

CITY OF BALTIMORE
ORDINANCE **21.020**
Council Bill 21-0040

Introduced by: The Council President
At the request of: The Administration (Department of Planning)
Introduced and read first time: February 22, 2021
Assigned to: Economic and Community Development Committee

Committee Report: Favorable with amendments
Council action: Adopted
Read second time: May 17, 2021

AN ORDINANCE CONCERNING

Floodplain Management Code – Revision

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FOR the purpose of modifying the City laws governing floodplain management to meet or exceed requirements for eligibility in the National Flood Insurance Program and other requirements of Federal and State law; incorporating certain flood-resistant design and construction standards adopted by the American Society of Civil Engineers; defining and redefining certain terms; repealing redundant, obsolete, or otherwise superfluous provisions; correcting and conforming certain obsolete nomenclature; providing for a special effective date; and generally relating to the protection, maintenance, and enhancement of the public health, safety, and welfare through floodplain management.

BY repealing and re-ordaining, with amendments

Article 7 - Natural Resources
Division I - Floodplain Management
Baltimore City Code
(Edition 2000)

BY repealing and re-ordaining, with amendments

Article 32 - Zoning
Sections 4-203, 7-301, ~~7-304(b)~~
Baltimore City Code
(Edition 2000)

BY repealing and re-ordaining, with amendments

Article - Building, Fire, and Related Codes
Section(s) 2-103 (BC §§ 107.2.1, 110.3.3, 1603.1.7) and 10-102 (RC § 109.1.3 and Table 301.2(1))
Baltimore City Revised Code
(2020 Edition)

EXPLANATION: CAPITALS indicate matter added to existing law.
[Brackets] indicate matter deleted from existing law.
Underlining indicates matter added to the bill by amendment.
~~Strike-out~~ indicates matter stricken from the bill by amendment or deleted from existing law by amendment.

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1 **SECTION 1. BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF BALTIMORE,** That
2 the Maryland General Assembly, in Md. Code Ann., Land Use Article, Title 4, has established as
3 policy of the State that the orderly development and the use of land and structures requires
4 comprehensive regulation through the implementation of planning and zoning control, and that
5 planning and zoning controls must be implemented by local government, in order to, among
6 other purposes, secure the public safety, promote health and general welfare, and promote the
7 conservation of natural resources. Therefore, the Mayor and City Council of Baltimore does
8 hereby adopt the following floodplain management regulations.

9 **SECTION 2. AND BE IT FURTHER ORDAINED,** That the Laws of Baltimore City read as
10 follows:

11 **Baltimore City Code**

12 **Article 7. Natural Resources**

13 **Division I. Floodplain Management**

14 **§ 1-1. Definitions – In general.**

15 In this Division I, the following terms have the meanings indicated.

16 **§ 1-2. Definitions – “Accessory structure” to “Floodplain District”.**

17 (a) *Accessory structure.*

18 “Accessory structure” means a detached structure:

- 19 (1) that is usable solely for parking vehicles or limited storage;
- 20 (2) that is on the same parcel of property as the principal structure;
- 21 (3) that is no larger than 300 square feet and 1 story; and
- 22 (4) the use of which is incidental to the use of the principal structure.

23 (b) *Actual start of construction.*

24 See “new construction”.

25 (c) *ASCE 24.*

26 “ASCE 24” means THE MOST CURRENT EDITION OF ASCE/SEI 24, “Flood Resistant
27 Design and Construction” (American Society of Civil Engineers).

28 (d) *Base flood.*

29 “Base flood” means a flood that has a 1% chance of being equaled or exceeded in any
30 given year.

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1 (e) *Base-flood elevation.*

2 (1) *In general.*

3 ["Base-flood elevation" means the water surface elevation of the base flood in
4 relation to the datum specified on the Flood Insurance Rate Map.] "BASE-FLOOD
5 ELEVATION" MEANS THE ELEVATION OF SURFACE WATER RESULTING FROM A FLOOD
6 THAT HAS A 1% CHANCE OF EQUALING OR EXCEEDING THAT LEVEL IN ANY GIVEN
7 YEAR.

8 (2) *Areas of shallow flooding.*

9 In areas of shallow flooding, "base-flood elevation" means the highest natural
10 elevation of the ground surface, prior to construction, that is adjacent to the proposed
11 foundation of a structure; plus:

12 (i) the depth number specified in feet on the Flood Insurance Rate Map; or

13 (ii) if the depth number is not specified, 4 feet.

14 (f) *Basement.*

15 "Basement" means any area of THE BUILDING, INCLUDING ANY SUNKEN ROOM OR SUNKEN
16 PORTION OF A ROOM, HAVING ITS FLOOR BELOW GROUND LEVEL ON ALL SIDES. [a structure
17 having its floor subgrade (below ground level) on all sides.]

18 (G) *COASTAL A ZONE.*

19 "COASTAL A ZONE" MEANS AN AREA WITHIN A SPECIAL FLOOD HAZARD AREA,
20 LANDWARD OF A COASTAL HIGH HAZARD AREA (V ZONE) OR LANDWARD OF A SHORELINE
21 WITHOUT A MAPPED COASTAL HIGH HAZARD AREA, IN WHICH THE PRINCIPAL SOURCE(S) OF
22 FLOODING ARE ASTRONOMICAL TIDES AND STORM SURGES, AND IN WHICH, DURING BASE
23 FLOOD CONDITIONS, THE POTENTIAL EXISTS FOR BREAKING WAVES WITH HEIGHTS
24 GREATER THAN OR EQUAL TO 1.5 FEET. THE INLAND LIMIT OF THE COASTAL A ZONE MAY
25 BE DELINEATED ON FIRMS AS THE LIMIT OF MODERATE WAVE ACTION (LIWMA).

26 (H) [(g)] *Design flood.*

27 "Design flood", AS USED IN ASCE 24, MEANS [is] the greater of the following two flood
28 events:

29 (1) AREA WITHIN A FLOODPLAIN SUBJECT TO A 1% OR GREATER CHANCE OF FLOODING
30 IN ANY YEAR [the base flood affecting areas] AS IDENTIFIED ON THE FLOOD INSURANCE
31 RATE MAP AS A SPECIAL FLOOD HAZARD [Areas] AREA; [and] OR

32 (2) AREA DESIGNATED AS A FLOOD HAZARD AREA ON A COMMUNITY'S FLOOD HAZARD
33 MAP OR OTHERWISE LEGALLY DESIGNATED [the flood corresponding to the Flood
34 Resilience Area].

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1 (I) [(h)] *Design-flood elevation.*

2 “Design-flood elevation”, [as used in this Division I and] as used in ASCE 24 for
3 application to the City, means the elevation of the design flood, including wave height,
4 relative to the datum specified on the [FIRM] FLOOD HAZARD MAP.

5 (J) [(i)] *Development.*

6 (1) *In general.*

7 “Development” means:

8 (i) any man-made change to improved or unimproved real estate; or

9 (ii) the subdivision of land.

10 (2) *Inclusions.*

11 “Development” includes any construction, reconstruction, modification, extension, or
12 expansion of [buildings or other] structures, placement of fill or concrete,
13 construction of new or replacement infrastructure, temporary development, placement
14 of manufactured homes or buildings, dumping, mining, dredging, grading, paving,
15 drilling operations, storage of EQUIPMENT, VEHICLES, materials OR PRODUCTS, land
16 excavation, land clearing, land improvement, land fill operation, or any combination
17 of these.

18 (K) [(j)] *Dry floodproofing.*

19 See “floodproofing”.

20 (L) [(k)] *Elevation [certificate] CERTIFICATE.*

21 (1) *In general.*

22 “Elevation [certificate] CERTIFICATE” means a certification, in the form and
23 containing the information required by the Federal Emergency Management Agency,
24 of the elevations of a structure and its improvements.

25 (2) *By whom and how prepared.*

26 An [elevation certificate] ELEVATION CERTIFICATE may only be prepared and
27 certified by a licensed land surveyor OR PROFESSIONAL ENGINEER, using Mean Sea
28 Level as established by the North American Vertical Datum of 1988 (“NAVD”).

29 (M) [(l)] *Fair market value.*

30 (1) *In general.*

31 “Fair market value” means the price at which THE IMPROVEMENT PORTION OF THE
32 property will change hands between a willing buyer and a willing seller, neither of

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1 which is under compulsion to buy or sell and both of which have reasonable
2 knowledge of relevant facts.

3 (2) *By whom determined.*

4 For purpose of this Division I, the fair market value of a structure is determined by:

5 (i) a licensed real estate appraiser; or

6 (ii) the most recent, fully phased-in assessed value of the structure, as determined
7 by the Maryland Department of Assessments and Taxation.

8 (N) [(m)] *FEMA.*

9 "FEMA" means the Federal Emergency Management Agency.

10 (O) [(n)] *FIRM.*

11 *See* "Flood Insurance Rate Map".

12 (P) [(o)] *FIS.*

13 *See* "Flood Insurance Study".

14 (Q) [(p)] *Flood.*

15 "Flood" means a GENERAL AND temporary CONDITION OF PARTIAL OR COMPLETE
16 inundation of normally dry land areas from:

17 (1) the overflow of inland or tidal waters; or

18 (2) the unusual and rapid accumulation or runoff of surface waters from any source.

19 *See also* "base flood" and "design flood".

20 (R) [(q)] *Flood elevation.*

21 *See* "base-flood elevation", "design-flood elevation", and "flood-protection elevation".

22 (S) [(r)] *Flood hazard area.*

23 *See* "Regulated Flood Hazard Area" and "Special Flood Hazard Area".

24 (T) [(s)] *Flood Insurance Rate Map[;] (FIRM).*

25 "Flood Insurance Rate Map" OR "FIRM" means AN OFFICIAL MAP ON WHICH THE
26 FEDERAL EMERGENCY MANAGEMENT AGENCY HAS DELINEATED SPECIAL FLOOD HAZARD
27 AREAS TO INDICATE THE MAGNITUDE AND NATURE OF FLOOD HAZARDS, TO DESIGNATE
28 APPLICABLE FLOOD ZONES, AND TO DELINEATE FLOODWAYS, IF APPLICABLE. FIRMS THAT
29 HAVE BEEN PREPARED IN DIGITAL FORMAT OR CONVERTED TO DIGITAL FORMAT ARE

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1 REFERRED TO AS DIGITAL FIRMS (DFIRM) [the official map that depicts the Regulated
2 Flood Hazard Areas subject to this Division I].

3 (U) [(t)] *Flood Insurance Study[;] (FIS).*

4 “Flood Insurance Study” OR “FIS” means the official report in which the Federal
5 Emergency Management Agency has provided flood profiles, floodway information, and
6 water surface elevations.

7 (V) [(u)] *Flood-protection elevation.*

8 “Flood-protection elevation” IS: [means the minimum elevation requirements of ASCE
9 24, plus freeboard.]

10 (1) THE BASE FLOOD ELEVATION PLUS 2 FEET OF FREEBOARD IN THE NON-TIDAL
11 FLOODPLAIN; AND

12 (2) THE MODELED ELEVATION OF THE 0.2% CHANCE OF FLOOD PLUS 2 FEET OF
13 FREEBOARD IN THE TIDAL FLOODPLAIN AS LISTED ON THE FLOOD INSURANCE
14 STUDY (TABLE 4).

15 (W) [(v)] *Floodplain.*

16 “Floodplain” means ANY LAND AREA AND WATERCOURSE, SUSCEPTIBLE TO PARTIAL OR
17 COMPLETE INUNDATION BY WATER FROM ANY SOURCE, INCLUDING:

18 (1) a relatively flat or low land area adjoining a river, stream, or watercourse that is
19 subject to partial or complete inundation;

20 (2) an area subject to the unusual and rapid accumulation or runoff of surface waters
21 from any source; or

22 (3) an area subject to tidal surge or extreme tides.

23 (X) [(w)] *Floodplain District.*

24 “Floodplain District” means the District, and its constituent subdistricts, established
25 under Subtitle 2 {“Floodplain District”} of this article.

26 **§ 1-3. Definitions – “Floodproofing” to “Wet floodproofing”.**

27 (a) *Floodproofing.*

28 (1) *In general.*

29 “Floodproofing” means any [combination of structural or non-structural adjustments,
30 changes, or actions that reduce or eliminate flood damage to a structure, its contents,
31 and its attendant utilities and equipment] COMBINATION OF STRUCTURAL AND
32 NONSTRUCTURAL ADDITIONS, CHANGES, OR ADJUSTMENTS TO BUILDINGS OR
33 STRUCTURES THAT REDUCE OR ELIMINATE FLOOD DAMAGE TO REAL ESTATE OR

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1 IMPROVED REAL PROPERTY, WATER AND SANITARY FACILITIES, STRUCTURES AND
2 THEIR CONTENTS, SUCH THAT THE BUILDINGS OR STRUCTURES ARE WATERTIGHT WITH
3 WALLS SUBSTANTIALLY IMPERMEABLE TO THE PASSAGE OF WATER AND WITH
4 STRUCTURAL COMPONENTS HAVING THE CAPABILITY OF RESISTING HYDROSTATIC AND
5 HYDRODYNAMIC LOADS AND EFFECTS OF BUOYANCY.

6 (2) *Methods of floodproofing.*

7 For purposes of this Division I, the two methods of floodproofing are as follows:

8 (i) "Dry floodproofing"[, which is the floodproofing method that, as specified in
9 ASCE 24, is used to render a structure's envelope substantially impermeable
10 to the entrance of floodwaters] IS A COMBINATION OF MEASURES THAT
11 RESULTS IN A STRUCTURE, INCLUDING THE ATTENDANT UTILITIES AND
12 EQUIPMENT, BEING WATERTIGHT WITH ALL ELEMENTS SUBSTANTIALLY
13 IMPERMEABLE AND WITH STRUCTURAL COMPONENTS HAVING THE CAPACITY
14 TO RESIST FLOOD LOADS, AS SPECIFIED IN ASCE 24; and

15 (ii) "Wet floodproofing" is the floodproofing method that, as specified in the
16 following FEMA Technical Bulletins AND ON ASCE 24, relies on the use of
17 flood damage-resistant materials and construction techniques IN AREAS OF A
18 STRUCTURE THAT ARE BELOW THE FLOOD PROTECTION ELEVATION REQUIRED
19 BY THIS STANDARD BY INTENTIONALLY ALLOWING THOSE AREAS TO FLOOD [to
20 minimize flood damage to areas below the design-flood elevation of a
21 structure]:

22 (A) FEMA Technical Bulletin 2 {"Flood Damage-Resistant Material
23 Requirements for Buildings Located in Special Flood Hazard Areas in
24 accordance with the National Flood Insurance Program"}; and

25 (B) FEMA Technical Bulletin 7 {"Wet Floodproofing Requirements for
26 Structures Located in Special Flood Hazard Areas in accordance with
27 the National Flood Insurance Program"}.

