



**AGENDA
CITY OF HARRISONVILLE
PUBLIC WORKS COMMITTEE
REGULAR MEETING
CITY HALL
FEBRUARY 7, 2017
6:00 PM**

- I. Call to Order & Attendance**
 - A. Roll Call**
- II. Approval of Minutes**
 - A. Public Works Committee - Regular Meeting - Jan 5, 2017 6:00 PM**
- III. Agenda Items**
- IV. Electric Update**
- V. Stormwater Issues**
 - A. FEMA Ordinance**
- VI. Public Works Project Updates**
 - A. Project Update**
- VII. Airport Reports**
 - A. Airport Update**
- VIII. General Discussion**
- IX. Adjourn**

Posted on City Hall Bulletin Board this 6th day of February 2017

Sheryl Stanley, Deputy City Clerk



DRAFT
MINUTES
CITY OF HARRISONVILLE
PUBLIC WORKS COMMITTEE
REGULAR MEETING
CITY HALL
JANUARY 5, 2017
6:00 PM

I. Call to Order

The meeting was called to order at 6:00 PM by Chair Brian Hasek

Attendee Name	Organization	Title	Status	Arrived
David Dickerson	Harrisonville	Member	Present	
Matt Turner	Harrisonville	Member	Present	
Brian Hasek	Harrisonville	Chair	Present	
Clint Long	Harrisonville	Member	Present	
Brad Bockelman	Harrisonville	Member	Present	

Also attending: Director of Public Works Eric Patterson, Deputy City Clerk Sheryl Stanley, recording.

II. Approval of Minutes

A. Public Works Committee - Regular Meeting - Aug 2, 2016 6:00 PM Accepted as Amended

Alderman Dickerson moved the minutes be amended to reflect Matt Turner is a member of the Public Works Committee in the Roll Call Section. Clint Long seconded. Motion carried. Alderman Dickerson then moved the minutes be accepted as amended. Alderman Long seconded. Motion carried and minutes approved.

B. Public Works Committee - Regular Meeting - Oct 4, 2016 6:00 PM Accepted as Amended

Alderman Dickerson moved that the minutes be amended to show Matt Turner is a member of the Committee. Alderman Long seconded and the motion passed. Alderman Dickerson then moved the minutes be accepted as amended and Aldermen Long seconded. Motion passed and minutes accepted.

III. Public Works Project Updates

A. Project Update

Director of Public Works Patterson reviewed the project updates report with members of the committee, including

Wastewater Treatment Project:

1. *SRF bond sales must be delayed because the Director of DNR was terminated. The earliest we will be able to close bond sales is the week of Jan. 9. He will keep the aldermen informed regarding this matter.*
2. *The vendor who was the low bidder on the ozone last year has notified us that the price will increase 10.5% because we have not ordered in a year. Mr. Patterson said the signed contract stipulated increases would be limited to the Consumer Price Index which was up 1.7% over 2016.*
3. *Mr. Patterson will draft a letter to order necessary equipment and may close next week.*
4. *A pre-construction meeting is planned before work begins.*

Sanitary Sewer: There are no current projects, but Mr. Patterson said the committee will need to discuss revenues and expenditures in the near future. He reminded members that SRF funds may be need for future capital projects, particularly for replacement of the sewer system infrastructure.

Stormwater: Regarding the Ann Terrace project, we now have easements from the Chateau Apartments and are working with residents on the design. He is working on bid docs.

Transportation:

Regarding the asphalt overlay and sidewalk programs, Mr. Patterson noted the city gets good pricing from Young's and he sees no reason not to use them, even though they are sometimes slow.

The Jefferson Parkway sidewalk project is progressing and he expects to bring a contract agreement to the January 16 Board of Aldermen meeting.

IV. General Discussion

Mayor Hasek asked about the condition of the City Hall roof. Mr Patterson said bids to re-roof the structure should be in the paper soon. However, he believes a more pressing need is to replace a breaker box located in the garage and upgrade the building's electric system.

Alderman Dickerson said the committee should plan how to spend the additional monies allocated in the 2017 budget. Mr. Patterson said he believed we should start with priorities from last year and include this year's pressing needs.

The group discussed the flooding at Mill Creek Mill and the fact the current owner wanted the city's help to correct the problem so the property could be sold. Mr. Patterson said there were several ways in which it could be mitigated if the board chose to take on that responsibility.

The group also discussed a request to use the airport runways for drag races during the summer. Mr. Patterson said MoDOT has not responded to his letter asking if such activity was permitted. Mr. Dickerson asked Mr. Patterson if it was possible for the city to close the airport, and Mr. Patterson said no, because federal dollars have been accepted and used for its improvements.

V. Adjourn

David Dickerson moved the meeting be adjourned, and Clint Long seconded. Meeting adjourned at 6:55 p.m.

Brian Hasek, Mayor & Ex-Officio
Chairman of the Board of Aldermen

ATTEST:

Kim Hubbard, City Clerk

Minutes Acceptance: Minutes of Jan 5, 2017 6:00 PM (Approval of Minutes)



STAFF REPORT

TO: Public Works Committee
FROM: Eric Patterson, Director
DATE: January 30, 2017
SUBJECT: FEMA Ordinance

Type of Item: *Discussion*

Type of Item:

This item is to update the City's floodplain management ordinance to conform to the Federal Emergency Management Agency's (FEMA) requirements.

Issue:

Periodically FEMA and the State of Missouri will update the requirements for municipalities to regulate their floodplains. This modification will be an additional paragraph to the Municipal Code of Ordinances Section 420.150 General Standards.

G. Cumulative Improvement

A structure may be improved (remodeled or enlarged) without conforming to current requirements for elevation so long as the cumulative value of all work done within the last five calendar years does not exceed 50 percent of the structure's current market value. If the cumulative value of the improvement exceeds 50 percent of the structure's current market value, the structure must be brought into compliance with Article 4, Section B(1) which requires elevation of residential structures to or above the base flood elevation or the elevation/floodproofing of non-residential structures to or above the base flood elevation.

