

**FLOOD DAMAGE PREVENTION
TOWNSHIP OF FRANKENLUST, MICHIGAN
ord. no. 28 eff. Sept. 29, 1979**

THE TOWNSHIP OF FRANKENLUST, BAY COUNTY, MICHIGAN ORDAINS:

**SECTION 1.0
STATUTORY AUTHORIZATION, FINDINGS OF FACT,
PURPOSE AND OBSERVATION**

Sec. 1.1 STATUTORY AUTHORIZATION.

The Legislature of the State of Michigan has, by statute, to-wit, Public Acts of 1943, No. 184, being MCLA 125.271, et seq., as amended; Public Acts of 1959, No. 165, being MCLA 125.371, et seq.; the provision of Public Acts of 1952, No. 278, being MCLA 281.621, et seq., as amended; and Public Acts of 1954, No. 246, being MCLA 41.181, et seq., as amended, delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety and general welfare of its citizenry. Therefore, the Township Board of Frankenlust Township, County of Bay and State of Michigan, does ordain as follows:

(ord. no. 28 eff. Sept. 29, 1979)

Sec. 1.2 FINDINGS OF FACT.

(1) The flood hazard areas of Frankenlust Township are subject to periodic 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) These flood losses are caused by the cumulative effect of obstructions in areas of special flood hazards which increase flood heights and velocities, and when inadequately anchored, damage uses in other areas. Uses that are inadequately floodproofed, elevated or otherwise protected from flood damage also contribute to the flood loss.

(ord. no 28, eff. Sept. 29, 1979)

Sec. 1.3 STATEMENT OF PURPOSE.

It is the purpose of this Ordinance to promote the public health, safety and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed:

- (1) To protect human life and health;
- (2) To minimize expenditure of public money for costly flood control projects;
- (3) To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- (4) To minimize prolonged business interruptions;
- (5) To minimize damage to public facilities and utilities, such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
- (6) To help maintain a stable tax base by providing for the second use and development of areas of special flood hazards so as to minimize future flood blight areas;
- (7) To insure that potential buyers are notified that property is in an area of special flood hazard; and,
- (8) To insure that those who occupy the areas of special flood hazard assume responsibility for their actions.
(ord. no. 28 eff. Sept. 29, 1979)

Sec. 1.4 METHODS OF REDUCING FLOOD LOSSES.

In order to accomplish its purposes and to meet the requirements of Section 1910.3(d) of the Federal Insurance Administration Regulation, this Ordinance includes methods and provisions for:

- (1) Restricting or prohibiting uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;
- (2) Requiring that uses vulnerable to floods, including facilities, which serve such uses, be protected against flood damage at the time of initial construction.
- (3) Controlling the alteration of natural floodplains, stream channels and natural protective barriers, which help accommodate or channel floodwaters;
- (4) Controlling filling, grading, dredging and other development which may increase flood damage; and

(5) Preventing or regulating the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards in other areas.

(ord. no. 28 eff. Sept. 29, 1979)

SECTION 2.0 DEFINITIONS

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

“Appeal” means a request for a review of the Zoning Administrator’s interpretation of any provision of this Ordinance or a request for a variance.

“Area of Shallow Flooding” means a designated AO or VO Zone on the Flood Insurance Rate Map (FIRM). The base flood depths range from one to three feet; a clearly defined channel does not exist; the path of flooding is unpredictable and indeterminate; and, velocity flow may be evident.

“Area of Special Flood Hazard” means the land in the floodplain within the Township 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.

“Development” means any man-made change to improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, excavation or drilling operations located with the area of special flood hazard.

“Existing Mobile Home Park or Mobile Home Subdivision” means a parcel (or contiguous parcels) of land divided into two or more mobile home lots for rent or sale for which the construction of facilities for servicing the lot on which the mobile home is to be affixed (including, at a minimum, the installation of utilities, either final site grading or the pouring of concrete pads, and the construction of streets) is completed before the effective date of this Ordinance.

“Expansion to an Existing Mobile Home Park or Mobile Home Subdivision” means the preparation of additional sites by the construction of facilities for servicing the lots on which the mobile homes are to be affixed (including the

installation of utilities, either final site grading or pouring of concrete pads, or the construction of streets.)