28 (b) *Floodproofing certificate.*

29 (1) *In general.*

30 "Floodproofing certificate" means [a certification, in the form and containing the
31 information required by the Federal Emergency Management Agency, that a structure
32 has been designed and constructed to be dry floodproofed to the flood-protection
33 elevation] THE FEMA FORM 086-0-34 THAT IS TO BE COMPLETED, SIGNED AND
34 SEALED BY A LICENSED PROFESSIONAL ENGINEER OR LICENSED ARCHITECT TO CERTIFY
35 THAT THE DESIGN OF FLOODPROOFING AND PROPOSED METHODS OF CONSTRUCTION
36 ARE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTION 3-14 OF
37 THESE REGULATIONS.

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1 (2) *By whom prepared.*

2 A floodproofing certificate may only be prepared and certified by a licensed
3 professional engineer or professional architect.

4 (c) *Flood Resilience Area.*

5 "Flood Resilience Area" means the area described in § 2-2(g) {"Subdistricts: Flood
6 Resilience Area"} of this article, AND IT:

7 (1) APPEARS ON THE FLOOD INSURANCE RATE MAP AS SHADED ZONE X; AND

8 (2) INCLUDES ALL AREAS SUBJECT TO THE 0.2% ANNUAL CHANCE FLOOD.

9 (d) *Floodway.*

10 (1) *In general.*

11 "Floodway" means the channel of a river or other watercourse and the adjacent land
12 areas that [are] MUST BE reserved to pass [a] THE base-flood discharge so that the
13 cumulative increase in the water surface elevation of the base-flood discharge is no
14 more than a designated height. WHEN SHOWN ON A FIRM, THE FLOODWAY IS
15 REFERRED TO AS THE "DESIGNATED FLOODWAY."

16 [(2) *How shown on FIRM.*]

17 [When shown on a FIRM, the Floodway is referred to as the "designated floodway".]

18 (2) [(3)] *Considered high-velocity-flow area.*

19 An area shown on a FIRM as a "designated floodway" is considered an area with
20 "high velocity flow", as that term is used in ASCE 24, § 1.2 {"Definitions"}.

21 (e) *Freeboard.*

22 "Freeboard" [means a 2-foot increment of elevation added to the minimum elevation
23 specifications of ASCE 24.] IS A FACTOR OF SAFETY EXPRESSED IN FEET ABOVE THE:

24 (1) HEIGHT OF THE 0.2% ANNUAL CHANCE OF FLOOD IN THE TIDAL FLOODPLAIN; OR

25 (2) BASE FLOOD ELEVATION IN THE NON-TIDAL FLOODPLAIN.

26 THE FREEBOARD IN BALTIMORE CITY IS 2 FEET.

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1 (f) *Functionally dependent use.*

2 (1) *In general.*

3 "Functionally dependent use" means, except as otherwise provided in this subsection,
4 any of the following uses that cannot perform their intended purposes unless located
5 or carried out in close proximity to water:

6 (i) docking facilities that are necessary for the loading and unloading of cargo or
7 passengers; and

8 (ii) ship building and ship repair facilities.

9 (2) *Exclusions.*

10 "Functionally dependent use" does not include long-term storage or related
11 manufacturing facilities.

12 (g) *Historic structure.*

13 "Historic structure" means a structure that is:

14 (1) individually listed in the National Register of Historic Places or certified or
15 preliminarily determined by the Secretary of the Interior as meeting the
16 requirements for individual listing in the Register;

17 (2) individually listed in the Maryland Inventory of Historic Properties;

18 (3) individually listed in the Baltimore City Landmark List; or

19 (4) certified or preliminarily determined by the Secretary of the Interior as
20 contributing to the historic significance of an historic district registered with the
21 Secretary.

22 (H) *LIMIT OF MODERATE WAVE ACTION (LIMWA).*

23 "LIMIT OF MODERATE WAVE ACTION (LIMWA)" MEANS THE INLAND LIMIT OF THE AREA
24 AFFECTED BY WAVES GREATER THAN 1.5 FEET DURING THE BASE FLOOD. BASE FLOOD
25 CONDITIONS BETWEEN THE VE ZONE AND THE LIMWA WILL BE SIMILAR TO, BUT LESS
26 SEVERE THAN THOSE IN THE VE ZONE.

27 (I) *LIMITED STORAGE.*

28 "LIMITED STORAGE" MEANS STORAGE THAT IS INCIDENTAL TO THE PRIMARY USE OF THE
29 PRINCIPAL STRUCTURE AND CONSISTS OF LOW-DAMAGE ITEMS THAT CANNOT BE
30 CONVENIENTLY STORED ABOVE THE FLOOD PROTECTION ELEVATION.

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1 (J) [(h)] *Lowest floor.*

2 (1) *In general.*

3 “Lowest floor” means, except as otherwise provided in this subsection:[, the lowest
4 floor of the lowest enclosed area.]

5 (I) THE LOWEST FLOOR OF THE LOWEST ENCLOSED AREA (INCLUDING BASEMENT)
6 OF A BUILDING OR STRUCTURE; THE FLOOR OF AN ENCLOSURE BELOW THE
7 LOWEST FLOOR IS NOT THE LOWEST FLOOR PROVIDED THE ENCLOSURE IS
8 CONSTRUCTED IN ACCORDANCE WITH THESE REGULATIONS; AND

9 (II) THE LOWEST FLOOR OF A MANUFACTURED HOME IS THE BOTTOM OF THE
10 LOWEST HORIZONTAL SUPPORTING MEMBER (LONGITUDINAL CHASSIS FRAME
11 BEAM).

12 (2) *Exclusions.*

13 “Lowest floor” does not include any unfinished or flood-resistant enclosure that is
14 usable solely for parking vehicles, building access, or limited storage, as long as the
15 enclosure is not built so as to render the structure in violation of the applicable
16 non-elevation design requirements of the Federal Emergency Management Agency,
17 National Flood Insurance Program.

18 (K) [(i)] *Manufactured home or building.*

19 (1) *In general.*

20 “Manufactured home or building” means a structure, transportable in 1 or more
21 sections, that is built on a permanent chassis and is designed for use with or without a
22 permanent foundation when connected to the required utilities.

23 (2) *Inclusions.*

24 For floodplain management purposes, “manufactured home or building” includes any
25 park trailer, travel trailer, and other similar vehicle placed on a site for more than 180
26 consecutive days.

27 (L) *MIXED-USE STRUCTURE.*

28 ANY STRUCTURE THAT IS USED OR INTENDED FOR USE FOR A MIXTURE OF
29 NONRESIDENTIAL AND RESIDENTIAL USES IN THE SAME STRUCTURE.

30 (M) [(j)] *New construction.*

31 STRUCTURES INCLUDE ADDITIONS AND IMPROVEMENTS AND THE PLACEMENT OF
32 MANUFACTURED HOMES, FOR WHICH THE START OF CONSTRUCTION COMMENCED ON OR
33 AFTER MARCH 15, 1978, THE INITIAL EFFECTIVE DATE OF THE CITY OF BALTIMORE FLOOD
34 INSURANCE RATE MAP, INCLUDING ANY SUBSEQUENT IMPROVEMENTS, ALTERATIONS,
35 MODIFICATIONS, AND ADDITIONS TO SUCH STRUCTURES.

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1 (1) *Exclusions.*

2 “New construction” does not include any structure for which the building permit was
3 issued before March 15, 1978, and the actual start of construction was within 180
4 days of the permit date.

5 (2) *“Actual start of construction”.*

6 As used in paragraph (1) of this subsection, “actual start of construction” means
7 either:

8 (i) the first placement of permanent construction of a structure on a site, such as
9 the pouring of slab or footings, the installation of piles, the construction of
10 columns, or any work beyond the stage of excavation; or

11 (ii) the placement of a manufactured home on a foundation.

12 (3) *“Permanent construction”.*

13 As used in paragraph (2) of this subsection, “permanent construction” does not
14 include:

15 (i) land preparation, such as clearing, grading, and filling;

16 (ii) the installation of streets and walkways;

17 (iii) excavation for basements, footings, piers, or foundations;

18 (iv) the erection of temporary forms; or

19 (v) the installation on the property of accessory structures.

20 (N) [(k)] *Nonconforming structure.*

21 “Nonconforming structure” means any lawfully existing structure that does not comply
22 with the applicable floodplain regulations of the subdistrict in which it is located.

23 (O) [(l)] *Nonresidential structure.*

24 “Nonresidential structure” includes the nonresidential portion of a mixed-use structure.

25 (P) [(m)] *Planning Department.*

26 “Planning Department” means the Baltimore City Department of Planning.

27 (Q) [(n)] *Planning Director.*

28 “Planning Director” means the Director of the Baltimore City Department of Planning or
29 the Director’s Designee.

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1 (R) [(o)] *Regulated Flood Hazard Area.*

2 “Regulated Flood Hazard Area” means:

3 (1) any Flood Resilience Area; and

4 (2) any Special Flood Hazard Area.

5 (S) [(p)] *Residential structure.*

6 “Residential structure” includes the residential portion of a mixed-use structure.

7 (T) [(q)] *Special Flood Hazard Area.*

8 (1) *In general.*

9 “Special Flood Hazard Area” means the land in a floodplain subject to a 1% or greater
10 chance of flooding in any given year.

11 (2) *By whom and how designated.*

12 Special Flood Hazard Areas are designated by the Federal Emergency Management
13 Agency in the Flood Insurance Study and on the Flood Insurance Rate Map as Zones
14 A, AE, AH, AO, A1-30 AND A99, AND ZONES [V] V1-30, and VE.

15 (U) [(r)] *Structure.*

16 (1) *In general.*

17 “Structure” means any building or other structure, SPECIFICALLY, A WALLED AND
18 ROOFED BUILDING.

19 (2) *Inclusions.*

20 “Structure” includes a gas or liquid storage tank THAT IS PRINCIPALLY ABOVE
21 GROUND, AS WELL AS A MANUFACTURED HOME.

22 (V) [(s)] *Subdivision.*

23 (1) *In general.*

24 “Subdivision” means the division or redivision by any means of a lot, tract, or parcel
25 of land into 2 or more lots, tracts, parcels, or other divisions of land.

26 (2) *Inclusions.*

27 “Subdivision” includes a change in existing lot lines for the purpose, whether
28 immediate or future, of lease, transfer of ownership, building, or lot development.

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1 (w) [(t)] *Substantial damage.*

2 (1) *IN GENERAL.*

3 "Substantial damage" means damage of any origin sustained by a structure where the
4 cost of restoring the structure to its before-damaged condition would equal or exceed
5 50% of the market value of the structure before the damage occurred.

6 (2) *CALCULATION OF COSTS.*

7 (I) THE CALCULATION OF THESE COSTS MUST COMPLY WITH FEMA P-758
8 {"SUBSTANTIAL IMPROVEMENT / SUBSTANTIAL DAMAGE DESK REFERENCE"}.

9 (II) *SEE ALSO* § 1-2(X) {"DEFINITIONS: SUBSTANTIAL IMPROVEMENT"} OF THIS
10 SUBTITLE.

11 (x) [(u)] *Substantial improvement.*

12 (1) *In general.*

13 (i) "Substantial improvement" means, except as otherwise provided in this
14 subsection, any combination of repairs, reconstruction, rehabilitation, additions, or
15 other improvements to a structure made during the 6-year period immediately
16 preceding a permit application, the aggregate cost of which, together with the cost
17 of the work proposed by the latest permit application, equals or exceeds 50% of
18 the fair market value of the structure before the improvement is started.

19 (ii) The calculation of these costs must comply with FEMA P-758 {"Substantial
20 Improvement / Substantial Damage Desk Reference"}.

21 (iii) For purposes of this definition, "substantial improvement" is considered to occur
22 when the first alteration of any wall, ceiling, floor, or other structural part of the
23 structure commences, whether or not that alteration affects the external
24 dimensions of the structure.

25 (2) *Inclusions.*

26 "Substantial improvement" includes improvements to a structure that has been
27 substantially damaged, regardless of the actual repair work done.

28 (3) *Exclusions.*

29 "Substantial improvement" does not include either:

30 (i) an improvement that is required by a condemnation or violation notice, order,
31 or citation to secure safe living conditions in compliance with State or City
32 health, sanitary, or safety code specifications; or

33 (ii) an alteration of an historic structure[, as long as] IF the alteration will [not]
34 preclude the structure's continued designation as an historic structure AS

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1 APPROVED BY THE EXECUTIVE DIRECTOR OF THE HISTORIC AND
2 ARCHITECTURAL PRESERVATION.

3 (Y) [(v) *Water Management Administration*] *WATER & SCIENCE ADMINISTRATION.*

4 ["Water Management] "WATER & SCIENCE Administration" means the Water
5 [Management] & SCIENCE Administration of the Maryland Department of the
6 Environment.

7 (Z) [(w)] *Wetland.*

8 "Wetland" means any land that is:

9 (1) considered A "private wetland" or A "State wetland" under Title 9 {"Wetlands and
10 Riparian Rights"} of the State Natural Resources Article; or

11 (2) defined as A "wetland" by the U.S. Fish and Wildlife Service Identification and
12 Classification Procedures.

13 (AA) [(x)] *Wet floodproofing.*

14 See "floodproofing".

15 § 1-4. *{Reserved}*

16 § 1-5. **Rules of construction.**

17 (a) *In general.*

18 In interpreting and applying this Division I, the following rules of construction apply.

19 (b) *Captions or headings.*

20 The captions or headings of the various sections and subsections:

21 (1) are for convenience of reference only, intended to summarize the statutory
22 provisions that follow; and

23 (2) are not law and are not to be taken as affecting the meaning or effect of the law.

24 (c) *Conflicting provisions.*

25 (1) *Division sets minimum requirements.*

26 In their interpretation and application, the provisions of this Division I must be taken
27 to be the minimum requirements for the promotion of the public health, safety, and
28 general welfare.

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1 (2) *Most restrictive provision governs.*

2 If any condition imposed by a provision of this Division I is either more or less
3 restrictive than a comparable condition imposed by any other provision of this
4 Division or by any other law, rule, or regulation of any kind, the condition that is the
5 more restrictive governs.

6 (d) *Gender.*

7 Words denoting one gender include and apply to the other genders as well.

8 (e) *Includes; including.*

9 “Includes” or “including” means by way of illustration and not by way of limitation.

10 (f) *Mandatory, prohibitory, and permissive terms.*

11 (1) *Mandatory terms.*

12 “Must” and “shall” are each mandatory terms used to express a requirement or to
13 impose a duty.

14 (2) *Prohibitory terms.*

15 “Must not”, “may not”, and “no ... may” are each mandatory negative terms used to
16 establish a prohibition.

17 (3) *Permissive terms.*

18 “May” is permissive.

19 (g) *Number.*

20 The singular includes the plural and vice versa.

21 (h) *References to other laws.*

22 Whenever a provision of this Division I refers to any part of the City Code or to any other
23 law, the reference applies to any subsequent amendment of the law referred to, unless the
24 referring provision expressly provides otherwise.

