

Article 25A

COASTAL FLOOD RESILIENCE Overlay District

Table of Contents

Section 25A-1	Purposes, Goals, and Objectives
Section 25A-2	Definitions
Section 25A-3	Establishment of Coastal Flood Resilience Overlay District (CFROD) <ol style="list-style-type: none">1. Physical Boundaries2. Warning and Disclaimer of Liability3. Interpretation of Boundaries; Appeal
Section 25A-4	Applicability <ol style="list-style-type: none">1. Projects Subject to CFROD2. Projects Exempt from CFROD3. Election to Comply with CFROD
Section 25A-5	Zoning Regulations in Effect; Conflict Provisions <ol style="list-style-type: none">1. CFROD Zoning2. Relationship to Underlying Zoning3. Relationship to PDAs and Institutional Master Plans4. Relationship to Municipal Harbor Plans and Designated Port Areas
Section 25A-6	Use and Dimensional Regulations <ol style="list-style-type: none">1. Regulations for All Uses and Structures2. Regulations for Projects Subject to Resilience Review3. Special Provisions for Historic Structures

Section 25A-7

Resilience Review

1. Applicability of Review
2. Procedure
3. Standards: Coastal Flood Resilient Design
Principles and Guidelines

Section 25A-8

Regulations

Section 25A-9

Enforcement

Section 25A-10

Severability

Section 25A-11

Appendices

- A. Map
- B. Definitions

SECTION 25A-1 STATEMENT OF PURPOSES, GOALS, AND OBJECTIVES

The purposes of this Article are to protect persons and structures from the adverse effects of sea level rise and storm surge associated with climate change by:

- promoting resilient planning and design;
- providing consistent standards for the review of projects;
- maximizing the benefits of long-lived investments in coastal resilience;
- promoting the co-benefits of sustainable designs that address multiple climate impacts;
- advancing adaptation strategies that are future-looking and draw on best practices for long-term resilience; and
- encouraging design that responds to the unique conditions of Boston's building types, advancing resilience for individual buildings, district-scale resilience plans, and enhancing the public realm.

This Article conforms to the general plan for the City of Boston, as expressed in *Imagine Boston 2030*, *Climate Ready Boston*, and related plans. The Zoning Commission hereby recognizes the parts of the City's general plan that address the geographic areas governed by this Article, together with the parts that address coastal flood resilience, as the plan for the Coastal Flood Resilience Overlay District.

SECTION 25A-2 DEFINITIONS

For the purposes of this Article 25A only, words and phrases defined in Appendix B hereto shall have the meanings indicated in that Appendix, notwithstanding any contrary provision of the Underlying Zoning.

SECTION 25A-3 ESTABLISHMENT OF COASTAL FLOOD RESILIENCE OVERLAY DISTRICT (CFROD)

1. Physical Boundaries. The geographic areas and zoning districts shown on Appendix A (Coastal Flood Resilience Overlay District) are subject to the provisions of this Article 25A.

2. Warning and Disclaimer of Liability. The degree of flood protection and resilience design required by this Article 25A is based on current scientific and engineering considerations and best resilience practices. Larger and more frequent floods may occur. This Article 25A does not imply that areas or structures in compliance with the requirements and guidelines of this Article will be free from flooding or flood damage. This Article shall not create liability on the part of the City of Boston or any officer or employee thereof for any flood damage that may result from reliance on this Article 25A, or from any administrative decision lawfully made thereunder.

3. Interpretation of Boundaries; Appeal. The Building Commissioner shall make interpretations, where needed, as to the exact boundaries of a Coastal Flood Resilience Overlay District. If the sea level rise or storm surge flood hazard information on which the boundaries of a CFROD are based does not reflect actual site conditions in relation to the Sea Level Rise – Base Flood Elevation, the Commissioner may determine that a location is within or outside the CFROD, based on actual elevations provided by a registered professional surveyor or registered professional engineer. The Commissioner’s determination may be appealed to the Board of Appeal under the provisions of Section 5-2 (Procedure for Appeal) of this Code.