“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 or tidal waters and/or
- (2) The unusual and rapid accumulation or runoff of surface waters from any source.

“Flood Insurance Rate Map” (FIRM) means the official map on which the Federal Insurance Administration has delineated both the areas of special flood hazards and the risk premium zones applicable to the community.

“Flood Insurance Study” means the official report provided by the Federal Insurance Administration that includes flood profiles, the Flood Boundary-Floodway Map, and the water surface elevation of the base flood.

“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.

“Habitable Floor” means any floor usable for living purposes, which includes working, sleeping, eating, cooking or recreation, or a combination thereof. A floor used only for storage purposes is not a “habitable floor.”

“Mobile Home” means a structure that is transportable in one or more sections, built on a permanent chassis and designed to be used with or without a permanent foundation when connected to the required utilities. It does not include recreation vehicles or travel trailers.

“New Construction” means structures for which the “start of construction” commenced on or after the effective date of this Ordinance.

“New Mobile Home Park or Mobile Home Subdivision” means a parcel (or contiguous parcels) of land divided into two or more mobile home lots for rent or sale for which the construction of facilities for servicing the lot (including, at a minimum, the installation of utilities, either final site grading or the pouring of concrete pads, and the construction of streets) is completed on or after the effective date of this Ordinance.

“Start of Construction” means the first placement of permanent construction of a structure (other than a mobile home) on a site, such as the pouring of slabs or footings or any work beyond the stage of excavation. Permanent construction does not include land preparation, such as clearing, grading and filling, or 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 dwellings units or not as part of the main structure. For a structure (other than a mobile home) without a basement or poured footings, the **“start of construction”** includes the first permanent framing or assemble of the structure or any party thereof on its piling or foundation. For mobile homes not within a mobile home park or mobile home subdivision, **“start of constructing,”** means the affixing of the mobile home to its permanent site. For mobile homes within mobile home parks or mobile home subdivisions, **“start of construction”** is the date on which the construction of facilities for servicing the site on which the mobile home is to be affixed (including, at a minimum, the construction of streets, either final site grading or the pouring of concrete pads, and installation of utilities) is completed.

“Structure” means a walled and roofed building, liquid or gas storage facility, or mobile home that is principally above ground.

“Substantial Improvement” means any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure either:

- (1) before the improvement or repair is started, or
- (2) if the structure has been damaged and is being restored, before the damage occurred. For the purposes of this definition “substantial improvement” is considered to occur 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 structure. The term does not, however, include either:
 - (1) any project for improvement of a structure to comply with existing state or local health, sanitary or safety code specifications which are solely necessary to assure safe living conditions, or
 - (2) any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

“Variance” means a grant of relief from the requirements of this Ordinance, which permits construction in a manner that would otherwise be prohibited by this Ordinance.

(ord. no. 28 eff. Sept. 29, 1979)

SECTION 3.0 GENERAL PROVISIONS

Sec. 3.1 LANDS TO WHICH THIS ORDINANCE APPLIES.

This Ordinance shall apply to all areas of special flood hazards within the jurisdiction of Frankenlust Township.

(ord. no. 28 eff. Sept. 29, 1979)

Sec. 3.2 BASIS FOR ESTABLISHING THE AREA OF SPECIAL FLOOD HAZARD.

The areas of special flood hazard identified by the Federal Insurance Administration in a scientific and engineering report entitled “The Flood Insurance Study for Frankenlust Township” dated August 14, 1979, and accompanying Flood Insurance Rate Maps and Flood Boundary-Floodway Maps are hereby adopted by reference and declared to be a part of this Ordinance. The Flood Insurance Study is on file at the office of the Township Clerk of Frankenlust Township.

(ord. no 28 eff. Sept. 29, 1979)

Sec. 3.3 PENALTIES FOR NONCOMPLIANCE.

No structure or land shall hereafter be constructed, located, extended, converted or altered without full compliance with the terms of this Ordinance and other applicable regulations. Violation of the provisions of this Ordinance by failure to comply and safeguards established in connection with such conditions, shall constitute a misdemeanor punishable by a fine of One Hundred and no/100 (\$100.00) Dollars or 90 days in the County jail, or both, at the discretion of the court having jurisdiction thereof, for each violation, and in addition, shall pay all costs and expenses involved as ordered by the court. Nothing herein contained shall prevent the Township from taking such other lawful action in the Circuit Court for the County of Bay as is necessary to prevent or remedy and violation.

