ORDINANCE #5-13 AMENDING CHAPTER XV, THE FLOOD DAMAGE PREVENTION ORDINANCE, OF THE REVISED GENERAL ORDINANCES OF THE BOROUGH OF KEYPORT

damage therefrom; and WHEREAS, the Borough of Keyport experienced significant flooding during the Sandy and many residential and non-residential structures sustained

demonstrated by Superstorm Sandy to be out-of-date; and WHEREAS, Keyport presently regulates flood zone development based upon Flood Insurance Rate Maps (FIRMs), which are more than 25 years old and have been WHEREAS,

process of a study of coastal areas that will culminate in the adoption of new FIRMs to replace the current FIRMs; and WHEREAS, the Federal Emergency Management Agency ("FEMA") is

WHEREAS, in response to Superstorm Sandy, in December of 2012, the Federal Emergency Management Agency ("FEMA") published an Advisory Flood Hazard Map containing Advisory Base Flood Elevations ("ABFEs") based upon the best data available from the aforementioned study to better reflect current coastal flood hazard

WHEREAS, FEMA advises that the Advisory Flood Hazard Map represents a conservative approach based upon the best data available at that time, and will be refined and superseded by "Work Maps" during the Summer of 2013; and

WHEREAS, FEMA further advises that the Work Maps will be refined and superseded by preliminary draft of the new FIRMs, which are anticipated to be released in December of 2013, and following a public process during which time further revisions may be made, adoption in 2015; and

structures sustaining damage of 50% or more of their value; and WHEREAS, FEMA is urging municipalities to adopt the new flood standards based upon the best data available, which would apply to new construction and

policy holders in high-risk areas; and data available may result in premium discounts for National Flood Insurance Protection WHEREAS, the adoption of the new flood standards consistent with the best

WHEREAS, the Borough Engineer has recommended the Mayor and Council adopt new flood standard based upon the best data available for these and other reasons set forth in his letter of [February 27, 2013]; and

WHEREAS, the Mayor and Council finds it to be in the best interests of the Borough of Keyport, its residents and business owners for the Borough to adopt the new flood standard based upon the best available data.

Borough of Keyport as follows: THEREFORE, 略 IT ORDAINED by the Mayor and Council 으

Amendments to Chapter XV of the Revised General Ordinances SECTION I.

Ordinances Chapter XV, ances of the Borough of Keyport is The Flood Damage Prevention Ordinance, of the Revised General hereby amended and revised ರ

STATUTORY OBJECTIVES **AUTHORIZATION, FINDINGS** 유 FACT, **PURPOSE** AND

15-1.1 STATUTORY AUTHORIZATION

the responsibility to local governmental units to adopt regulations designed to promote public health, safety, and general welfare of its citizenry. Therefore, the <u>Mayor and Council(geverning bedy)</u> of the Borough of Keyport, of Monmouth County, New Jersey. does ordain as follows The Legislature of the State of New Jersey has in N.J.S.A. 40:48-1 et seq.,

15-1.2 FINDINGS OF FACT

- which adversely affect the public health, safety, and general welfare expenditures for flood protection and relief, and impairment of the tax base, inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public The flood hazard areas of the Borough of Keyport are subject to periodic public
- floodproofed, elevated or otherwise protected from flood damage also contribute to inadequately anchored, causes damage in other areas. special These flood losses are caused by the cumulative effect of obstructions in flood hazard which increase flood heights Uses that are inadequately and velocities, and when

15-1.3 STATEMENT OF PURPOSE

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

- [1] Protect human life and health;
- [2] Minimize expenditure of public money for costly flood control projects;
- generally undertaken at the expense of the general public; Minimize the need for rescue and relief efforts associated with flooding and
- [4] Minimize prolonged business interruptions;
- hazard; electric, Minimize damage to public facilities and utilities such as water and gas mains telephone and sewer lines, streets, bridges located in areas of special flood
- [6] Help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood blight
- Flood Hazard; and Ensure that potential buyers are notified that property is in an <u>A</u>rea 으 Special
- responsibility for their actions Ensure that those who occupy the areas 으 special flood hazard assume

15-1.4 METHODS OF REDUCING FLOOD LOSSES

In order to accomplish its purposes, this ordinance includes methods and provisions

- [1] Restricting or prohibiting uses which are dangerous to health, property due to water or erosion hazards, or which result in damaging erosion or in flood heights or velocities; increases in and
- uses, be protected against flood damage at the time of initial construction; [2] Requiring that uses vulnerable to floods including facilities which serve such

- [3] Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
- [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 flood waters or which may increase flood hazards in other areas.