25 (i) *Severability.*

26 All provisions of this Division I are severable. If a court determines that a word, phrase,
27 clause, sentence, paragraph, subsection, section, or other provision is invalid or that the
28 application of any part of the provision to any person or circumstances is invalid, the
29 remaining provisions and the application of those provisions to other persons or
30 circumstances are not affected by that decision.

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1 (j) *Time computations.*

2 (1) *Computation of time after an act, event, or default.*

3 (i) In computing any period of time prescribed by this Division I, the day of the act,
4 event, or default after which the designated period of time begins to run is not
5 included.

6 (ii) If the period of time allowed is more than 7 days, intermediate Saturdays,
7 Sundays, and legal holidays are counted.

8 (iii) If the period of time allowed is 7 days or less, intermediate Saturdays, Sundays,
9 and legal holidays are not counted.

10 (iv) The last day of the period so computed is included unless it is a Saturday, Sunday,
11 or legal holiday, in which event the period runs until the end of the next day that is
12 not a Saturday, Sunday, or legal holiday.

13 (2) *Computation of time before a day, act, or event.*

14 (i) In determining the latest day for performing an act that is required by this Division
15 I to be performed a prescribed number of days before a certain day, act, or event,
16 all days preceding that day, including intervening Saturdays, Sundays, and legal
17 holidays, are counted in the number of days so prescribed.

18 (ii) The latest day is included in the determination unless it is a Saturday, Sunday, or
19 legal holiday, in which event the latest day is the first preceding day that is not a
20 Saturday, Sunday, or legal holiday.

21 **§ 1-6. Interpretation.**

22 In their interpretation and application, the provisions of this Division I are to be:

23 (1) considered as minimum requirements;

24 (2) liberally construed in favor of proper flood hazard management and Baltimore City;
25 and

26 (3) considered as neither repealing nor limiting any powers granted by State law.

27 **§§ 1-7 to 1-8. {Reserved}**

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1 § 1-9. Findings, intent, and design.

2 (a) *Findings.*

- 3 (1) Certain areas of Baltimore City are subject to periodic inundation that results in loss
4 of life and property, risks to health and safety, disruption of commerce and
5 governmental services, and extraordinary public expenditures for flood protection and
6 relief.
- 7 (2) Flood losses and associated losses are created by structures inappropriately located,
8 inadequately elevated, or otherwise unprotected and vulnerable to floods or erosion or
9 by development that increases flood or erosion damage to other lands or development.
- 10 (3) The biological values of floodplains, particularly tidal and non-tidal wetlands, can be
11 adversely affected by floodplain development.
- 12 (4) Baltimore City has the responsibility under the Flood Hazard Management Act of
13 1976, Title 5, Subtitle 8 of the State Environment Article, to control floodplain
14 development in order to protect persons and property from danger and destruction and
15 to preserve the biological values and environmental quality of the watersheds or the
16 portions of watersheds under its jurisdiction.
- 17 (5) Baltimore City has the responsibility under the National Flood Insurance Act of 1968
18 and the Flood Disaster Protection Act of 1973 to adopt and enforce floodplain
19 management regulations that, AT A MINIMUM, meet the requirements of 44 Code of
20 Federal Regulations Parts 55-77 et seq., in order to participate in the National Flood
21 Insurance Program and remain eligible for federally subsidized flood insurance,
22 federal disaster relief, and Federal and State financial assistance.
- 23 (6) Baltimore City contains densely developed tidal shorelines that are and will continue
24 to be in high demand. The science behind climate change acknowledges that sea-
25 level rise and coastal flooding will impact current and future development along the
26 shoreline. Floodplain regulations are meant to protect people and property while
27 making the City more resilient to the impacts from natural disasters and climate
28 change.

29 (b) *Intent.*

30 It is, therefore, the intent of the Mayor and City Council by this Division I:

- 31 (1) to protect human life and health;
- 32 (2) to minimize public and private property damage;
- 33 (3) to encourage the utilization of appropriate construction practices in order to
34 prevent or minimize flood damage in the future;
- 35 (4) to protect individuals from unwittingly buying lands and structures [which] THAT
36 are unsuited for intended purposes because of the flood hazards;

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- 1 (5) to protect water supply, sanitary sewage disposal, and natural drainage;
- 2 (6) to reduce financial burdens imposed on the community, its governmental units,
3 and its residents by preventing the unwise design and construction of development
4 in areas subject to flooding;
- 5 (7) to provide for public awareness of the flooding potential; and
- 6 (8) to provide for the biological and environmental quality of the watersheds or THE
7 portions [thereof] OF WATERSHED located in Baltimore City.

8 (c) *Design.*

9 This Division I provides a unified comprehensive approach to floodplain management
10 that addresses THE requirements of the following Federal and State programs concerned
11 with floodplain management:

- 12 (1) the National Flood Insurance Program and the President's Executive Order 11988
13 of May 27, 1977, on floodplain management;
- 14 (2) the State Waterway Construction Permit Program;
- 15 (3) the State Wetlands Permit Program;
- 16 (4) the U.S. Army Corps of Engineers' Section 10 and Section 404 Permit Programs;
17 and
- 18 (5) the State Coastal Zone Management Program.

19 (D) *WARNING AND DISCLAIMER OF LIABILITY.*

20 (1) *WARNING.*

21 THE DEGREE OF FLOOD PROTECTION REQUIRED BY THESE REGULATIONS IS
22 CONSIDERED REASONABLE FOR REGULATORY PURPOSES AND IS BASED ON SCIENTIFIC
23 AND ENGINEERING CONSIDERATIONS. LARGER FLOODS CAN AND WILL OCCUR, AND
24 FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THESE
25 REGULATIONS DO NOT IMPLY THAT LAND OUTSIDE OF THE SPECIAL FLOOD HAZARD
26 AREAS OR USES THAT ARE PERMITTED WITHIN THOSE AREAS WILL BE FREE FROM
27 FLOODING OR FLOOD DAMAGE.

28 (2) *DISCLAIMER OF LIABILITY.*

29 THESE REGULATIONS SHALL NOT CREATE LIABILITY ON THE PART OF THE CITY OF
30 BALTIMORE, ANY OF ITS OFFICERS OR EMPLOYEES, THE MARYLAND DEPARTMENT OF
31 THE ENVIRONMENT (MDE), OR THE FEDERAL EMERGENCY MANAGEMENT AGENCY
32 (FEMA) FOR ANY FLOOD DAMAGE THAT RESULTS FROM RELIANCE ON THESE
33 REGULATIONS OR ANY ADMINISTRATIVE DECISION LAWFULLY MADE HEREUNDER.

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1 § 1-10. Short title.

2 This Division I may be cited as the "Baltimore City Floodplain Management Code".

3 Subtitle 2. Floodplain District

4 § 2-1. Establishment of district.

5 (a) *City to establish.*

6 The City must establish a Floodplain District and an official floodplain map to include all
7 areas subject to inundation by floodwaters.

8 (b) *Bases.*

9 (1) The basis of this delineation must be, at a minimum, the data contained in the most
10 recent Flood Insurance Study for Baltimore City, and illustrated in the MOST
11 RECENTLY ADOPTED Flood Insurance Rate Map. The Flood Insurance Rate Map
12 illustrates both the Special Flood Hazard Areas and [that part of the tidal floodplain
13 designated as] THE FLOOD RESILIENCE AREA ["areas of 0.2% annual chance flood"].

14 (2) The base-flood elevation, as determined in the Flood Insurance Study, is graphically
15 delineated on the official floodplain map.

16 (3) Where field-surveyed topography or digital topography indicates that ground
17 elevations are above the base-flood elevation in a Special Flood Hazard Area, then the
18 area is considered in the Special Flood Hazard Area until FEMA issues a Letter of
19 Map Change.

20 (4) Where field-surveyed topography or digital topography indicates that ground
21 elevations are below the closest applicable [design-flood] FLOOD-PROTECTION
22 elevation, even in areas not delineated on the FIRM as a Regulated Flood Hazard
23 Area, the area is considered to be a Regulated Flood Hazard Area.

24 (c) *District as overlay to zoning.*

25 The Floodplain District is an overlay zoning district, as provided in the Zoning Code of
26 Baltimore City.

27 § 2-2. Subdistricts.

28 (a) *In general.*

29 (1) The Floodplain District comprises the [following] subdistricts SET FORTH IN THIS
30 SECTION.

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1 (2) IN ALL FLOODPLAIN DISTRICTS, THE FLOOD PROTECTION ELEVATION IS CALCULATED
2 AS FOLLOWS:

3 (I) IN THE TIDAL FLOODPLAIN AREAS, IT IS THE HEIGHT AND GEOGRAPHIC EXTENT
4 OF THE 0.2% ANNUAL CHANCE FLOOD IN THE TIDAL AREA PLUS FREEBOARD.

5 (II) IN THE NON-TIDAL FLOODPLAIN AREAS, IT IS THE EXTENT OF THE 0.2% ANNUAL
6 CHANCE FLOOD, AND THE HEIGHT OF THE 1% ANNUAL CHANCE FLOOD PLUS
7 FREEBOARD.

8 (b) *Floodway.*

9 The Floodway is that part of the Floodplain District that is reserved to [pass] CONVEY a
10 base-flood discharge so that the cumulative increase in the water surface elevation of the
11 base-flood discharge is no more than [a designated] THE height DESIGNATED BY FEMA IN
12 THE FLOOD INSURANCE STUDY.

13 (c) *Floodway Fringe.*

14 (1) The Floodway Fringe comprises those lands within the Floodplain District that:

15 (i) are subject to inundation by a base flood [or by a 0.2% annual chance flood];
16 and

17 (ii) lie beyond the Floodway (where a floodway has been determined), or in areas
18 where detailed study data, profiles, and base-flood elevations have been
19 established.

20 (2) The Floodway Fringe appears on the ["Flood Boundary and Floodway Maps" and "
21 Flood Insurance Rate Map as Zone AE.

22 (d) *Approximated Floodplain.*

23 (1) The Approximated Floodplain comprises those lands within the Floodplain District
24 that:

25 (i) are subject to inundation by a base flood; and

26 (ii) lie in:

27 (A) areas for which a detailed study has not been performed, but a base
28 floodplain boundary has been approximated; or

29 (B) areas that are subject to shallow flooding.

30 (2) A base-flood elevation must be established after consideration of any flood elevation
31 and floodway data available from Federal, State, or other sources.

32 (3) The Approximated Floodplain appears on the Flood Insurance Rate Map as Zones A
33 and AO.

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1 (e) *Coastal Floodplain.*

2 (1) The Coastal Floodplain, ALSO REFERRED TO AS TIDAL FLOODPLAIN, comprises those
3 lands within the Floodplain District that:

4 (i) due to high tides, hurricanes, tropical storms, and steady onshore winds, are
5 subject to coastal or tidal inundation by a base flood; and

6 (ii) lie in areas where detailed study data are available.

7 (2) The Coastal Floodplain appears on the Flood Insurance Rate Map as Zones A and AE,
8 AND INCLUDES AREAS ENCOMPASSED BY TRANSECTS DELINEATED BY FEMA IN THE
9 FLOOD INSURANCE STUDY[.] (In Zone AE, a designation on the FIRM indicating
10 "Limit of Moderate Wave Action" refers to the landward limit of waves of 1.5 feet or
11 more in height.).

12 (f) *Coastal High Hazard Area.*

13 (1) The Coastal High Hazard Area [comprises those lands within the Floodplain District
14 that are subject to inundation by coastal or tidal flooding, with high velocity waters
15 and wave action] IS THE AREA WITHIN A SPECIAL FLOOD HAZARD AREA EXTENDING
16 FROM OFFSHORE TO THE INLAND LIMIT OF A PRIMARY FRONTAL DUNE ALONG AN OPEN
17 COAST AND ANY OTHER AREA THAT IS SUBJECT TO HIGH VELOCITY WAVE ACTION
18 FROM STORMS OR SEISMIC SOURCES. THIS AREA IS DESIGNATED ON FIRMS AS
19 VELOCITY ZONES V, VO, VE, OR V1-30, AND INCLUDES AREAS ENCOMPASSED BY
20 TRANSECTS DELINEATED BY FEMA IN THE FLOOD INSURANCE STUDY.

21 (2) The Coastal High Hazard Area appears on the Flood Insurance Rate Map as Zones V
22 and VE.

23 (g) *Flood Resilience Area.*

24 SEE § 1-3(C) {DEFINITIONS: FLOOD RESILIENCE AREA"} OF THIS DIVISION I.

25 [(1) The Flood Resilience Area comprises those lands within a tidal floodplain that:]

26 [(i) due to hurricanes, tropical storms, and the rising Bay are subject to a 0.2%
27 chance of flooding in any given year; and]

28 [(ii) lie in areas where detailed study data are available.]

29 [(2) The Flood Resilience Area appears:]

30 [(i) on the Flood Insurance Rate Map, as that part of the tidal floodplain that is
31 designated Zone X ("areas of 0.2% annual chance flood"); and]

32 [(ii) in the Flood Insurance Study's Table 4 {"Transect Data"}, under the column
33 heading "0.2% annual chance".]

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1 **§ 2-3. Official map.**

2 (a) *In general.*

3 (1) The official floodplain map is the most current Flood Insurance Rate Map, as
4 prepared by the Federal Emergency Management Agency.

5 (2) The official floodplain map:

6 (i) must be maintained by the Planning Department; and

7 (ii) is incorporated by reference as part of this Division I.

8 (b) *Bases.*

9 [(1)] The minimum bases for establishing Regulated Flood Hazard Areas and their
10 respective [design-flood] FLOOD elevations are as follows:

11 (1) [(i)] the most recent revision of the Flood Insurance Study for the City of
12 Baltimore, dated [April 2, 2014;] JUNE 16, 2021.

13 (2) [(ii)] the accompanying Flood Insurance Rate Map; and

14 (3) [(iii)] all subsequent amendments and revisions to the FIRM.

15 [(c) *Areas with ground levels below closest DFE.*]

16 [Where field-surveyed topography or digital topography indicates that ground elevations
17 are below the closest applicable design-flood elevation, even in areas not delineated on
18 the FIRM as a Regulated Flood Hazard Area, the area is considered to be a Regulated
19 Flood Hazard Area.]

20 **§ 2-4. [Design-flood] FLOOD elevations.**

21 (a) *Nontidal floodplain.*

22 (1) Regulated Flood Hazard Areas in the nontidal floodplain are designated on the FIRM
23 as "Special Flood Hazard Areas".

24 (2) The [design-flood] FLOOD elevations for these areas correspond to the base-flood
25 elevations specified in the Flood Insurance Study.

26 (b) *Tidal floodplain.*

27 (1) Regulated Flood Hazard Areas in the tidal floodplain are designated on the FIRM as
28 Zones A, AE, V, VE, and X.

29 (2) The [design-flood] FLOOD elevations for Zones V and VE are as shown in the Flood
30 Insurance Study's Table 4 {"Transect Data"}, under the column heading "Zone
31 Designation and BFE".

