak outflow to a rate less than the peak inflow.

5. "Wetland" means a distinct ecosystem that is flooded by water, either permanently or seasonally, where oxygen-free processes prevail. The primary factor that distinguishes wetlands from other landforms or water bodies is the characteristic vegetation of aquatic plants, adapted to the unique hydric soil.

161.02 PURPOSE. The purpose of this chapter is to minimize the adverse effects that impervious surfaces have on watersheds by preventing rainwater from infiltrating into the soil, to reduce potential flooding and flash flooding, to prevent downstream erosion, and to filter pollutants and garbage before reaching waterways.

161.03 GENERAL PROVISIONS.

1. A debris barrier shall be installed on the detention basin outlet. Debris barriers shall be installed on the inlet if the pipe diameter is 18-inches or greater.

2. Detention basins shall be designed as flow-through systems maximizing the flow path between inlet and outlet to promote sedimentation.

3. Detention basin bottom shall be level with at least 0.5 feet of sediment storage.

4. Fence required where slopes greater than 3H:1V above the emergency overflow water surface elevation or higher where the is a wall greater than 30-inches in height.

5. Detention basin interior side slopes and bottom should be planted with grass or landscaped and mulched.

6. Detention basins with fence are required to have informative sign, warning against swimming. Applicant shall submit design for acceptance.

7. Construct on suitable base soils either consolidated native soil or adequately compacted and stable fill soil as determined by a geotechnical engineer.

8. Detention basin berm embankments greater than 6ft in height require design by a geotechnical engineer.

9. Detention basin construction shall be completed before any other structure.

161.04 CONTROL STRUCTURE.

1. The control structure for a detention basin is typically a Type 2 Catch Basin with an inverted tee riser pipe restrictor for outlet. Alternatively, a weir type, or multiple orifice design may be used.

2. A shear gate shall be provided with a control rod for operation.

3. Consider backwater effects of water surface elevations downstream of the control structure.

4. At least two feet of separation shall be provided between the bottom of the control structure and the bottom of the outlet orifice.

161.05 DETENTION BASIN AESTHETICS. Detention basins should be made an attractive feature of the urban environment. Aesthetic considerations should be incorporated into the design including but are not required:

1. Curvilinear design (non-rectangular).

2. Landscape plantings above the water level of the detention basin.

3. Consider incorporating the detention basin into other on-site features such as walking trails, picnic area, etc.

4. Consider combined detention and wet detention basin to provide permanent pool volume to enhance year-round aesthetics.

161.06 SPECIAL REQUIREMENTS.

1. If a detention basin is located within the Well Head Protection area of a public water system a minimum of three-feet of separation to the seasonal high groundwater level is required or the detention basin shall be lined. Liners may not be used to locate the detention basin bottom below the seasonal high groundwater level.

2. Detention basins shall be located within separate tracts with applicable offset requirements.

161.07 REQUIRED SETBACKS. Setback from the maximum water surface detention basin elevation:

1. 1 ft vertical clearance to structure within 25 ft.

2. 10 ft horizontal to property lines, onsite structures, sewer lines.

3. 30 ft horizontal to septic tank or distribution box, septic drain field, and reserve areas.

4. 50 ft horizontal to slopes steeper than 14 percent and greater than 10 feet in height.

5. 100 ft horizontal to drinking water wells.

161.08 ACCESS. Access shall be provided to the control structure and other drainage structures associated with the detention basin. A 15ft wide access easement shall be provided from a public street or right-of-way to the detention basin. Access shall be surfaced with 12 ft wide of crushed rock or paved surface. The easement shall be marked at each corner, angle point, and every 100 ft along the length.

161.09 DETENTION RATE.

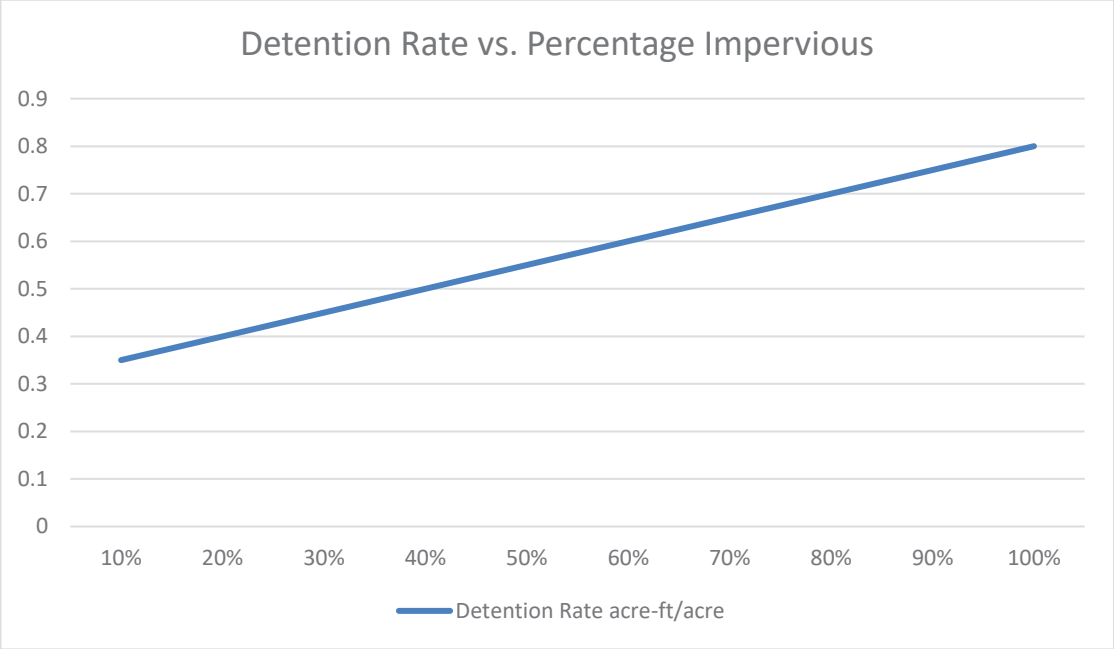
Residential:

1. Single family lots = 0.0 acre-ft per acre detention rate.

Commercial / Industrial / Mixed Usage:

1. Tract of 1 acre or less = .35 acre-ft per acre detention rate.

2. Tract of 1 acre or more = detention requirement will be based on the percentage of impervious determined by the following chart:



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