

CODE COMPARISON

NYC Building Code 2014 & 2022

PREPARED BY DATE

Metropolis Technical Affairs Department July 26, 2022



2014/2022 NYC BUILDING CODE COMPARISON

Starting November 7, 2022 all new buildings and many alterations will be required to comply with the 2022 NYC Building code. In order to assist the design and development community in understanding what implications the updated code may have on current and future projects, Metropolis has developed the enclosed comparison chart. We have separated our analysis in line with the individual chapters contained in the NYC construction code. The chart lists a 2014 code section with it's corresponding 2022 section next to it. The final column in the chart provides a brief commentary summarizing the substance of any change that occurs in that section. Note that to create a more useful and readable document we have omitted all sections that did not change or had only clerical changes (ex. referenced code sections where the section numbers changed).

Note that we have also color-coded certain sections that we believe represent significant code changes that can have a major effect on certain building types (see example below). Of course, code compliance and the impact that compliance can have on building design is always project specific and the professional must decide for themselves the significance of all code changes.

Example:

903.2.1.6 Assembly occupancies on roofs. Where an occupied roof has an assembly occupancy with an occupant load exceeding 100 for Group A-2 and 300 for other Group A occupancies, all floors between the occupied



Metropolis Technical Affairs Department | July 26, 2022



APPENDIX G

Flood-Resistant Construction



PREPARED BY DATE

Metropolis Technical Affairs Department July 26, 2022

2014/2022 Building Code Comparison, Appendix G

Flood-Resistant Construction

2014 Building Code	2022 Building Code	Comments
BC G101 – PURPOSE AND OBJECTIVES		
G101.3 Reserved.	G101.3 Referenced standards. Where this code makes reference to the nationally	Clarification
	recognized standard ASCE 24, such standard shall be as modified for New York City in	
	accordance with Section G501 of this appendix.	
BC G102 - APPLICABILITY		
G102.1 General.	G102.1 General.	Significant restrictions have been
10. Other alterations to pre-FIRM construction. This	10. Other alterations to pre-FIRM construction. This appendix shall apply to [alterations	added related to residential
appendix shall apply to alterations or repairs to pre-FIRM	or repairs] repair, alteration, reconstruction, rehabilitation, or additions to pre-FIRM	occupancies 10.0.
buildings and structures, including installation of new	buildings and structures [, including installation of new components, materials, finishes	Items 10.2 & 10.3 have been
components, materials, finishes and equipment, that increase	and equipment, that increase the degree of noncompliance with this appendix]. No	combined and clarified.
the degree of noncompliance with this appendix. The	increase in the degree of noncompliance with this appendix shall be permitted. The	
following alterations or repairs, other than substantial	requirements of this Item 10 shall be deemed satisfied if the work would not increase	
improvements, shall not be deemed as an increase in the	the degree of noncompliance with this appendix.	
degree of noncompliance:	10.1. Work that increases the degree of noncompliance. Work to pre-FIRM construction	
10.1. Where the alteration or repair comprises the	deemed as an increase in the degree of noncompliance includes, but is not limited to:	
replacement of pre-FIRM components, materials, finishes	10.1.1. The conversion of any space below the design flood elevation from nonhabitable	
or equipment;	space into habitable space;	
10.2. Where the alteration or repair comprises the installation	10.1.2. The creation of a direct communication between a dwelling unit and a space	
of new components, materials, finishes or equipment in a	below the design flood elevation;	
space within the structure where similar pre-FIRM	<u>10.1.3. Where a dwelling unit already has space below the design flood elevation or has</u>	
components, materials, finishes or equipment already exist;	space with which the dwelling unit directly communicates that is below the design flood	
and	elevation, an increase in such space;	
10.3. Where such alteration is a change in use, occupancy or	10.1.4. The conversion of any space below the design flood elevation in a non-residential	
how such space is used, provided that such change would not	building (for flood zone purposes) to accessory (as such term is defined in NYC ZR) to a	
increase the degree of noncompliance with requirements of	group R-1, R-2, or R-3 occupancy, when such space was not previously accessory to such	
this appendix. The conversion of any space below the design	occupancy;	
flood elevation from nonhabitable space into habitable space	10.1.5. The installation of new components, materials, finishes, plumbing fixtures and	
shall be deemed an increase in the degree of noncompliance.	equipment below the design flood elevation that are not permitted by this appendix to	
	be located below the design flood elevation, where such similar items did not previously	
	exist, except for new components, materials, finishes, and equipment as permitted by	
	<u>Item 10.2.2;</u>	

10.1.6. The lowering of the elevation of a floor of a basement (for flood zone purposes),	
or a portion thereof located below the design flood elevation, except as permitted by	
<u>Item 10.2.4;</u>	
10.1.7. An alteration consisting of a change in use, occupancy or how such space is used	
in a building, or portion thereof, that results in a more restrictive flood design class per	
ASCE 24; and	
10.1.8. Any condition not addressed in Items 10.1.1 through 10.1.7 as determined by the	
commissioner.	
10.2. Work that does not increase the degree of noncompliance. The following	
[alterations or repairs] work to pre-FIRM construction, other than substantial	
improvements, shall not be deemed as an increase in the degree of noncompliance:	
[10.1. Where the alteration or repair comprises the replacement of pre-FIRM	
components, materials, finishes or equipment;]	
[10.2. Where the alteration or repair comprises the installation of new components,	
materials, finishes or equipment in a space within the structure where similar pre-FIRM	
components, materials, finishes or equipment already exist; and]	
[10.3. Where such alteration is a change in use, occupancy or how such space is used,	
provided that such change would not increase the degree of noncompliance with	
requirements of this appendix. The conversion of any space below the design flood	
elevation from nonhabitable space into habitable space shall be deemed an increase in	
the degree of noncompliance.]	
10.2.1. Plumbing fixtures:	
<u>10.2.1.1. The in-kind replacement of plumbing fixtures below the design flood elevation;</u>	
and	
10.2.1.2. The installation of new plumbing fixtures in a space within the structure where	
similar plumbing fixtures already exist, provided that the number of plumbing fixtures is	
not increased and provided any required backflow prevention and/or sewage ejection is	
provided in accordance with this appendix.	
10.2.2. Components, materials, finishes, equipment, fire protection systems and	
equipment, and appliances, other than plumbing fixtures:	
10.2.2.1. The in-kind replacement of components, materials, finishes, equipment, fire	
protection systems and equipment, and appliances;	

	10.2.2.2. The installation of new components, materials, finishes, equipment, fire	
	protection systems and equipment, and appliances, in a space within the structure	
	where similar pre-FIRM items already exist; and	
	2098	
	10.2.2.3. Within existing nonresidential portions of a nonresidential (for flood zone	
	purposes) building, the installation of new components, materials, finishes, equipment,	
	fire protection systems and equipment, and appliances which serve only the space(s)	
	being altered below the design flood elevation, provided such items, as well as any	
	associated electrical wiring, are designed and/or isolated so as not to affect the	
	operation of building components, systems and wiring of other parts of the building if	
	submerged. This item shall not include increases to the number of plumbing fixtures or	
	the installation of building systems which support other areas of the building.	
	10.2.3. Change in use, occupancy or how such space is used. Alteration consisting of a	
	change in use, occupancy or how such space is used in a nonresidential building (for	
	flood zone purposes), or portion thereof, that does not result in a more restrictive flood	
	design class per ASCE 24, is not a conversion from nonhabitable space into habitable	
	space, and is not otherwise required by Item 10.1.4 to comply with this appendix. Such	
	alteration shall also comply with the provisions of Item 10.2.2; and	
	10.2.4. Pits. The lowering of the elevation of a floor or a portion thereof located below	
	the design flood elevation for pits to accommodate sump pumps, house traps, valve	
	access, cleanouts, ejector pumps and elevators.	
BC G103 - ADMINISTRATION		
G103.3 Determination of base flood elevations.	G103.3 Determination of flood elevations. Flood elevations shall be determined in	Identical information transferred to
	accordance with Sections G103.3.1 through G103.3.2.	G103.3.1
G103.3.1 Determination of 500-year flood elevations.	G103.3.1 Determination of base flood elevations.	Former G103.3.1 now G103.3.2
(Moved to 103.3.2 and 103.3.1 changed to Determination of	Flood elevations shall be determined in accordance with Sections G103.3.1 through	
base flood elevations')	<u>G103.3.2.</u>	
Where 500-year flood elevations are not specified in the		
FEMA FIRMs 360497 or FEMA FIS 360497, such elevations		
shall be determined by a registered design professional using		
modeling based on generally accepted engineering methods		
or a review of available data from city, state and federal		
agencies.		

G103.5 Floodway encroachment. Prior to issuing a permit	G103.5 Floodway encroachment. Prior to issuing a permit for any floodway	Exception allowing floodway
for any floodway encroachment, including fill, new	encroachment, including fill, new construction, substantial improvements and other	encroachment move to G103.5.1
construction, substantial improvements and other	development or land-disturbing activity, the commissioner shall require submission of a	
development or land-disturbing activity, the commissioner	certification, prepared by a registered design professional, along with supporting	
shall require submission of a certification, along with	technical data, demonstrating that such development will not cause any increase of the	
supporting technical data, demonstrating that such	level of the base flood. [However, a floodway encroachment that increases the level of	
development will not cause any increase of the level of the	the base flood may be authorized if the applicant has:]	
base flood. However, a floodway encroachment that increases	[1. Applied for a conditional Letter of Map Revision; and]	
the level of the base flood may be authorized if the applicant	[2. Received the approval of the Federal Emergency Management Agency (FEMA).]	
has:		
1. Applied for a conditional Letter of Map Revision; and		
2. Received the approval of the Federal Emergency		
Management Agency (FEMA).		
G103.5.1 Floodway revisions. (Not in 2014 Code)	G103.5.1 Floodway revisions. A floodway encroachment that increases the level of the	See above
	base flood is authorized if the applicant has applied for a conditional Flood Insurance	
	Rate Map (FIRM) revision and has received the approval of the Federal Emergency	
	Management Agency (FEMA).	
G103.7 Sand dune alterations in V-Zones. Prior to issuing a	G103.7 [Sand dune alterations in V-Zones] Alterations in coastal areas. Prior to issuing	V-zone change to coastal high hazard
permit for any alteration of sand dunes in a V-Zone, the	a permit for any alteration of sand dunes [in a V-Zone]-in coastal high-hazard areas and	areaa
commissioner shall require submission of an engineering	coastal A-zones, the commissioner shall require submission of an engineering analysis,	
analysis demonstrating that the proposed alteration will not	prepared by a registered design professional, demonstrating that the proposed	
increase the potential for flood damage.	alteration will not increase the potential for flood damage.	
BC G104 - PERMIT		
G104.3 Site Plan. The permit application shall include a site	[G104.3 Site plan] G104.2.1 Flood zone compliance plans. The permit application shall	
plan. The site plan shall include plans and drawings, shall be	include [a site plan] <u>flood zone compliance plans</u> . [The site plan] <u>Such plans</u> shall include	
sealed by a registered design professional and shall	plans and drawings, shall be sealed by a registered design professional and shall include	
include the following information and any other data as	a site plan and the following information and any other data as may be required by the	
may be required by the department:	department:	
1. A delineation of the flood hazard areas, including	1.Flood design class assigned according to ASCE 24;	
identification of the base and design flood and	2. A delineation of the flood hazard areas, including identification of the base [and] flood	
elevations;	elevation(s), design flood [and] elevations and still water flood depth;	
2. If applicable, the location of the regulatory floodway;	If applicable, the location of the regulatory floodway;	