Section 2.0

15-2 DEFINITIONS

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

"Advisory Flood Hazard Map" means the official map adopted by the Federal Emergency Management Administration in December of 2012, on which FEMA has delineated the areas of advisory flood hazards applicable to Keyport.

any provision of this ordinance or a request for a variance "Appeal" means a request for a review of the Construction Official's interpretation of

"Area of Shallow Flooding" means a designated AO, AH, or VO zone on Keyporta eommunity's Digital Flood Insurance Rate Map (DFIRM) with a one percent annual or greater chance of flooding to an average depth of one to three feet where a clearly velocity flow may be evident. Such flooding is characterized by ponding or sheet flow defined channel does not exist, where the path of flooding is unpredictable and where

the Flood Hazard Map community subject to a one percent or greater chance of flooding in any given year. \underline{A} used herein, this term shall include any Advisory Flood Hazard Area so designated on "Area of Special Flood Hazard" means the land in the floodplain within Keyporta

evaluation of the special flood related erosion hazard area will be designated a Zone E on the Flood Insurance Rate Map. most likely to be subject to severe flood related erosion losses "Area of Special Flood Related Erosion Hazard" is land within a community which is After a detailed

exceeded in any given year. "Base Flood" means the flood having a one percent (1%) chance of being equaled or

"Base Flood Elevation" means the elevation shown on Keyport's Flood Hazard Map that indicates the stillwater elevation plus wave effect (ABFE = SWEL + wave effect) resulting from a flood that has a one percent (1%) or greater chance of being equaled or exceeded in any given year. As used herein, this term shall include any Advisory Base Flood Elevation so designated on the Flood Hazard Map.

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

supporting foundation system "Breakaway Wall" means a wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces without causing damage to the elevated portion of the building or

area subject to high velocity wave action from storms or seismic sources "Coastal High Hazard Area" means an $\underline{\mathbb{A}}$ rea of $\underline{\mathbb{S}}$ pecial $\underline{\mathbb{F}}$ lood $\underline{\mathbb{H}}$ azard extending from offshore to the inland limit of a primary frontal dune along an open coast and any other

located within the Area of Special Flood Hazard including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, or storage of equipment or materials "Development" means any man made change to improved or unimproved real estate

and the risk premium zones applicable to Keyportthe community Federal Insurance Administration has delineated both the areas of special flood hazards "Digital Flood Insurance Rate Map" (DFIRM) means the official map on which the

"Elevated Building" means a non-basement building (i) built, in the case of a building in an Area of Special Flood Hazard, to have the top of the elevated floor or, in the case of a building in a Coastal High Hazard Area, to have the bottom of the lowest horizontal though the lower area is enclosed by means of breakaway walls also includes a building otherwise meeting the definition of "elevated building" even solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of flood waters. In Areas of Coastal High Hazard Areas, "elevated buildings" building during a flood up to the magnitude of the base flood. In an Area of Special water, and (ii) adequately anchored so as not to impair the structural integrity of the means of piling, columns (posts and piers), or shear walls parallel to the flow of the structural member of the elevated floor, elevated above the base flood elevation by Flood Hazard "elevated building" also includes a building elevated by means of fill or