SECTION 25A-4 APPLICABILITY

1. Projects Subject to CFROD. Within the CFROD, this Article 25A applies to the following Proposed Projects:

- (a) Addition of Gross Floor Area. Any Proposed Project:
 - (i) outside the Harborpark, for the erection or extension of one or more buildings that results in the addition of an aggregate gross floor area of twenty thousand (20,000) or more square feet; or
 - (ii) within the Harborpark, for the erection or extension of ten thousand (10,000) or more square feet.
- (b) Addition of Dwelling Units. Any Proposed Project for the construction of fifteen (15) or more Dwelling Units (but not including rehabilitation or alteration projects unless they result in a net increase of fifteen (15) or more Dwelling Units).
- (c) Establishment or Change of Use. Any Proposed Project:
 - (i) outside the Downtown, to establish or change the uses of a gross floor area of fifty thousand (50,000) or more square feet; or

- (ii) within the Downtown, to establish or change to allowed uses the uses of a gross floor area of one hundred thousand (100,000) or more square feet, or to establish or change to conditional or forbidden uses, or to any High Impact Subuse of an Institutional Use, the uses of a gross floor area of fifty thousand (50,000) or more square feet.
- (d) Substantial Rehabilitation. Any Proposed Project to substantially rehabilitate a building or structure having, or to have after rehabilitation, a gross floor area of one hundred thousand (100,000) or more square feet.

2. Projects Exempt from CFROD. Notwithstanding any contrary provision of this Section 25A-4, the following Proposed Projects are exempt from the provisions of this Article, and are governed by the rest of this Code:

- (a) Prior Application for Permit. Any Proposed Project for which application to the Inspectional Services Department for a building or use permit has been made prior to the first notice of hearing before the Zoning Commission for adoption of this Article, and for which no Zoning Relief is required.
- (b) Prior Appeal for Zoning Relief. Any Proposed Project for which appeal to the Board of Appeal for any Zoning Relief has been made prior to the first notice of hearing before the Zoning Commission for adoption of this Article, provided that such Zoning Relief has been or thereafter is granted by the Board of Appeal pursuant to such appeal.

3. Election to Comply with CFROD. An applicant for a building or use permit for a Proposed Project within a CFROD may elect in its application to comply with the provisions of this Article 25A, in which event the Proposed Project shall be governed by the provisions of this Article, notwithstanding any contrary provision of this Section 25A-4 (Applicability).

SECTION 25A-5 ZONING REGULATIONS IN EFFECT; CONFLICT PROVISIONS

1. CFROD Zoning. This Article 25A together with the rest of this Code constitutes the zoning regulation for the Coastal Flood Resilience Overlay District (CFROD) and applies as specified in Section 4-1 of the Code regarding the conformity of buildings and land to this Code.

2. Relationship to Underlying Zoning. A Coastal Flood Resilience Overlay District constitutes a special purpose overlay district pursuant Section 3-1A(p) of this Code. The provisions of the Underlying Zoning, as they may be amended from time to time, continue to apply, except as expressly superseded by this

Article 25A. Where conflicts exist between this Article 25A and the remainder of this Code, the more restrictive provision shall govern.

3. Relationship to Planned Development Areas and Institutional Master Plans. Notwithstanding any contrary provision of any Planned Development Area, PDA master plan, or Institutional Master Plan, where conflicts exist between this Article 25A and provisions of a Planned Development Area, PDA master plan, or Institutional Master Plan, the more restrictive provision shall govern.

4. Relationship to Municipal Harbor Plans and Designated Port Areas Under M.G.L. Chapter 91. Portions of the Coastal Flood Resilience Overlay District depicted in Appendix A hereto are subject to Municipal Harbor Plans (MHPs) and Designated Port Areas (DPAs), approved under Massachusetts General Laws, chapter 91. Where conflicts exist between this Article 25A and an MHP or DPA, the provisions of the applicable MHP or DPA shall govern, except where otherwise stated in the MHP or DPA.

SECTION 25A-6 USE AND DIMENSIONAL REGULATIONS

1. Regulations for All Uses and Structures. The provisions of this Section 25A-6.1 apply to any Proposed Project that is subject to, or elects to comply with, the provisions of the CFROD.

(a) Minimum Sea Level Rise – Design Flood Elevation. The Sea Level Rise – Design Flood Elevation (SLR-DFE) shall be no lower than the following distance above the Sea Level Rise – Base Flood Elevation (SLR-BFE):

- i. In a FEMA (Coastal A), (V), or (VE) zone: two (2) feet.
- ii. In areas not within a FEMA (Coastal A), (V), or (VE) zone:
 - where any part of the lowest occupiable floor is used for a Residential Use, Essential Facility, or High Risk Structure as defined in the Massachusetts State Building Code, 780 CMR, as amended: two (2) feet;
 - otherwise: one (1) foot.