Background:

In 2012 the City adopted new flood maps and the latest FEMA model ordinance, and since then they have determined that to avoid misuse of monies for mitigation, this addition is necessary. One of the purposes of the Flood Insurance Program besides providing insurances opportunities to flood prone homes is to provide guidance to redevelopment and new development. This change is intended to protect homeowners from over investing in a flood-prone property beyond the limits the insurance will cover without bringing the residential structure into compliance.

Recommendations:

Staff requests the Board adopt the revised floodplain ordinance.

Ted A. Martin, P.E. City Engineer

MODEL FLOODPLAIN MANAGEMENT ORDINANCE

60.3(d)

The following model ordinance pertains only to the special flood hazard areas in a community that participates in the Regular Program Phase of the National Flood Insurance Program (rather than the Emergency Program Phase). It has been designed to meet minimum Federal requirements as published in Title 44 of the Code of Federal Regulations.

Not all sections in this model ordinance may be applicable to a community that wishes to adopt a floodplain management ordinance. **Before adoption, this model ordinance should be thoroughly studied by community officials, planning commissions, and the community's attorney, as to its adequacy and suitability to the community's needs.** This will ensure that the community's specific floodplain management issues are governed in a reasonable manner without inflicting unnecessary hardships on people living in flood-prone areas.

This model does not prohibit development in the special flood hazard areas. It does set forth minimum performance standards for new construction or substantially improved structures. Communities may apply stricter regulations than the minimum Federal requirements. For assistance in tailoring this ordinance to meet your community's specific needs, a Community Mitigation Programs Specialist may be contacted at the following address:

DHS/FEMA Region VII, Mitigation Division
Floodplain Management & Insurance Branch
9221 Ward Parkway, Suite 300
Kansas City, MO 64114

A. Discussion Item (ID # 2436)

FEMA Ordinance

Attachments:

City of Harrisonville D minus Zones Access (PDF)

FLOODPLAIN MANAGEMENT ORDINANCE

60.3(d)

ARTICLE 1 STATUTORY AUTHORIZATION, FINDINGS OF FACT, AND PURPOSES

SECTION A. STATUTORY AUTHORIZATION

The Legislature of the State of Missouri has in RSMo 79.110 delegated the responsibility to local governmental units to adopt floodplain management regulations designed to protect the health, safety, and general welfare. Therefore, the Board of Aldermen of the City of Harrisonville, Missouri ordains as follows:

SECTION B. FINDINGS OF FACT

1. *Flood Losses Resulting from Periodic Inundation*

The special flood hazard areas of the City of Harrisonville, Missouri are subject to inundation which results 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.

2. *General Causes of the Flood Losses*

These flood losses are caused by (1) the cumulative effect of development in any delineated floodplain causing increases in flood heights and velocities; and (2) the occupancy of flood hazard areas by uses vulnerable to floods, hazardous to others, inadequately elevated, or otherwise unprotected from flood damages.

3. *Methods Used To Analyze Flood Hazards*

The Flood Insurance Study (FIS) that is the basis of this ordinance uses a standard engineering method of analyzing flood hazards which consist of a series of interrelated steps.

- a. Selection of a base flood that is based upon engineering calculations which permit a consideration of such flood factors as its expected frequency of occurrence, the area inundated, and the depth of inundation. The base flood selected for this ordinance is representative of large floods which are characteristic of what can be expected to occur on the particular streams subject to this ordinance. It is in the general order of a flood which could be expected to have a one percent chance of occurrence in any one year as delineated on the Federal Insurance Administrator's FIS, and illustrative materials for Cass County dated January 2, 2013 as amended, and any future revisions thereto.
- b. Calculation of water surface profiles are based on a standard hydraulic engineering analysis of the capacity of the stream channel and overbank areas to convey the regulatory flood.
- c. Computation of a floodway required to convey this flood without increasing flood heights more than one (1) foot at any point.

[Article 1, Section B(3)]

- d. Delineation of floodway encroachment lines within which no development is permitted that would cause any increase in flood height.
- e. Delineation of flood fringe, i.e., that area outside the floodway encroachment lines, but still subject to inundation by the base flood.

SECTION C. STATEMENT OF PURPOSE

It is the purpose of this ordinance to promote the public health, safety, and general welfare; to minimize those losses described in Article 1, Section B (1); to establish or maintain the community's eligibility for participation in the National Flood Insurance Program (NFIP) as defined in 44 Code of Federal Regulations (CFR) 59.22(a)(3); and to meet the requirements of 44 CFR 60.3(d) by applying the provisions of this ordinance to:

- 1. restrict or prohibit uses that are dangerous to health, safety, or property in times of flooding or cause undue increases in flood heights or velocities;
- 2. require uses vulnerable to floods, including public facilities that serve such uses, be provided with flood protection at the time of initial construction; and
- 3. protect individuals from buying lands that are unsuited for the intended development purposes due to the flood hazard.

ARTICLE 2 GENERAL PROVISIONS

SECTION A. LANDS TO WHICH ORDINANCE APPLIES

This ordinance shall apply to all lands within the jurisdiction of the City of Harrisonville, Missouri identified as numbered and unnumbered A zones and AE zones, on the Flood Insurance Rate Maps (FIRMs) for Cass County on map panels 29037C0169F, 29037C0170F, 29037C0186F, 29037C0187F, 29037C0188F, 29037C0189F, 29037C0325F and dated January 2, 2013 as amended, and any future revisions thereto. In all areas covered by this ordinance, no development shall be permitted except through the issuance of a floodplain development permit, granted by the Board of Aldermen or its duly designated representative under such safeguards and restrictions as the Board of Aldermen or the designated representative may reasonably impose for the promotion and maintenance of the general welfare, health of the inhabitants of the community, and as specifically noted in Article 4.