"Erosion" means the process of the gradual wearing away of land masses

- inundation of normally dry land areas from: "Flood or Flooding" means a general and temporary condition of partial or complete
- [1] The overflow of inland or tidal waters, and/or
- The unusual and rapid accumulation or runoff of surface waters from any source.
- according to FEMA, reflect the best data available with respect to the matters set forth "Flood Hazard Map" shall refer to the document or documents prepared by the Federal Emergency Management Agency described in Section 15-3.2 below that
- risk premium zones applicable to Keyport. "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
- Rate Map(s) and the water surface elevation of the base flood. **"Flood Insurance Study" (FIS)** means the official report in which the Federal Insurance Administration has provided flood profiles, as well as the Flood Insurance
- floodplain ordinance, grading ordinance and erosion control ordinance) and other applications of police power. The term describes such State or local regulations, prevention and reduction. combination thereof, which provide standards for the purpose of flood damage regulations, building codes, health regulations, special purpose ordinances (such as a "Floodplain Management Regulations" means zoning ordinances, subdivision in any
- areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than two-tenths (0.2) of a foot "Floodway" means the channel of a river or other watercourse and the adjacent land
- prior to construction next to the proposed walls of a structure "Highest Adjacent Grade" means the highest natural elevation of the ground surface
- "Historic Structure" means any structure that is
- Interior as meeting the requirements for individual listing on the National Register; [1] 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
- preliminarily determined by the Secretary to qualify as a registered historic contributing to the historical significance of a registered historic district or a district [2] Certified or preliminarily determined by the Secretary of the Interior as district;
- [3] 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

- historic preservation programs that have been certified either: [4] Individually listed on a local inventory of historic places in communities with
- Interior; or (a) By an approved State program as determined by the Secretary of the
- (b) Directly by the Secretary of the Interior in States without approved programs

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

which 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" permanent foundation when attached to the required utilities. "Manufactured Home" means a structure, transportable in one or more sections

contiguous parcels) of land divided into two (2) or more manufactured home lots for rent "Manufactured Home Park or Manufactured Home Subdivision" means a parcel (or

"New Construction" means structures for which the start of construction commenced on or after the effective date of a floodplain regulation adopted by Keyporta community and includes any subsequent improvements to such structures

or subdivision for which the construction of facilities for servicing the lots on which regulations adopted by the municipality. concrete pads) is completed on or after the effective date of the floodplain management utilities, the construction of streets, and either final site grading or the pouring of manufactured homes are to be affixed (including at a minimum, the installation of "New Manufactured Home Park or Subdivision" means a manufactured home park the

where there is a distinct change from the relatively steep slope to a relatively mild slope from coastal storms. adjacent to the beach and subject to erosion and overtopping from high tides and waves sand with relatively steep seaward and landward slopes immediately landward and "Primary Frontal Dune" means a continuous or nearly continuous mound or ridge of The inland limit of the primary frontal dune occurs at the point

recreational, camping, travel, or seasonal use primarily not for use as a permanent dwelling but as temporary living quarters for be self-propelled or permanently towable by a light duty truck; and [iv] designed square feet or less when measured at the longest horizontal projections; [iii] designed to "Recreational Vehicle" means a vehicle which is [i] built on a single chassis

landward of the beach. "Sand Dunes" means naturally occurring accumulations of sand in ridges or mounds

first placement of permanent construction of a structure on a site such as the pouring of a slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation, or the placement of a manufactured home on a improvement was within 180 days of the permit date. The actual start means either the improvements and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other under the Coastal Barrier Resources Act (P.L. No. 97-348) includes substantial "Start of Construction" for other than new construction or substantial improvements

and filling nor does it include the installation of streets and/or walkways, nor does it include excavation for a basement, footings or piers, or foundations or the erection of Permanent construction does not include land preparation, such as clearing, grading

or not that alteration affects the external dimensions of the building. the first alteration of any wall, ceiling, floor, or other structural part of a building, whether main structure. For a substantial improvement, the actual start of construction means buildings, such as garages or sheds not occupied as dwelling units or not part of the temporary forms, nor does it include the installation on the property of accessory

liquid storage tank that is principally above ground. "Structure" means a walled and roofed building, a manufactured home, or a gas 으

50 percent of the market value of the structure before the damage occurred the cost of restoring the structure to its condition before damage would equal or exceed "Substantial Damage" means damage of any origin sustained by a structure whereby

improvement of a structure, the cost of which <u>equals or</u> exceeds 50 percent of the market value of the structure before the "start of construction" of the improvement. term includes structures which have incurred "substantial damage", regardless of the structures which have incurred "substantial damage". actual repair work performed. The term does not, however, include either: "Substantial Improvement" means any reconstruction, rehabilitation, addition, , regardless of the or other This

- living conditions; local code enforcement officer and which are the minimum necessary to assure safe local health, sanitary or safety code specifications which have been identified by the [1] Any project for improvement of a structure to correct existing violations of State or ರ್ಷ
- [2] Any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure"

construction in a manner that would otherwise be prohibited by this ordinance "Variance" means a grant of relief from the requirements of this ordinance that permits