3.	For all proposed structures, spot ground elevations	4. For all proposed structures, spot ground elevations at building corners and in 20-foot	
	at building corners and in 20-foot (6096 mm) or	(6096 mm) or smaller intervals along the foundation footprint, or 1-foot (305 mm)	
	smaller intervals along the foundation footprint, or 1-	contour elevations throughout the building site;	
	foot (305 mm) contour elevations throughout the	5. Proposed locations of water supply, sanitary sewer, and utilities;	
	building site;	6. Drainage patterns and facilities;	
4.	Proposed locations of water supply, sanitary sewer,	7. Foundation design details, including but not limited to:	
	and utilities;	7.1. Proposed elevation of the lowest floor including basement (for flood zone purposes)	
5.	Drainage patterns and facilities; and	of all structures;	
6.	Foundation design details, including but not limited	7.2. For crawl spaces and enclosed parking, storage and building access that are wet	
	to:	floodproofed below the design flood elevation, location and total net area of foundation	
	a. 6.1. Proposed elevation of the lowest floor	openings in accordance with ASCE 24;	
	including basement (for flood zone purposes)	7.3. For dry floodproofed spaces in buildings or structures that are nonresidential (for	
	of all structures;	flood zone purposes), the proposed elevation to which the enclosure will be dry	
	b. 6.2. For crawl spaces and enclosed parking,	floodproofed in accordance with ASCE 24;	
	storage and building access that are wet	7.4. Any proposed fill and excavation details ; and	
	floodproofed below the design flood	7.5 In coastal high-hazard areas and coastal A-zones, the proposed elevation of the	
	elevation, location and total net area of	bottom of the lowest horizontal structural member of the lowest floor; and	
	foundation openings in accordance with ASCE	8. For structures in coastal high-hazard areas or coastal A-zones, and for dry-flood	
	24;	proofed structures: flood loading and parameters including average velocity of water	
	c. 6.3. For dry floodproofed spaces in buildings	(V), debris impact load (Fi), scour depths, and wave loads (Ft or FD).	
	or structures that are nonresidential (for flood		Additional plan requirements coastal
	zone purposes), the proposed elevation to		floors hazard area.
	which the enclosure will be dry floodproofed		
	in accordance with ASCE 24; and		
	d. 6.4. Any proposed fill and excavation details.		
	i. Exception: Applications for		
	subdivisions shall comply with Section		
	G302.		
G104.5	.1 A-Zones. For construction in A-Zones, the permit	[G104.5.1] G104.2.3.1 A-Zones. For construction in A-Zones, the permit application shall	Code is requiring more precise stage
applica	tion shall include the following certifications, as	include the following certifications, as applicable:	memo on plans concerning wet & dry
applica	ble:	1. Wet flood proofing certification. For applications involving wet flood proofed	flood proofing design.
1. Wet	flood proofing certification. For wet flood proofed	enclosures below the design flood elevation, [construction documents] flood zone	
enclos	ures below the design flood elevation, construction	compliance plans shall include a certification by the applicant, as applicable to the scope	
docum	ents shall include a certification by the applicant	of work proposed, that "in accordance with ASCE 24, the use of the enclosure is limited	

that the design provides for the automatic entry and exit	to the parking of vehicles, building access, or storage, and that the design [provides for]	
of floodwaters for equalization of hydrostatic flood forces in	incorporates openings to allow for the automatic entry and exit of floodwaters for	
accordance with Section 2.6.2, ASCE 24.	equalization of hydrostatic flood forces [in accordance with Section 2.6.2, ASCE 24] and	
2. Dry flood proofing certification for nonresidential	flood damage-resistant materials and techniques that minimize damage to a structure	
buildings. For dry flood proofed buildings and structures	by floodwater."	
that are nonresidential (for flood zone purposes),	2. Dry flood proofing certification for nonresidential buildings. For applications	
construction documents shall include a certification by the	involving dry flood proofed buildings and structures that are nonresidential (for flood	
applicant that the dry flood proofing is designed in	zone purposes), {construction documents} flood zone compliance plans shall include a	
accordance with ASCE 24.	certification by the applicant that "the [dry flood proofing is designed] structure is	
3. Utility certifications. For all applications involving utility or	designed to be dry flood proofed with walls that are substantially impermeable to the	
mechanical work, including applications where such work is to	passage of water and that all walls, floors, and flood shields are designed to resist	
be filed in a separate, related application, construction	hydrostatic, hydrodynamic, and other flood-related loads, including the effects of	
documents shall include a certification by the applicant that	buoyancy resulting from flooding to the elevation listed in Table 6-1 in accordance with	
"all heating, ventilation, air conditioning, plumbing, electrical	ASCE 24."	
and other services facilities and equipment within the	3. Utility certifications. For all applications involving utility or mechanical work, including	
structure or site will be located or constructed so as to	applications where such work is to be filed in a separate, related application,	
prevent water from entering or accumulating within the	[construction documents] flood zone compliance plans shall include a certification by	
components during conditions of flooding in accordance with	the applicant that "all heating, ventilation, air conditioning, plumbing, electrical and	
ASCE 24."	other services facilities and equipment within the structure or site will be located or	
	constructed so as to prevent water from entering or accumulating within the	
	components during conditions of flooding in accordance with ASCE 24."	
Sections within chapter 'G104' changed section number but		
still present within chapter		
BC G105 – VARIANCES		
SECTION BC G105	SECTION BC G105	Sections rearranged former G105 now
PROGRESS AND SPECIAL INSPECTION REQUIREMENTS	VARIANCES	G107

G105.1 General. Progress and special inspections shall be	G105.1 General. The Board of Standards and Appeals shall hear and decide requests for
performed in accordance with this section. All work	variances from the requirements of this appendix. The Board of Standards and Appeals
applications, regardless of the scope of work, shall be subject	shall base its determination on technical justifications, and has the right to attach such
to the progress and special inspection requirements of	conditions to variances as it deems necessary to further the purposes and objectives of
Sections G105.2 throughG105.4.	this appendix.
	Exception: In specific cases, provided that noncompliance with the requirements of the
	44 CFR section 60.3 is not created, the commissioner shall be authorized to vary the
	standards prescribed in this appendix under and pursuant to the provisions of Section
	28-103.3 of the Administrative Code and Section 645(b)(2) of the New York City Charter,
	including but not limited to:
	1. Increases to the number of plumbing fixtures on an existing non-dry floodproofed
	story located below DFE including to accommodate compliance with the New York City
	Plumbing Code or Chapter 11 of this code for accessibility for persons with disabilities, or
	both; and
	2. Modifications to the egress provisions of ASCE 24, Section 6.2.2.
G105.2 All work applications other than new buildings and	G105.2 Records. The Board of Standards and Appeals shall:
substantial improvements. All work applications other than	1. Maintain a record of all variance actions, including justification for their issuance; and
new buildings and substantial improvements, shall be subject	2. Report such variances issued in its biennial report submitted to the Federal
to the following special inspection:	Emergency Management Agency (FEMA).
1. Flood zone compliance special inspection. Prior to sign-	
off of work, a special inspector or special inspection	
agency shall inspect during the course of construction and	
certify that: "the structure was constructed" or "alterations	
were performed," "with methods and practices that minimize	
flood damage and that are in accordance with approved	
plans, and with any applicable provisions of Appendix G of the	
New York City Building Code and ASCE 24."	
,	

G105.3 New buildings and substantial improvements. All	G105.3 Historic structures. A variance is authorized to be issued by the Board of	
applications for new buildings or substantial improvements	Standards and Appeals for the repair or rehabilitation of a historic structure upon a	
shall be subject to the following inspections:	determination that the proposed repair or rehabilitation will not preclude the structure's	
1. Elevation progress inspection. Upon placement of the	continued designation as a historic structure, and the variance is the minimum necessary	
lowest floor, including the basement (for flood zone	to preserve the historic character and design of the structure.	
purposes), an engineer or licensed professional surveyor		
shall inspect the site and verify the elevation of such		
lowest floor. The inspection report verifying the elevation		
shall be submitted to the department prior to further vertical		
construction. The commissioner shall be permitted to issue a		
stop work order if such inspection report is not submitted.		
2. Flood zone compliance special inspection. Prior to sign-		
off of work, a special inspector or special inspection		
agency shall inspect during the course of construction and		
certify that: "the structure was constructed" or "alterations		
were performed, "with methods and practices that minimize		
flood damage and that are in accordance with approved		
plans, and with any applicable provisions of Appendix G of the		
New York City Building Code and ASCE 24."		
3. Final elevation required items. Prior to the sign-off of		
the flood zone compliance special inspection, the special		
inspector or special inspection agency shall verify that the		
following required items have been submitted to the		
department, as applicable:		
3.1. Elevation certificate. The elevation certificate shall be		
made utilizing FEMA Form 086-0-33 titled, "Elevation		
Certificate," and shall be signed by an engineer or surveyor.		
3.2. Dry floodproofing certificate. The Dry floodproofing		
certificate shall be made utilizing FEMA Form 086-0-34 titled,		
Floodproofing Certificate, "and shall be signed by an		
engineer.		

G105.4 Functionally dependent facilities. The Board of Standards and Appeals is	
authorized to issue a variance for the construction or substantial improvement of a	
functionally dependent facility provided the criteria in Sections G105.3, G105.5 and	
G105.7 are met and the variance is the minimum necessary to allow the construction or	
substantial improvement, and that all due consideration has been given to methods and	
materials that minimize flood damages during the base flood and create no additional	
threats to public safety.	
G105.5 Floodway restrictions. The Board of Standards and Appeals shall not issue a	
variance for any proposed development in a floodway if any increase in flood levels	
would result during the base flood discharge.	
	G105.4 Functionally dependent facilities. The Board of Standards and Appeals is authorized to issue a variance for the construction or substantial improvement of a functionally dependent facility provided the criteria in Sections G105.3, G105.5 and G105.7 are met and the variance is the minimum necessary to allow the construction or substantial improvement, and that all due consideration has been given to methods and materials that minimize flood damages during the base flood and create no additional threats to public safety.

G105.6 Reserved.	G105.6 Conditions. In reviewing applications for variances, the Board of Standards and	
	Appeals shall consider all technical evaluations, all relevant factors, all other portions of	
	this appendix and the following:	
	1. The danger that materials and debris may be swept onto other lands resulting in	
	further injury or damage.	
	The danger to life and property due to flooding or erosion damage.	
	3. The susceptibility of the proposed development, including contents, to flood damage	
	and the effect of such damage on current and future owners.	
	4. The importance of the services provided by the proposed development to the	
	<u>community.</u>	
	5. The availability of alternate locations for the proposed development that are not	
	subject to flooding or erosion.	
	6. The compatibility of the proposed development with existing and anticipated	
	development.	
	7. The relationship of the proposed development to the comprehensive plan and	
	floodplain management program for that area.	
	8. The safety of access to the property in times of flood for ordinary and emergency	
	<u>vehicles.</u>	
	9. The expected heights, velocity, duration, rate of rise and debris and sediment	
	transport of the floodwaters and the effects of wave action, if applicable, expected at	
	the site.	
	10. The costs of providing governmental services during and after flood conditions	
	including maintenance and repair of public utilities and facilities such as sewer, gas,	
	electrical and water systems, streets and bridges.	

G105.3, the Board of Standards and Appeals is authorized to issue a variance where all of the following criteria are met: 1. A technical showing of good and sufficient cause that the characteristics of the size, configuration or topography of the site renders the standards inappropriate; 2. A determination that failure to grant the variance would result in exceptional hardship to the applicant for the variance; 3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, por create
of the following criteria are met: 1. A technical showing of good and sufficient cause that the characteristics of the size, configuration or topography of the site renders the standards inappropriate; 2. A determination that failure to grant the variance would result in exceptional hardship to the applicant for the variance; 3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, nor create
the characteristics of the size, configuration or topography of the site renders the standards inappropriate; 2. A determination that failure to grant the variance would result in exceptional hardship to the applicant for the variance;3. A determination that the granting of a variance will not result in increased flood beinbts, additional threats to public safety, extraordinary public expense, nor create
standards inappropriate; 2. A determination that failure to grant the variance would result in exceptional hardship to the applicant for the variance; 3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, nor create
result in exceptional hardship to the applicant for the variance; 3. A determination that the granting of a variance will not result in increased flood beights, additional threats to public safety, extraordinary public expense, nor create
3. A determination that the granting of a variance will not result in increased flood
heights additional threats to public safety, extraordinary public expense, nor create
neights, additional threats to public safety, extraordinary public expense, nor create
<u>nuisances,</u>
<u>2108</u>
cause fraud on or victimization of the public or conflict with existing local laws or
ordinances;
4. A determination that the variance is the minimum necessary, considering the flood
hazard, to afford relief;
5. Notification to the applicant in writing over the signature of the Executive Director of
the Board of Standards and Appeals that the issuance of a variance to construct a
structure below the base flood level will result in increased premium rates for flood
insurance up to amounts as high as \$25 for \$100 of insurance coverage, and that such
construction below the base flood level increases risks to life and property; and
6. A determination that the new construction, substantial improvement, or other
proposed development is located on a tax lot that, on November 16, 1983, was no more
than 1/2 acre (0.2 hectare) in size. However, where the tax lot has been determined to
be larger than 1/2 acre (0.2 hectare), the technical justification required for issuing the
variance increases with the lot size.