SECTION B. FLOODPLAIN ADMINISTRATOR

The City Engineer is hereby designated as the Floodplain Administrator under this ordinance.

Attachment: City of Harrisonville D minus Zones Access (2436 : FEMA Ordinance)

[Article 2 Section C]

SECTION C. COMPLIANCE

No development located within the special flood hazard areas of this community shall be located, extended, converted, or structurally altered without full compliance with the terms of this ordinance and other applicable regulations.

SECTION D. ABROGATION AND GREATER RESTRICTIONS

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

SECTION E. INTERPRETATION

In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements, 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.

SECTION F. WARNING AND DISCLAIMER OF LIABILITY

The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on engineering and scientific methods of study. Larger floods may occur on rare occasions or the flood heights may be increased by man-made or natural causes, such as ice jams and bridge openings restricted by debris. This ordinance does not imply that areas outside the floodway and flood fringe or land uses permitted within such areas will be free from flooding or flood damage. This ordinance shall not create a liability on the part of the City of Harrisonville, any officer or employee thereof, for any flood damages that may result from reliance on this ordinance or any administrative decision lawfully made thereunder.

SECTION G. SEVERABILITY

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

ARTICLE 3 ADMINISTRATION

SECTION A. FLOODPLAIN DEVELOPMENT PERMIT **(REQUIRED)**

A floodplain development permit shall be required for all proposed construction or other development, including the placement of manufactured homes, in the areas described in Article 2, Section A. No person, firm, corporation, or unit of government shall initiate any development or substantial-improvement or cause the same to be done without first obtaining a separate floodplain development permit for each structure or other development.

Attachment: City of Harrisonville D minus Zones Access (2436 : FEMA Ordinance)

[Article 3 Section B]

SECTION B. DESIGNATION OF FLOODPLAIN ADMINISTRATOR

The City Engineer is hereby appointed to administer and implement the provisions of this ordinance.

SECTION C. DUTIES AND RESPONSIBILITIES OF FLOODPLAIN ADMINISTRATOR

Duties of the City Engineer shall include, but not be limited to:

1. review of all applications for floodplain development permits to assure that sites are reasonably safe from flooding and that the floodplain development permit requirements of this ordinance have been satisfied;
2. review of all applications for floodplain development permits for proposed development to assure that all necessary permits have been obtained from Federal, State, or local governmental agencies from which prior approval is required by Federal, State, or local law;
3. review all subdivision proposals and other proposed new development, including manufactured home parks or subdivisions, to determine whether such proposals will be reasonably safe from flooding;
4. issue floodplain development permits for all approved applications;
5. notify adjacent communities and the Missouri State Emergency Management Agency (Mo SEMA) prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Emergency Management Agency (FEMA);
6. assure that the flood carrying capacity is not diminished and shall be maintained within the altered or relocated portion of any watercourse.
7. verify and maintain a record of the actual elevation (in relation to mean sea level) of the lowest floor, including basement, of all new or substantially improved structures;
8. verify and maintain a record of the actual elevation (in relation to mean sea level) that the new or substantially improved non-residential structures have been floodproofed;
9. when floodproofing techniques are utilized for a particular non-residential structure, the City Engineer shall require certification from a registered professional engineer or architect.

Attachment: City of Harrisonville D minus Zones Access (2436 : FEMA Ordinance)

[Article 3, Section D]

SECTION D. APPLICATION FOR FLOODPLAIN DEVELOPMENT PERMIT

To obtain a floodplain development permit, the applicant shall first file an application in writing on a form furnished for that purpose. Every floodplain development permit application shall:

1. describe the land on which the proposed work is to be done by lot, block and tract, house and street address, or similar description that will readily identify and specifically locate the proposed structure or work;
2. identify and describe the work to be covered by the floodplain development permit;
3. indicate the use or occupancy for which the proposed work is intended;
4. indicate the assessed value of the structure and the fair market value of the improvement;
5. specify whether development is located in designated flood fringe or floodway;
6. identify the existing base flood elevation and the elevation of the proposed development;
7. give such other information as reasonably may be required by the City Engineer;
8. be accompanied by plans and specifications for proposed construction; and
9. be signed by the permittee or his authorized agent who may be required to submit evidence to indicate such authority.

ARTICLE 4 PROVISIONS FOR FLOOD HAZARD REDUCTION

SECTION A. GENERAL STANDARDS

1. No permit for floodplain development shall be granted for new construction, substantial-improvements, and other improvements, including the placement of manufactured homes, within any numbered or unnumbered A zones and AE zones, unless the conditions of this section are satisfied.
2. All areas identified as unnumbered A zones on the FIRM are subject to inundation of the 100-year flood; however, the base flood elevation is not provided. Development within unnumbered A zones is subject to all provisions of this ordinance. If Flood Insurance Study data is not available, the community shall obtain, review, and reasonably utilize any base flood elevation or floodway data currently available from Federal, State, or other sources.
3. Until a floodway is designated, no new construction, substantial improvements, or other development, including fill, shall be permitted within any numbered A zone or AE zone on the FIRM, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point within the community.