Section 3

15-3 GENERAL PROVISIONS

15-3.1 LANDS TO WHICH THIS ORDINANCE APPLIES

Borough of Keyport, Monmouth County, New Jersey. ordinance shall apply to all areas of special flood hazards within the jurisdiction of

BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD

are identified and defined on the following documents prepared by the Federal Emergency Management Agency: The <u>A</u>reas of <u>Special Elood Hazard for the Borough of Keyport, Community No. 340304</u>

- A scientific and engineering report "Flood Insurance Study, Monmouth County, New Jersey (All Jurisdictions)" dated September 25, 2009.
- A scientific and engineering report "Flood Insurance Study, Monmouth County, w Jersey (All Jurisdictions)," dated September 25, 2009.
- [2] Flood Insurance Rate Map for Monmouth County, New Jersey (All Jurisdictions), as shown on Index and panel numbers 34025C0029F, 34025C0033F; and 34025C0037F, whose effective date is September 25, 2009.
- overlap, whichever imposes the more stringent requirement shall prevail precedence over previous panels and FIS in construction and development regulations only. Where the FIRMs and the Advisory Flood Hazard maps of [3] Advisory Base Flood Elevations and Advisory Flood Hazard Maps adopted in December 2012 (revised February 23, 2013). These documents shall take Hazard maps conflict or

Advisory Flood Hazard Map, which upon its publication or adoption (1) represents the best data available according to FEMA and (2) conflicts with any of the above-Special Flood Hazard designated therein. referenced maps or reports or any prior FEMA map, shall prevail as to the Areas of [4] In the instance of any FEMA map published or adopted subsequent to the

a subsequent FEMA document, such documents are herein referred to collectively as Keyport's "Flood Hazard Map." The Flood Insurance Study, maps and advisory documents are on file at 70 West Front Street, Keyport, New Jersey 07735-0070. The above documents are hereby adopted and declared to be a part of this ordinance To the extent such documents have been published or adopted and not superseded by

15-3.3 PENALTIES FOR NONCOMPLIANCE

thereof be subject to the General \underline{P} enalty established by Section 1-5 of this Code, for each violation, and in addition shall pay all costs and expenses involved in the case. altered without full compliance with the terms of this ordinance and other applicable lawful action as is necessary to prevent or remedy any violation involved in this case. Nothing herein contained shall prevent the Borough of Keyport, from taking such other Nothing herein contained shall prevent the Borough of Keyport from taking such other this ordinance or fails to comply with any of its requirements shall upon conviction connection with conditions) shall constitute a misdemeanor. Any person who violates its requirements (including violations of conditions and safeguards established in regulations. Violation of the provisions of this ordinance by failure to comply with any of No structure or land shall hereafter be constructed, located, extended, converted, or lawful action as is necessary to prevent or remedy any violation.

15-3.4 ABROGATION AND GREATER RESTRICTIONS

This ordinance is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this ordinance and other ordinance, easement, covenant, or deed restriction conflict or overlap, whichever imposes the more stringent restrictions shall prevail

15-3.5 INTERPRETATION

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

- [1] Considered as minimum requirements;
- Σ Liberally construed in favor of the governing body; and
- statutes [3] Deemed neither to limit nor repeal any other powers granted under State

15-3.6 WARNING AND DISCLAIMER OF LIABILITY

regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by manflood damages. made or natural causes. Special Elood Hazards or uses permitted within such areas will be free from flooding or The degree of flood protection required by this ordinance is considered reasonable for This ordinance does not imply that land outside the Area of

thereunder. that result from reliance on this ordinance or any administrative decision lawfully made or employee thereof or the Federal Insurance Administration, for any flood damages This ordinance shall not create liability on the part of the Borough of Keyport, any officer

Section 4.0

15-4 ADMINISTRATION

15-4.1 ESTABLISHMENT OF DEVELOPMENT PERMIT

including placement of manufactured homes, within any Area of Special Flood Hazard established in Section 15-3.2. Application for a Development Permit shall be made on forms furnished by the Borough Engineer and may include, but not be limited to; plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities; and the location of the foregoing. Development Permit shall be obtained before construction or development begins

Specifically, the following information is required:

- [1] Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures;
- floodproofed:-[2] Elevation in relation to mean sea level to which any structure has been
- floodproofing methods for any nonresidential structure meet the floodproofing criteria in Section 15-5.2(B); and-[3] Certification by a registered professional engineer or architect that the
- [4] Description of the extent to which any watercourse will be altered or relocated a result of proposed development

DESIGNATION OF THE LOCAL ADMINISTRATOR

ordinance by granting or denying development permit applications in accordance with The Construction Official is hereby appointed to administer and implement this

15-4.3 **DUTIES AND RESPONSIBILITIES OF THE ADMINISTRATOR**

Duties of the Construction Official shall include, but not be limited to:

15-4.3(A) PERMIT REVIEW

- Review all development permits to determine that the permit requirements ordinance have been satisfied
- which prior approval is required [2] Review all development permits to determine that all necessary permits have been obtained from those Federal, State or local governmental agencies from
- provisions of 15-5.3[1] are met. located in the floodway. If located in the floodway, assure that the encroachment [3] Review all development permits to determine if the proposed development is
- dunes so as to increase potential flood damage of Special Flood Hazard to determine if the proposed development alters sand Review all development permits in the coastal high hazard area of the Area
- level in accordance with Section 15-5.4(B)[4] [5] Review plans for walls to be used to enclose space below the base flood

15-4.3(B) USE OF OTHER BASE FLOOD AND FLOODWAY DATA

When base flood elevation and floodway data has not been provided in accordance with Section 15-3.2 ("Basis for Establishing the Areas of Special Flood Hazard"), the Borough Engineer shall obtain, review, and reasonably utilize any base flood elevation and floodway data available from a Federal, State or other source, in order

to administer Sections 15-5.2(A) ("Specific Standards, Residential Construction"), and 15-5.2(B) ("Specific Standards, Nonresidential Construction").

15-4.3(C) INFORMATION TO BE OBTAINED AND MAINTAINED

- lowest floor (including basement) of all new or substantially improved structures and whether or not the structure contains a basement. [1] Obtain and record the actual elevation (in relation to mean sea level) of the
- [2] For all new or substantially improved floodproofed structures
- $(\underline{\underline{a}})$ verify and record the actual elevation (in relation to mean sea level); and
- (b) maintain the floodproofing certifications required in Section 15-4.1[3]
- 5.4(B)[2](a)-(b) are met. [3] In coastal high hazard areas, certification shall be obtained from a registered professional engineer or architect that the provisions of 15-5.<u>4(B)[1]</u> and
- [4] Maintain for public inspection all records pertaining to the provisions of this

15-4.3(D) ALTERATION OF WATERCOURSES

- Use Regulation Program prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration. [1] Notify adjacent communities and the New Jersey Department of Environmental Protection, Dam Safety and Flood Control Section and the Land
- said watercourse so the flood carrying capacity is not diminished [2] Require that maintenance is provided within the altered or relocated portion of

15-4.3(E) INTERPRETATION OF FIRM BOUNDARIES

areas of special flood hazards (for example, where there appears to be a conflict interpretation as provided in Section 15-4.4. location of the boundary shall be given a reasonable opportunity to appeal the Make interpretations where needed, as to the exact location of the boundaries of the between a mapped boundary and actual field conditions). The person contesting the

15-4.4 VARIANCE PROCEDURE

15-4.4(A) APPEAL BOARD

- ordinance decide appeals and requests for variances The Planning Board, as established by Mayor and Council, shall hear and from the requirements of this
- an error in any requirement, decision, or determination made by the Borough Engineer in the enforcement or administration of this ordinance The Planning Board shall hear and decide appeals when it is alleged there is
- appeal such decision to the appropriate court, as provided by lawin statute [3] Those aggrieved by the decision of the Planning Board, or any taxpayer, may
- this ordinance, and: technical evaluations, all relevant factors, standards specified in other sections of [4] In passing upon such applications, the (appeal board), shall consider all
- (a) the danger that materials may be swept onto other lands to the injury of