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1 (3) The [design-flood] FLOOD elevations for SHADED Zone X (“areas of 0.2% annual
2 chance flood”) and for Zones A and AE are those shown in the Flood Insurance
3 Study’s Table 4 {“Transect Data”}, under the column heading “0.2% Annual
4 Chance”.

5 (c) [(d)] *FLOOD ELEVATIONS NOT [Not] provided by FIRM or FIS.*

6 To establish [base-flood] FLOOD elevations for Regulated Flood Hazard Areas that do not
7 have these elevations shown on the Flood Insurance Rate Map or in the Flood Insurance
8 Study, the Floodplain Manager may:

9 (1) provide the best available data for [base-flood] FLOOD elevations;

10 (2) require the applicant to obtain available information from Federal, State, or other
11 sources; or

12 (3) require the applicant to establish Regulated Flood Hazard Areas and design-flood
13 elevations as set forth in § 2-5 {“Changes to District”} of this subtitle.

14 **§ 2-5. Changes to District.**

15 (a) *When authorized.*

16 The delineation of the Floodplain District and its Subdistricts may be revised, amended,
17 or modified by the City, in compliance with the requirements of the National Flood
18 Insurance Program and the Maryland Department of the Environment, if:

19 (1) there are changes through natural or other causes to flood elevations and
20 boundaries; or

21 (2) changes are indicated by detailed hydrologic and hydraulic information and
22 studies.

23 (b) *Notice of changes.*

24 As soon as practicable, but not later than 6 months after changes become known, the
25 Planning Department must notify the Federal Insurance Administrator of the changes by
26 submitting technical and scientific data in accordance with 44 Code of Federal
27 Regulations, Part 65.

28 (c) *Required Federal and State approvals.*

29 All changes are subject to the review and approval of the Federal Emergency
30 Management Agency and the Maryland Department of the Environment.

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1 **§ 2-6. Unmapped streams.**

2 (a) *Minimum flood protection setback.*

3 If development is proposed in the vicinity of an unmapped stream that has no delineated
4 base floodplain, a minimum of A 25-foot flood protection setback from the stream's bank
5 may be used.

6 (b) *State permits.*

7 State permits may be required. Applicants should request the State Water [Management]
8 & SCIENCE Administration for a determination of whether its permit requirements apply.

9 (c) *Variances.*

10 Variations may be applied for under Subtitle 5 {"Floodplain Variations"} of this
11 Division I.

12 **§ 2-7. Floodplain Manager.**

13 (a) *Duties of Planning Department.*

14 The Planning Department is responsible to ensure compliance with the National Flood
15 Insurance Program.

16 (b) *Planning Director to appoint Manager.*

17 The Planning Director is responsible for appointing staff to carry out the duties of the
18 Floodplain Manager.

19 (c) *Duties of Floodplain Manager.*

20 The Floodplain Manager is responsible for:

- 21 (1) overseeing and implementing the City's floodplain program;
- 22 (2) responding to all requests and inquiries by the Administrator of the National
23 Flood Insurance Program;
- 24 (3) reviewing applications to determine whether the proposed uses and other activities
25 will be reasonably safe from flooding;
- 26 (4) reviewing elevation certificates and requiring incomplete or deficient certificates
27 to be corrected; and
- 28 (5) keeping all files required by the National Flood Insurance Program.

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Subtitle 3. Development Regulations

Part 1. In General

§ 3-1. In general.

(a) *New construction and substantial improvements.*

(1) In order to prevent excessive damage to structures, all new construction and substantial improvements to existing structures in the Floodplain District must comply with:

(i) the regulations and restrictions of this subtitle; and

(ii) except as otherwise provided in this Division I, the design and construction standards of:

(A) ASCE 24 {"Flood Resistant Design and Construction"}; and

(B) ASCE 7 {"Minimum Design Loads for Buildings and Other Structures"}, Chapter 5 {"Flood Loads"}.

(2) Where [base-flood] FLOOD elevation data are used, the applicant must provide to the Planning Department:

(i) floodproofing elevations for all new construction and all substantial improvements to an existing structure; and

(ii) corresponding elevation certificates.

(b) *Projects overlapping subdistricts or elevations.*

If a proposed structure or substantial improvement is sited in 2 different subdistricts or in a subdistrict with 2 different [design-flood] FLOOD elevations, the most restrictive regulation or higher flood elevation prevails.

(c) *Classification of structures.*

For the purpose of applying appropriate requirements, structures are classified according to ASCE 24, Table 1-1 {"Classification of Structures for flood Resistant Design and Construction"}.

Part 2. Districtwide Regulations

§ 3-2. In general.

In the entire Floodplain District, the following regulations and restrictions apply.

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1 **§ 3-3. Conformance to programs, plans, and BFR Codes Article.**

2 (a) *Permit programs.*

3 The approval of any development must conform with the requirements of the permit
4 programs of:

5 (1) the State Water [Management] & SCIENCE Administration; and

6 (2) all other applicable Federal, State, and City agencies.

7 (b) *Building, Fire, and Related Codes.*

8 The approval of any development must conform with all applicable requirements of the
9 Baltimore City Building, Fire, and Related Codes Article.

10 (c) *Management plans.*

11 Where flood control and watershed management plans exist, all development must be
12 consistent with those plans.

13 **§ 3-4. Residential structures.**

14 (a) *Elevation.*

15 (1) Every new or substantially improved residential structure, including A manufactured
16 home, must have its lowest floor elevated to at least the flood-protection elevation[, as
17 specified in ASCE 24].

18 (2) The elevation of the lowest floor AND THE LOWEST ELEVATION OF MACHINERY
19 SERVING THE STRUCTURE [of the improvement] must be certified on an elevation
20 certificate after the lowest floor AND MACHINERY ARE [is] in place.

21 (3) Every new or substantially improved residential structure must meet the requirements
22 of § 3-14 {"Enclosures below lowest floor or flood-protection elevation"} of this
23 subtitle.

24 (b) *Placement.*

25 Every proposed structure must be placed on the lot so as to avoid location in the
26 floodplain as much as possible.

27 (c) *Basements.*

28 Basements are not permitted IN NEW STRUCTURES AND SUBSTANTIAL IMPROVEMENT OF
29 EXISTING STRUCTURES (INCLUDING REPAIR OF SUBSTANTIAL DAMAGE).

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1 (d) *Enclosures below flood-protection elevation.*

2 [Enclosures below the flood-protection elevation must meet the requirements of § 3-14
3 {"Enclosures below lowest floor or flood-protection elevation"} of this subtitle.]

4 ENCLOSURES BELOW THE FLOOD-PROTECTION ELEVATION SHALL BE:

- 5 (1) USED SOLELY FOR PARKING OF VEHICLES, LIMITED STORAGE AND BUILDING
6 ACCESS;
- 7 (2) CONSTRUCTED USING FLOOD DAMAGE-RESISTANT MATERIALS; AND
- 8 (3) PROVIDED WITH FLOOD OPENINGS THAT MEET THE CRITERIA LISTED UNDER
9 § 1-3(A) {"DEFINITIONS: FLOODPROOFING"} OF THIS DIVISION I.

10 (e) *Expansions in TIDAL AND nontidal floodplains.*

11 [In nontidal floodplains, any] ANY horizontal expansion that increases the footprint and
12 that is less than substantial must also have the lowest floor elevated to at least the flood-
13 protection elevation.

14 § 3-5. **Nonresidential OR MIXED-USED structures.**

15 (a) *In general.*

- 16 (1) Every new or substantially improved nonresidential structure must be either:
- 17 (i) elevated to at least the flood-protection elevation[, as specified in ASCE 24];
18 or
- 19 (ii) dry OR WET floodproofed.
- 20 (2) Basements [or the floodproofing option] are prohibited for any new nonresidential
21 structure in THE TIDAL AND nontidal floodplains.
- 22 (3) Every new or substantially improved nonresidential structure must meet the
23 requirements of § 3-14 {"Enclosures below lowest floor or flood-protection
24 elevation"} of this subtitle.
- 25 (4) The elevation of the lowest floor of the improvement must be certified on an elevation
26 certificate after the lowest floor is in place.
- 27 (5) IN MIXED-USE STRUCTURES, AREAS BELOW THE FLOOD-PROTECTION ELEVATION MAY
28 NOT BE USED FOR RESIDENTIAL USE EVEN IF THE AREA IS FLOODPROOFED.

29 (b) *Floodproofing option.*

- 30 (1) Floodproofing designs for existing structures must [insure] ENSURE that areas below
31 the flood- protection elevation are watertight with walls substantially impermeable to
32 the passage of water and with structural components capable of resisting hydrostatic

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1 and hydrodynamic loads and effects of buoyancy, AS DESCRIBED IN § 1-3(A)
2 {"DEFINITIONS: FLOODPROOFING"} OF THIS DIVISION I.

3 (2) If the floodproofing option is chosen, a floodproofing certificate must be completed
4 by a licensed professional engineer or professional architect who has reviewed the
5 design and specifications and certifies that the nonresidential structure will meet this
6 standard. A USE AND OCCUPANCY PERMIT CANNOT BE APPROVED UNTIL THE
7 FLOODPROOFING CERTIFICATE IS SUBMITTED.

8 (c) *Expansions in TIDAL AND nontidal floodplains.*

9 In TIDAL AND nontidal floodplains, any horizontal expansion that increases the footprint
10 and that is less than substantial must also have the lowest floor elevated to at least the
11 flood-protection elevation.

12 **§ 3-6. Less than substantial improvement.**

13 (a) *In general.*

14 If the construction, reconstruction, or modification of any structure constitutes less than a
15 substantial improvement:

16 (1) the [replacement] INSTALLATION of any electric, plumbing, or mechanical
17 systems must comply with § 3-10 {"Electric, plumbing, and mechanical
18 systems"} of this subtitle[;], and

19 (2) those parts of the improvement below] the flood-protection elevation must:

20 (i) be floodproofed; and

21 (ii) otherwise comply with the design and construction standards of ASCE 24.

22 (b) *Exceptions.*

23 (1) Routine maintenance, [and] repairs, AND THE IN-KIND REPLACEMENT OF MECHANICAL,
24 ELECTRICAL, AND PLUMBING SYSTEMS are [excepted] EXEMPT from the requirements
25 of this section.

26 (2) FOR IN-KIND REPLACEMENT, THE SYSTEMS MUST BE ELEVATED TO THE MAXIMUM
27 EXTENT POSSIBLE TO AVOID OR MINIMIZE FLOOD DAMAGE.

28 **§ 3-7. Impacts on habitat.**

29 All development must be undertaken in a manner that minimizes adverse impacts on aquatic
30 and terrestrial habitat and their related flora and fauna.

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1 § 3-8. Design, anchoring, and materials.

2 (a) *In general.*

3 All construction and improvements must be:

- 4 (1) designed, constructed, connected, and anchored to prevent flotation, collapse, or
5 lateral movement of the structure, in accordance with the standards for new
6 construction and substantial improvements specified in ASCE 24, § 1.5.1
7 {"General"};
- 8 (2) constructed and placed on the lot so as to offer the minimum obstruction to the
9 flow and height of floodwaters;
- 10 (3) constructed with material and utility equipment resistant to flood damage; and
- 11 (4) constructed by methods and practices that minimize flood damage.

12 (b) Materials below *THE FLOOD PROTECTION ELEVATION [FPE.]*

13 Unless the structure is dry floodproofed to the flood-protection elevation, materials used
14 below that elevation must be resistant to floodwater damage, as specified in:

- 15 (1) FEMA Technical Bulletin 2, "Flood Damage-Resistant Materials Requirements
16 for Buildings Located in Special Flood Hazard Areas in accordance with the
17 National Flood Insurance Program"; [or] AND
- 18 (2) ASCE 24, § 5.0 {"Materials"}.

19 (c) *Tanks.*

20 Tanks must be designed and installed as specified in ASCE 24, § 7.4.1 {"Tanks"}.

21 (D) *ELEVATORS.*

22 FOR INSTALLATION IN ANY STRUCTURE LOCATED IN ANY FLOODPLAIN SUBDISTRICT,
23 ELEVATORS MUST BE DESIGNED AND INSTALLED:

- 24 (1) AS SPECIFIED IN ASCE 24, § 7.5 {"ELEVATORS"}; AND
- 25 (2) AS SPECIFIED IN FEMA TECHNICAL BULLETIN 4: TECHNICAL BULLETIN 4,
26 ELEVATORS IN BUILDINGS LOCATED IN SPECIAL FLOOD HAZARD AREAS.

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1 **§ 3-9. Landscape design.**

2 (a) *Ground cover.*

3 Adequate ground cover must be provided for soil stabilization within the Floodplain
4 District.

5 (b) *Land contours and plant material.*

6 Land contours must be designed and plant material chosen[, so as] to direct surface runoff
7 away from structures and not increase surface runoff onto neighboring properties.

8 **§ 3-10. Electric, plumbing, and mechanical systems.**

9 (a) *In general.*

10 Except as otherwise provided in subsection (b) of this section, electric, plumbing, and
11 mechanical systems and their attendant components and equipment, including heaters,
12 furnaces, generators, heat pumps, air conditioners, distribution panels, toilets, showers,
13 sinks, duct work, and other permanent electrical, plumbing, or mechanical installations,
14 are only permitted at or above the flood-protection elevation.

15 (b) *Exceptions.*

16 (1) Subsection (a) of this section does not apply to a system that is designed and installed,
17 in accordance with ASCE 24, to prevent water from entering or accumulating within
18 its components and to resist hydrostatic and hydrodynamic loads and stresses,
19 including the effects of buoyancy, during the occurrence of flooding to the flood-
20 protection elevation.

21 (2) In addition, electrical wiring systems for 1- and 2-family dwellings must conform to
22 the requirements of the Baltimore City Residential Code for One- and Two-Family
23 Dwellings, Part VIII {"Electrical"}, for wet locations.

24 (3) SUBSECTION (A) OF THIS SECTION DOES NOT APPLY TO ROUTINE MAINTENANCE,
25 REPAIRS, AND THE IN-KIND REPLACEMENT OF MECHANICAL, ELECTRICAL AND
26 PLUMBING SYSTEMS IN LESS-THAN SUBSTANTIAL IMPROVEMENT PROJECTS.

27 **§ 3-11. Storage.**

28 Materials AND PRODUCTS that are buoyant, flammable, OR explosive, or that in times of
29 flooding could be injurious to human, animal, or plant life may not be stored [below 2 feet
30 above the design-flood elevation] THE FLOOD PROTECTION ELEVATION.

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1 § 3-12. Fill.

2 (a) *In general.*

3 (1) In the Coastal High Hazard Area:

4 (i) fill is prohibited for structural support; but

5 (ii) placement of nonstructural fill is allowed to the extent provided in this section
6 and in ASCE 24, § 4.5.4 {"Use of Fill"}.