[Article 4, Section A(4)]

4. All new construction, subdivision proposals, substantial-improvements, prefabricated structures, placement of manufactured homes, and other developments shall require:
 - a. design or adequate anchorage to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy;
 - b. construction with materials resistant to flood damage;
 - c. utilization of methods and practices that minimize flood damages;
 - d. all electrical, heating, ventilation, plumbing, air-conditioning equipment, and other service facilities be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding;
 - e. new or replacement water supply systems and/or sanitary sewage systems be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters, and on-site waste disposal systems be located so as to avoid impairment or contamination; and
 - f. subdivision proposals and other proposed new development, including manufactured home parks or subdivisions, located within special flood hazard areas are required to assure that:
 - (1) all such proposals are consistent with the need to minimize flood damage;
 - (2) all public utilities and facilities, such as sewer, gas, electrical, and water systems are located and constructed to minimize or eliminate flood damage;
 - (3) adequate drainage is provided so as to reduce exposure to flood hazards; and
 - (4) all proposals for development, including proposals for manufactured home parks and subdivisions, of five (5) acres or fifty (50) lots, whichever is lesser, include within such proposals base flood elevation data.
5. *Storage, material, and equipment*
 - a. The storage or processing of materials within the special flood hazard area that are in time of flooding buoyant, flammable, explosive, or could be injurious to human, animal, or plant life is prohibited.
 - b. Storage of other material or equipment may be allowed if not subject to major damage by floods, if firmly anchored to prevent flotation, or if readily removable from the area within the time available after a flood warning.

[Article 4, Section A(6)]

6. *Accessory Structures*

Structures used solely for parking and limited storage purposes, not attached to any other structure on the site, of limited investment value, and not larger than 400 square feet, may be constructed at-grade and wet-floodproofed provided there is no human habitation or occupancy of the structure; the structure is of single-wall design; a variance has been granted from the standard floodplain management requirements of this ordinance; and a floodplain development permit has been issued.

7. *Cumulative Improvement*

A structure may be improved (remodeled or enlarged) without conforming to current requirements for elevation so long as the cumulative value of all work done within the last five calendar years does not exceed 50 percent of the structure's current market value. If the cumulative value of the improvement exceeds 50 percent of the structure's current market value, the structure must be brought into compliance with Article 4, Section B(1) which requires elevation of residential structures to or above the base flood elevation or the elevation/floodproofing of non-residential structures to or above the base flood elevation.

SECTION B. SPECIFIC STANDARDS

1. In all areas identified as numbered and unnumbered A zones and AE zones, where **base flood elevation** data have been provided, as set forth in Article 4, Section A(2), the following provisions are required:

- a. *Residential Construction*

New construction or substantial-improvement of any residential structures, including manufactured homes, shall have the lowest floor, including basement, elevated to one (1) foot above base flood elevation.

- b. *Non-Residential Construction*

New construction or substantial-improvement of any commercial, industrial, or other non-residential structures, including manufactured homes, shall have the lowest floor, including basement, elevated to one (1) foot above the base flood elevation or, together with attendant utility and sanitary facilities, be floodproofed so that below the base flood elevation the structure is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. A registered professional engineer or architect shall certify that the standards of this subsection are satisfied. Such certification shall be provided to the Floodplain Administrator as set forth in Article 3, Section C(9).

- c. Require, for all new construction and substantial-improvements that fully enclosed areas below lowest floor used solely for parking of vehicles, building access, or storage in an area other than a basement and 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 architect or meet or exceed the following minimum criteria:

[Article 4, Section B]

- (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; and
- (2) the bottom of all opening shall be no higher than one foot above grade. Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.

SECTION C. MANUFACTURED HOMES

1. All manufactured homes to be placed within all unnumbered and numbered A zones and AE zones, on the community's FIRM shall be required to be installed using methods and practices that minimize flood damage. For the purposes of this requirement, manufactured homes must be elevated and 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.
2. Require manufactured homes that are placed or substantially improved within unnumbered or numbered A zones and AE zones, on the community's FIRM on sites:
 - a. outside of manufactured home park or subdivision;
 - b. in a new manufactured home park or subdivision;
 - c. in an expansion to and existing manufactured home park or subdivision; or
 - d. in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial-damage as the result of a flood,

be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated to one (1) foot above the base flood elevation and be securely attached to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.
3. Require that manufactured homes to be placed or substantially improved on sites in an existing manufactured home park or subdivision within all unnumbered and numbered A zones and AE zones, on the community's FIRM, that are not subject to the provisions of Article 4, Section C(2) of this ordinance, be elevated so that either:
 - a. the lowest floor of the manufactured home is at one (1) foot above the base flood level; or
 - b. the manufactured home chassis is supported by reinforced piers or other foundation elements of at least equivalent strength that are no less than thirty-six (36) inches in height above grade and be securely attached to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.

[Article 4, Section D]

SECTION D. FLOODWAY

Located within areas of special flood hazard established in Article 2, Section A are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters that carry debris and potential projectiles, the following provisions shall apply:

1. The community shall select and adopt a regulatory floodway based on the principle that the area chosen for the regulatory floodway must be designed to carry the waters of the base flood without increasing the water surface elevation of that flood more than one foot at any point.
2. The community shall prohibit any encroachments, including fill, new construction, substantial-improvements, and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in **any** increase in flood levels within the community during the occurrence of the base flood discharge.
3. If Article 4, Section D(2) is satisfied, all new construction and substantial-improvements shall comply with all applicable flood hazard reduction provisions of Article 4.
4. In unnumbered A zones, the community shall obtain, review, and reasonably utilize any base flood elevation or floodway data currently available from Federal, State, or other sources as set forth in Article 4, Section A(2).

SECTION E. RECREATIONAL VEHICLES

1. Require that recreational vehicles placed on sites within all unnumbered and numbered A zones and AE zones on the community's FIRM either:
 - a. be on the site for fewer than 180 consecutive days,
 - b. be fully licensed and ready for highway use*; **or**
 - c. meet the permitting, elevation, and the anchoring requirements for manufactured homes of this ordinance.

*A recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by quick-disconnect type utilities and security devices, and has no permanently attached additions.

ARTICLE 5 FLOODPLAIN MANAGEMENT VARIANCE PROCEDURES

SECTION A. ESTABLISHMENT OF APPEAL BOARD

The Board of Aldermen as established by the City of Harrisonville shall hear and decide appeals and requests for variances from the floodplain management requirements of this ordinance.