- (\underline{b}) the danger to life and property due to flooding or erosion damage:
- <u>(C</u> and the effect of such damage on the individual owner; the susceptibility of the proposed facility and its contents to flood damage
- $(\underline{\mathtt{d}})$ the importance of the services provided by the proposed facility to Keyportthe community;
- (D) the necessity to the facility of a waterfront location, where applicable;
- subject to flooding or erosion damage; availability of alternative locations for the proposed use which are 헍
- development the compatibility of the proposed use with existing and anticipated
- floodplain management program of that area; the relationship of the proposed use to the comprehensive plan and
- emergency vehicles the safety of access to the property in times of flood for ordinary and
- expected at the site; and, transport of the flood waters and the effects of wave action, if applicable, the expected heights, velocity, duration, rate of rise, and sediment
- conditions, including maintenance and repair of public utilities and facilities (<u>k</u>) the costs of providing governmental services during and after flood such as sewer, gas, electrical, and water systems, and streets and bridges
- [5] Upon consideration of the factors of Section 15-4.4(A)[4] and the purposes this ordinance, the Planning Board may attach such conditions to the granting variances as it deems necessary to further the purposes of this ordinance. to the granting of
- Insurance Administration upon request. including technical information, and report any variances to the Federal The Construction Official shall maintain the records of all appeal actions

15-4.4(B) CONDITIONS FOR VARIANCES

- required for issuing the variance increases As the lot size increases beyond the one-half acre, the technical justification level, providing items (a-k) in Section 15-4.4(A)[4] have been fully considered and surrounded by lots with existing structures constructed below the base flood improvements to be erected on a lot of one-half acre or less in size contiguous to [1] Generally, variances may be issued for new construction and substantial
- upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary to preserve the historic character and design of the [2] Variances may be issued for the repair or rehabilitation of historic structures
- in flood levels during the base flood discharge would result. [3] Variances shall not be issued within any designated floodway if any increase
- minimum necessary, considering the flood hazard, to afford relief. [4] Variances shall only be issued upon a determination that the variance is the
- [5] Variances shall only be issued upon:
- (a) A showing of good and sufficient cause;

- exceptional hardship to the applicant; and, (b) A determination that failure to grant the variance would result in
- flood heights, additional threats to public safety, extraordinary public expense create nuisances, cause fraud on or victimization of the public as identified in Section 15-4.4(A)[4], or conflict with existing local laws or ordinances (c) A determination that the granting of a variance will not result in increased
- with the increased risk resulting from the reduced lowest floor elevation the structure will be permitted to be built with a lowest floor elevation below the base flood elevation and that the cost of flood insurance will be commensurate [6] Any applicant to whom a variance is granted shall be given written notice that

SECTION 5.0

15-5 PROVISIONS FOR FLOOD HAZARD REDUCTION

15-5.1 GENERAL STANDARDS

whichever is more restrictive, is are-required: all any Areas of Special Flood Hazards, compliance with the applicable requirements the Uniform Construction Code (N.J.A.C. 5:23) and the following standards,

15-5.1(A) ANCHORING

- movement of the structure [1] All new construction to be placed or substantially improved and substantial improvements shall be anchored to prevent flotation, collapse, or lateral
- anchored to resist flotation, collapse or lateral movement. Methods of anchoring anchoring requirements for resisting wind forces. ground anchors. may include, but are not to be limited to, use of over-the-top or frame ties to [2] All manufactured homes to be placed or substantially improved shall be This requirement is in addition to applicable state and local

15-5.1(B) **CONSTRUCTION MATERIALS AND METHODS**

- materials and utility equipment resistant to flood damage [1] All new construction and substantial improvements shall be constructed with
- [2] All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.

15-5.1(C) UTILITIES

- or eliminate infiltration of flood waters into the system; [1] All new and replacement water supply systems shall be designed to minimize
- systems into flood waters: or eliminate infiltration of flood waters into the systems and discharge from the [2] New and replacement sanitary sewage systems shall be designed to minimize
- [3] On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding; and
- accumulating within the components during conditions of flooding ventilation, plumbing and air-conditioning equipment and other service facilities shall be designed and/or located so as to prevent water from entering or [4] For all new construction and substantial improvements the electrical, heating

15-5.1(D) SUBDIVISION PROPOSALS

- [1] All subdivision proposals <u>and other proposed new development</u> shall be consistent with the need to minimize flood damage;
- [2] All subdivision proposals <u>and other proposed new development</u> 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 and other proposed new development shall have adequate drainage provided to reduce exposure to flood damage; and
- acres (whichever is less). other proposed new development which contain at least fifty (50) lots or five (5) Base flood elevation data shall be provided for subdivision proposals and