(ord. no. 28 eff. Sept. 29, 1979)

Sec.3.4 ABROGATION AND GREATER RESTRICTIONS.

This Ordinance is not intended to repeal, abrogate or impair any existing easements, covenant or deed restrictions. However, where this Ordinance and another ordinance, easement, covenant or deed restriction conflict or overlap, whichever imposes the more stringent restrictions, shall prevail.
(ord. no. 28 eff. Sept. 29, 1979)

Sec. 3.5 INTERPRETATION.

In the interpretation and application of this Ordinance, all provisions shall be:

- (1) Considered as minimum requirements;
- (2) Liberally construed in favor of the governing body; and,
- (3) Deemed neither to limit nor repeal any other powers granted under state statutes.
(ord. no 28 eff. Sept. 29, 1979)

Sec. 3.6 WARNING AND DISCLAIMER OF LIABILITY.

The degree of flood protection required by this Ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering consideration. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This Ordinance does not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damages. This Ordinance shall not create liability on the part of Frankenlust Township, any officer or employee thereof, or the Federal Insurance Administration, for any flood damages that result in reliance on this Ordinance or any administrative decision lawfully made thereunder.
(ord. no. 28 eff. Sept. 29, 1979)

SECTION 4.0 ADMINISTRATION

Sec. 4.1 ESTABLISHMENT OF DEVELOPMENT PERMIT.

A Development Permit shall be obtained before construction or development begins within any area of special flood hazard established in Section 3.2 [25.232]. Application for a Development Permit shall be made on forms furnished by the Zoning Administrator and may include, but not be limited to; plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the areas in question; existing or proposed structures, fill, storage of

materials, drainage facilities; and the location of the foregoing. Specifically, the following information is required:

- (1) Elevation, in relation to mean sea level, of the lowest floor (including basement) of all structures;
- (2) Elevation, in relation to mean sea level, to which any structure has been floodproofed;
- (3) Certification by a registered professional engineer or architect that the floodproofing methods for any nonresidential structure meet the floodproofing criteria in Section 5.2-2[25.252]; and
- (4) Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.
(ord. no. 28 eff. Sept. 29, 1979)

Sec. 4.2 DESIGNATION OF THE ZONING ADMINISTRATOR.

The Zoning Administrator is hereby appointed to administer and implement this Ordinance by granting or denying Development Permit applications in accordance with its provisions.

(ord. no. 28 eff. Sept. 29, 1979)

Sec. 4.3 DUTIES AND RESPONSIBILITIES OF THE ZONING ADMINISTRATOR.

Duties of the Zoning Administrator shall include, but not be limited to:

Sec. 4.3-1 Permit Review.

- (1) Review all Development Permits to determine that the permit requirements of this Ordinance have been satisfied.
- (2) Review all Development Permits to determine that all necessary permits have been obtained from those federal, state or local governmental agencies from which prior approval is required.
- (3) Review all Development Permits to determine if the proposed Development adversely affects the flood-carrying capacity of the area of special flood hazard. For purposes of this Ordinance, "adversely affects" means that the cumulative effect of the proposed development, will not increase the water surface elevation of the base flood more than one foot at any point.

Sec. 4.3-2 Use Of Other Base Flood Data.

When base flood elevation data has not been provided in accordance with Section 3.2, Basis for Establishing the Areas of Special Flood Hazard [25.232], the Zoning Administrator shall obtain, review, and reasonably utilize any base flood elevation data available from a federal, state or other source, in order to administer Section 5.2-1 Specific Standards, residential Construction, and 5.2-2, Specific Standards, Nonresidential Construction [25.252].

Sec. 4.3-3 Information To Be Obtained And Maintained.

- (1) Obtain and record the actual elevation (in relation to mean sea level) of the lowest habitable floor (including basement) of all new or substantially improved structures.
- (2) For all new or substantially improved floodproofed structures:
 - (a) verify and record the actual elevation (in relation to mean sea level), and
 - (b) maintain the floodproofing certifications required in Section 4.1 (3) [25.241].
- (3) Maintain, for public inspection, all records pertaining to the provisions of this Ordinance.