SECTION B. RESPONSIBILITY OF APPEAL BOARD

Where an application for a floodplain development permit or request for a variance from the floodplain management regulations is denied by the City Engineer, the applicant may apply for such floodplain development permit or variance directly to the Appeal Board, as defined in Article 5, Section A.

[Article 5, Section B]

The Board of Aldermen shall hear and decide appeals when it is alleged that there is an error in any requirement, decision, or determination made by the City Engineer in the enforcement or administration of this ordinance.

SECTION C. FURTHER APPEALS

Any person aggrieved by the decision of the Board of Aldermen or any taxpayer may appeal such decision to the Cass County Circuit Court as provided in RSMo 89.110.

SECTION D. FLOODPLAIN MANAGEMENT VARIANCE CRITERIA

In passing upon such applications for variances, the Board of Aldermen shall consider all technical data and evaluations, all relevant factors, standards specified in other sections of this ordinance, and the following criteria:

1. the danger to life and property due to flood damage;
2. the danger that materials may be swept onto other lands to the injury of others;
3. the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
4. the importance of the services provided by the proposed facility to the community;
5. the necessity to the facility of a waterfront location, where applicable;
6. the availability of alternative locations, not subject to flood damage, for the proposed use;
7. the compatibility of the proposed use with existing and anticipated development;
8. the relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
9. the safety of access to the property in times of flood for ordinary and emergency vehicles;
10. the expected heights, velocity, duration, rate of rise and sediment transport of the flood waters, if applicable, expected at the site; and,
11. the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems; streets; and bridges.

SECTION E. CONDITIONS FOR APPROVING FLOODPLAIN MANAGEMENT VARIANCES

1. Generally, variances may be issued for new construction and substantial-improvements to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing items 2 through 6 below have been fully considered. As the lot size increases beyond the one-half acre, the technical justification required for issuing the variance increases.

[Article 5, Section E(2)]

2. Variances may be issued for the reconstruction, rehabilitation, or restoration of structures listed on the National Register of Historic Places, the State Inventory of Historic Places, or local inventory of historic places upon determination provided the proposed activity will not preclude the structure=s continued historic designation.
3. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
4. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
5. Variances shall only be issued upon (a) a showing of good and sufficient cause, (b) a determination that failure to grant the variance would result in exceptional hardship to the applicant, and (c) a determination that the granting of a 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 laws or ordinances.
6. A community shall notify the applicant in writing over the signature of a community official that (1) the issuance of a variance to construct a structure below base flood level will result in increased premium rates for flood insurance up to amounts as high as \$25.00 for \$100.00 of insurance coverage and (2) such construction below the base flood level increases risks to life and property. Such notification shall be maintained with the record of all variance actions as required by this ordinance.

SECTION F. CONDITIONS FOR APPROVING VARIANCES FOR ACCESSORY STRUCTURES

Any variance granted for an accessory structure shall be decided individually based on a case by case analysis of the building's unique circumstances. Variances granted shall meet the following conditions as well as those criteria and conditions set forth in Article 5, Sections D and E of this ordinance.

In order to minimize flood damages during the 100-year flood and the threat to public health and safety, the following conditions shall be included for any variance issued for accessory structures that are constructed at-grade and wet-floodproofed.

1. Use of the accessory structures must be solely for parking and limited storage purposes in zone A only as identified on the community's Flood Insurance Rate Map (FIRM).
2. For any new or substantially damaged accessory structures, the exterior and interior building components and elements (i.e., foundation, wall framing, exterior and interior finishes, flooring, etc.) below the base flood elevation, must be built with flood-resistant materials in accordance with Article 4, Section A (4)(b) of this ordinance.
3. The accessory structures must be adequately anchored to prevent flotation, collapse, or lateral movement of the structure in accordance with Article 4, Section A (4)(a) of this ordinance. All of the building's structural components must be capable of resisting specific flood-related forces including hydrostatic, buoyancy, and hydrodynamic and debris impact forces.
4. Any mechanical, electrical, or other utility equipment must be located above the base flood elevation or floodproofed so that they are contained within a watertight, floodproofed enclosure that is capable of resisting damage during flood conditions in accordance with Article 4, Section A (4)(d) of this ordinance.

[Article 5, Section F]

5. The accessory structures must meet all National Flood Insurance Program (NFIP) opening requirements. The NFIP requires that enclosure or foundation walls, subject to the 100-year flood, contain openings that will permit the automatic entry and exit of floodwaters in accordance with Article 4, Section B (1)(c) of this ordinance.
6. The accessory structures must comply with the floodplain management floodway encroachment provisions of Article 4, Section D(2) of this ordinance. No variances may be issued for accessory structures within any designated floodway, if any increase in flood levels would result during the 100-year flood.
7. Equipment, machinery, or other contents must be protected from any flood damage.
8. No disaster relief assistance under any program administered by any Federal agency shall be paid for any repair or restoration costs of the accessory structures.
9. A community shall notify the applicant in writing over the signature of a community official that (1) the issuance of a variance to construct a structure below base flood level will result in increased premium rates for flood insurance up to amounts as high as \$25.00 for \$100.00 of insurance coverage and (2) such construction below the base flood level increases risks to life and property. Such notification shall be maintained with the record of all variance actions as required by this ordinance.
10. Wet-floodproofing construction techniques must be reviewed and approved by the community and registered professional engineer or architect prior to the issuance of any floodplain development permit for construction.

ARTICLE 6 PENALTIES FOR VIOLATION

Violation of the provisions of this ordinance or failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with granting of variances) shall constitute a misdemeanor. Any person who violates this ordinance or fails to comply with any of its requirements shall, upon conviction thereof, be fined not more than \$ 500.00 , and in addition, shall pay all costs and expenses involved in the case. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the City of Harrisonville or other appropriate authority from taking such other lawful action as is necessary to prevent or remedy any violation.