7 (2) In the Coastal Floodplain:

8 (i) fill material must meet the requirements of this section; and

9 (ii) structural fill must comply with all applicable provisions of ASCE 24.

10 (b) *Maximum fill amount.*

11 The placement of more than 600 cubic yards of NET fill per acre in the floodplain is
12 prohibited except by variance.

13 (c) *Required alternate consideration.*

14 (1) Elevating a structure by other methods must be considered unless 600 cubic yards or
15 less of fill are required.

16 (2) An applicant must demonstrate that:

17 (i) fill is the only alternative to raising the structure to at least the flood-
18 protection elevation; and

19 (ii) the amount of fill used will not affect the flood storage capacity or increase
20 flooding onto neighboring properties.

21 (d) *Affect on adjacent properties.*

22 Fill may be used only to the extent to which it does not adversely affect adjacent
23 properties.

24 (e) *Materials.*

25 (1) Fill may consist of soil or rock materials only.

26 (2) Landfills, dumps, and sanitary soil fills are not permitted.

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1 (f) *Compacting standards.*

2 Fill material must be compacted in accordance with the standard proctor test method
3 issued by the American Society for Testing and Materials (ASTM Standard D-698) to
4 provide the necessary stability and resistance to erosion, scouring, or settling.

5 (g) *Slopes.*

6 Fill slopes may be no steeper than 1 vertical to 2 horizontal, unless substantiating data
7 justifying steeper slopes are submitted to and approved by the Department of Public
8 Works.

9 (h) *Hydrologic and hydraulic analyses.*

10 If structures on adjacent properties are known or determined to be subject to flooding
11 under current conditions, the Floodplain Manager may require submission of hydrologic
12 and hydraulic analyses to adequately demonstrate the effects of the proposed fill. A
13 HYDROLOGIC AND HYDRAULIC ANALYSIS REQUIREMENT DOES NOT APPLY TO PROJECTS
14 LOCATED IN THE COASTAL FLOODPLAIN OR TIDAL PORTION OF THE FLOOD RESILIENCE
15 AREA.

16 § 3-13. **Accessory structures.**

17 (a) *In general.*

18 [Due to their minimal investment, accessory structures are exempt from the elevation or
19 dry floodproofing standards of this Division I as long as all of the requirements of this
20 section are met.]

21 ACCESSORY STRUCTURES SHALL BE LIMITED TO NO MORE THAN 300 SQUARE FEET IN
22 TOTAL FLOOR AREA.

23 (B) **REQUIREMENTS.**

24 ACCESSORY STRUCTURES:

25 (1) SHALL COMPLY WITH THE ELEVATION REQUIREMENTS AND OTHER REQUIREMENTS
26 OF § 3-14 {"ENCLOSURES BELOW THE FIRST FLOOR OR FLOOD PROTECTION
27 ELEVATION"} OF THIS SUBTITLE; OR

28 (2) SHALL:

29 (I) BE USEABLE ONLY FOR PARKING OF VEHICLES OR LIMITED STORAGE;

30 (II) BE CONSTRUCTED WITH FLOOD DAMAGE-RESISTANT MATERIALS BELOW THE
31 FLOOD PROTECTION ELEVATION;

32 (III) BE CONSTRUCTED AND PLACED TO OFFER THE MINIMUM RESISTANCE TO THE
33 FLOW OF FLOODWATERS;

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- 1 (IV) BE ANCHORED TO PREVENT FLOTATION;
- 2 (V) HAVE ELECTRICAL SERVICE AND MECHANICAL EQUIPMENT ELEVATED TO OR
3 ABOVE THE FLOOD PROTECTION ELEVATION; AND
- 4 (VI) HAVE FLOOD OPENINGS THAT MEET THE CRITERIA DESCRIBED IN § 1-3(A)
5 {"DEFINITIONS: FLOODPROOFING"} OF THIS DIVISION I.

6 [(b) *Plans statement.*]

7 [A statement must be placed on the building plans, to read as follows:

8 "This structure may not be converted to any use other than for parking
9 vehicles or limited storage, nor may it be enlarged beyond 300 square feet
10 or 1 story, unless the structure is brought into compliance with City Code
11 Article 7 {"Natural Resources"}, Division I {"Floodplain Management"}.]

12 [(c) *Elevation.*]

13 [The floor elevation of the accessory structure:

- 14 (1) does not qualify as a basement; and
- 15 (2) must be constructed on or above grade and meet the requirements of § 3-14
16 {'Enclosures below lowest floor or flood-protection elevation'} of this subtitle.]

17 [(d) *Minimum resistance.*]

18 [The accessory structure must:

- 19 (1) be constructed and placed on the building site so as to offer the minimum
20 resistance to the flow of floodwaters; and
- 21 (2) meet the requirements of § 3-14 {'Enclosures below lowest floor or
22 flood-protection elevation'} of this subtitle.]

23 [(e) *Firm anchorage.*]

24 [The accessory structure must be firmly anchored to prevent flotation that might result in
25 damage to other structures.]

26 [(f) *Flood damage potential.*]

27 [The accessory structure must be designed to have low flood damage potential, including
28 provisions to allow free flow of water into and out of it to maintain equal pressure.]

29 [(g) *Service facilities.*]

30 [The service facilities, such as electrical, plumbing, and heating equipment, must be
31 elevated to the applicable flood-protection elevation or be floodproofed.]

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1 [(h) *Non-conversion agreement.*]

2 [(1) A non-conversion agreement must be completed and signed by the property owner.

3 (2) The design and construction of the structure must follow the regulations stated in the
4 agreement and be equipped with water equalizing vents as specified in §§ 3-4
5 {"Residential structures"} and 3-5 {"Nonresidential structures"}.]

6 **§ 3-14. Enclosures below lowest floor or flood-protection elevation.**

7 (A) *IN GENERAL.*

8 New construction and substantial improvements of fully enclosed areas below the lowest
9 floor or below the flood-protection elevation:

10 (1) are limited to FLOODPROOFED areas usable solely for parking vehicles, limited
11 storage, AND building access[, and crawl spaces] AS SPECIFIED IN §§ 1-3(A)
12 {"DEFINITIONS: FLOODPROOFING"}, § 3-4 {"RESIDENTIAL STRUCTURES"}, AND
13 3-5 {"NON-RESIDENTIAL AND MIXED-USED STRUCTURES"} OF THIS DIVISION I;
14 [and] OR

15 (2) must be designed to meet or exceed the minimum criteria [ASCE 24, § 2.6
16 {"Enclosures Below the Design Flood Elevation"}] DESCRIBED IN § 1-3(A)
17 {"DEFINITIONS: FLOODPROOFING"} OF THIS DIVISION I FOR DRY FLOODPROOFING
18 AND WET FLOODPROOFING.

19 (B) *STATE REGULATIONS.*

20 THE STATE MAY HAVE DIFFERENT, MORE STRINGENT REQUIREMENTS SET FORTH IN
21 COMAR 26.17.03 {"CONSTRUCTION ON NONTIDAL WATERS AND FLOODPLAINS"}.

22 **§ 3-15. Watercourses.**

23 (A) *IN GENERAL.*

24 (1) FOR ANY PROPOSED DEVELOPMENT THAT INVOLVES ALTERATION OF A WATERCOURSE,
25 UNLESS WAIVED BY MDE, THE APPLICANT SHALL DEVELOP HYDROLOGIC AND
26 HYDRAULIC ENGINEERING ANALYSES AND TECHNICAL DATA REFLECTING SUCH
27 CHANGES, AND SUBMIT SUCH TECHNICAL DATA TO THE FLOODPLAIN ADMINISTRATOR
28 AND TO FEMA. THE ANALYSES SHALL BE PREPARED BY A LICENSED PROFESSIONAL
29 ENGINEER IN A FORMAT REQUIRED BY MDE AND BY FEMA FOR A CONDITIONAL
30 LETTER OF MAP REVISION AND A LETTER OF MAP REVISION UPON COMPLETION OF
31 THE PROJECT.

32 (2) SUBMITTAL REQUIREMENTS AND FEES SHALL BE THE RESPONSIBILITY OF THE
33 APPLICANT.

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1 (B) *SUBMISSION REQUIREMENTS.*

2 ALTERATION OF A WATERCOURSE MAY BE PERMITTED ONLY UPON SUBMISSION, BY THE
3 APPLICANT, OF THE FOLLOWING:

4 (1) A DESCRIPTION OF THE EXTENT TO WHICH THE WATERCOURSE WILL BE ALTERED
5 OR RELOCATED;

6 (2) A CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER THAT THE
7 FLOOD-CARRYING CAPACITY OF THE WATERCOURSE WILL NOT BE DIMINISHED;

8 (3) EVIDENCE THAT ADJACENT COMMUNITIES, THE U.S. ARMY CORPS OF ENGINEERS,
9 AND MDE HAVE BEEN NOTIFIED OF THE PROPOSAL, AND EVIDENCE THAT THE
10 NOTIFICATIONS HAVE BEEN SUBMITTED TO FEMA; AND

11 (4) EVIDENCE THAT THE APPLICANT SHALL BE RESPONSIBLE FOR PROVIDING THE
12 NECESSARY MAINTENANCE FOR THE ALTERED OR RELOCATED PORTION OF THE
13 WATERCOURSE SO THAT THE FLOOD CARRYING CAPACITY WILL NOT BE
14 DIMINISHED.

15 (C) *AGREEMENT WITH CITY.*

16 (1) THE FLOODPLAIN ADMINISTRATOR MAY REQUIRE THE APPLICANT TO ENTER INTO AN
17 AGREEMENT WITH THE MAYOR AND CITY COUNCIL SPECIFYING THE MAINTENANCE
18 RESPONSIBILITIES.

19 (2) IF AN AGREEMENT IS REQUIRED, THE PERMIT SHALL BE CONDITIONED TO REQUIRE
20 THAT THE AGREEMENT BE RECORDED ON THE DEED OF THE PROPERTY WHICH SHALL BE
21 BINDING ON FUTURE OWNERS.

22 [(a) *Variance required to alter.*]

23 In all floodplain zones or areas within 25 feet from a water course, any development that
24 proposes to alter a watercourse must obtain a variance under Subtitle 5 {"Floodplain
25 Variances"} of this Division I.
26

27 [(b) *Conditions for encroachment to be minimized.*]

28 [All conditions for encroachment in the Floodway must be minimized.]

29 [(c) *Required notices.*]

30 [Adjacent communities and property owners, FEMA, and the State Water Management
31 Administration must be notified of any application.]

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1 § 3-16. Flood protection setback.

2 (a) *Watercourse with floodplain.*

3 (1) A minimum 25-foot flood protection setback must be maintained from the edge of the
4 banks of any watercourse delineated on the floodplain map or FIRM as having a
5 floodplain.

6 (2) To prevent erosion, natural vegetation must be maintained in this area.

7 (3) Where natural vegetation does not exist along the water course and conditions for
8 replanting are suitable, high priority must be given to planting trees in the setback
9 area to stabilize banks and to enhance aquatic resources.

10 (b) *Stream with no floodplain.*

11 (1) A minimum 25-foot flood-protection setback must be maintained from the top of the
12 bank of any stream that has no designated floodplain.

13 (2) Natural vegetation must be maintained and, if needed, trees planted.

14 § 3-17. Utilities and facilities.

15 (a) *In general.*

16 In the entire Floodplain District, the design, placement, and construction of all public and
17 private utilities and facilities must meet:

18 (1) the requirements of this section; and

19 (2) all applicable requirements of ASCE 24.

20 (b) *Design and floodproofing.*

21 (1) New or replacement water supply systems, on-site disposal systems, or sanitary
22 sewage systems must be designed and floodproofed:

23 (I) to eliminate or minimize infiltration of floodwaters into the systems and
24 discharges from the systems into floodwaters; and

25 (II) to avoid impairment during flooding and minimize flood damage.

26 (2) All gas, electrical, and other facility and utility systems must be located, constructed,
27 and floodproofed to eliminate or minimize flood damage.

28 (c) *Sewage systems.*

29 (1) All pipes connected to sewage systems must be sealed to prevent leakage.

30 (2) Cesspools and seepage pits are prohibited.

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1 (3) Septic tanks are permitted if they are securely anchored to resist buoyant forces during
2 inundation.

3 (d) *New storm drainage facilities.*

4 All new storm drainage facilities within or leading to or from the Floodplain District must
5 be adequately designed, floodproofed, and installed to:

6 (i) eliminate or minimize property damage resulting from the floodwaters of a base
7 flood; and

8 (ii) minimize adverse environmental impacts of their installation and use.

9 **§ 3-18. Nontidal AE Zones without designated floodways.**

10 New development is not permitted within a nontidal AE Zone that is without a designated
11 floodway, unless it is demonstrated that the cumulative effect of all past and projected
12 development will not increase the base-flood elevation by more than 1 foot.

13 **§ 3-19. Recreational vehicles.**

14 (a) *“Recreational vehicle” defined.*

15 In this section, “recreational vehicle” means a vehicle that is:

16 (1) built on a single chassis;

17 (2) 400 square feet or less when measured at the largest horizontal projection;

18 (3) designed to be self-propelled or to be permanently towable by a light duty truck;
19 and

20 (4) designed primarily not for use as a permanent dwelling, but as temporary living
21 quarters for recreational, camping, travel, or seasonal use.

22 (b) *Treatment of recreational vehicles.*

23 All recreational vehicles in the Floodplain District must be:

24 (1) elevated and anchored as required by applicable State and Federal laws; or

25 (2) fully licensed and highway ready.

26 **§ 3-20. Temporary structures or storage.**

27 (a) *“Temporary structure” defined.*

28 In this section, “temporary structure” a structure erected, installed, and used for a period
29 [of less than] NOT TO EXCEED 180 days.

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1 (b) *Application for permit.*

2 In addition to the requirements of § 4-2 {"Development Permits: Applications"} OF THIS
3 DIVISION I, an application for the placement or erection of a temporary structure or for the
4 temporary storage of any goods, materials, or equipment must specify the duration of the
5 temporary use.

6 (c) *Structures.*

7 The temporary structure:

- 8 (1) must be designed and constructed to prevent flotation, collapse, or lateral
9 movement resulting from hydrodynamic loads and hydrostatic loads during
10 conditions of a base flood;
- 11 (2) must have electric service installed in compliance with the Baltimore City electric
12 code;
- 13
14 (3) must comply with all other requirements of the applicable State and City permit
15 authorities; and
- 16 (4) if in a Floodway, all necessary Federal and State permits must be obtained.

17 (d) *Storage.*

18 [Temporary storage:] STORAGE IN A TEMPORARY STRUCTURE

19 [(1)] may not include any hazardous materials[]; and

20 (2) if in a Floodway, all necessary Federal and State permits must be obtained].

21 § 3-21. LETTER OF MAP CHANGE.