Sec. 4.3-4 Alteration Of Watercourses.

- (1) Notify adjacent communities and the Department of Natural Resources (state coordinating agency) prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration.
- (2) Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished.

Sec. 4.3-5 Interpretation Of Firm Boundaries.

Make interpretations where needed, as to the exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in Section 4.4 [25.244].

(ord. no. 28 eff. Sept. 29, 1979)

Sec. 4.4 VARIANCE PROCEDURE.

Sec. 4.4-1 Appeal Board.

(1) The Frankenlust Township Zoning Board of Appeals, as established by Frankenlust Township, shall hear and decide appeals and requests for variances from the requirements of this Ordinance.

(2) The Zoning Board of Appeals shall hear and decide appeals when it is alleged there is an error in any requirement, decision or determination made by the Zoning Administrator in the enforcement or administration of this Ordinance.

(3) Those aggrieved by the decision of the Zoning Board of Appeals, or any taxpayer, may appeal such decision to the Circuit Court for the County of Bay, as provided by law for appeal from decisions of such Board in zoning matters.

(4) In passing upon such applications, they (Appeal Board) shall consider all technical evaluations, all relevant factors, standards specified in other section of this Ordinance, and:

- (I) the danger that materials may be swept onto other lands to the injury of other;
- (II) the danger to life and property due to flooding or erosion damages;
- (III) the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
- (IV) the importance of the services provided by the proposed facility to the community;
- (V) the necessity to the facility of a waterfront location, where applicable;
- (VI) the availability of alternative locations for the proposed use, which are not subject to flooding or erosion damage;
- (VII) the compatibility of the proposed use with existing and anticipated development;

(VIII) the relationship of the proposed use to the comprehensive plan and flood plan management program for that area;

(IX) the safety of access to the property in times of flood for ordinary and emergency vehicles;

(X) the expected heights, velocity, duration, rate of rise, sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site; and,

(XI) the cost 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, and streets and bridges.

(5) 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 (I-XI) in Section 4.4-1(4) have been fully considered. As the lot size increases beyond the one-half acre, the technical justification required for issuing the variance increases.

(6) Upon consideration of the factors of section 4.4-1(4) and the purposes of this Ordinance, the Zoning Board of Appeals may attach such conditions to the granting of variances as it deems necessary to further the purposes of this Ordinance.

(7) The Zoning Administrator shall maintain the records of all appeal actions and report any variances to the Federal Insurance Administration upon request.

Sec. 4.4-2 Conditions For Variances.

(1) Variances may be issued for the reconstruction, rehabilitation or restoration of structures listed on the National Register of Historic Places or the State Inventory of Historic Places, without regard to the procedures set forth in the remainder of this section.

(2) A variance shall not be granted within a regulatory floodway where the result would be any increase in flood levels during a base flood discharge, except upon certification by a registered professional engineer or the Department of Natural Resources that the cumulative effect of the proposed development when combined with all other existing and anticipated development will not harmfully increase the water service elevation of a base flood. In determining whether a harmful increase will occur, compliance with Public Act 45 of 1929, as amended

by Public Act 167 of 1968, shall be required, provided that the allowable increase, including the increase used as the design standard for delineating the floodway, shall not exceed one foot.

(ord. no 58 eff. Nov. 19, 1992)

(3) Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.

(4) Variances shall only be issued 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 a variance will not result in increased flood heights, additional threats to public expense, create nuisances, cause fraud on or victimization of the public as identified in Section 4.4-1(4), or conflict with existing local laws or ordinances.

(5) Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with lowest floor elevation below the base flood elevation and that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.

(ord. no. 28 eff. Sept. 29, 1979)

SECTION 5.0 PROVISIONS FOR FLOOD HAZARD REDUCTION

Sec. 5.1 GENERAL STANDARDS.

In all areas of special flood hazards the following standards are required:

Sec. 5.1-1 Anchoring.

(1) All new construction and substantial improvements shall be anchored to prevent flotation, collapse or lateral movement of the structure.