15-5.1(E) ENCLOSURE OPENINGS

meet or exceed the following minimum criteria: a minimum of two (2) openings having a total net area of not less than one (1) square inch for every square foot of enclosed area subject to flooding shall be provided. The bottom of all openings shall be no higher than one (1) foot above grade. Openings may be equipped with screens, louvers, or other covering or devices provided that they permit the automatic entry and exit of floodwaters. must either be certified by a registered professional engineer or architect or must allowing for the entry and exit of floodwaters. Designs for meeting this requirement be designed to automatically equalize hydrostatic flood forces on exterior walls by or storage in an area other than a basement and which are subject to flooding shall below the lowest floor that are usable solely for parking of vehicles, building access All new construction and substantial improvements having fully enclosed areas

15-5.2 SPECIFIC STANDARDS

In allany Areas of Special Flood Hazards where base flood elevation data have been provided as set forth in Section 15-3.2 ("Basis for Establishing the Areas of Special Flood Hazard") or in Section 15-4.3(B) ("Use of Other Base Flood and Floodway Data"), following standards are required:

15-5.2(A) RESIDENTIAL CONSTRUCTION

- shall have the lowest floor, including basement together with the attendant utilities and sanitary facilities, elevated at or above the base flood elevation, plus [1] New construction and substantial improvement of any residential structure
- structures structures on slopes to guide floodwaters around and away from proposed no depth number is specified). as one foot above the depth number specified in feet (at least twothree (3) feet if including basement, elevated above the highest adjacent grade at least as high substantial improvement of any residential structure shall have the lowest floor [2] $\underline{\mathbb{W}}$ ithin any AO zone on the municipality's FIRM,-that all new construction and And, require adequate drainage paths around

15-5.2(B) NONRESIDENTIAL CONSTRUCTION

improvement of any commercial, industrial or other nonresidential structure shall In an Area of Special Flood Hazard, all new construction and substantial EITHER:

- Ве elevated to or above the base flood elevation plus one (1) foot; and
- require adequate drainage paths around structures on slopes to guide floodwaters around and away from proposed structures; \underline{OR} specified in feet (at least twothree (3) feet if no depth number is specified). And, highest adjacent grade at least as high as <u>one foot above</u> the depth number structure shall have the lowest floor, including basement, elevated above the and substantial improvement of any commercial, industrial or other nonresidential If within any AO zone on the municipality's DFIRM, that all new construction
- water; structure is watertight with walls substantially impermeable to the passage of [2A] Be floodproofed so that below the base flood level plus one (1) foot, the
- hydrodynamic loads and effects of buoyancy; and, 2B] Have structural components capable of resisting hydrostatic and
- certification shall be provided to the official as set forth in Section 15-4.3(C)[2](b). of practice for meeting the applicable provisions of this subsection. design and methods of construction are in accordance with accepted standards Be certified by a registered professional engineer or architect that the Such

15-5.2(C) MANUFACTURED HOMES

- 5.1(A)[2] [1] Manufactured homes shall be anchored in accordance with Section 15.
- of Special Flood Hazard shall be elevated on a permanent foundation such that the top of the lowest floor is at or above the base flood elevation plus one (1) [2] All manufactured homes to be placed or substantially improved within an $\underline{\mathbb{A}}$ rea

15-5.3 FLOODWAYS

potential, the following provisions apply: due to the velocity of flood waters which carry debris, potential projectiles, and erosion areas designated as floodways. Since the floodway is an extremely hazardous area Located within any Area of Special Flood Hazard established in Section 15-3.2 are

- occurrence of the base flood discharge. <u>that such encroachment shall not result in any increase in flood levels during the</u> <u>improvements, and other development unless a technical evaluation demonstrates</u> [1] Prohibit encroachments, including fill, new construction, substantial
- [2] If Section 15-5.3[1] is satisfied, all new construction and substantial improvements must comply with Section 15-5 ("Provisions for Flood Hazard Reduction").
- than two-tenths (0.2) of a foot at any point development, shall not increase the water surface elevation of the base flood more provided and no floodway has been designated, the cumulative effect of any [3] In any Area of Special Flood Hazard in which base flood elevation data has been proposed development, when combined with all other existing and anticipated