- (b) Limitation on Residential Uses Below Minimum Sea Level Rise – Design Flood Elevation. Except for accessory uses allowed by this subsection 6.1(b), Residential Uses are Forbidden below the minimum SLR-DFE. The following uses accessory to a Residential Use are Allowed below the minimum SLR-DFE:

- access and vertical circulation (including lobbies, stairs, and similar spaces);
- Flood Protection Equipment;
- storage;
- parking.

2. Regulations for Proposed Projects Subject to Resilience Review.

Notwithstanding any contrary provision of the Underlying Zoning, the following regulations apply to any Proposed Project that is subject to, or has elected to comply with, Resilience review under Section 25A-7 (Resilience Review).

- (a) Building Height. Building Height shall be measured from the higher of: (a) Grade, or (b) two (2) feet above the Sea Level Rise – Base Flood Elevation (SLR-BFE).
- (b) Gross Floor Area. In addition to areas excluded by the Underlying Zoning, the following shall be excluded from the measurement of Gross Floor Area:
- i. areas devoted to interior vertical circulation from Grade to the Sea Level Rise – Design Flood Elevation (SLR-DFE);
 - ii. areas devoted to Flood Protection Equipment; and
 - iii. in a Proposed Project renovating an existing structure, mechanical equipment and utility systems relocated from below the SLR-DFE.
- (c) Lot coverage; required open space. The following areas shall be excluded from the measurement of required usable open space on a lot:
- i. areas used for vertical circulation from Grade to the required SLR-DFE; and
 - ii. Flood Protection Equipment, and structures housing mechanical equipment and utility systems, above the required SLR-DFE.
- (d) Front, Rear, and Side Yards. The following may be located within required setbacks:

- i. *in Front, Rear, and Side Yards*: areas used for vertical circulation from Grade to the required SLR-DFE; and
- ii. *in Rear and Side Yards*: Flood Protection Equipment, and structures housing mechanical equipment, above the required SLR-DFE.

(e) Primary Entrance. A building's primary entrance may be located on a side street or in a Side Yard.

3. Special Provisions for Historic Structures. If a structure, or the district in which it is located, is listed in the National Register of Historic Places, or has been designated by the Boston Landmarks Commission under Chapter 772 of the Acts of 1975 (An Act Establishing the Boston Landmarks Commission), the Board of Appeal, after due notice and hearing, may grant a variance from the provisions of this Article for the reconstruction or restoration of that structure.

SECTION 25A-7. RESILIENCE REVIEW

1. Applicability of Resilience Review. Resilience review is required for any Proposed Project that is subject to, or elects to comply with, this Article 25A (under Section 25A-4, Applicability).

2. Procedure. The Resilience review required by this Section 25A-7 consists of the Resilience component of either Large Project Review or Small Project Review under Article 80.

If a Proposed Project is not subject to Large Project Review (under Section 80B-2), the Boston Redevelopment Authority shall conduct Resilience review under the Resilience component of Small Project Review.

3. Resilience Review Standards. A Proposed Project that is subject to Resilience review shall be consistent with the principles set forth in Section 25A-7.4 (Coastal Flood Resilience Design Principles). To determine consistency with those principles, the Boston Redevelopment Authority shall review the Proposed Project under the *Coastal Flood Resilience Design Guidelines* (identified in Section 25A-2 – Definitions).

4. Coastal Flood Resilience Design Principles.

(a) Resilience

- Proposed designs and renovations should incorporate best practices and standards to reduce or eliminate coastal flood risk or damage resulting from future climate conditions.
- In considering coastal flood risk or damage, the Boston Redevelopment Authority shall use the most recent flood hazard modeling and mapping data specified in the Coastal Flood Resilience Design Guidelines.

(b) Urban Design and Public Realm

- To the greatest extent possible, resilience measures should be designed to support pedestrian connections and enhance the character of the public realm within the CFROD.
- Resilience measures should be designed to maintain access and egress between a building and the public realm during flood conditions for people of all abilities.