(2) All mobile homes shall be anchored to resist flotation, collapse or lateral movement by providing over-the-top and frame ties to ground anchors. Specific requirements shall be that:

(I) over-the-top ties to be provided at each of the four corners of the mobile home, with two additional ties per side at intermediate locations, with mobile homes less than 50 feet long requiring one additional tie per side;

(II) frame ties be provided at each corner of the home with five additional ties per side at intermediate points, with mobile homes less than 50 feet long requiring four additional ties per side;

(III) all components of the anchoring system be capable of carrying a force of 4,800 pounds; and

(IV) any additions to the mobile home be similarly anchored.

Sec. 5.1-2 Construction Materials and Methods.

(1) All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.

(2) All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.

Sec. 5.1-3 Utilities.

(1) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;

(2) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into flood waters; and,

(3) On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.

Sec. 5.1-4 Subdivision Proposals.

(1) All subdivision proposals shall be consistent with the need to minimize flood damage;

(2) All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize flood damage;

(3) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and,

(4) Base flood elevation data shall be provided for subdivision proposals and other proposed development which contain at least 50 lots or five acres (whichever is less).

(ord. no. 28, eff. Sept. 29, 1979)

Sec. 5.2 SPECIFIC STANDARDS.

In all areas of special flood hazards where base flood elevation data has been provided as set forth in Section 3.2, Basis for Establishing the Areas of Special Flood Hazard [25.232], the following provisions are required:

Sec. 5.2-1 Residential Construction.

New construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated to or above base flood elevation.

Sec. 5.2-2 Nonresidential Construction.

New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall either have the lowest floor, including basement, elevated to the level of the base flood elevation; or, together with attendant utility and sanitary facilities, shall;

(1) be floodproofed so that below the base flood level the structure is watertight with walls substantially impermeable to the passage of water;

(2) have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; and

(3) be certified by a registered professional engineer or architect that the standards of this subsection are satisfied. Such certifications shall be provided to the official as set forth in Section 4.3-3(2) [25.243].

Sec. 5.2-3 Mobile Homes.

(1) Mobile homes shall be anchored in accordance with Section 5.1-1(2) [25.251].

(2) For new mobile home parks and mobile home subdivisions; for expansions to existing mobile home parks and mobile home subdivisions; for existing mobile home parks and mobile home subdivisions where the repair, reconstruction or improvement of the streets, utilities and pads equals or exceeds 50% of the value of the streets, utilities and pads before the repair, reconstruction or improvement has commenced; and for mobile homes not placed in a mobile home subdivision, require that:

(I) stands or lots are elevated on compacted fill or on pilings so that the lowest floor of the mobile home will be at or above the base flood level:

(II) adequate surface drainage and access for a hauler are provided; and,

(III) in the instance of elevation on pilings, that:

-lots are large enough to permit steps,

-piling foundations are placed in stable soil no more than ten feet apart, and

-reinforcement is provided for pilings more than six feet above the ground level.

(3) No mobile home shall be placed in a floodway, except in an existing mobile home park or existing mobile home subdivision.

(ord. no. 28 eff. Sept. 29, 1979)

Sec. 5.3 **FLOODWAYS.**

Located within areas of special flood hazard established in Section 3.2[25.232] are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of floodwaters, which carry debris, potential projectiles and erosion potential, the following provisions apply:

(1) Prohibit encroachments, including fill, new construction, substantial improvements and other development, unless certification by a registered professional engineer or architect is provided demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge.

(2) If Section 5.3(1) is satisfied, all new construction substantial improvements shall comply with all applicable flood hazard reduction provisions of Section 5.0, Provisions for Flood Hazard Reduction [25.250].

(3) Prohibit the placement of any mobile homes, except in an existing mobile home park or existing mobile home subdivision.
(*ord. no. 28, eff. Sept. 29, 1979*)

Sec. 6.0 PUBLICATION.

This Ordinance shall be published in a newspaper of general circulation within the Township of Frankenlust, County of Bay and State of Michigan, within 10 days following the date of adoption hereof.

Sec. 7.0 EFFECTIVE DATE.

This Ordinance shall take effect 30 days following publication in a newspaper of general circulation within the Township of Frankenlust, County of Bay and State of Michigan.

Adopted: August 14, 1979

Published: August 30, 1979

Effective: September 29, 1979