BC G106 – CERTIFICATES OF OCCUPANCY		
G106.2 Enclosed areas subject to flooding in A-Zones. The	G106.2 Enclosed areas subject to flooding in A-Zones. The certificate of occupancy shall	
certificate of occupancy shall describe all wet floodproofed	describe all [wet floodproofed] enclosed areas below the design flood elevation that are	
enclosed areas below the design flood elevation as "subject to	subject to flooding and that meet the requirements of this appendix for wet	
flooding". Such wet floodproofed enclosed areas shall be	floodproofing as "wet floodproofed, subject to flooding". [Such wet floodproofed	
usable solely for parking, storage, building access or crawl	enclosed areas shall be usable solely for parking, storage, building access or crawl	
spaces.	spaces.] The certificate of occupancy shall indicate the use of wet floodproofed spaces	
	as either parking, storage, building access or crawl spaces. The certificate of occupancy	
	shall be issued with the following restriction: "Levels subject to flooding shall not be	
	used for any other use except as stated on this certificate."	
G106.4 Dry flood proofed spaces. The certificate of	G106.4 Dry flood proofed spaces. The certificate of occupancy shall describe any dry	
occupancy shall describe any dry flood proofed spaces as "dry	flood proofed spaces as "dry flood proofed." Where flood shields or other flood control	
flood proofed." For such buildings containing dwelling units,	devices are installed, the certificate of occupancy shall also provide notations describing	
patient care areas (for flood zone purposes) or spaces	these features. For evacuated buildings or evacuated portions of buildings utilizing the	
intended to be used by persons for sleeping purposes, the	temporary stair or ramp provisions of Section G308.10.1, the certificate of occupancy	
certificate of occupancy shall also provide notations as	shall note "In portions of this building planned to be evacuated during flood conditions,	
required by Section G304.1.2, Item 2.2.5. Where flood shields	occupancy shall be prohibited except for maintenance or emergency personnel."	
or other flood control devices are installed, the certificate of		
occupancy shall also provide notations describing these		
features.		
BC G107 – PERIODIC, PROGRESS AND SPECIAL INSPECTION REC	LUIREMENTS	
SECTION BC G107	SECTION BC G107	
VARIANCES	PERIODIC, PROGRESS AND SPECIAL INSPECTION REQUIREMENTS	
G107.1 General. The Board of Standards and Appeals shall	G107.1 General. Periodic, progress and special inspections shall be performed in	
hear and decide requests for variances from the requirements	accordance with this section. All work applications, regardless of the scope of work, shall	
of this appendix. The Board of Standards and Appeals shall	be subject to the progress and special inspection requirements of Sections G107.2	
base its determination on technical justifications, and has the	through G107.4.	
right to attach such conditions to variances as it deems		
necessary to further the purposes and objectives of this		
appendix.		

G107.2 Conditions for variance.	G107.2 All work applications other than new buildings, horizontal enlargements and	
	substantial improvements. All work applications other than new buildings, horizontal	
	enlargements and substantial improvements, shall be subject to the following special	
	inspection:	
	1. Flood zone compliance special inspection. Prior to sign-off of work, a special	
	inspector or special inspection agency shall inspect during the course of construction	
	and certify that: "the structure was constructed" or "alterations were performed," "with	
	methods and practices that minimize flood damage and that are in accordance with	
	approved plans, and with any applicable provisions of Appendix G of the New York City	
	Building Code and ASCE 24."	

G107.3 Standards for variance. In reviewing applications for	G107.3 New buildings, horizontal enlargements and substantial improvements. All	
variances, the Board of Standards and Appeals shall	applications for new buildings, horizontal enlargements or substantial improvements	
consider all technical evaluations, all relevant factors, all	shall be subject to the following inspections:	
other portions of this appendix and the following:	1. Elevation progress inspection. Upon placement of the lowest floor, including the	
1. The danger that materials and debris may be swept onto	basement (for flood zone purposes), an engineer or licensed professional surveyor shall	
other lands resulting in injury or damage;	inspect the site and verify the elevation of such lowest floor. The inspection report	
2. The danger to life and property due to flooding or erosion	verifying the elevation shall be submitted to the department prior to further vertical	
damage;	construction. The commissioner shall be permitted to issue a stop work order if such	
3. The susceptibility of the proposed development, including	inspection report is not submitted.	
contents, to flood damage and the effect of such damage	2. Flood zone compliance special inspection. Prior to sign-off of work, a special	
on current and future owners;	inspector or special inspection agency shall inspect during the course of construction	
4. The importance of the services provided by the proposed	and certify that: "the structure was constructed" or "alterations were performed," "with	
development to the community;	methods and practices that minimize flood damage and that are in accordance with	
5. The availability of alternate locations for the proposed	approved plans, and with any applicable provisions of Appendix G of the New York City	
development that are not subject to flooding or erosion;	Building Code and ASCE 24."	
6.The relationship of the proposed development to the	3. Final elevation required items. Prior to the sign-off of the flood zone compliance	
comprehensive plan and flood plain management program for	special inspection, the special inspector or special inspection agency shall verify that the	
that area;	following required items have been submitted to the department, as applicable:	
7. The safety of access to the property in times of flood for	3.1. Elevation certificate. The elevation certificate shall be made utilizing FEMA Form	
ordinary and emergency vehicles;	086-0-33 titled, "Elevation Certificate," and shall be signed by a registered design	
8.The expected heights, velocity, duration, rate of rise and	professional or surveyor.	
debris and sediment transport of the floodwaters and the	3.2. Dry floodproofing certificate. The dry floodproofing certificate shall be made	
effects of wave action, if applicable, expected at the site; and	utilizing FEMA Form 086-0-34 titled, "Floodproofing Certificate," and shall be signed by a	
9. The costs of providing governmental services during and	registered design professional.	
after flood conditions including maintenance and repair of		
public utilities and facilities such as sewer, gas, electrical and		
water systems, streets and bridges.		

G107.4 Notification of risks. Upon issuance of a variance, the	G107.4 Flood shield inspection. Where flood shields or other flood control devices are	
Executive Director of the Boards of Standards and Appeals	installed as part of a dry floodproofing system in buildings and structures that are	
shall provide written notice to the owner and the applicant	nonresidential (for flood zone purposes), the special inspector or special inspection	
that:	agency responsible for the flood zone compliance special inspection shall inspect the	
1. The issuance of a variance to construct a structure below	shields or devices in their stored positions or locations, witness their activation or	
the base flood level will result in increased premium rates	transportation to their installed positions, and witness their deactivation or	
for flood insurance up to amounts as high as twenty-five	transportation back to their stored locations. The special inspector or special inspection	
dollars for each one hundred dollars of insurance coverage;	agency shall also confirm the installation of signage required by ASCE 24, Section 6.2.3,	
and	<u>Item 3.</u>	
2. That such construction below the base flood level increases		
risks to life and property.		
G107.5 Records. The Board of Standards and Appeals shall:	G107.5 Periodic inspections of dry floodproofing systems. Covered buildings, as	
1. Maintain a record of all variance actions, including	described in Section 28-324 of the Administrative Code, shall be subject to periodic	
justification for their issuance; and	inspections for dry floodproofing systems in accordance with Sections G107.5.1 and	
2. Report such variances issued in its biennial report	<u>G107.5.2.</u>	
submitted to the Federal Emergency Management Agency		
(FEMA).		
G107.5.1 (Not in the 2014 Code)	G107.5.1 Annual inspection of dry floodproofing system. An inspection of the dry	
	floodproofing system shall be conducted annually in accordance with Section 28-324.2	
	of the Administrative Code.	
G107.5.2 (Not in the 2014 Code)	G107.5.2 Triennial full scale deployment inspection. A full-scale deployment inspection	
	shall be conducted every three years in accordance with Section 28-324.3 of the	
	Administrative Code.	
BC G201 - DEFINITIONS		
G201 Definitions	202 Definitions	
G201.1.2 Definitions specific to this appendix. (Not in 2014	G201.1.2 Definitions specific to this appendix. The following words and terms shall, for	Definitions are now moved to chapter
Code)	the purposes of this appendix, have the meanings shown herein:	2 of the code, except for flood specific
	DEVELOPMENT. Any man-made change to improved or unimproved real estate,	definitions described in this section.
	including but not limited to, buildings or other structures, temporary structures,	
	temporary or permanent storage of materials, mining, dredging, filling, grading, paving,	No Change
	excavations or drilling operations and other land-disturbing activities.	
	EXISTING CONSTRUCTION. See "Pre-FIRM development."	
	EXISTING STRUCTURE. See "Pre-FIRM development."	

FLOOD DESIGN CLASS. A classification of buildings and other structures for	No Change
determination of flood loads and conditions, and determination of minimum elevation	No Change
requirements on the basis of risk associated with unacceptable performance.	New Definition
FUNCTIONALLY DEPENDENT FACILITY. A facility that cannot be used for its intended	
purpose unless it is located or carried out in close proximity to water. The term includes	
only docking facilities, port facilities that are necessary for loading and unloading of	
cargo or passengers and shipbuilding and ship repair facilities, but does not include long-	Insignificant to definition
term storage or related manufacturing, sales or service facilities.	
HISTORIC STRUCTURE. Any structure that meets one of the following criteria:	
1. Listed individually in the National Register of Historic Places;	
2. Certified by the Secretary of the U.S. Department of the Interior as meeting the	
requirements for individual listing in the National Register;	
3. Certified or preliminarily determined by the Secretary of the U.S. Department of the	
Interior to be contributing to the historical significance of a registered historic district or	Definition clarifies historic structure.
a district preliminarily determined by the Secretary of the U.S. Department of the	Individual landmarked buildings
Interior to qualify as a registered historic district;	qualify but not necessarily located in a
4. Individually listed or preliminarily determined to be eligible for listing in the New York	historic district.
State Register of Historic Places; or	
5. Individually listed as a landmark by the NYC Landmarks Preservation Commission.	
Location within a historic district does not alone qualify as being an individually listed	
landmark.	
LETTER OF MAP AMENDMENT (LOMA). An official amendment to the FIRM, issued and	
approved by the Federal Emergency Management Agency (FEMA), removing structures	
or tax lots or portions of tax lots from special flood hazard areas, resulting from a	
demonstration that the pre-FIRM ground elevations are at or above the base flood	
elevation.	
LETTER OF MAP REVISION BASED ON FILL (LOMR-F). An official amendment to the	
FIRM, issued and approved by the Federal Emergency Management Agency (FEMA),	
removing structures or tax lots or portions of tax lots from special flood hazard areas,	
resulting from the post-FIRM placement of compacted fill, such that the new ground	
elevation is at or above the base flood elevation.	No Change
LETTER OF MAP REVISION (LOMR). An official amendment to the FIRM, issued and	
approved by the Federal Emergency Management Agency (FEMA), removing or adding	
structures or tax lots or portions of tax lots from special flood hazard areas, which	

generally results from physical measures implemented that affect the hydrologic or	
hydraulic characteristics of a flooding source and thus result in the modification of the	
existing regulatory floodway, the effective base flood elevations, or the special flood	No Change
hazard area.	
MANUFACTURED HOME. A structure that is transportable in one or more sections, built	
on a permanent chassis, designed for use with or without a permanent foundation when	
attached to the required utilities, and constructed to the Federal Mobile Home	
Construction and Safety Standards and rules and regulations promulgated by the U.S.	
Department of Housing and Urban Development. The term also includes mobile homes,	No Change
park trailers, travel trailers and similar transportable structures that are placed on a site	
for 180 consecutive days or longer.	
MANUFACTURED HOME PARK OR SUBDIVISION. A parcel (or contiguous parcels) of	
land divided into two or more manufactured home lots for rent or sale.	
MARKET VALUE OF STRUCTURE. The price that a buyer is willing, but is not under any	
duty, to pay for a particular structure to an owner who is willing, but not obligated, to	
sell, exclusive of the value of the land, or of other buildings or structures on the same tax	No Change
lot. The market value of a structure shall be determined in accordance with rules	
promulgated by the commissioner.	
NEW CONSTRUCTION. See "Post-FIRM development."	
POST-FIRM DEVELOPMENT Any development that is not pre-FIRM development	
POST-FIRM STRUCTURE See "Post-FIRM development "	
2123	
DEFEIDM DEVELODMENT Any development:	
1. Completed prior to November 16, 1982:	
2. Under construction on November 16, 1983,	No Chango
2. Onder construction on November 10, 1985, provided that the start of construction	No change
2. Completed on an often Nevember 1C, 1992, but thet	
3. Completed on or after November 16, 1983, but that:	
3.1. was not located within a special flood hazard area at the start of construction; and	
3.2. Is now located within a special flood hazard area as a result of a subsequent change	
to the FIRM.	No Change
PRE-FIRM STRUCTURE. See "Pre-FIRM development."	
RECREATIONAL VEHICLE . A vehicle that is built on a single chassis, 400 square feet	
(37.16 m2) or less when measured at the largest horizontal projection, designed to be	

self-propelled or permanently towable by a light-duty truck, and designed primarily not	
for use as a permanent dwelling but as temporary living quarters for recreational,	
camping, travel or seasonal use. A recreational vehicle is ready for highway use if it is on	No Change
its wheels or jacking system, is attached to the site only by quick disconnect-type utilities	No Change
and security devices and has no permanently attached additions.	
START OF CONSTRUCTION. The date of permit issuance for: (i) post-FIRM developments;	No Change
(ii) substantial improvements to pre-FIRM structures; and (iii) those pre-FIRM	
developments that, at the time of permit issuance, were not within a special flood	No Change
hazard area but that, prior to completion, were within a special flood hazard area as a	
result of map change; provided the actual commencement of construction, repair,	
reconstruction, rehabilitation, addition, placement or other improvement is within 180	
days after the date of permit issuance and such construction activity is not thereafter	
suspended or abandoned for 180 days or more. For the purposes of this definition:	
1. The actual commencement of construction means the first placement of permanent	
construction of a building (including a manufactured home or prefabricated building) on	
a site, such as the pouring of a slab or footings, installation of pilings or construction of	
columns.	No Change
2. Permanent construction does not include land preparation (such as clearing,	No Change
excavation, grading or filling), the installation of streets or walkways, excavation for a	
basement (for flood zone purposes), footings, piers or foundations, the erection of	
temporary forms or the installation of accessory buildings such as garages or sheds not	
occupied as dwelling units or not part of the main building.	
3. For a substantial improvement, the actual commencement of construction means the	
first alteration of any wall, ceiling, floor or other structural part of a building, regardless	
of whether that alteration affects the external dimensions of the building.	
VARIANCE. A grant of relief from the requirements of this appendix, which permits	
construction in a manner otherwise prohibited by this appendix.	No Change