22 (A) *SCOPE OF SECTION.*

23 THIS SECTION APPLIES TO ANY PROPERTY OWNER REQUESTING MAPPING CHANGES.

24 (B) *LETTER OF MAP CHANGE.*

25 A LETTER OF MAP CHANGE IS AN OFFICIAL FEMA DETERMINATION, BY LETTER, THAT
26 AMENDS OR REVISES AN EFFECTIVE FLOOD INSURANCE RATE MAP OR FLOOD INSURANCE
27 STUDY.

28 (C) *LETTER OF MAP AMENDMENT (LOMA).*

29 A LETTER OF MAP AMENDMENT IS AN AMENDMENT BASED ON TECHNICAL DATA SHOWING
30 THAT A PROPERTY WAS INCORRECTLY INCLUDED IN A DESIGNATED SPECIAL FLOOD
31 HAZARD AREA. A LOMA AMENDS THE CURRENT EFFECTIVE FLOOD INSURANCE RATE
32 MAP AND ESTABLISHES THAT A SPECIFIC PROPERTY OR STRUCTURE IS NOT LOCATED IN A
33 SPECIAL FLOOD HAZARD AREA.

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1 (D) *LETTER OF MAP REVISION (LOMR).*

2 A LETTER OF MAP REVISION IS A REVISION BASED ON TECHNICAL DATA THAT MAY SHOW
3 CHANGES TO FLOOD ZONES, FLOOD ELEVATIONS, FLOODPLAIN AND FLOODWAY
4 DELINEATIONS, AND PLANIMETRIC FEATURES. A LETTER OF MAP REVISION BASED ON
5 FILL (LOMR-F), IS A DETERMINATION THAT A STRUCTURE OR PARCEL OF LAND HAS BEEN
6 ELEVATED BY FILL ABOVE THE BASE FLOOD ELEVATION AND IS, THEREFORE, NO LONGER
7 EXPOSED TO FLOODING ASSOCIATED WITH THE BASE FLOOD. IN ORDER TO QUALIFY FOR
8 THIS DETERMINATION, THE FILL MUST HAVE BEEN PERMITTED AND PLACED IN
9 ACCORDANCE WITH THE COMMUNITY'S FLOODPLAIN MANAGEMENT REGULATIONS.

10 (E) *CONDITIONAL LETTER OF MAP REVISION (CLOMR).*

11 A CONDITIONAL LETTER OF MAP REVISION IS A FORMAL REVIEW AND COMMENT AS TO
12 WHETHER A PROPOSED FLOOD PROTECTION PROJECT OR OTHER PROJECT COMPLY WITH THE
13 MINIMUM NFIP REQUIREMENTS FOR SUCH PROJECTS WITH RESPECT TO DELINEATION OF
14 SPECIAL FLOOD HAZARD AREAS. A CONDITIONAL LETTER OF MAP REVISION BASED ON
15 FILL (CLOMR-F) IS A DETERMINATION THAT A PARCEL OF LAND OR PROPOSED
16 STRUCTURE THAT WILL BE ELEVATED BY FILL WOULD NOT BE INUNDATED BY THE BASE
17 FLOOD IF FILL IS PLACED ON THE PARCEL AS PROPOSED OR THE STRUCTURE IS BUILT AS
18 PROPOSED. A CLOMR DOES NOT REVISE THE EFFECTIVE FLOOD INSURANCE RATE MAP
19 OR FLOOD INSURANCE STUDY; ON SUBMISSION AND APPROVAL OF CERTIFIED AS-BUILT
20 DOCUMENTATION, A LETTER OF MAP REVISION MAY BE ISSUED BY FEMA, TO REVISE THE
21 EFFECTIVE FIRM.

22 (F) *ISSUANCE OF PERMITS.*

23 IF A PROPOSED DEVELOPMENT IS CONTINGENT UPON A MAP CHANGE, NO PERMITS WILL BE
24 ISSUED FOR THE DEVELOPMENT UNTIL THE LETTER OF MAP REVISION (LOMR) HAS BEEN
25 ISSUED BY FEMA. THE PROPOSED DEVELOPMENT MUST BE COMPLIANT WITH ALL
26 PERTINENT REQUIREMENTS OF DIVISION I OF ARTICLE 7.

27 [§§ 3-21 to 3-22. {Reserved}]

28 § 3-22. {RESERVED}

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Part 3. Floodway Regulations

§ 3-23. In general.

In the Floodway, the following regulations and restrictions apply.

§ 3-24. New private principal structures prohibited.

New construction of private principal structures, whether residential, commercial, or industrial, is prohibited.

§ 3-25. All development requires offset.

[No development is permitted unless:]

PUBLIC INFRASTRUCTURE AND ENVIRONMENTAL PROJECTS TAKING PLACE ON PUBLIC LAND THAT AIM TO IMPROVE DRAINAGE AND WATER QUALITY ARE PERMITTED IN THE FLOODWAY IF:

- (1) the development complies with all otherwise applicable requirements of this Division I;
- (2) the effect of that development on flood heights is fully offset by accompanying stream modification; and
- (3) the development is approved by all appropriate local authorities, the State Water [Management] & SCIENCE Administration, and the U.S. Army Corps of Engineers.

§ 3-26. Engineering report.

(a) Report required.

Any proposal to offset the effect of development in the Floodway by construction of stream modifications must be documented by an engineering report, prepared by a licensed professional engineer, that fully evaluates the effects of the construction and is submitted with the application for a building permit.

(b) Basis.

As the basis of analysis, the report must use the base flood and floodway data prepared by the Federal Emergency Management Agency.

§ 3-27. Map revision.

ANY DEVELOPMENT IN THE FLOODWAY THAT PROPOSES TO INCREASE THE WATER SURFACE ELEVATION OR CHANGE THE DELINEATION OF THE FLOODWAY REQUIRES A CONDITIONAL LETTER OF MAP REVISION AND A LETTER OF MAP REVISION AS DESCRIBED IN § 3-21 {"LETTER OF MAP CHANGE"} OF THIS SUBTITLE.

[(a) Scope of section.]

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1 [This section applies to any development in the Floodway that might result in an increase
2 in water surface elevations or a change to the Floodway.]

3 [(b) *Conditional Letter of Map Revision.*]

4 [(1) Before a permit may be issued for a proposed development that is subject to this
5 section, the applicant must obtain from FEMA a Conditional Letter of Map Revision.]

6 [(2) To obtain this Conditional Letter, the applicant must submit hydrologic and
7 hydraulic analyses that are based on existing floodway models, performed in
8 accordance with standard engineering practices, and certified by a licensed
9 professional engineer.]

10 [(c) *Letter of Map Revision.*]

11 [Before an occupancy permit may be issued for the development, the developer must
12 obtain from FEMA a Letter of Map Revision.]

13 **§ 3-27. {RESERVED}**

14 **§ 3-28. Alternative analysis.**

15 (a) *Required for permit.*

16 Before a permit may be issued for any [proposed] ALLOWED development in the
17 Floodway, the applicant must prepare and submit to the Planning Department an
18 alternative analysis in accordance with this section.

19 (b) *Scope of analysis.*

20 The alternative analysis must demonstrate that:

- 21 (1) no reasonable alternative exists outside OF the Floodway;
- 22 (2) the encroachment in the Floodway is the minimum necessary;
- 23 (3) the development will withstand a base flood without significant damage; and
- 24 (4) on the basis of hydrologic and hydraulic analyses, prepared by a licensed
25 professional engineer in accordance with the requirements of the Federal
26 Emergency Management Agency and the Maryland Department of the
27 Environment, the development:
- 28 (i) will not result in any increase in the base-flood elevation; and
- 29 (ii) will neither increase downstream or upstream flooding or erosion nor
30 significantly contribute to debris.

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§ 3-29. Changes to existing structures.

(a) Substantial improvements.

(1) An existing structure in the Floodway may be substantially improved only:

(i) by variance;

(ii) if the structure can be brought into conformance with this Division I without increasing its existing footprint; and

(iii) if all residential uses of the structure are provided egress outside of the base flood.

(2) Substantial improvement of a nonconforming structure, regardless of location, may only be undertaken in compliance with this Division I and any other applicable law.

(b) Substantial damage or proposed replacement.

(1) In the event of substantial damage or proposed replacement, the applicant must submit an alternative analysis to determine if the structure can be relocated to a less hazardous site.

(2) Where replacement structures cannot be relocated, they must be limited to the footprint of the previous structure.

(3) Any replacement structure must meet all applicable requirements of this Division I.

(c) Elevation or floodproofing.

The modification, alteration, repair, reconstruction or improvement of any non-conforming structure and/or development amounting to less than 50% of its fair market value shall be elevated and/or floodproofed to the greatest extent possible.

(d) Nuisance to be eliminated.

Uses or their adjuncts that are or become nuisances may not be permitted to continue.

§ 3-30. Prohibited structures.

(a) Manufactured homes or buildings.

The placement of any manufactured homes or buildings is prohibited.

(b) Fences, enclosures, etc.

The following may not be placed or caused to be placed in the Floodway:

(1) fences, except 2-rail or single-cable fences; and

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1 (2) any enclosures or materials (including fill) that:

2 (i) might impede, retard, or change the direction of the flow of water;

3 (ii) will catch or collect debris carried by water; or

4 (iii) is placed where the natural flow of stream or floodwaters would carry
5 enclosures or materials downstream to the damage or detriment of public
6 or private property in or adjacent to the floodplain.

7 §§ 3-31 TO 3-32. *{Reserved}*

8 ***Part 4. Other Subdistrict Regulations***

9 **§ 3-33. Approximated Floodplain.**

10 (a) *In general.*

11 In the Approximated Floodplain (ZONES A AND AO), the following additional regulations
12 apply.

13 (b) *Use of available data.*

14 In the enforcement of this Division I, the Planning Department must obtain, review, and
15 reasonably use any base-flood elevation and floodway data available from Federal, State,
16 or other sources, such as the U.S. Army Corps of Engineers, the Soil Conservation
17 Service, the State Water [Management] & SCIENCE Administration, or any regional
18 planning organization.

19 (c) *When data unavailable.*

20 When the base-flood elevation is not known, the Planning Department, in consultation
21 with the State Water [Management] & SCIENCE Administration, must evaluate each site
22 and establish an approximate base-flood elevation.

23 **§ 3-34. Coastal Floodplain and Flood Resilience Area.**

24 In the Coastal Floodplain and the Flood Resilience Area, the regulations specified in ASCE
25 24, § 4.0 {"Coastal High Hazard Areas and Coastal A Zones"} apply.

26 **§ 3-35. Coastal High Hazard Area.**

27 (a) *In general.*

28 In the Coastal High Hazard Area (ZONES V AND VE):

29 (1) the [following regulations of this section apply; and

30 (2) except as otherwise provided in this Division I, the regulations specified in ASCE
31 24, § 4.0 {"Coastal High Hazard Areas and Coastal a Zones"} also apply.

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1 (b) *Land below base flood level.*

2 No land below the level of the base flood may be developed unless the new construction
3 or substantial improvement:

- 4 (1) is located landward of the reach of mean high tide;
- 5 (2) is elevated on adequately anchored pilings or columns to resist flotation, collapse,
6 and lateral movement due to the effects of base-flood wind and water loads acting
7 simultaneously on all building components, and the bottom of the lowest
8 horizontal structural members of the lowest floor (excluding the pilings or
9 columns) is elevated to at least the flood-protection elevation;
- 10 (3) has been certified by a licensed professional engineer or professional architect that
11 it is securely anchored to adequately anchored pilings or columns so as to
12 withstand velocity waters and hurricane wave wash and that it will meet the
13 requirements of item (2) of this subsection;
- 14 (4) has no basement and has the space below the lowest floor free of obstructions
15 (which space may not be used for human habitation, but may be used solely for
16 parking, building access, or limited storage) [or] AND is constructed with
17 breakaway walls, as that term is defined in ASCE 24, § 1.2 {"Definitions"} ; and
- 18 (5) does not utilize fill for structural support of structures.

19 (c) *Required showings.*

20 No new development in the Coastal High Hazard Area may be permitted unless the
21 applicant demonstrates that:

- 22 (1) the encroachment into the Coastal High Hazard Area is the minimum necessary;
- 23 (2) the development will withstand, without damage, the wind and water loads
24 attendant a base flood; and
- 25 (3) the development will not create an additional hazard to existing structures.

26 (d) *Existing structures.*

27 An existing nonconforming structure located on land below the level of the base flood
28 may not be expanded, vertically, horizontally, or otherwise, unless:

- 29 (1) the foundation system is certified by a licensed professional engineer or
30 professional architect as capable of supporting the existing structure and the
31 proposed improvements during a base flood; and
- 32 (2) all construction is in full compliance with this and all other applicable laws.

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1 (e) *Manufactured homes or buildings.*

2 The placement of manufactured homes or buildings is strictly prohibited.

3 (f) *Record management.*

4 For all new construction and every substantially improved structure in the Coastal High
5 Hazard Area, the developer must submit and the Floodplain Manager must maintain on
6 file an elevation certificate that certifies the elevation of the bottom of the lowest
7 horizontal structural member of the lowest floor.

8 (g) *Recreational vehicles.*

9 (1) In this subsection, "recreational vehicle" has the meaning stated in § 3-19
10 {"Recreational vehicles"} of this subtitle.

11 (2) In the Coastal High Hazard Area, recreational vehicles are prohibited.

12 **Subtitle 4. Development Permits**

13 **§ 4-1. Permit required.**

14 A Building permit issued by the Building Official under the Baltimore City Building Code:

15 (1) is required for all development in the Floodplain District; and

16 (2) may be granted only after necessary permits from the State Water [Management] &
17 SCIENCE Administration and all other applicable Federal, State, and City agencies
18 have been obtained and verified by the Planning Department.

19 **§ 4-2. Applications.**

20 (a) *From and to whom submitted.*

21 The application for the permit must be submitted by the owner or authorized agent of the
22 owner to the Building Official.

23 (b) *Required information.*

24 The application must contain, in addition to the information otherwise required by the
25 Building Official for a building permit, the following information:

26 (1) the name and address of the applicant;

27 (2) the name and address of the owner of land on which development is proposed;

28 (3) the name and address of the contractor;

29 (4) the site location;

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- 1 (5) a plan of the site showing the size and location of the proposed development, as
2 well as any existing structures;
- 3 (6) plans, drawn to scale, that show the location, dimensions, and NAVD 88 elevation
4 of the site in relation to the stream channel[,] OR shoreline[,] and Floodplain
5 District DELINEATION;
- 6 (7) a summary description of the proposed work and estimated cost; and
- 7 (8) copies of all necessary permits from the State Water [Management] & SCIENCE
8 Administration and all other applicable Federal, State, and City agencies.

9 (c) *Conditional information.*

10 (1) Depending on the type of development or structure involved, the Floodplain Manager
11 may require:

12 (i) that an elevation certificate for the proposed development be submitted with
13 the application; and

14 (ii) that the following information be shown on plans submitted with the
15 application:

16 (A) the size of each proposed structure and the position on the lot where it
17 is to be constructed;

18 (B) the elevations of the proposed final grading and lowest floor and the
19 existing ground and base-flood elevation, as certified by a licensed
20 land surveyor OR PROFESSIONAL ENGINEER; and

21 (C) the method of elevating the proposed structure, including details of
22 proposed fills, pile structures, retaining walls, foundations, erosion
23 protection measures, and the like.