ARTICLE 7 AMENDMENTS

The regulations, restrictions, and boundaries set forth in this ordinance may from time to time be amended, supplemented, changed, or appealed to reflect any and all changes in the National Flood Disaster Protection Act of 1973, provided, however, that no such action may be taken until after a public hearing in relation thereto, at which parties of interest and citizens shall have an opportunity to be heard. Notice of the time and place of such hearing shall be published in a newspaper of general circulation in the City of Harrisonville least 20 days shall elapse between the date of this publication and the public hearing. A copy of such amendments will be provided to the Region VII office of the Federal Emergency Management Agency (FEMA). The regulations of this ordinance are in compliance with the National Flood Insurance Program (NFIP) regulations.

ARTICLE 8 DEFINITIONS

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

"100-year Flood" *see "base flood."*

"Accessory Structure" means the same as *"appurtenant structure."*

"Actuarial Rates" *see "risk premium rates."*

"Administrator" means the Federal Insurance Administrator.

"Agency" means the Federal Emergency Management Agency (FEMA).

"Agricultural Commodities" means agricultural products and livestock.

"Agricultural Structure" means any structure used exclusively in connection with the production, harvesting, storage, drying, or raising of agricultural commodities.

"Appeal" means a request for review of the Floodplain Administrator's interpretation of any provision of this ordinance or a request for a variance.

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

"Area of Special Flood Hazard" is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year.

"Base Flood" means the flood having a one percent chance of being equaled or exceeded in any given year.

"Basement" means any area of the structure having its floor subgrade (below ground level) on all sides.

"Building" *see "structure."*

"Chief Executive Officer" or "Chief Elected Official" means the official of the community who is charged with the authority to implement and administer laws, ordinances, and regulations for that community.

"Community" means any State or area or political subdivision thereof, which has authority to adopt and enforce floodplain management regulations for the areas within its jurisdiction.

"Development" means any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, levees, levee systems, mining, dredging, filling, grading, paving, excavation or drilling operations, or storage of equipment or materials.

"Elevated Building" means for insurance purposes, a non-basement building which has its lowest elevated floor raised above ground level by foundation walls, shear walls, posts, piers, pilings, or columns.

"Eligible Community" or "Participating Community" means a community for which the Administrator has authorized the sale of flood insurance under the National Flood Insurance Program (NFIP).

"Existing Construction" means for the purposes of determining rates, structures for which the *"start of construction"* commenced before the effective date of the FIRM or before January 1, 1975, for FIRMs effective before that date. *"Existing construction"* may also be referred to as *"existing structures."*

"Existing Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured 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 floodplain management regulations adopted by a community.

"Expansion to an Existing Manufactured Home Park or Subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

"Flood" or "Flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from (1) the overflow of inland and/or (2) the unusual and rapid accumulation or runoff of surface waters from any source.

"Flood Boundary and Floodway Map (FBFM)" means an official map of a community on which the Administrator has delineated both special flood hazard areas and the designated regulatory floodway.

Flood Elevation Determination" means a determination by the Administrator of the water surface elevations of the base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year.

"Flood Elevation Study" means an examination, evaluation and determination of flood hazards.

"Flood Fringe" means the area outside the floodway encroachment lines, but still subject to inundation by the regulatory flood.

"Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by the Administrator, where the boundaries of the flood areas having special flood hazards have been designated as (unnumbered or numbered) A zones.

"Flood Insurance Rate Map (FIRM)" means an official map of a community, on which the Administrator has delineated both the special flood hazard areas and the risk premium zones applicable to the community.

"Flood Insurance Study (FIS)" means an examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations.

"Floodplain" or "Flood-prone Area" means any land area susceptible to being inundated by water from any source (*see "flooding"*).

"Floodplain Management" means the operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works, and floodplain management regulations.

"Floodplain Management Regulations" means zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as floodplain and grading ordinances) and other applications of police power. The term describes such state or local regulations, in any combination thereof, that provide standards for the purpose of flood damage prevention and reduction.

"Floodproofing" means any combination of structural and nonstructural additions, changes, or adjustments to structures that reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, or structures and their contents.

"Floodway" or "Regulatory Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot.

"Floodway Encroachment Lines" means the lines marking the limits of floodways on Federal, State and local floodplain maps.

"Freeboard" means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. *"Freeboard"* tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as bridge openings and the hydrological effect of urbanization of the watershed.

"Functionally Dependent Use" means a use that cannot perform its intended purpose unless it is located or carried out in close proximity to water. This term includes only docking facilities and facilities that are necessary for the loading and unloading of cargo or passengers, but does not include long-term storage or related manufacturing facilities.

"Highest Adjacent Grade" means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.

"Historic Structure" means any structure that is (a) listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on 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 (1) by an approved state program as determined by the Secretary of the Interior or (2) directly by the Secretary of the Interior in states without approved programs.

"Lowest Floor" means the lowest floor of the lowest enclosed area, including basement. An unfinished or flood-resistant enclosure, usable solely for parking of vehicles, building access, or storage, in an area other than a basement area, is not considered a building's lowest floor, **provided** that such enclosure is not built so as to render the structure in violation of the applicable floodproofing design requirements of this ordinance.

"Manufactured Home" means a structure, transportable in one or more sections, that is built on a permanent chassis and is designed for use with or without a permanent foundation when attached to the required utilities. The term *"manufactured home"* **does not include** a *"recreational vehicle."*

"Manufactured Home Park or Subdivision" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

"Map" means the Flood Hazard Boundary Map (FHBM), Flood Insurance Rate Map (FIRM), or the Flood Boundary and Floodway Map (FBFM) for a community issued by the Federal Emergency Management Agency (FEMA).