		No Change
BC G301 - CONSTRUCTION STANDARDS		
BC G302 - SUBDIVISIONS		
BC G303 - SITE IMPROVEMENT		
G303.2 Sewer facilities. (Added new subsection to 303.2 and	G303.2 Coastal high-hazard areas and coastal A-Zones. In coastal high-hazard areas and	New restrictions for new buildings &
moving all current subsections up .1)	<u>coastal A-Zones:</u>	uses of fill
	1. New buildings, not including substantial improvements, shall only be authorized	
	landward of the reach of mean high tide.	
	2. The use of fill for structural support of buildings is prohibited.	
G204 1 1 Residential	G30/ 1 1 Residential	
For huildings or structures that are residential (for flood	For huildings or structures that are residential (for flood zone nurnoses), all nost-	
zone nurnoses) all nost-FIRM new huildings and	FIRM new huildings and substantial improvements shall comply with the applicable	
substantial improvements shall comply with the applicable	requirements in Chapter G3 of this code and ASCE 24, and shall be elevated as follows:	

requirements in Chapter G3 of this code and ASCE 24, and	1. Lowest floor. The lowest floor, including the basement (for flood zone purposes),	New requirements for approval & CO
shall be elevated as follows:	shall be elevated to at or above the design flood elevation specified in ASCE 24,	issuance. Restrictive declarations for
1. Lowest floor. The lowest floor, including the basement	Table 2-1;	residential properties.
(for flood zone purposes), shall be elevated to at or	2. Enclosures below the design flood elevation. Enclosed spaces below the design flood	
above the design flood elevation specified in ASCE 24, Table	elevation specified in ASCE 24, Table 2-1, shall be useable solely for parking of	
2-1;	vehicles, building access, storage, or crawlspace, and shall be wet floodproofed in	
2. Enclosures below the design flood elevation. Enclosed	accordance with ASCE 24. Breakaway walls are not required in A-Zones;	
spaces below the design flood elevation specified in ASCE 24,	2.1. A restrictive declaration noting the above restriction shall be filed with the City	
Table 2-1, shall be useable solely for parking of vehicles,	Register or County Clerk, and the City Register File Number (CRFN) shall be identified in	
building access, storage, or crawlspace, and shall be wet	the permit application and on the certificate of occupancy.	
floodproofed in accordance with ASCE 24. Breakaway walls	3. Under-floor spaces. The finished ground level of an under-floor space, such as a	
are not required in A-Zones;	crawl space, shall be equal to or higher than the outside finished ground level on at	
2.1 (Not in 2014 Code)	least one side.	
3. Under-floor spaces. The finished ground level of an	4. Materials. Only flood-damage-resistant materials and finishes shall be utilized	
under-floor space, such as a crawl space, shall be equal to	below the design flood elevation specified in ASCE 24, Table 5-1;	
or higher than the outside finished ground level on at least	5. Utilities and equipment. Utilities and attendant equipment shall be located at or	
one side.	above the design flood elevation specified in ASCE 24, Table 7-1, or with the exception	
4. Materials. Only flood-damage-resistant materials and	of the items below, shall be constructed so as to prevent water from entering or	
finishes shall be utilized below the design flood elevation	accumulating within the components during conditions of flooding in accordance with	
specified in ASCE 24, Table 5-1;	ASCE 24;	
5. Utilities and equipment. Utilities and attendant	5.1. Fire protection systems and equipment. The following fire protection systems	
equipment shall be located at or above the design flood	and equipment shall be located at or above the design flood elevation specified in	
elevation specified in ASCE 24, Table 7-1, or shall be	ASCE 24, Table 7-1, except that where the system or equipment or portion	
constructed so as to prevent water from entering or	thereof serves only spaces located below such design flood elevation, the system	
accumulating within the components during conditions of	or equipment or portion thereof may be located below such design flood elevation:	
flooding in accordance with ASCE 24;	5.1.1. Sprinkler control valves that are not outside stem and yoke valves;	
5.1. Fire protection systems and equipment. The following	5.1.2. Fire standpipe control valves that are not outside stem and yoke valves;	
fire protection systems and equipment shall be located at	5.1.3. Sprinkler booster pumps and fire pumps;	
or above the design flood elevation specified in ASCE 24,	5.1.4. Dry pipe valve-related electrically operated alarm appurtenances;	
Table 7-1, except that where the system or equipment or	5.1.5. Alarm control panels for water and non-water fire extinguishing systems;	
portion thereof serves only spaces located below such	5.1.6. Alarm control panels for sprinkler systems, pre-action sprinkler systems,	
design flood elevation, the system or equipment or	deluge sprinkler systems, and combined dry pipe and pre-action sprinkler systems;	
portion thereof may be located below such design flood	5.1.7. Electrically operated water flow detection devices serving sprinkler systems; and	
elevation:	5.1.8. Air compressors serving sprinkler systems and pre-action sprinkler systems.	

5.1.1. Sprinkler control valves that are not outside stem and	5.2. Fire alarm systems and components. Where a zoning indicator panel is provided	
yoke valves;	at the main building entrance in accordance with Section 907.6.3.1 and such panel	
5.1.2. Fire standpipe control valves that are not outside stem	is located at or below 5 feet (1524 mm) above the design flood elevation	
and yoke valves;	specified in ASCE 24, Table 7-1, at least one secondary zoning indicator panel	
5.1.3. Sprinkler booster pumps and fire pumps;	complying with the following requirements shall be provided:	
5.1.4. Dry pipe valve-related electrically operated alarm	5.2.1. The secondary zoning indicator panel, associated controls, power supplies	
appurtenances;	and means of transferring control shall be provided at least 5 feet (1524mm) above	
5.1.5. Alarm control panels for water and non-water fire	the design flood elevation specified in ASCE 24, Table 7-1, in a location accessible to	
extinguishing systems;	responding Fire Department personnel and approved by the department and the	
5.1.6. Alarm control panels for sprinkler systems, pre-	Fire Department; and	
action sprinkler systems, deluge sprinkler systems, and	5.2.2. Where the secondary zoning indicator panel or associated controls are only	
combined dry pipe and pre-action sprinkler systems;	operable upon transfer of control from another zoning indicator panel, such transfer	
5.1.7. Electrically operated water flow detection devices	shall be by a means that is approved by the Fire Department.	
serving sprinkler systems; and	5.3. Fuel-oil piping systems. The following requirements shall apply to fuel-oil piping	
5.1.8. Air compressors serving sprinkler systems and pre-	systems, as defined by Section 202 of the New York City Mechanical Code:	
action sprinkler systems.	5.3.1.Fill piping that does not terminate in a watertight terminal approved by the	
5.2. Fire alarm systems and components. Where a zoning	department shall terminate at least 3 feet (914 mm) above the design flood elevation	
indicator panel is provided at the main building entrance	specified in ASCE 24, Table 7-1;and	
in accordance with Section 907.6.3.1 and such panel is	5.3.2. Normal vent piping and emergency vent piping shall terminate at least 3 feet (914	
located at or below 5 feet (1524 mm) above the design	mm) above the design flood elevation specified in ASCE 24, Table 7-1.5.4.Plumbing	
flood elevation specified in ASCE 24, Table 7-1, at least	systems and components. The structure shall comply with the following requirements:	
one secondary zoning indicator panel complying with the	5.4.1. Relief vents and fresh air intakes. Relief vents and fresh air intakes serving building	
following requirements shall be provided:	traps in accordance with Section 1002.6 of the New York City Plumbing Code shall be	
5.2.1. The secondary zoning indicator panel, associated	carried above grade and shall terminate in a screened outlet that is located outside of	
controls, power supplies and means of transferring	the building and at or above the design flood elevation specified in ASCE 24, Table 7-	
control shall be provided at least 5 feet (1524mm) above the	1;and	
design flood elevation specified in ASCE 24, Table 7-1, in a	5.4.2. Reduced pressure zone backflow preventers. Reduced pressure principle backflow	
location accessible to responding Fire Department	preventers complying with Section 608.13.2 of the New York City Plumbing Code and	
personnel and approved by the department and the Fire	backflow preventers with intermediate atmospheric vents complying with Section	
Department; and	608.13.3 of the New York City Plumbing Code shall be located at or above the design	
5.2.2. Where the secondary zoning indicator panel or	flood elevation specified in ASCE 24, Table 7.1.	
associated controls are only operable upon transfer of	5.4.2.1. Primary reduced pressure principle backflow preventers complying with the	
control from another zoning indicator panel, such transfer	requirements of the Department of Environmental Protection shall be located at or	
shall be by a means that is approved by the Fire Department.	above the design flood elevation specified in ASCE 24, Table 7.1.	

5.3. Fuel-oil piping systems. The following requirements shall	5.4.2.2. [Reduced] Secondary reduced pressure principle backflow preventers complying	
apply to fuel-oil piping systems, as defined by Section 202 of	with Section 608.13.2 of the New York City Plumbing Code and backflow preventers with	
the New York City Mechanical Code:	intermediate atmospheric vents complying with Section 608.13.3 of the New York City	
5.3.1.Fill piping that does not terminate in a watertight	Plumbing Code shall be located at or above the design flood elevation specified in ASCE	
terminal approved by the department shall terminate at least	<u>24, Table 7.1.</u>	
3 feet (914 mm) above the design flood elevation specified in	5.4.3. Relief vents for gas service, equipment, and appliance pressure regulators. Relief	
ASCE 24, Table 7-1;and	vents for gas service, equipment, and appliance pressure regulators complying with the	
5.3.2. Normal vent piping and emergency vent piping shall	New York City Fuel Gas Code shall be located at or above the design flood elevation	
terminate at least 3 feet (914 mm) above the design flood	specified in ASCE 24, Table 7.1.	
elevation specified in ASCE 24, Table 7-1.5.4.Plumbing	6. Certifications. Applications shall contain applicable certifications in accordance with	
systems and components. The structure shall comply with the	Section G104.5; and	
following requirements:	7. Special inspections. Special inspections shall be as required by Section G105.	
5.4.1. Relief vents and fresh air intakes. Relief vents and fresh		
air intakes serving building traps in accordance with Section		
1002.6 of the New York City Plumbing Code shall be carried		
above grade and shall terminate in a screened outlet that is		
located outside of the building and at or above the design		
flood elevation specified in ASCE 24, Table 7-1; and		
5.4.2. Reduced pressure zone backflow preventers. Reduced		
pressure principle backflow preventers complying with		
Section 608.13.2 of the New York City Plumbing Code and		RP2's, gas vents and equipment must
backflow preventers with intermediate atmospheric vents		be above design flood evaluation.
complying with Section 608.13.3 of the New York City		
Plumbing Code shall be located at or above the design flood		
elevation specified in ASCE 24, Table 7.1.		
5.4.2.1 (Not in 2014 Code)		
5.4.2.2 (Not in 2014 Code)		
5.4.3 (Not in 2014 Code)		
6. Certifications. Applications shall contain applicable		
certifications in accordance with Section G104.5; and		
7. Special inspections. Special inspections shall be as required		
by Section G105.		
G304.1.2 Nonresidential. For buildings or structures that	G304.1.2 Nonresidential. For buildings or structures that are nonresidential (for flood	
are nonresidential (for flood zone purposes), all post-FIRM	zone purposes), all post-FIRM new buildings, <u>horizontal enlargements</u> and substantial	