24 (2) These plans must be prepared by a licensed professional engineer or professional
25 architect.

26 (d) *Appraisals for existing structures.*

27 If substantial improvement to an existing structure is proposed, an appraisal must be
28 submitted by a professional real estate appraiser of the fair market value of the existing
29 structure, less land value.

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1 § 4-3. Plans for subdivisions or new development.

2 (a) *Plan drawing required.*

3 (1) Every proposal for the subdivision of land or for new development must include a
4 plan that shows the location of all existing and proposed public and private utilities,
5 facilities, drainage structure, and road access.

6 (2) If the base-flood elevation has been determined by the Flood Insurance Study or other
7 reliable source, as provided in § 2-3 {"Official map"} of this Division I, that flood
8 elevation must be delineated on the plan.

9 (3) If the proposal involves more than 5 lots or more than 5 acres and the base-flood
10 elevation has not been determined for the land area, the developer must determine the
11 base-flood elevation and delineate that flood elevation on the plan. If hydrologic and
12 hydraulic engineering analyses are submitted, they must be certified in accordance
13 with the requirements of the Maryland Department of the Environment and the
14 Federal Emergency Management Agency.

15 (b) *Certification and review.*

16 All plans must be certified by a licensed professional engineer or professional architect
17 and reviewed by the Department of General Services to assure that:

18 (1) all proposals are consistent with the need to minimize flood damage;

19 (2) all necessary permits have been received from the State Water [Management] &
20 SCIENCE Administration and appropriate Federal agencies;

21 (3) all public and private utilities and facilities (including sewer, water, telephone,
22 electric, gas, etc.) are located, constructed, and floodproofed to minimize or
23 eliminate flood damage;

24 (4) adequate drainage is provided to reduce exposure to flood hazards;

25 (5) during a base flood, at least 1 access point provides safe vehicular access to and
26 egress from the subdivision or new development; and

27 (6) adequate measures have been taken to minimize adverse environmental impacts of
28 the proposed development.

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1 **§ 4-4. Conformance to codes required.**

2 A permit may be granted only after it has been determined that the proposed work will be in
3 conformance with the requirements of this and all other applicable laws.

4 **§ 4-5. Alteration of watercourse.**

5 (a) *Notices required.*

6 (1) When the proposed development includes the relocation or alteration of a
7 watercourse, evidence must be presented as part of the permit application that all
8 adjacent communities and the State Water [Management] & SCIENCE Administration
9 have been notified by certified mail and have approved of the proposed alteration or
10 relocation.

11 (2) Copies of these notifications must then be forwarded to the Federal Emergency
12 Management Agency, Federal Insurance Administration.

13 (b) *Assurances of flood-carrying capacity.*

14 In addition, the developer must assure the City, in writing, that the flood-carrying capacity
15 within the altered or relocated portion of the watercourse in question will be preserved.

16 **§ 4-6. Changes to application, permit, etc.**

17 After the issuance of a building permit by the Building Official, no changes of any kind may
18 be made to the application, permit, or any of the plans, specifications, or other documents
19 submitted with the application without the written consent or approval of the Building
20 Official.

21 **§ 4-7. Inspections; permit revocation.**

22 (a) *Inspections by City and State.*

23 (1) During the construction period, the Building Official must inspect the premises to
24 determine that the work is progressing in compliance with the permit and with all
25 applicable laws.

26 (2) The premises are also subject to inspection by the State Water [Management] &
27 SCIENCE Administration.

28 (b) *Revocation of permit.*

29 If the Building Official determines that the work is not in compliance with the permit and
30 all applicable laws or that there has been a false statement or misrepresentation by the
31 applicant, the Building Official, on instruction from the Planning Department, may
32 revoke the permit and report that fact to the State Water [Management] & SCIENCE
33 Administration.

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§ 4-8. Occupancy permit.

An occupancy permit issued by the Building Official:

(1) is required for all new construction and substantial improvements in the Floodplain District; and

(2) may not be issued until the Building Official has been provided with an elevation certificate that certifies the “as-built” elevations of the new construction or substantial improvements. WHEN APPLICABLE, A DRY FLOODPROOFING CERTIFICATE IS ALSO REQUIRED PRIOR TO THE APPROVAL OF THE OCCUPANCY PERMIT.

§ 4-9. Record of permit actions.

(a) *Required.*

A record of all permit actions in the Floodplain District, including all permits from applicable Federal, State, and City agencies, must be maintained by the Planning Department and must be made available on the request of the Federal Emergency Management Agency or the State Water [Management] & SCIENCE Administration during periodic assessments of Baltimore City’s participation in the National Flood Insurance Program.

(b) *Contents.*

This record must include, at a minimum:

(1) the date the permit was issued;

(2) the “as-built” lowest floor elevation of all new construction or substantial improvement;

(3) a copy of all other elevation certificates submitted under this Division I;

(4) the issuance date of any occupancy permit; and

(5) any map amendments issued by the Federal Emergency Management Agency.

Subtitle 5. Floodplain Variances

§ 5-1. In general.

Applications for variances may be considered by the Planning Department, after a review by the City agencies responsible for stormwater management and erosion control, for the following:

(1) functionally dependent uses;

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1 [(2) reconstruction, rehabilitation, or restoration of historic structures as provided in § 5-8
2 {"Historic structures"} of this subtitle;]

3 (2) [(3)] all necessary City utilities in the Floodway or the Coastal High Hazard Area; and

4 (3) [(4)] substantial improvements to an existing structure in the Floodway.

5 **§ 5-2. Prohibited variances.**

6 A variance may not be granted for:

7 (1) the placement of fill in the Floodway or the Coastal High Hazard Area unless
8 approved by appropriate Federal and State agencies;

9 (2) new construction of any principal structure in the Floodway or the Coastal High
10 Hazard Area; or

11 (3) manufactured homes or buildings within the Floodway and Coastal High Hazard
12 Area.

13 **§ 5-3. Considerations; Findings of fact.**

14 (a) *Request for MDE comments.*

15 The Floodplain Manager must:

16 (1) request the NFIP State Coordinator, Maryland Department of the Environment, to
17 comment on variance applications; and

18 (2) submit those comments, when received, to the DIRECTOR OF THE Planning
19 Department.

20 (b) *Factors to consider [- In general].*

21 In considering a variance application, the Planning Department must consider and make
22 findings of fact on all evaluations, [all] relevant factors, and [all] requirements specified
23 in this Division I[.] INCLUDING:
24

25 [(c) *Factors to consider -- Additional factors.*]

26 [In considering a variance application, the Planning Department must also consider and
27 make findings of fact on the following additional factors:]

28 (1) the danger that materials may be swept onto other lands to the injury of others;

29 (2) the danger to life and property due to flooding or erosion damage;

30 (3) the susceptibility of the proposed development and its contents to flood damage
31 and the effect of that damage on the individual owner;

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- 1 (4) the importance of the services to the community provided by the proposed
2 development;
- 3 (5) the availability of alternative locations for the proposed use that are not subject to
4 or are subject to less flooding or erosion damage;
- 5 (6) the need of a waterfront location for the proposed use and whether the proposed
6 use is a functionally dependent use;
- 7 (7) the compatibility of the proposed use with existing and anticipated development;
- 8 (8) the relationship of the proposed use to the comprehensive plan for that area;
- 9 (9) the safety of access to the property in times of flood for passenger vehicles and
10 emergency vehicles;
- 11 (10) expected heights, velocity, duration, rate of rise, and sediment transport of
12 floodwaters and the effects of wave action, if applicable, expected at the site;
- 13 (11) the costs of providing government services during and after flood conditions,
14 including maintenance and repair of public utilities and facilities, such as streets,
15 bridges, and sewer, gas, electrical, and water systems; [and]
- 16 (12) the comments provided by NFIP State Coordinator; AND
- 17 (13) THE INTENT OF ENVIRONMENTAL PROJECTS TAKING PLACE ON PUBLIC LAND,
18 INCLUDING ASSOCIATED BENEFITS AND CO-BENEFITS.

19 **§ 5-4. Limitations on granting variances.**

20 The Planning Department may make an affirmative decision on a variance request only on:

- 21 (1) a showing of good and sufficient cause;
- 22 (2) a determination that failure to grant the variance would result in exceptional hardship
23 due to the physical characteristics of the property (for which determination, increased
24 cost or inconvenience of meeting the requirements of this Division I does not
25 constitute an "exceptional hardship");
- 26 (3) a determination that the granting of a variance for development within a designated
27 floodway, or within a Special Flood Hazard Area with base-flood elevations but no
28 designated floodway, will not result in increased flood heights beyond that which is
29 allowed by this Division I;
- 30 (4) a determination that the granting of a variance will not result in additional threats to
31 public safety, extraordinary public expense, nuisances, fraud or victimization of the
32 public, or conflict with existing local laws;

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1 (5) a determination that the structure or other development is protected by methods to
2 minimize flood damage; and

3 (6) a determination that the variance is the minimum necessary to afford relief,
4 considering the flood hazard.

5 **§ 5-5. Applications.**

6 (a) *In general.*

7 The application for a variance must be submitted to the Planning Department and, to the
8 greatest extent possible, must comply with the provisions of this Division I.

9 (b) *Notices to applicant.*

10 (1) The Planning Department must notify the applicant, in writing:

11 (i) of the increased premium rates for flood insurance; and

12 (ii) that construction below the level of the base flood increases risks to life and
13 property.

14 (2) This notification must be maintained as part of the record required in § 5-7 {"Record
15 of variance actions"} of this Subtitle.

16 **§ 5-6. Agreement not to convert accessory structures.**

17 The owner of any accessory structure for which a variance is granted must sign an agreement
18 that the structure will never be converted to any use other than for parking vehicles or limited
19 storage, AND THE DEED RESTRICTION MUST BE RECORDED WITH LAND RECORDS.

20 **§ 5-7. Record of variance actions.**

21 A record of all variance actions, including the justification for their issuance, must be:

22 (1) maintained by the Planning Department;

23 (2) included in the bi-annual report submitted to the Federal Insurance Administrator; and

24 (3) available on request to the Federal Emergency Management Agency or its authorized
25 agent during periodic assessments of Baltimore City's participation in the National
26 Flood Insurance Program.

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1 **[§ 5-8. Historic structures.]**

2 [A variance may be issued for the reconstruction, rehabilitation, or restoration of an historic
3 structure only if:]

4 [(1) the activity does not cause an increase in the elevation of the base flood;]

5 [(2) all construction efforts are made to meet the intent of the provisions of this Division I
6 that deal with the elevation of electric, plumbing, mechanical, and other facility and
7 utility systems;]

8 [(3) all materials below the flood-protection elevation meet the requirements of this
9 Division I for dry or wet floodproofing; and]

10 [(4) the reconstruction, rehabilitation, restoration, or other activity will not preclude the
11 structure's continued designation as an historic structure.]

12 **§ 5-8. {RESERVED}**

13 **§ 5-9. Notice on deed.**

14 Notice of the flood hazard and the variance action must be placed on the deed that conveys
15 title to land on which construction has occurred under this subtitle.

16 **Subtitle 6. Administration**

17 **§ 6-1. Municipal non-liability.**

18 The granting of a permit or approval is not a representation, guarantee, or warranty of any
19 kind and does not create or impose any liability on the City, its officials, employees, or
20 agents.

21 **§ 6-2. Administrative fees.**

22 (a) *City may impose.*

23 The City may impose additional application fees commensurate with those costs incurred
24 in the processing, review, and evaluation of permit applications for development in the
25 Floodplain District.

26 (b) *Costs included.*

27 The costs covered by the fees may include:

28 (1) consultant fees for certification of as-built condition of structures;

29 (2) Floodplain District and subdistrict delineations;

30 (3) environmental impact characterizations;

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1 (4) staff assignments; and

2 (5) other related costs.

3 **Subtitle 7. Enforcement**

4 **§ 7-1. Compliance required.**

5 (a) *In general.*

6 No structure or other development may be located, erected, constructed, reconstructed,
7 improved, repaired, extended, converted, enlarged, or altered except in full compliance
8 with this Division I and all other applicable Federal, State, and City laws, rules, and
9 regulations.

10 (b) *Noncompliance presumed without documentation.*

11 A structure or other development without the required design certifications, elevation
12 certificates, or other evidence of compliance is presumed to be noncompliant with and in
13 violation of this Division I until the required documentation is provided.

14 (c) *Noncompliant structures as public nuisance.*

15 Any structure or other development that is located, erected, constructed, reconstructed,
16 improved, repaired, extended, converted, enlarged, or altered in violation of this Division
17 I or of any other applicable Federal, State, and City law, rule, or regulation is declared to
18 be a public nuisance and abatable as such.

19 **§ 7-2. {Reserved}**

20 **§ 7-3. Violation notice; Stop work order.**

21 (a) *In general.*

22 If the Floodplain Manager finds that any development or person has failed to comply with
23 or otherwise has violated any provision of this Division I, any provision of a rule or
24 regulation adopted under this Division I, or any term or condition of a permit issued
25 under this Division I, the Floodplain Manager may issue a violation notice and, for
26 ongoing activities, a stop work order to:

27 (1) the person responsible for the violation or that person's authorized agent;

28 (2) the developer or owner of the development or that person's authorized agent; and

29 (3) on-site personnel.

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1 (b) *Service.*

2 The violation notice must be served:

- 3 (1) in person;
- 4 (2) by certified or registered mail; or
- 5 (3) if the identity or whereabouts of the person responsible, developer, or owner is
6 unknown, by posting a copy of the notice in a conspicuous place in or on the
7 property.

8 (c) *Contents.*

9 The violation notice must:

- 10 (1) describe the nature of the violation;
- 11 (2) describe the remedial action needed to correct the violation; and
- 12 (3) specify a reasonable period of time within which to complete the remedial action.

13 **§ 7-4. Enforcement of notice or order.**

14 (a) *In general.*

15 If a violation is not promptly discontinued or abated, or if the violation notice or order is
16 not complied with promptly, the Floodplain Manager may institute or cause to be
17 instituted any appropriate legal proceeding.

18 (b) *Types of proceedings.*

19 Enforcement proceedings may include:

- 20 (1) injunctive or other equity proceedings;
- 21 (2) criminal prosecution, including a prosecution initiated by a prepayable criminal
22 citation under City Code Article 19, § 71-2 {"Prepayable criminal citations"}; and
- 23 (3) administrative proceedings, including one initiated by a prepayable environmental
24 citation under City Code Article 1, § 40-14 {"Violations to which subtitle
25 applies"}.