(c) Relationship to District-Scale Resilience Solutions

- To the extent feasible, enhancements at an individual parcel or project level should support the goals and implementation of plans for coastal resilience throughout the CFROD.
- Enhancements at an individual parcel or project level should not worsen risk at adjacent parcels or restrict future implementation of larger coastal resilience plans for the CFROD.

(d) Sustainability Co-Benefits

- Wherever feasible, proposed flood resilience upgrades should also enhance a building's energy efficiency, greenhouse gas reduction potential, and passive survivability.
- Site improvements should improve stormwater retention and infiltration and reduce heat island effects, through the use of vegetation and permeable surfaces.

SECTION 25A-8 REGULATIONS

The Boston Redevelopment Authority may promulgate, and amend from time to time, regulations to administer this Article 25A.

SECTION 25A-9 ENFORCEMENT

The Commissioner of Inspectional Services shall not issue any building or use permit for a Proposed Project that is subject to, but fails to comply with, the provisions of this Article 25A.

SECTION 25A-10 SEVERABILITY

The provisions of this Article 25A are severable, and if any provision or provisions of this Article are held invalid by a decision of any court of competent jurisdiction, such decision shall not impair or otherwise affect any other provision of this Article 25A.

SECTION 25A-11 APPENDICES

The following appendices are made part of this Article 25A:

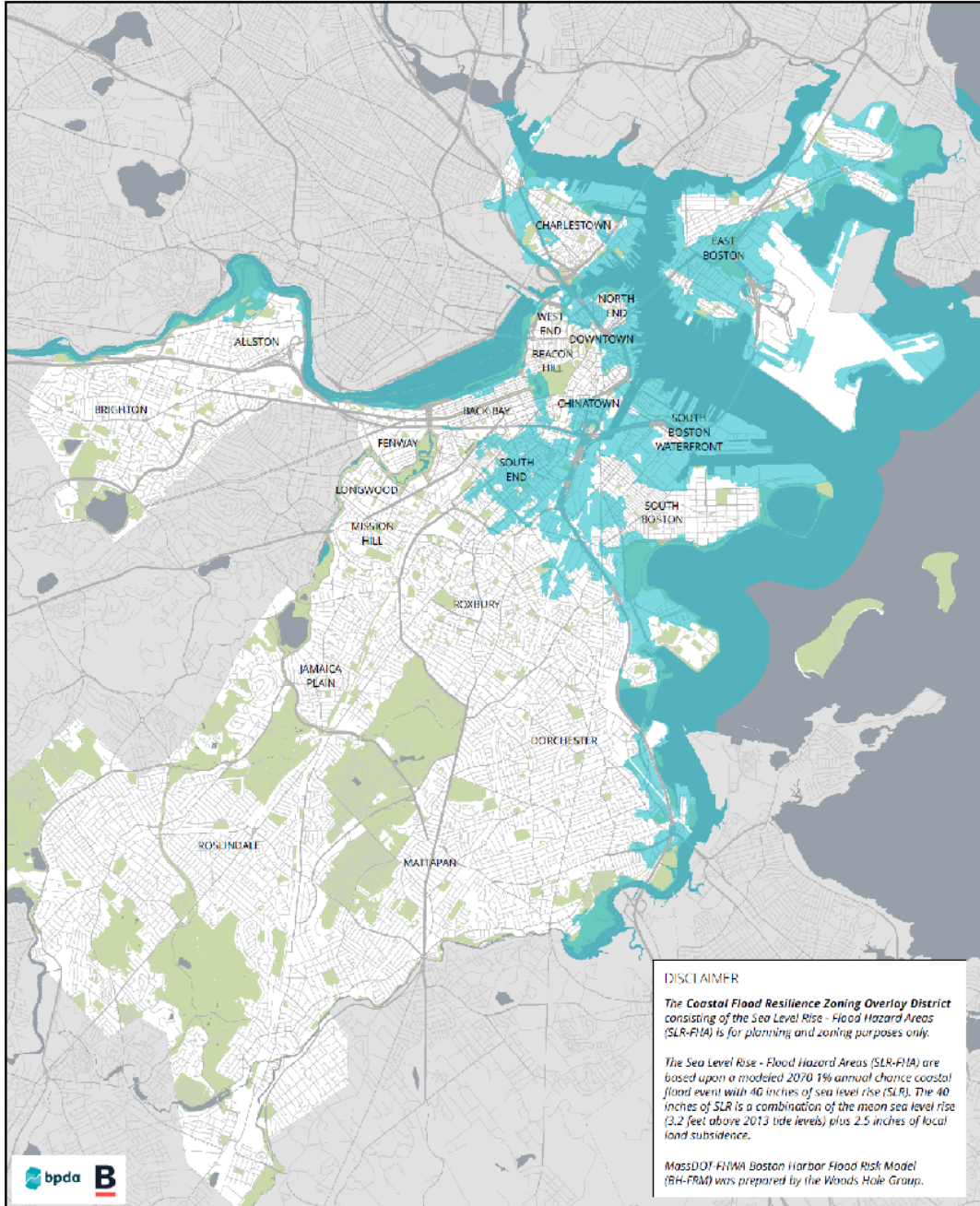
- Appendix A – Map: Coastal Flood Resilience Overlay District (CFROD)
- Appendix B – Definitions