new buildings and substantial improvements shall comply	improvements shall comply with the applicable requirements [in Chapter G3] of this	
with the applicable requirements in Chapter G3 of this	[code] appendix and ASCE 24, and shall comply with either of the following:	
code and ASCE 24, and shall comply with either of the	1. Elevation option. The structure shall comply with Items 1 through [6] 7 of Section	
following:	G304.1.1; or	
1. Elevation option. The structure shall comply with Items 1	2. Dry floodproofing option. The structure shall comply with the following:	
through 7 of Section G304.1.1; or	2.1. Elevation of dry floodproofing. The structure shall be dry floodproofed to [at] or	
2. Dry floodproofing option. The structure shall comply with	above the design flood elevation specified in ASCE 24, Table 6-1;	
the following:	2.2. Dwelling units, patient care areas (for flood zone purposes) and sleeping [spaces]	
2.1. Elevation of dry floodproofing. The structure shall be	areas. Where dwelling units, patient care areas (for flood zone purposes) or spaces	
dry floodproofed to at or above the design flood	intended to be used by persons for sleeping purposes are located in a building utilizing	
elevation specified in ASCE 24, Table 6-1;	the dry floodproofing option, the following additional requirements shall be met:	
2.2. Dwelling units, patient care areas (for flood zone	2.2.1. All rooms and spaces within dwelling units, patient care areas (for flood zone	
purposes) and sleeping areas. Where dwelling units, patient	purposes) and all spaces intended to be used by persons for sleeping purposes shall be	
care areas(for flood zone purposes) or spaces intended to	located at or above the design flood elevation;	
be used by persons for sleeping purposes are located in a	2.2.2. A restrictive declaration noting the above restriction shall be filed with the City	
building utilizing the dry floodproofing option, the following	Register or County Clerk, and the [page number and liber number]-City Register File	
additional requirements shall be met:	Number (CRFN) shall be identified in the permit application and on the certificate of	
2.2.1. All rooms and spaces within dwelling units, patient	occupancy.	1
care areas (for flood zone purposes) and all spaces	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation;	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the	2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24.	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy.	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with]-Notwithstanding the 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 2.4. Fire department connections. Dry floodproofing measures including temporary 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 2.4. Fire department connections. Dry floodproofing measures including temporary shields, stairs and ramps shall be located and arranged so as to allow hose lines to be 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 2.4. Fire department connections. Dry floodproofing measures including temporary shields, stairs and ramps shall be located and arranged so as to allow hose lines to be attached to the inlets of fire department connections without interference in 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 2.4. Fire department connections. Dry floodproofing measures including temporary shields, stairs and ramps shall be located and arranged so as to allow hose lines to be attached to the inlets of fire department connections without interference in accordance with Section 6.4.5 of NFPA 14, as modified by Appendix Q of this code. 	
care areas (for flood zone purposes) and all spaces intended to be used by persons for sleeping purposes shall be located at or above the design flood elevation; 2.2.2. A restrictive declaration noting the above restriction shall be filed with the City Register or County Clerk, and the page number and liber number shall be identified in the permit application and on the certificate of occupancy. 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24.	 2.3. Utilities and equipment. Utilities and attendant equipment shall be located within the dry floodproofed enclosure, or may be located outside the dry floodproofed enclosure provided that they are located at or above the design flood elevation specified in ASCE 24, Table 7-1, or are constructed so as to prevent water from entering or accumulating within the components during conditions of flooding in accordance with ASCE 24. 2.3.1. Additional requirements. [The structure shall comply with] Notwithstanding the above, utilities and attendant equipment, listed in Items 5.1 through 5.4 of Section G304.1.1, shall not be located in dry floodproofed enclosures and shall be elevated in accordance with Section G304.1.1. 2.4. Fire department connections. Dry floodproofing measures including temporary shields, stairs and ramps shall be located and arranged so as to allow hose lines to be attached to the inlets of fire department connections without interference in accordance with Section 6.4.5 of NFPA 14, as modified by Appendix Q of this code. 2.5. Certifications. Applications shall contain applicable certifications in accordance with 	

2.3.1. Additional requirements. The structure shall comply	2130	
with Items 5.1 through 5.4 of Section G304.1.1.	[2.5.] 2.6. Special inspections. Special inspections shall be as required by Section [G105]	
2.4. Certifications. Applications shall contain applicable	<u>G107</u> .	
certifications in accordance with Section G104.5; and		
2.5. Special inspections. Special inspections shall be as		
required by Section G105		

G304.3 Coastal A-Zone construction standards. In addition to	G304.3 Coastal A-Zone construction standards. In addition to the requirements	Text has been changed to clarify that
the requirements of ASCE 24, all post-FIRM new buildings and	of ASCE 24,	all horizontal enlargements must
substantial improvements in a Coastal A-Zone shall comply	all post-FIRM new buildings, horizontal enlargements and substantial	comply. The rest of the section is
with the V-Zone construction standards of Section G304.2.	improvements in a Coastal A-Zone shall comply with the [V-Zone] coastal high-	unchanged
Exceptions: The following structural systems shall be	hazard area construction standards of Section G304.2.	
permitted in a Coastal A-Zone:		
1.Wave-resisting stem wall foundation. Stem walls	Exceptions: The following structural systems shall be permitted in a Coastal	
supporting a floor system above, and backfilled with soil or	A-Zone:	
gravel to the underside of the floor system, shall be permitted		
in Coastal A-Zones. The design and construction of the	2. Wave-resisting stem wall foundation. Stem walls supporting a floor	
shallow foundation system shall comply with the following:	system above, and backfilled with soil or gravel to the underside	
1.1 The underside of such floor system shall be located at or	of the floor system, shall be permitted in Coastal A-Zones. The	
above the design flood elevation specified in ASCE 24, Table 4-	design and construction of the shallow foundation system shall comply	
1.	with the following:	
1.2 Stem walls enclosing areas below the design flood		
elevation shall not be permitted. Stem walls shall be designed	• The underside of such floor system shall be located at or above	
to transfer all vertical and lateral forces to the slab above and	the design flood elevation specified in ASCE 24, Table 4-1.	
to the foundation elements below;		
1.3 The design shall consider all forces resulting from flooding,	• Stem walls enclosing areas below the design flood elevation shall	
including wave action, debris impact, erosion, and local scour;	not be permitted. Stem walls shall be designed to transfer all	
1.4 The design shall consider all forces resulting from soil	vertical and lateral forces to the slab above and to the foundation	
pressure behind the walls, including the effect of	elements below;	
hydrostatic loads, and all live and dead surcharge loads from		
the slab above;	• The design shall consider all forces resulting from flooding,	
1.5 Flood openings shall not be required in stem walls	including wave action, debris impact, erosion, and local scour;	
constructed in accordance with this section;	The design shall consider all forecas newslying from soil measure	
1.6 Where soils are susceptible to erosion and local scour,	• The design shall consider all forces resulting from soil pressure	
stem walls shall be supported by deep footings;	bening the walls, including the effect of hydrostatic loads, and all	
1.7 Shallow foundations including spread footing, mat and	live and dead surcharge loads from the slab above;	
ratt toundations shall be designed to prevent sliding, uplift,	• Flood openings shall not be required in stem walls constructed	
or overturning when exposed to the combination of loads in	in accordance with this section:	
ASCE Section 1.6.2.	in accordance with this section;	
2. Wave-resisting dry floodproofing wall and foundation	• Where soils are suscentible to erosion and local scour stem	
system. Buildings that are nonresidential (for flood zone	walls shall be supported by doop factings:	
	wans shan be supported by deep tootings,	

purposes) and that are located in Coastal A-Zones shall be permitted to be dry floodproofed in accordance with Section G304.1.2 provided the structure is dry floodproofed to at or above the design flood elevation specified in ASCE 24, Table 6-1. For buildings or structures utilizing this exception, construction documents shall include calculations demonstrating that the foundation and building, including flood shields if provided, will resist the wave action, including the combination of loads in ASCE Section 1.6, to at or above the design flood elevation specified in ASCE 24, Table 4-1.	 Shallow foundations including spread footing, mat and raft foundations shall be designed to prevent sliding, uplift, or overturning when exposed to the combination of loads in ASCE 24, Section 1.6.2. Wave-resisting dry floodproofing wall and foundation system. Buildings that are nonresidential (for flood zone purposes) and that are located in Coastal A-Zones shall be permitted to be dry floodproofed in accordance with Section G304.1.2 [provided the structure is]. Such structure shall be dry floodproofed to [at] or above the design flood elevation specified in ASCE 24, Table 6-1. [For buildings or 	
	structures utilizing this exception, construction documents] <u>Flood zone</u> <u>compliance plans</u> shall include calculations demonstrating that the foundation and building, including flood shields if provided, will resist the wave action, including the combination of loads in ASCE <u>24</u> , Section 1.6, to at or above the design flood elevation [specified in ASCE 24, Table 4-1]	

G304.4.1 Alterations to certain flood design class 4 buildings.	G304.4.1 Alterations to certain flood design class 4 buildings. Where existing	Rules formerly applicable to I-2
(Not in 2014 Code)	emergency vehicle garages and fire, rescue, ambulance, and police stations located	buildings have been extended to more
	within shaded X-Zones are undergoing either a substantial improvement or an increase	buildings
	in the degree of noncompliance as such term is described in Item 10 of Section G102.1,	
	they shall comply with this appendix to the maximum extent practicable as described in	
	Sections G304.4.1.1 through G304.4.1.4.	
G304.4.1.1 Existing emergency vehicle garages and fire,	G304.4.1.1 Existing emergency vehicle garages and fire, rescue, ambulance, and police	EAP plan now required
rescue, ambulance, and police stations to remain. (Not in	stations to remain. Where an existing emergency vehicle garage or fire, rescue,	
2014 Code)	ambulance, or police station building is undergoing substantial improvement or an	
	increase in the degree of noncompliance, such existing emergency vehicle storage area	
	shall be permitted to be located below the design flood elevation, provided such space is	
	wet flood proofed in accordance with ASCE 24 and an emergency action plan is filed with	
	the department in accordance with ASCE 24, Section 6.2.3. Such emergency action plan	
	shall include actionable directives for the relocation of such emergency vehicles in	
	advance of a flood event.	
G304.4.1.2 Equipment within existing emergency vehicle	G304.4.1.2 Equipment within existing emergency vehicle garages and fire, rescue,	Exception for relocation of existing
garages and fire, rescue, ambulance, and police stations.	ambulance, and police stations. Where an existing emergency vehicle garage or fire,	equipment
(Not in 2014 Code)	rescue, ambulance, or police station building is undergoing substantial improvement or	
	an increase in the degree of noncompliance, equipment necessary to support operations	
	of such facilities may be located below the design flood elevation where elevation of	
	such equipment to the design flood elevation is physically unfeasible. Such equipment	
	shall be elevated to the maximum extent practicable.	
G304.4.1.3 Conversion of space below the design flood	G304.4.1.3 Conversion of space below the design flood elevation. Conversion of	Prohibition on creating new spaces
elevation. (Not in 2014 Code)	existing nonoccupiable space to occupiable space without such space being in full	below design flood elevation.
	compliance with this appendix shall be prohibited.	
G304.4.1.4 Subgrade spaces to remain. (Not in 2014 Code)	G304.4.1.4 Subgrade spaces to remain. Where an existing emergency vehicle garage or	Requirement for sump pumps in
	fire, rescue, ambulance, or police station building is undergoing substantial	existing sub grades spaces.
	improvement or an increase in the degree of noncompliance, the existing subgrade	
	space shall be provided with a sump pump system, designed to be fully submerged and	
	remain operational post-flood-event to remove flood waters after a storm surge has	
	receded. Such pump system shall be designed with the pump controller located above	

	the design flood elevation and all electrical wiring below the design flood elevation shall	
	be listed and marked for use with a submersible pump. The pump system shall be	
	connected to a standby power source, which shall be elevated above the design flood	
	elevation.	
BC G305 - MANUFACTURED HOMES		
G305.1 General	G305.1 Elevation. All new and replacement manufactured homes shall be prohibited in	Section has been reformatted . No
Manufactured homes shall be prohibited in	coastal high-hazard areas. Within A-Zones, all new, replaced or substantially improved	change to elevation requirements
V-Zones.	manufactured homes shall be elevated such that the lowest floor of the manufactured	
Within A-Zones, all new, replaced or	home is elevated to or above the design flood elevation as specified in ASCE 24, Table 2-	
substantially improved manufactured	1.	
homes shall be:	_	
1. Installed using methods and practices		
that minimize flood damage;		
2 Elevated to or above the design flood		
2. Elevated to of above the design flood		
1.		
1,		
3. Placed on a permanent, reinforced		
foundation that is designed in		
accordance with ASCE 24;		
4. Securely anchored to a foundation		
system designed to resist floatation,		
collapse and lateral movement. Methods of		
anchoring are authorized to include, but		
are not limited to, use of over-the-top or		
frame ties to ground anchors. This		
requirement is in addition to applicable		
state and local anchoring requirements for		
resisting wind forces.		
G305.2 (Not in 2014 Code)	G305.2 Foundations. Within A-Zones, all new and replacement manufactured homes,	Section has been reformatted . No
	including substantial improvement of existing manufactured homes, shall be placed on a	change to foundation requirements
	permanent, reinforced foundation that is designed in accordance with ASCE 24.	