"Market Value" or "Fair Market Value" means an estimate of what is fair, economic, just and equitable value under normal local market conditions.

"Mean Sea Level" means, for purposes of the National Flood Insurance Program (NFIP), the National Geodetic Vertical Datum (NGVD) of 1929 or other datum, to which base flood elevations shown on a community's Flood Insurance Rate Map (FIRM) are referenced.

"New Construction" means, for the purposes of determining insurance rates, structures for which the *"start of construction"* commenced on or after the effective date of an initial FIRM or after December 31, 1974, whichever is later, and includes any subsequent improvements to such structures. For floodplain management purposes, *"new construction"* means structures for which the *"start of construction"* commenced on or after the effective date of the floodplain management regulations adopted by a community and includes any subsequent improvements to such structures.

"New Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lot on which the manufactured 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 floodplain management regulations adopted by the community.

"(NFIP)" means the National Flood Insurance Program (NFIP).

"Participating Community" also known as an *"eligible community,"* means a community in which the Administrator has authorized the sale of flood insurance.

"Person" includes any individual or group of individuals, corporation, partnership, association, or any other entity, including Federal, State, and local governments and agencies.

"Principally Above Ground" means that at least 51 percent of the actual cash value of the structure, less land value, is above ground.

"Recreational Vehicle" means a vehicle which is (a) built on a single chassis; (b) 400 square feet or less when measured at the largest horizontal projections; (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 temporary living quarters for recreational, camping, travel, or seasonal use.

"Remedy A Violation" means to bring the structure or other development into compliance with Federal, State, or local floodplain management regulations; or, if this is not possible, to reduce the impacts of its noncompliance.

"Repetitive Loss" means flood-related damages sustained by a structure on two separate occasions during a 10-year period for which the cost of repairs at the time of each such flood event, equals or exceeds twenty-five percent of the market value of the structure before the damage occurred.

"Risk Premium Rates" means those rates established by the Administrator pursuant to individual community studies and investigations which are undertaken to provide flood insurance in accordance with Section 1307 of the National Flood Disaster Protection Act of 1973 and the accepted actuarial principles. *"Risk premium rates"* include provisions for operating costs and allowances.

"Special Flood Hazard Area" *see "area of special flood hazard."*

"Special Hazard Area" means an area having special flood hazards and shown on an FHBM, FIRM or FBFM as zones (unnumbered or numbered) A and AE.

"Start of Construction" includes substantial-improvements, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition placement, or other improvements were within 180 days of the permit date. The ***actual start*** means either the first placement of permanent construction of a structure on a site, such as the pouring of slabs or footings, the installation of piles, the construction of columns, any work beyond the stage of excavation, or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling, the installation of streets and/or walkways, excavation for a basement, footings, piers, foundations, the erection of temporary forms, nor installation on the property of accessory structures, 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 a building, whether or not that alteration affects the external dimensions of the building.

"State Coordinating Agency" means that agency of the state government, or other office designated by the governor of the state or by state statute at the request of the Administrator to assist in the implementation of the National Flood Insurance Program (NFIP) in that state.

"Structure" means, for floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home. *"Structure"* for insurance purposes, means a walled and roofed building, other than a gas or liquid storage tank that is principally above ground and affixed to a permanent site, as well as a manufactured home on a permanent foundation. For the latter purpose, the term includes a building while in the course of construction, alteration or repair, but does not include building materials or supplies intended for use in such construction, alteration or repair, unless such materials or supplies are within an enclosed building on the premises.

"Substantial-Damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred. The term includes Repetitive Loss buildings (see definition).

For the purposes of this definition, "repair" is considered to occur when the first repair or reconstruction of any wall, ceiling, floor, or other structural part of the building commences.

The term does not apply to:

- a.) Any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or
- b.) Any alteration of a "historic structure" provided that the alteration will not preclude the structure's continued designation as a "historic structure", or
- c.) Any improvement to a building.

"Substantial Improvement" means any combination of reconstruction, alteration, or improvement to a building, taking place during a 10 year period, in which the cumulative percentage of improvement equals or exceeds fifty percent of the current market value of the building. For the purposes of this definition, an improvement occurs when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building. This term includes structures, which have incurred "repetitive loss" or "substantial damage", regardless of the actual repair work done.

The term does not apply to:

- a.) any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or
- b.) Any alteration of a "historic structure" provided that the alteration will not preclude the structure's continued designation as a "historic structure." Or
- c.) Any building that has been damaged from any source or is categorized as repetitive loss.

** Recommend development of written and adopted policy and procedure.

"Substantially improved existing manufactured home parks or subdivisions" is where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds 50 percent of the value of the streets, utilities and pads before the repair, reconstruction or improvement commenced.

"Variance" means a grant of relief by the community from the terms of a floodplain management regulation. Flood insurance requirements remain in place for any varied use or structure and cannot be varied by the community.

"Violation" means the failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required by this ordinance is presumed to be in violation until such time as that documentation is provided.

"Water Surface Elevation" means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929 (or other datum where specified) of floods of various magnitudes and frequend frequencies in the floodplain.

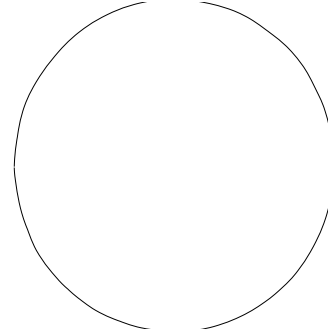
ARTICLE 9 CERTIFICATE OF ADOPTION

This Floodplain Management Ordinance for the community of the City of Harrisonville, Missouri.

ADOPTED AND APPROVED by the Governing Body of the City of Harrisonville, Missouri.

This _____ day of _____, 20____.