APPENDIX A

Coastal Flood Resilience Overlay District

Map

Coastal Flood Resilience Zoning Overlay District



APPENDIX B

Coastal Flood Resilience Overlay District

Definitions

- **Coastal Flood Resilience Design Guidelines** – The Boston Redevelopment Authority’s Coastal Flood Resilience Design Guidelines, adopted in September 2019, as they may be modified by the Authority from time to time.
- **Downtown** – shall have the meaning given in Article 2A (Definitions Applicable in Neighborhood Districts and in Article 80, Development Review and Approval).
- **FEMA zones Coastal A, V, VE** – Areas designated as “Coastal A” “V” or “VE” zones on the Suffolk County Flood Insurance Rate Map (FIRM) issued by the Federal Emergency Management Agency (FEMA) for the administration of the National Flood Insurance Program. (These zones indicate coastal areas identified by FEMA as having a 1% or greater chance of flooding and an additional hazard associated with storm waves.)
- **Flood Protection Equipment** – Equipment used to prevent or minimize water infiltration or flood damage. This type of equipment may include, but is not limited to, permanent or deployable flood walls and retention tanks for stormwater or floodwater.
- **Freeboard** – The distance between the Sea Level Rise – Base Flood Elevation (SLR-BFE) and the Sea Level Rise – Design Flood Elevation (SLR-DFE).
- **Harborpark** – shall have the meaning given in Article 2A (Definitions Applicable in Neighborhood Districts and in Article 80, Development Review and Approval).
- **Institutional Master Plan, Institutional Use, and High Impact Subuse** – shall have the meanings given in Article 2A (Definitions Applicable in Neighborhood Districts and in Article 80, Development Review and Approval).
- **Proposed Project** – the erection, extension, rehabilitation, alteration, or substantial demolition of any structure or part thereof, or the change of use of any structure or land, for which the Applicant is required to obtain a building or use permit.

- **Sea Level Rise – Base Flood Elevation (SLR-BFE)** – The top of the water elevation predicted by the coastal flood risk scenario specified in the Coastal Flood Resilience Design Guidelines. (*See Coastal Flood Resilience Design Guidelines definition of Sea Level Rise – Base Flood Elevation (SLR-BFE).*) The SLR-BFE is separated from the SLR-DFE by the Freeboard.
- **Sea Level Rise – Design Flood Elevation (SLR-DFE)** – The minimum elevation of the lowest occupiable floor for residential uses, or of dry flood-proofing for non-residential uses. (The SLR-DFE is separated from the SLR-BFE by the Freeboard.)
- **Substantially Rehabilitate** – to cause alterations or repairs to be made to a structure or structures within any period of twelve (12) months, if such alterations or repairs cost more than fifty percent (50%) of the physical value of the structure or structures. Physical value shall be based on the assessed value, as recorded on the assessment rolls of the City as of the January 1 preceding the date of the filing of an application for a building permit with the Inspectional Services Department.
- **Underlying Zoning** – The zoning regulations that are otherwise applicable to a Proposed Project or site within the CFROD, including the regulations of any other overlay districts as set forth in this Code, without regard to the provisions of any applicable PDA Development Plan, PDA Master Plan, or Institutional Master Plan.
- **Zoning Relief** – any zoning variance, exception, conditional use permit, or zoning map or text change, or any other relief granted by the Zoning Commission or the Board of Appeal.