G305.3 (Not in 2014 Code)	G305.3 Anchoring. <u>Manufactured homes shall be securely</u> anchored to [a] <u>an adequately</u> <u>anchored</u> foundation system [designed] to resist flotation, collapse and lateral movement. Methods of anchoring are authorized to include, but are not limited to, use of over-the-top or frame ties to ground anchors. This requirement is in addition to applicable state and local anchoring requirements for resisting wind forces.	Section has been reformatted . No change to anchoring requirements
G305.4 (Not in 2014 Code)	G305.4 Protection of mechanical equipment and outside appliances. Mechanicalequipment and outside appliances shall be elevated to or above the design floodelevation.Exception: Where such equipment and appliances are designed and installed to preventwater from entering or accumulating within their components and the systems areconstructed to resist hydrostatic and hydrodynamic loads and stresses, including theeffects of buoyancy, during the occurrence of flooding up to the elevation required byASCE 24, Table 2-1, the systems and equipment shall be permitted to be located belowthe elevation required by ASCE 24, Table 2-1. Electrical wiring systems shall be permittedbelow the design flood elevation provided they conform to the provisions of the NewYork City Electrical Code.	New sub-section addressing mechanical equipment
G305.5 (Not in 2014 Code)	G305.5 Enclosures. Fully enclosed areas below elevated manufactured homes shall comply with the requirements of Section G304.1.1, Item 2.	New sub-section addressing enclosures
BC G306 - RECREATIONAL VEHICLES		
G306.1 General The following shall apply to placement of all recreational vehicles within areas of special flood hazard:	G306.1 [General]-Placement prohibited. The [following shall apply to] placement of [all] recreational vehicles [within areas of special flood hazard:]-shall not be authorized in coastal high-hazard areas or in floodways. [1. Placement in V-Zones and floodways prohibited. The placement of recreational vehicles is prohibited in V-Zones and floodways.]	Section has been reformatted . No change toplacement requirements
 Placement in V-Zones and floodways prohibited. The placement of recreational vehicles is prohibited in V-Zones and floodways. 		

2. Temporary placement in A-Zones. Within A-Zones, recreational vehicles shall be fully licensed and ready for highway use, and shall be placed on a		
site for less than 180 consecutive days.		
3. Permanent placement in A-Zones. Within A-Zones, recreational vehicles that are		
use, or that are to be placed on a site for 180 or more consecutive days, shall		
meet the requirements of Section 28.2-G305 for manufactured homes.		
G306.2 (Not in 2014 Code)	[2-] G306.2 Temporary placement in A-Zones. Recreational vehicles in A-Zones shall be fully licensed and ready for highway use, and shall be placed on a site for less than 180 consecutive days.	Section has been reformatted . No change to temporary placement
G306.3 (Not in 2014 Code)	[3.] <u>G306.3</u> Permanent placement [in A-Zones]. Recreational vehicles in A-Zones that are not fully licensed and ready for highway use, or that are to be placed on a site for 180 or more consecutive days, shall meet the requirements of Section G305 for manufactured homes	Section has been reformatted . No change to permanent placement requirements
BC G107 - TANKS		
G307.5 Elevation of certain tanks and containers serving critical facilities. The following tanks and containers shall be located at or above the design flood elevation specified in ASCE 24, Table 7-1, unless such tanks and containers serve buildings that include I-2 occupancies that are hospitals, in which case such tanks and containers shall be located at or above the greater of (i) the design flood elevation specified in ASCE 24, Table 7-1, or (ii) the 500-year flood elevation. Such tanks and containers must be designed to maintain service to such structure during flood conditions	G307.5 Elevation of certain tanks and containers serving [eritical facilities] flood design class 4 buildings. The following tanks and containers shall be located at or above the design flood elevation specified in ASCE 24, Table 7-1, [unless such tanks and containers serve buildings that include I-2 occupancies that are hospitals, in which case such tanks and containers shall be located at or above the greater of (i) the design flood elevation specified in ASCE 24, Table 7-1, or (ii) the 500-year flood elevation] when serving flood design class 4 buildings. Such tanks and containers must be designed to maintain service to such structure during flood conditions and	Rules formerly applicable to I-2 buildings have been extended to more buildings

 Medical and compressed gas storage tanks, oxygen tanks, and other cryogenic system storage tanks; Hazardous material storage tanks; Stationary compressed gas containers; Stationary cryogenic containers and Stationary flammable gas storage containers. 	 Medical and compressed gas storage tanks, oxygen tanks, and other cryogenic system storage tanks; Hazardous material storage tanks; Stationary compressed gas containers; Stationary cryogenic containers; and Stationary flammable gas storage containers. 	
BC G308 - OTHER BUILDING WORK		
G308.1 Detached accessory structures. Detached accessory structures shall be anchored to prevent flotation, collapse and lateral movement resulting from hydrostatic loads, including the effects of buoyancy, during conditions of flooding to the design flood elevation. Enclosed accessory structures usable solely for parking or storage shall be wet floodproofed and shall have flood openings to allow for the automatic entry and exit of flood waters designed in accordance with ASCE 24.	G308.1 [Detached] Garages and accessory structures. [Detached] Garages and accessory structures shall be [anchored to prevent flotation, collapse and lateral movement resulting from hydrostatic loads, including the effects of buoyancy, during conditions of flooding to the design flood elevation. Enclosed accessory structures usable solely for parking or storage shall be wet floodproofed and shall have flood openings to allow for the automatic entry and exit of flood waters] designed <u>and</u> <u>constructed</u> in accordance with ASCE 24, <u>Section 9.4</u> .	Section has been simplified to dictate that such structures must comply with ASCE
G308.5 Prefabricated swimming pools in floodways. Prefabricated swimming pools in floodways shall meet the requirements of Section G103.5.	G308.5 [Prefabricated swimming pools in floodways. Prefabricated swimming pools] Swimming pools. Swimming pools shall be designed and constructed in accordance with ASCE 24. Above-ground swimming pools, on-ground swimming pools and in-ground swimming pools that involve placement of fill in floodways shall also meet the requirements of Section G103.5.	Section covers all swimming pools not just pre-fabricated
G308.6 Temporary flood shields. Temporary flood shields shall be permitted in accordance with Section 6.2.3 of ASCE 24.	G308.6 [Temporary flood shields. Temporary flood shields shall be permitted in accordance with Section 6.2.3 of ASCE 24.] Decks, porches, and patios. Decks, porches and patios shall be designed and constructed in accordance with ASCE 24.	New section
G308.7 Temporary stairs and ramps. Temporary stairs and ramps shall comply with the requirements of Sections G308.7.1 and G308.7.2. <i>(Moved to G308.10)</i>	G308.7 Nonstructural concrete slabs in coastal high-hazard areas and coastal A-Zones. In coastal high-hazard areas and coastal A-Zones, nonstructural concrete slabs used as parking pads, enclosure floors, landings, decks, walkways, patios and similar nonstructural uses are permitted beneath or adjacent to buildings and structures provided that the concrete slabs shall be constructed in accordance with ASCE 24, Section 9.3.	New section

G308.8 (Not in 2014 Code)	G308.8 Roads and watercourse crossings in regulated floodways. Roads and	New section
	watercourse crossings that encroach into regulated floodways, including roads, bridges,	
	culverts, low-water crossings and similar means for vehicles or pedestrians to travel	
	from one side of a watercourse to the other, shall meet the requirement of Section	
	<u>G103.5.</u>	
G308.9 (Not in 2014 Code)	G308.9 Temporary flood shields. Temporary flood shields shall be permitted in	Addresses previous conflict between
	accordance with Section 6.2.3 of ASCE 24. Temporary flood shields shall be located and	flood shield installation and FDNY
	arranged so as to allow hose lines to be attached to the inlets of fire department	Siamese access. References shields as
	connections without interference in accordance with Section 6.4.5 of NFPA 14 as	encroachments.
	modified by Appendix Q. Where temporary flood shields extend beyond the property	
	line, Section 3202 for permitted encroachments into the public right-of-way shall apply.	
G308.10 (Moved from 308.7)	G308.10 Temporary stairs and ramps. Temporary stairs and ramps shall comply with the	Addresses previous conflict between
	requirements of Sections [G308.7.1] G308.10.1 and [G308.7.2] G308.10.2. Temporary	temporary structures installation and
	stairs and ramps shall be located and arranged so as to allow hose lines to be attached	FDNY Siamese access. References
	to the inlets of fire department connections without interference in accordance with	structures as encroachments
	Section 6.4.5 of NFPA 14, as modified by Appendix Q. Where temporary stairs and ramps	
	extend beyond the property line, Section 3202 for permitted encroachments into the	
	public right-of-way shall apply.	
G308.10.1 (Moved from 308.7.1)	G308.10.1 Evacuated buildings. Temporary stairs and ramps shall be permitted to	No change
	provide elevated ingress and egress in compliance with Item 3 of Section 6.2.2 of ASCE	
	24 for buildings or portions of buildings that are planned to be evacuated during design	
	flood conditions, except for maintenance and emergency personnel, provided that such	
	temporary stairs and ramps shall not be permitted to serve as a required means of	
	egress for a dwelling unit or for any area described in Item 2.2.1 of Section G304.1.2	
	required to be located at or above the design flood elevation.	
G308.10.2 (Moved from 308.7.2)	G308.10.2 Existing buildings. Temporary stairs and ramps for an existing building or	No change
	portions thereof shall be permitted to provide elevated ingress and egress in compliance	
	with Item 3 of Section 6.2.2 of ASCE 24, including as a required means of egress for	
	dwelling units or for areas described in Item 2.2.1 of Section G304.1.2 required to be	
	located at or above the design flood elevation, where such temporary stairs and ramps	
	comply with Sections 1009 and 1010.	
G308.11 (Not in 2014 Code)	G308.11 Alterations to pre-FIRM buildings involving flood protective works. Where	New compliance path for certain pre-
	alterations to pre-FIRM buildings within the flood hazard area, other than substantial	firm buildings.
	improvements or horizontal enlargements, include the installation of flood protective	

	works, compliance with ASCE 24, Section 6.2.2 shall be required. Flood protective works	Addresses potential conflicts with
	shall be located and arranged so as to allow hose lines to be attached to the inlets of fire	compliance and FDNY Siamese access.
	department connections without interference in accordance with Section 6.4.5 of NFPA	-
	14, as modified by Appendix Q of this code.	
BC G309 - TEMPORARY STRUCTURES AND TEMPORARY STORA	GE	
BC G310 - UTILITY AND MISCELLANEOUS GROUP U		
G310.6 Protection of mechanical, plumbing and electrical	G310.6 Protection of mechanical, plumbing and electrical systems. Mechanical,	No significant change. Reference is
systems. Mechanical, plumbing and electrical systems,	plumbing and electrical systems, including plumbing fixtures, shall be elevated to or	made to dry floodproofing
including plumbing fixtures, shall be elevated to or above the	above the design flood elevation.	requirements for non-residential
design flood elevation.	Exception: [The following] Electrical systems, equipment and components; heating,	buildings.
Exception: The following shall be permitted to be located	ventilating, air conditioning and plumbing appliances; plumbing fixtures, duct systems	
below the design flood elevation provided that they are	and other service equipment shall be permitted to be located below the design flood	
designed and installed to prevent water from entering or	elevation provided that they are designed and installed [to prevent water from entering	
accumulating within the components and to resist	or accumulating within the components and to resist hydrostatic and hydrodynamic	
hydrostatic and hydrodynamic loads and stresses, including	loads and stresses, including the effects of buoyancy, during the occurrence of flooding	
the effects of buoyancy, during the occurrence of	to the design flood elevation in compliance with the flood-resistant construction	
flooding to the design flood elevation in compliance with	requirements of this code:]	
the flood-resistant construction requirements of this code:	[1. Electrical systems, equipment and components;]	
1. Electrical systems, equipment and components;	[2. Heating, ventilating, air conditioning, and plumbing appliances;]	
2. Heating, ventilating, air conditioning, and plumbing	[3. Plumbing fixtures;]	
appliances;	[4. Duct systems; and]	
3. Plumbing fixtures;	[5. Other service equipment.]	
4. Duct systems; and	in compliance with Section G304.1.2, Item 2.3 and other applicable flood-resistant	
5. Other service equipment.	construction requirements of this code.	
Electrical wiring systems shall be permitted to be located	Electrical wiring systems shall be permitted to be located below the design flood	
below the design flood elevation provided they conform	elevation provided they conform to the provisions of the New York City Electrical Code	
to the provisions of the New York City Electrical Code.	and <u>Section 7.2 of ASCE 24.</u>	
BC G311 - HAZARDOUS SUBSTANCES		
SECTION BC G311	SECTION BC G311	
Retroactive Requirements (Moved to G312)	Hazardous Substances	
G311.1 General. Notwithstanding any other provision of	G311.1 Hazardous substances. Portable containers located in the flood hazard area that	New Section related to Hazardous
the New York City Construction Codes, the provisions of	store hazardous substances, as defined in Section 41-03 of Title 15 of the Rules of the	substance storage
this section shall apply retroactively to all buildings and	City of New York, shall comply with Section 41-14 of Title 15 of the Rules of the City of	
structures specified herein.	New York.	