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1 (c) *Remedies not exclusive.*

2 In pursuing a violation, the Floodplain Manager may use any 1 or more available
3 remedies or enforcement actions. The initiation of any 1 remedy or enforcement action
4 does not preclude pursuing any other remedy or enforcement action authorized by law.
5 Neither damages, irreparable injury, nor the lack of an adequate remedy at law is a
6 prerequisite to enforcement in equity.

7 **Subtitle 8. Administrative and Judicial Review**

8 **§ 8-1. Administrative review – In general.**

9 (a) *Right of appeal and hearing.*

10 Any person aggrieved by the action of the Floodplain Manager or other official charged
11 with the enforcement of this Division I, whether as the result of the disapproval of an
12 application, the issuance of a violation notice, an alleged failure to properly enforce this
13 Division I, or otherwise:

- 14 (1) may appeal the action to the Planning Director; and
15 (2) on timely request, is entitled to a hearing on that appeal.

16 (b) *When and how taken.*

17 The appeal must:

- 18 (1) be in writing;
19 (2) state clearly the grounds on which the appeal is based;
20 (3) if the person aggrieved desires a hearing on the appeal, contain an express
21 statement to that effect; and
22 (4) be filed with the Director within 10 days of the action in dispute.

23 **§ 8-2. Administrative review – Delegation of hearing authority.**

24 (a) *In general.*

25 Hearings may be conducted by:

- 26 (1) the Planning Director; or
27 (2) a hearing officer designated by the Planning Director.

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1 (b) *Scope of delegation.*

2 The Director may delegate to a hearing officer the authority to issue:

- 3 (1) proposed or final findings of fact;
4 (2) proposed or final conclusions of law;
5 (3) proposed or final findings of fact and conclusions of law;
6 (4) proposed or final orders; or
7 (5) the final administrative decision of the Department.

8 **§ 8-3. Administrative review – Conduct of hearing.**

9 (a) *Notice.*

10 (1) The Planning Director must provide all parties reasonable written notice of the
11 hearing.

12 (2) The notice must state:

- 13 (i) the date, time, place, and nature of the hearing;
14 (ii) the right of a party to be represented, at the party's own expense, by an
15 attorney or, if permitted by law, other representative;
16 (iii) the right of a party to call witnesses and submit documents or other evidence
17 under § 8-4 {"Administrative review – Evidence"} of this subtitle; and
18 (iv) that failure to appear for the scheduled hearing may result in an adverse action
19 against the party.

20 (b) *Hearings to be open and informal.*

21 Except as otherwise provided by law or by rule or regulation of the Planning Director, all
22 hearings must be:

- 23 (1) open to the public; and
24 (2) conducted in an orderly but informal manner.

25 **§ 8-4. Administrative review – Evidence.**

26 (a) *In general.*

27 Except as otherwise provided by this section or by rule or regulation of the Planning
28 Director, formal rules of evidence and trial procedures do not apply.

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1 (b) *Right to submit.*

2 On a genuine issue of fact, a party is entitled to:

- 3 (1) call witnesses;
- 4 (2) offer evidence, including rebuttal evidence;
- 5 (3) cross-examine any witness that another party or the Planning Director calls; and
- 6 (4) present summation and argument.

7 (c) *Scope.*

8 The Planning Director or hearing officer:

- 9 (1) may admit probative evidence that reasonable and prudent individuals commonly
10 accept in the conduct of their affairs and give probative effect to that evidence;
- 11 (2) may not exclude evidence solely on the basis that it is hearsay;
- 12 (3) must give effect to a privilege recognized by law;
- 13 (4) may receive documentary evidence in the form of copies or excerpts or through
14 incorporation by reference;
- 15 (5) may take official notice of a fact that is judicially noticeable or that is general,
16 technical, or scientific and within the specialized knowledge of the Planning
17 Department; and
- 18 (6) may exclude evidence that is:
- 19 (i) incompetent;
- 20 (ii) irrelevant;
- 21 (iii) immaterial; or
- 22 (iv) unduly repetitious.

23 **§ 8-5. Administrative review – Final decisions.**

24 (a) *Form and contents.*

25 A final decision must:

- 26 (1) be in writing; and
- 27 (2) contain separate statements of:

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- 1 (i) the findings of fact;
- 2 (ii) the conclusions of law; and
- 3 (iii) the decision or order.

4 (b) *Distribution.*

5 A copy of the final decision must be mailed or delivered to each party or that party's
6 attorney of record.

7 [~~§ 8-6. {Reserved}~~]

8 **§ 8-6. ADMINISTRATIVE APPEALS.**

9 (A) *APPEAL TO COMMISSION.*

10 AN APPLICANT WHO IS AGGRIEVED BY THE FINAL SITE PLAN DECISION OF THE DIRECTOR
11 OF PLANNING MAY APPEAL THAT DECISION TO THE PLANNING COMMISSION.

12 (B) *WHEN FILED.*

13 APPEALS MUST BE FILED WITHIN 30 DAYS OF THE PLANNING DIRECTOR'S FINAL DECISION
14 AS SPECIFIED IN § 8-5 {"ADMINISTRATIVE REVIEW- FINAL DECISIONS"} OF THIS SUBTITLE.

15 (C) *HEARING.*

16 THE PLANNING COMMISSION MUST REVIEW THE DIRECTOR'S DECISION AT A PUBLIC
17 HEARING HELD WITHIN 45 DAYS OF RECEIVING THE APPEAL.

18 **§ 8-7. Judicial and appellate review.**

19 (a) *Judicial review.*

20 A party aggrieved by a final decision of the Planning Department under this Division I
21 may seek judicial review of that decision by petition to the Circuit Court for Baltimore
22 City in accordance with the Maryland Rules of Procedure.

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1 (b) *Appellate review.*

2 A party to the judicial review may appeal the court's final judgment to the Court of
3 Special Appeals in accordance with the Maryland Rules of Procedure.

4 **Subtitle 9. Penalties.**

5 **§ 9-1. In general.**

6 Any person who violates or fails to comply with any provision of this Division I, any
7 provision of a rule or regulation adopted under this Division I, or any term or condition of a
8 permit issued under this Division I is guilty of a misdemeanor and, on conviction, is subject
9 to a fine of not more than \$500 for each violation.

10 **§ 9-2. DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT TO ENFORCE.**

11 THIS DIVISION I MAY BE ENFORCED BY THE DEPARTMENT OF HOUSING AND COMMUNITY
12 DEVELOPMENT IN THE MANNER PROVIDED IN § 104 {"DUTIES AND POWERS OF BUILDING
13 OFFICIAL"} OF THE BALTIMORE CITY BUILDING CODE.

14 **§ 9-3 [9-2]. Each day a separate offense.**

15 (a) *In general.*

16 Every day that a violation continues is a separate offense.

17 (b) *Prima facie proof of continuation.*

18 Proof that a violation exists on any date that follows the issuance of a violation notice
19 constitutes prima facie evidence that the violation has continued throughout the
20 intervening period of time.

21 **§ 9-4 [9-3]. Penalty no substitute for remediation.**

22 (a) *In general.*

23 The imposition of a fine or penalty for a violation or noncompliance does not excuse the
24 violation or noncompliance nor permit it to continue.

25 (b) *Remediation still required.*

26 All offenders are required to correct or remedy the violation or noncompliance within a
27 reasonable time.

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Baltimore City Code

Article 32. Zoning

Title 4. Development Reviews

Subtitle 2. Site Plan Review

§ 4-203. Applicability.

Site plan review is required for the following types of development applications:

- (1) new construction that involves any of the following:
 - (i) any proposed development over 15,000 square feet of gross floor area;
 - (ii) developments with multiple structures on a single lot, excluding accessory structures; and
 - (iii) all multi-tenant commercial development, including mixed-use development;
- (2) subdivision of land;
- (3) additions or structural alterations to an existing structure, other than a single-family detached or semi-detached dwelling, that results in a 50% increase in gross floor area over the gross floor area of the existing structure prior to the addition or alteration;
- (4) planned unit development;
- (5) conditional use, unless the conditional use can and will be fully contained within an existing structure;
- (6) parking lot or structures containing 5 or more motor vehicle parking spaces;
- (7) any development within an environmentally sensitive area, including projects in a [100-year floodplain] FLOODPLAIN DISTRICT and projects within the Buffer of the Critical Area (*See* Subtitle 3 {"Environmentally Sensitive Areas Review"} of this title);
- (8) urban agriculture or community-managed open-space farm; and
- (9) any development within the C-5-IH Subdistrict.

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1 Title 7. Open-Space and Environmental Districts

2 Subtitle 3. Floodplain Overlay Zoning District

3 § 7-301. Definitions.

4 (a) *In general.*

5 In this subtitle, the following terms have the meanings indicated.

6
7 (b) *Floodplain.*

8 "Floodplain" has the meaning stated in City Code Article 7 {"Natural Resources"}, § 1-
9 2(v) {"Definitions: Floodplain"}.

10 (c) *Floodplain maps.*

11 "Floodplain maps" means the series of maps and profiles known as the Flood Insurance
12 Rate Maps and Flood Insurance Study for the City of Baltimore, dated [February 2, 2012]
13 JUNE 16, 2021, as prepared, revised, or amended from time to time for the Federal
14 Emergency Management Agency, Flood Insurance Administrator in accordance with City
15 Code Article 7, Division I {"Floodplain Management"}.

16 (d) *Floodplain Overlay Zoning District; FLOODPLAIN DISTRICT; Overlay District.*

17 "Floodplain Overlay Zoning District", "FLOODPLAIN DISTRICT", or "Overlay District"
18 means all areas shown as floodplains on the floodplain maps.

19 ~~§ 7-304. Use regulations:~~

20 ~~(b) *Floodway.*~~

21 ~~The only uses allowed in the Floodway are the following recreational facilities, but not~~
22 ~~including accessory buildings:~~

23 ~~(1) athletic fields; AND~~

24 ~~{(2) golf courses; and}~~

25 ~~(2) {(3)} parks.~~

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Baltimore City Revised Code

Article – Building, Fire, and Related Codes

Part II. International Building Code

§ 2-103. City modifications.

The additions, deletions, amendments, and other modifications adopted by the City are as follows:

Chapter 1. Scope and Administration

Section 107 Submittal Documents

107.2.1 General requirements. The site plan must:

1. show to scale the size and location of new construction and existing structures on the site, distances from lot lines, the established street grades, and the proposed finished grades,
2. show, as applicable, Regulated Flood Hazard Areas, Floodways, and [design flood elevations] FLOOD PROTECTION ELEVATIONS,
3. be drawn in accordance with an accurate boundary line survey, and
4. comport with all other requirements of this section.

Section 110 Inspections

110.3.3 Lowest floor elevation. In a flood hazard area, on placement of the lowest floor [, including the basement,] and before undertaking any further vertical construction, the elevation certificate required by the Floodplain Management Code must be submitted to the Building Official.

Chapter 16. Structural Design

Section 1603 Construction Documents

1603.1.7 Flood design data. For structures located in whole or in part in a flood hazard area, the documentation pertaining to design, if required by the Floodplain Management Code, must be included, and the following information, referenced to the datum on the City's Flood Insurance Rate Map (FIRM), must be shown, regardless of whether flood loads govern the design of the structure:

1. In flood hazard areas not subject to high-velocity wave action, the elevation of the proposed lowest floor[, including the basement].

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- 2. In flood hazard areas not subject to high-velocity wave action, the elevation to which any nonresidential building will be dry floodproofed.
- 3. In flood hazard areas subject to high-velocity wave action, the proposed elevation of the bottom of the lowest horizontal structural member of the lowest floor, including the basement.
- 4. Any other documentation required by the Flood Management Code.

Part X. International Residential Code

§ 10-102. City modifications.

The additions, deletions, amendments, and other modifications adopted by the City are as follows:

Chapter 1. Scope and Administration

SECTION 109 INSPECTIONS

109.1.3 Floodplain inspections. For construction in a flood hazard area, placement of the lowest floor [, including the basement,] and before undertaking any further vertical construction, the elevation certificate required by the Floodplain Management Code must be submitted to the Building Official.

**Table 301.2(1)
Climatic and Geographic Design Criteria**

Ground Snow Load	Wind Speed	Wind Topographic Effects	SPECIAL WIND REGION	WIND-BORNE DEBRIS ZONE	Seismic Design Category
30 psf	90 mph	No	No	No	B

Weathering	Frost Line Depth	Termite
Severe	30" (762 mm)	Moderate to Heavy [Decay: Slight to Moderate]

Winter Design Temp	Ice Barrier Underlayment Required	Air Freezing Index	Mean Annual Temp
13° F	No	231	57° F

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Flood Hazards	
a. Entry into National Flood Insurance Program: 3/15/78. Updated Code: [4/2/14] 6/16/2021.	
b. Flood Insurance Study: Revised [4/2/14] 6/16/2021.	
c. Panel numbers and dates of currently effective FIRMs:	
<u>Panels</u>	<u>Ef fective Date</u>
0001 [E] F - 0005 [E] F	6/16/2021 [2/2/12]
0008 [E] F - 0016 [E] F	6/16/2021 [2/2/12]
0018 [F] G [- 0019 F]	6/16/2021 [4/2/14]
0019 F	4/2/14
0020 [E] F - 0023 [E] F	6/16/2021 [2/2/12]
0024 G - 0025 G	6/16/2021
{0024} 0026 F - [0036] 0028 F	4/2/14
0030 G	6/16/2021
0031 F - 0033 F	4/2/14
0035 F	4/2/14
0036 G	6/16/2021

SECTION 3. AND BE IT FURTHER ORDAINED, That the catchlines contained in this Ordinance are not law and may not be considered to have been enacted as a part of this or any prior Ordinance.

SECTION 4. AND BE IT FURTHER ORDAINED, That:

- (a) this Ordinance applies to all development for which a permit application is filed (or required to be filed) on or after the effective date of this Ordinance;
- (b) except as expressly provided to the contrary in this Ordinance, any transaction, case, proceeding, investigation, or other matter validly begun before the effective date of this Ordinance and affected by or flowing from any law amended or repealed by this Ordinance, and any right, duty, or interest flowing from any ordinance amended or repealed by this Ordinance, remains valid after the effective date of this Ordinance and may be terminated, completed, enforced, or prosecuted as required or permitted by the prior law as though the amendment or repeal has not occurred; and
- (c) if any change in nomenclature involves a change in name or designation of any City agency or official, the successor agency or official has all the powers and obligations granted the predecessor agency or official.

SECTION 5. AND BE IT FURTHER ORDAINED, That this Ordinance takes effect on the date it is enacted.

Council Bill 21-0040

Certified as duly passed this 17 day of May, 2021



President, Baltimore City Council

Certified as duly delivered to His Honor, the Mayor,

this 17 day of May, 2021

Katarina B. Austin

Chief Clerk

Approved this 21 day of May, 2021



Mayor, Baltimore City

Approved for form and legal sufficiency
This 21st day of May, 2021.

Elena R DiPietro

Chief Solicitor

ATRUE COPY
Henry Raymond
Director of Finance