Place seal here.



Chief Executive Officer/Chief Elected Official (Signature)

Name

Title

Chief Executive Officer/Chief Elected Official (Typed/printed)

ATTEST:

Signature of Recording Clerk

Name

Title

Recording Clerk (Typed/printed)

SAMPLE FORMS

It is recommended that the following forms be used in implementing the attached ordinance.

1. Floodplain Development Permit/Application

This form should be issued to all applicants whose proposed development meets the definition of development in the community's floodplain management regulations. Copies of this form must be maintained by the community.

2. Elevation and Floodproofing Certificates

These FEMA forms should be used to validate that the techniques used to elevate or floodproof the structure meet the community standards. Use of these particular FEMA forms is encouraged to ensure both compliance with local regulations and provide adequate information for insurance purposes. When these forms are used, the community should maintain a copy in the file with the floodplain development permit. Copies of these forms may be obtained without cost by calling the National Flood Insurance Program toll free at (800) 358-9616.



STAFF REPORT

TO: Public Works Committee
FROM: Eric Patterson, Director
DATE: February 2, 2017
SUBJECT: February 2017 Project Update

Type of Item: *Discussion***WATER SYSTEMS**

- **Water Treatment Plant Bonds sold**
- **WTP Pre-Con meeting January 24, 2017**
- **Notice to proceed set for February 15, 2017**

SANITARY SEWERS

- **No Current Projects**

STORMWATER

- Ø **Chateau:**
 - getting bid documents together
 - need to re-appropriate 2016 money for this project to 2017
 - will need to re-appropriate money from 2016 Morningview to this project

GENERAL/TRANSPORTATION

- **2016 Asphalt Overlay: Done**
- **Mechanic Street- Phase 2 opened**
- **2015 Sidewalk Program: done**
- **2016 side walk program_started**
- **Jefferson Pkwy Sidewalk:**
 - Missouri Moves grant applied for (Missouri pulled the program September this year)
 - Engineering Contract signed
 - MODOT contract approved by the Board and sent to MODOT.

ELECTRIC

- Ø **3 Phase Commercial Customers:**
 - A few noticed to be billed wrong, Bills sent out in January reflect new charges

➤ **Single Phase Commercial Customers:**

- We will have several that are required by Ordinance to be on a "Demand" meter. (see attached Ordinance):

Section 700.530 Electrical Rates.

3. Commercial service rate.

a.

Availability. To all business and commercial enterprises, churches, schools and institutions for lighting and small power service. Business in homes operated solely by telephone or mail are excluded.

b.

Character of service. Alternating current, sixty (60) cycles, single phase except at the utility's option. Service at 115 or 115/230 volts. Motor ratings over (one and one-half (1½) hP shall be served at 230 volts.

Customers receiving service under this schedule shall not use more than 10,000 kWh in any one (1) monthly billing period, nor install motors aggregating more than ten (10) hP. Customers who use more than 10,000 kWh in any monthly billing or having installed motors aggregating more than ten (10) hP shall be billed under the combined light and power schedule for the succeeding twelve (12) months.

Monthly base service charge	\$8.54
First 1,000 kWh per month	\$0.1260
Over 1,000 kWh per month	\$0.1042

c.

Supply cost adjustment. Service under this schedule is subject to the provisions of the supply cost adjustment schedule.

4. Combined light and power service rate.

a.

Availability. To industrial and heavy commercial load customers.

b.

Character of service. Alternating current, sixty (60) cycles, single or three phase. Service at secondary or primary voltage. All new customers having an estimated billing demand in excess of ten (10) kw shall be billed under this schedule. Any customer using 10,000 kWh or more or ten (10) kw or more of demand power in any one (1) monthly billing period or installing motors aggregating more than ten (10) hP shall be billed under this schedule for at least twelve (12) consecutive months.

Monthly service charge	\$25.62
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Demand charge - \$ per kWh of metered demand	
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Summer	\$9.34
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Winter	\$9.34
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All volume per kWh per month	\$0.079
	6

c.

Supply cost adjustment. Service under this schedule is subject to the provisions of the supply cost adjustment schedule.

A. Discussion Item (ID # 2442)

Project Update



STAFF REPORT

TO: Public Works Committee
FROM: Eric Patterson, Director
DATE: February 2, 2017
SUBJECT: Airport Update

Type of Item: *Report*

LAWRENCE SMITH MEMORIAL AIRPORT REPORT

For the month of January, 2017

Hangar and Tie Down Space:

- All hangars are full, 9 people on the waiting list
- 10 Outside tie down spots available

Fuel:

- Potential jet fuel sales - approx. 150 gallons
- 100LL - our current price is \$3.90 per gallon
- Fuel prices in our service area:

Lee's Summit	\$3.93 per gal.
Butler	\$4.15 per gal.
Warrensburg	\$3.99 per gal.
East Kansas City	\$3.99 per gal.
Clinton	\$3.75 per gal.

AVGAS Sales: (Jan. 1st through Jan. 31st)

- Price \$3.90 per gallon
- Gallons Sold 484 gallons
- Revenue \$1,889.24
- Profit \$203.28

Airport Layout Plan/Airport GIS Project:

This project is nearing completion, our consultants are preparing the final drawings and should be presenting the final project documents within the next couple of months.

Automated weather Observation System Data Verification:

After a lengthy delay caused by the manufacturer our AWOS system is now relaying verified information to the National Weather Service. This allows the current weather conditions to be published in the official weather sources available to pilots and other airport users.

This data has always been available to pilots but it has to be verified by a third party to be made official and be included in the FAA's approved weather listings. This is made possible by a new piece of equipment placed at our AWOS station (equipment purchased by MODOT) and the city is responsible for the data collection and verification which is performed by a third party for a fee of \$60 per month.

A. Discussion Item (ID # 2445)

Airport Update