15-5.4 COASTAL HIGH HAZARD AREA

therefore, the following provisions shall apply: associated with high velocity waters from tidal surges and hurricane wave wash; hazard established in Section 15-3.2. These areas have special flood hazards Coastal high hazard areas (V or VE Zones) are located within the areas of special flood

15-5.4(A) LOCATION OF STRUCTURES

- high tide. [1] All buildings or structures shall be located landward of the reach of the mean
- existing manufactured home park or manufactured home subdivision [2] The placement of manufactured homes shall be prohibited, except in

15-5.4(B) CONSTRUCTION METHODS

[1] ELEVATION

columns so that: All new construction and substantial improvements shall be elevated on piling or

- whichever is more restrictive, and, elevation or as required by the Uniform Construction Code (N.J.A.C. 5:23), (a) The bottom of the lowest horizontal structural member of the lowest floor (excluding the piling or columns) is elevated to or above the base flood
- (b) with all space below the lowest floor's supporting member open so as not to impede the flow of water, except for breakaway walls as provided or in Section 15-5.4(B)[4].

[2] STRUCTURAL SUPPORT

- anchored on piling or columns. (a) All new construction and substantial improvements shall be securely
- of being equaled or exceeded in any given year (100-year mean recurrence wind and water loading values each of which shall have a one percent chance anchored to resist flotation, collapse or lateral movement due to the effects of (b) The pile or column foundation and structure attached thereto shall be
- (c) There shall be no fill used for structural support

[3] CERTIFICATION

accepted standards of practice for compliance with the provisions of Section 15-5.4(B)[1] and 15-5.4(B)[2](a)-(b). that the design and methods of construction to be used are in accordance with structural design specifications and plans for the construction and shall certify A registered professional engineer or architect shall develop or review the

[4] SPACE BELOW THE LOWEST FLOOR

- screening are used as provided for in this section. lowest floor unless breakaway walls, open wood lattice-work or insect after the enactment of this ordinance shall not enclose the space below the (a) Any alteration, repair, reconstruction or improvement to a structure started
- supporting foundation system. Breakaway walls shall be designed for a safe square foot. Use of breakaway walls which exceed a design safe loading of 20 pounds per square foot (either by design or when so required by local or loading resistance of not less than 10 and no more than 20 pounds per or other structural damage to the elevated portion of the building or collapse under wind and water loads without causing collapse, displacement allowed below the base flood elevation provided that they are intended to (b) Breakaway walls, open wood lattice-work or insect screening shall be

architect certifies that the designs proposed meet the following conditions. State codes) may be permitted only if a registered professional engineer or

- which would occur during the base flood and, breakaway wall collapse shall result from a water load less than that
- used shall be those required by applicable State or local building building components (structural and non-structural). Water loading values used shall be those associated with the base flood. Wind loading values due to the effects of wind and water load acting simultaneously on all shall not be subject to collapse, displacement or other structural damage standards (ii) the elevated portion of the building and supporting foundation system
- (<u>c</u>) If breakaway walls are utilized, such enclosed space shall be used solely for parking of vehicles, building access, or storage and not for human
- Construction Official for approval. Prior to construction, plans for any breakaway wall must be submitted to

15-5.4(C) SAND DUNES

community's DFIRM which would increase potential flood damage Prohibit man-made alteration of sand dunes within Zones VE and V on Keyportthe

SECTION II. Inconsistent Ordinances

are hereby repealed. All Ordinances or parts thereof inconsistent with the provisions of this Ordinance

SECTION III. Severability.

Each section, subsection, sentence, clause and phrase of this Ordinance is declared to be an independent section, subsection, sentence, clause and phrase, and the finding or holding of any such portion of this Ordinance to be unconstitutional, void, or ineffective for any cause, or reason shall not affect any cause. Ordinance,

SECTION IV. Effective date

any publication as may be required by law. This Ordinance shall be in full force and effect from and after its adoption and

Public Hearing: May 21, 2013 Adopted: May 21, 2013 Introduced: May 7, 2013

Borough of Keyport Borough Clerk Valerie T. Heilweil, RMC

* L'ADDINADO

Borough of Keyport 30 . Aumack, II, Mayor

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