BC G312 - RETROACTIVE REQUIREMENTS		
SECTION BC G312 (Not in 2014 Code)	SECTION BC G312	
	Retroactive Requirements	
BC G401 - REFERENCED STANDARDS		
SECTION BC G401	SECTION BC G401	
General	Referenced Standards	
G401.4 Reserved.	(Removed from 2014 Code)	No significant changes
G401.5 Reserved.		
G401.6 Reserved.		
BC G402 - STANDARDS		
SECTION BC G402	(Same Reference standards. Versions updated and coordinated with code references)	ASCE 7- 2016
Standards		ASCE 24 - 2014
BC G501 - MODIFICATIONS TO REFERENCED STANDARDS		
SECTION BC G501	SECTION BC G501	
Modifications	Modifications to Referenced Standards	
	Changes to Tables 1-1, 2-1, 4-1, 5-1, 6-1, 7-1 (Reference Bottom of Appendix G to see	
	the changes on the Tables)	
	G501.1 Amendments to [ASCE 24-05] ASCE 24-14. The following amendments are	1.1.1 modified to clarify that certain
	hereby made to the applicable sections of [ASCE 24-05] ASCE 24-14. Refer to the rules of	flood hazard categories do not
	the department for any subsequent additions, modifications or deletions that may have	apply to NYC
	been made to this standard in accordance with Section 28-103.19 of the Administrative	
	Code.	
	Section 1.1. Section 1.1 (Scope) is amended by deleting the sentence "In addition to the	
	requirements of this section (see Fig. 1-2):" and Items 1 through 4, and by adding the	
	following paragraph to read as follows:	
	[The scope] In addition to the requirements of this section, the applicability of this	
	standard is as provided for in Section G102.1 of the New York City Building Code,	
	Appendix G.	
	Section 1.1. Figure 1-2 (Application of Chapters) of Section 1.2. Delete.	
	Section [1.1.2] 1.1.1. A new Section [1.1.2] 1.1.1 is added to read as follows:	
	[1.1.2] 1.1.1 High-risk flood hazard areas. Notwithstanding any other provision in this	
	standard, no special flood hazard area in New York City shall be classified as alluvial fan	
	area, flash flood area, mudslide area, ice jam and debris area, erosion-prone area, high-	
	velocity flow area.	

Section 1.2. Section 1.2 (Definitions) is amended by modifying only the following	
definitions to read as follows:	Certain definitions have been
Breakaway wall— As defined in Section G201 of the New York City Building Code,	modified from what is Listed in ASCE
Appendix G.	24-14
Design flood elevation—The applicable elevation specified in Table 2-1, 4-1, 5-1, 6-1, or	
7-1, depending on the [structural occupancy category] flood design classification	
designated in Table 1-1.	
High-risk flood hazard area —An area designated as a coastal high-hazard area, being	Note that many of the definitions
those areas identified on the FIRM as a V-Zone or Coastal A-Zone.	have been moved to Chapter 2 of the
Nonresidential— [As defined] Defined as Nonresidential (for flood zone purposes) in	code.
Section G201 of the New York City Building Code, Appendix G.	
Residential — [As defined] Defined as Residential (for flood zone purposes) in Section	
G201 of the New York City Building Code, Appendix G.	
Section 6.2.1. (Dry Floodproofing Limitations) is amended to add the following	NYC specific exceptions allowing for
exceptions:	floodproofing for buildings subject to
Exceptions:	higher flood velocities and in Coastal A
1. Upon special application to the commissioner, the department may authorize dry	zones with commissioner's approval.
floodproofing for designs that demonstrate resistance to flood velocities exceeding 5	
ft/s while meeting the other limitations of this standard.	
2. Dry floodproofing shall be permitted in Coastal A-Zones, provided:	
1 such dry floodproofing complies with the requirements of Appendix G of the New	
York City Building Code; and	
2155	
2.2 where flood velocities adjacent to the structure exceed 5 ft/s, the commissioner has	
uthorized the dry floodproofing in accordance with Exception 1.	
Section 6.2.2. Item 1 of Section 6.2.2 (Dry Floodproofing Requirements) is amended to	
read as follows:	
1. Be designed and constructed so that any area below the applicable elevation specified	
in Table 6-1, together with attendant utilities, equipment, and sanitary facilities, is flood	
resistant with walls that are substantially impermeable to the passage of water. Where	Clarifies that fixed glazing can be part
acceptable to the commissioner, fixed flood-resistant glazing systems may be used when	of a dry floodproofing system when
tested and designed to be within walls substantially impermeable to water. Walls, floors,	approved by the commissioner.
and flood shields shall be designed and constructed to resist hydrostatic, hydrodynamic,	

and other flood-related loads, including the effects of buoyancy resulting from flooding	
to the elevation listed in Table 6-1;	
Section 6.2.2. Item 3 of Section 6.2.2 (Dry Floodproofing Requirements) is amended to	
read as follows:	
3. [Have either:] Provide egress and ingress, where a means of egress is required by	
Chapter 10 of the New York City Building Code, to such dry floodproofed areas of	
structures in accordance with Item 3.1, 3.2 or 3.3, or a combination thereof, where	
permitted, as follows:	
[3.1.] 3.1 Egress and ingress not blocked by shields. [All required means] Means of	These sections have been added to
egress shall be elevated to or above the applicable DFE specified in Table 6-1, capable of	help designers address the former
providing human ingress and egress during the design flood between the dry	requirement that spaces with
floodproofed area to the exterior, without being blocked by flood shields or flood	entrances below DFE (ex. Ground floor
<u>control devices</u> ; or	retail space) needed to maintain an
[3.2.] 3.2 [At least one elevated door located in close proximity to each required means	exit above DFE after flood shields
of egress to the exterior that is to be blocked by flood shields or flood control devices,	were installed. The space now has the
such that the] Egress and ingress blocked by shields not serving dwelling units. Where a	option to provide a path to an exit in
means of egress required by Chapter 10 of the New York City Building Code that does	another part of the building above
not serve a dwelling unit is to be blocked by flood shields or flood control devices, an	DFE.
alternate means of egress shall be provided capable of providing human ingress and	
egress during the design flood between the dry floodproofed area to the exterior. The	
alternate means of egress shall comprise of: (i) a door providing ingress and egress	
opening directly to the exterior at or above the DFE, and such door shall be permitted to	
be accessed by steps or ramps; or (ii) a means of egress leading to an exterior exit door	
not blocked by shields or which is constructed as a wet floodproofed enclosure where	
discharging below the DFE, and such means of egress shall be permitted to be accessed	
by stairs and ramps. In either case, such alternate means of egress shall also comply with	
Items 3.2.1 through 3.2.6:	
3.2.1 Alternate Means of Egress Entrance. The alternate means of egress entrance door,	
or directional signage to such alternate means of egress entrance door shall be readily	
visible and identifiable within a direct line of sight to a person approaching the blocked	
egress door(s). The path of travel from the blocked egress door to the alternate means	
of egress entrance shall be unobstructed with a travel distance of not more than 40 ft as	
measured from the blocked means of egress. Directional signage to the alternate means	

of egress shal	be installed on the exit door blocked by flood shields prior to flood	
condition and	removed during non-flood conditions.	
3.2.2 Travel D	stance. The path of travel from the alternate means of egress entrance	
door leading t	o the exterior of the building shall not exceed 100 ft.	
3.2.3 Tempora	ry Stairs, Ramps and Platforms. For buildings or portions of buildings that	
are planned to	be evacuated during the design flood condition and pre-FIRM buildings,	
temporary sta	irs and ramps shall be permitted to serve as an alternate means of egress	
if their only p	rpose is to provide supplemental egress and ingress during conditions of	
flooding subje	ct to the limitations of Section G308.10 of the New York City Building	
Code.		
3.2.3.1 Doors.	Any door opening directly onto such temporary stairs or platforms shall	
be secured du	ring non-flood conditions to prevent use when such temporary stairs and	
ramps are in s	torage.	
3.2.3.2 Signag	e. Directional signage to an egress utilizing temporary stairs, ramps or	
platforms sha	be removed to prevent accidental operation during non-flood conditions.	
3.2.4 Visibility	from outside. Permanent signage affixed to the outside of flood shields or	
flood control	levices that block the egress door shall provide directions to first	
responders or	other personnel seeking to locate the path into the space from the	
exterior.		
3.2.5 Complia	nce with egress requirements. Such alternate means of egress shall meet	
all requirement	ts of Chapter 10 of the New York City Building Code for a required means	
of egress. incl	Iding, travel distances, hardware and signage. Where an alternate means	
of egress may	be used as a means of egress at any time other than a flood event	
temporary sta	irs and ramps shall not be permitted.	
Exceptions for	buildings or portions of buildings that are planned to be evacuated during	
the design flo	ad conditions:	
1 Such altern	ate means of egress shall not be required to comply with occupant load	
calculations o	the New York City Building Code if its only purpose is to provide	
sundemental	egress and ingress during conditions of flooding	
30ppierrentai 3157		
2157 2 The alterna	re means of egress may serve more than one required exit provided that	
2. The alternation of the travel dist	ances to and within the alternate means of egress comply with item 2.2.1	
and Itom 2.2	from each required means of egress that is blocked by flood chields or	
diu item 5.2.4	lovicos	
Tiood control		

3.2.6 Accessibility. The alternate means of egress shall not be required to comply with	
Chapter 11 of the New York City Building Code if its only purpose is to provide	
supplemental egress and ingress during conditions of flooding, unless the structure is	
intended for occupancy during the design flood.	
3.3 Egress and ingress blocked by shields serving dwelling units. For each means of	Alternate means of egress
egress required by Chapter 10 of the New York City Building Code that serves a dwelling	requirements are more restrictive for
unit and is to be blocked by flood shields or flood control devices, at least one alternate	means that serve dwelling units
means of egress shall be provided capable of providing human ingress and egress during	
the design flood between the dry floodproofed area to the exterior. The alternate mean	5
of egress shall comprise either an elevated door opening directly to the exterior of the	
building arranged in accordance with Section 3.3.1 or an enclosure that incorporates we	t 🗌
floodproofing and is arranged in accordance with Section 3.3.2.	
3.3.1 Elevated door. Where an elevated door is provided, such door shall be capable of	
providing human ingress and egress during the design flood. The elevated door shall	
open directly to the exterior of the building and shall be located in close proximity to the	
required means of egress to the exterior that is to be blocked by flood shields or flood	
control devices as follows:	
3.3.1.1 Face of door. The face of the elevated door itself, and not merely its directional	
signage, shall be arranged so it is clearly visible to a person approaching the blocked	
egress door(s).	
3.3.1.2 Elevation of door. Such door(s) shall be elevated to [at] or above the applicable	
DFE specified in Table 6-1 [, capable of providing human ingress and egress during the	
design flood].	
3.3.1.3 Compliance with egress requirements. Such door shall meet all New York City	
Building Code requirements for a required means of egress to the exterior of the	
structure including hardware and signage {, but shall not be required to comply with	
occupant load calculations, unless the structure is intended for occupancy during the	
design flood].	
3.3.1.4 Accessibility. Such door may be accessed by open steps and shall not be required	
to comply with Chapter 11 of the New York City Building Code if its only purpose is to	
provide supplemental egress and ingress during conditions of flooding and to provide	
emergency egress at other times.	
3.3.2 Enclosure that incorporates wet floodproofing. Where an enclosure which is	
partially wet floodproofed is used to provide alternate means of egress, such means of	

egress shall be capable of providing human ingress and egress during the design flood	
and shall be located in close proximity to the required means of egress to the exterior	
that is to be blocked by flood shields or flood control devices as follows:	
3.3.2.1 Face of door to enclosure. The face of the door to the enclosure, and not merely	
its directional signage, shall be arranged so it is clearly visible to a person approaching	
the blocked egress door(s).	
3.3.2.2 Wet floodproofing within an enclosure. Wet floodproofed portions of the	
enclosure shall be designed to comply with Section 6.3 and resist all flood related loads	
while prohibiting infiltration of floodwater to dry floodproofed spaces within the	
building.	
3.3.2.3 Travel Distance. The path of travel from the alternate means of egress entrance	
door to the door leading to the exterior of the building shall not exceed 25 ft.	
3.3.2.4 Compliance with egress requirements. The entrance and exit door shall meet all	
requirements of Chapter 10 of the New York City Building Code for a required means of	
egress to the exterior of the structure including hardware and signage.	
Section 6.2.3 Limits on human intervention. Dry floodproofing measures that require	No substantial changes
human intervention to activate or implement prior to or during a flood, including	
temporary stairs or ramps, shall be permitted only when all of the following conditions	
are satisfied:	
1. The flood warning time (alerting potential flood victims of a pending flood situation)	
shall be a minimum of 12 [hours,] h unless the community operates a flood warning	
system and implements an emergency plan to ensure safe evacuation of flood hazard	
areas, in which case human intervention is allowed only if the community can provide a	
minimum flood warning time equal to or longer than the cumulative <u>time</u> :	
(a) [time] to notify [person(s)] persons responsible for installation of floodproofing	
measures, [plus]	
(b) [time] for responsible persons to travel to structure to be floodproofed, [plus]	
(c) [time] to install, activate, or implement floodproofing measures, [plus] and	
(d) [time] to evacuate all occupants from the flood hazard area.	
2. All removable shields or covers for openings such as windows, doors, and other	
openings in walls and temporary stairs or ramps shall be designed to resist flood loads	
specified in Section 1.6.	
3. Where removable shields or temporary stairs or ramps are to be used, a flood	
emergency plan shall be approved by the authority having jurisdiction and shall specify,	

at a minimum, the following information: storage [location(s)] locations of the shields	
and temporary stairs and ramps; the method of installation and removal; conditions	
activating installation and removal; maintenance of shields and attachment devices and	
temporary stairs and ramps; periodic practice of installing and removing shields and	
temporary stairs and ramps; testing sump pumps and other drainage measures; and	
inspecting necessary material and equipment to activate or implement floodproofing.	
The flood emergency plan shall be posted permanently [posted] in at least two	
conspicuous locations within the structure.	
4. Where removable shields or temporary stairs or ramps are to be used, they shall be	Off site storage of flood shields
stored on site within a building or within a secured, weather-resistant enclosure. Off-site	prohibited for post-firm
storage shall be prohibited for buildings required to comply with Section G304.	construction, horizontal
5. Where removable shields or temporary stairs or ramps are proposed as per Section	enlargements and substantial
G304, periodic inspections, including a triennial full scale deployment, shall be	improvements
conducted in accordance with Article 324 of the Administrative Code.	
7.2.4 Panel boards, Disconnect [switches] Switches, and [circuit breakers] Circuit	
Breakers. The panel boards, load centers, main disconnect [switch] switches, all service	
disconnecting means, and all circuit breakers shall be located above and be accessible	
from the elevation specified in Table 7-1, or within a dry floodproofed enclosure, except	
where prohibited by the New York City Building Code. [Switches] Panel boards, load	
centers, main disconnect switches, all service disconnecting means, and circuit breakers	
shall be located no more than 6 feet 7 inches (2 m) above the floor, or a platform shall	
be installed to provide access.	
Section 8.1. Section 8.1 (General) is amended to read as follows:	
8.1 General. Stairways and ramps, including stairs and ramps pursuant to Section	
G308.10 of the New York City Building Code, that are located below the elevations	
specified in Tables 2-1 and 4-1 shall be designed and constructed to:	
1. Resist flood-related loads specified in Section 1.6 and minimize transfer of flood-	
related loads to the structure and structure foundation; or	
2. Break away during design flood conditions without causing damage to the structure,	
including the foundation; or	
3. Use materials that conform to Chapter 5 for those portions of stairways and ramps	
that are located below the elevations specified in Tables 2-1 and 4-1, including items	
such as gates and doors.	

In flood hazard areas other than Coastal High-Hazard Areas and Coastal A	-Zones,
enclosures for stairways and ramps that extend below the elevations spec	cified in Table
2-1 shall conform to the requirements for enclosures in Section 2.7. In Co.	astal High-
Hazard Areas and Coastal A-Zones, enclosures for stairways and ramps th	at extend
below the elevations specified in Table 4-1 shall conform to the requirem	ents for Section related to retractable stairs
enclosures in Section 4.6.	in ASCE 24-14 not adopted
Elevators shall conform to the requirements of Section 7.5.	
Exercision 9.5. Section 9.5 (Pools) is amended by adding a new paragraph to	o read as
follows:]	
[Mechanical equipment for pools such as pumps and water heaters, and a	associated
electrical wiring, shall comply with Section 7.2 and 7.4.]	
Section 9.7. The first sentence of Section 9.7 (Tanks) is amended to read a	as follows:
Tanks and tank inlets, fill openings, outlets, and vents shall terminate in a	ccordance with
Section G307.3 of the New York City Building Code or where located below	w the design
flood elevation, shall be designed, constructed, installed, and anchored to	o resist all
flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during flood-related and other loads, including the effects of buoyancy, during fl	ooding up to
and including the design flood and without release of contents into flood	waters or
infiltration of floodwaters into the tanks.	

[CLASSIFICAT [(CLA S	TABLE 1-1 ION OF STRUCTURES FOR FLOOD RESISTANT DESIGN AND CONSTRUCTIO SSIFICATION SAME AS NEW YORK CITY BUILDING CODE TABLE 1604.5)] FLOOD DESIGN CLASS OF BUILDINGS AND STRUCTURES	The table was updated to match ASCE 24 -14 with the following changes	
[STRUCTURAL OCCUPANCY/ CATECORY]	[NATURE OF OCCUPANCY] USE OF OCCUPANCY OF BUILDINGS AND STRUCTURES	FLOOD DESIGN CLASS	Class 3 structures include any assembly space containing more than 300 people
[I]	Buildings and [other] structures that [represent a low hazard to human life in the event of failure, including but not limited to:] normally are unoccupied and pose minimal risk to the public or minimal disruption to the community should they be damaged or fail due to flooding. Flood Design Class 1 includes: 1. [Agricultural facilities-] [2-] [Certain] certain temporary [facilities-] structures that are in place for less than 180 days. [3-] 2_ [Minor] accessory storage buildings and minor storage facilities. 3. small structures used for parking of vehicles, and 4. certain agricultural structures.*	1	Buildings containing certain toxic chemicals, buildings needed for national defense and water storage facilities added to Class 4.
[11]	Buildings and [other] structures that pose a moderate risk to the public or moderate disruption to the community should they be damaged or fail due to flooding, except those listed [in Occupancy Categories I, III and IV] as Flood Design Classes 1, 3, and 4. Flood Design Class 2 includes the vast majority of buildings and structures that are not specifically assigned another Flood Design Class, including most residential, commercial, and industrial buildings.	2	
[111]	 Buildings and [other] structures that [represent a substantial hazard to human life in the event of failure, including but not limited to:] [1. Buildings and other structures whose primary occupancy is public assembly with an occupant load greater than 300.] [2. Buildings and other structures containing elementary school, secondary school or day care facilities with an occupant load greater than 250.] [3. Buildings and other structures containing adult education facilities, such as colleges and universities with an occupant load greater than 500.] [4. Group I 2 occupancies with an occupant load of 50 or more resident patients but not having surgery or emergency treatment facilities.] [5. Group I 3 occupancies.] [6. Any other occupancy with an occupant load greater than 5,000*.] [7. Power generating stations, water treatment facilities for potable water, waste water treatment facilities and other public utility facilities not included in Occupancy Category IV-containing sufficient quantities of toxic or explosive substances to be dangerous to the public or significant disruption to the community should they be damaged, be unable to perform their intended functions after flooding, or fail due to flooding. Flood Design Class 3 includes: 	3	

[STRUCTURAL OCCUPANCY/ CATEGORY]	[NATURE OF OCCUPANCY] USE OF OCCUPANCY OF BUILDINGS AND STRUCTURES 1. buildings and structures in which 300 or more persons may assemble in	FLOOD DESIGN CLASS	
	one place, such as theaters, lecture halls, and religious institutions with large areas used for worship; 2. museums; 3. community centers and other recreational facilities; 4. athletic facilities with seating for spectators; 5. elementary schools, secondary schools, and buildings with college or adult education classrooms; 6. jails, correctional facilities, and detention facilities; 7. healthcare facilities not having surgery or emergency treatment capabilities; 8. care facilities where residents have limited mobility or ability, including nursing homes but not including care facilities for five or fewer persons; 9. preschool and child care facilities not located in one- and two-family dwellings;		
	 buildings and structures associated with power generating stations, water and sewage treatment plants, telecommunication facilities, and other utilities which, if their operations were interrupted by a flood, would cause significant disruption in day-to-day life or significant economic losses in a community; and buildings and other structures not included in Flood Design Class 4 (including but not limited to facilities that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, hazardous waste, or explosives) containing toxic or explosive substances where the quantity of the material exceeds a threshold quantity established by the authority having jurisdiction and is sufficient to pose a threat to the public if released.^b 		
[14.]	 Buildings and [other] structures [designated as] that contain essential facilities[₇ including but not limited to:] and services necessary for emergency response and recovery, or that pose a substantial risk to the community at large in the event of failure, disruption of function, or damage by flooding. Flood Design Class 4 includes: 1. [Group] group I-2 occupancies having surgery or emergency treatment facilities[-] : 2. [Fire] fire, rescue, ambulance, and police stations and emergency vehicle garages[-] : 3. [Designated carthquake, hurricane or other] designated emergency shelters[-] : 4. [Designated] designated emergency preparedness, [communications] communication, and [operations] operation_centers and other facilities required for emergency response [-] : 5. [Power generating] power generating stations and other public utility facilities required [as emergency backup facilities for Occupancy Category 	4	

[STRUCTURAL OCCUPANCY/ CATEGORY]	[NATURE OF OCCUPANCY] USE OF OCCUPANCY OF BUILDINGS AND STRUCTURES	FLOOD DESIGN CLASS	
	IV structures-] in emergencies: 6. [Structures] structures containing highly toxic materials as defined by		
	Section 307 where the quantity of the material exceeds the maximum allowable quantities of Table 307.1(2)[-] :		
	 [Aviation] critical aviation facilities such as control towers, air traffic control centers, and [emergency aircraft] hangars[-] for aircraft used in emergency response; 		
	 ancillary structures such as communication towers, electrical substations, fuel or water storage tanks, or other structures necessary to allow continued functioning of a Flood Design Class 4 facility during and after an emergency; 		
	[8-] 9. [Buildings] buildings and other structures having critical national defense functions[-] : and		
	[9-] <u>10.[Water] water</u> storage facilities and pump structures required to maintain water pressure for fire suppression.		
a. [For purposes of o shall be permitted exempt from some b. Buildings and othe a lower Flood Dess assessment as desc the substances is c	ccupant load calculation, occupancies required by Table 1004.1.1 to use gross floor area calculation to use net floor areas to determine the total occupant load.] Certain agricultural structures may of the provisions of this standard; see Section C1.4.3. er structures containing toxic, highly toxic, or explosive substances shall be eligible for assignment ign Class if it can be demonstrated to the satisfaction of the authority having jurisdiction by a haza ribed in Section 1.5.3 of Minimum Design Loads for Buildings and Other Structures that a release ommensurate with the risk associated with that Flood Design Class.	nns be to trd of	

M [REL FLOOD HAZARD AR]	TAB INIMUM ELEVATION OF ATIVE TO DESIGN FLOOD EAS OTHER THAN COAST [STRUCTURAL OCCUPANCY CATEGORY] FLOOD DESIGN CLASS ^b	LE 2-1 THE TOP OF LOWEST FLOO DELEVATION (DFE) A 201 AL HIGH-HAZARD AREAS*, MINIMUM ELEVATION [OF LOWEST FLOOR] .RELATIVE TO BASE FLOOD ELEVATION (BFE) OR DESIGN FLOOD ELEVATION (DFE)	OR NES*] COASTAL A-ZONES*	Substantial change. The DFE has been changed to 2 feet above BFE. Current rules require 1 foot above.
	[1] <u>1</u> °	DFE=BFE <u>+ 2 ft</u>		
	[II (1 and 2 family dwellings)]	[DFE=BFE+ 2 ft]		
	[II*^{,4} (all others)] <u>2</u> ⁴	DFE=BFE+ [1-ft] 2 ft		
	[III^{e,d}] <u>3^d</u>	DFE=BFE+ [1 ft] <u>2 ft</u>		
	[11/***] <u>4</u> 4	DFE=BFE+ 2 ft <u>or 500-</u> <u>year flood elevation</u> <u>whichever is higher</u>		
a. Minimum elevati (see Table 4-1). M specific elevation b. See Table 1-1 [er <u>Design Class</u> des <u>c. Flood Design Clas</u> wet floodproofed <u>Section 6.3.2</u> [e] <u>d</u> For nonresidentia below the minimu [d. Buildings that in structural occupt	ons shown in Table 2-1 do not app Minimum elevations shown in Tab n requirements are given in Secti Table 1604.5 of the New York Cri- criptions. Issa 1 structures shall be allowed by in accordance with the requirem al buildings and nonresidential po- um elevation if the structure meet isclude I 2 occupancies that are b- mary category as indicated in this	by to [V Zones] <u>Coastal High-Hazar</u> le 2-1 apply to [A Zones] <u>other high</u> on 3 of this standard. (N Building Code ,] for [structural occ elow the minimum elevation where the ents of Section 6.3.1 and is wet floo writions of mixed-use buildings, the b s the floodproofing requirements of hospitals shall use the greater of (i) table or (ii) the 500 year flood elev-	d Areas and Coastal A-Zones risk flood hazard areas unless supency category] <u>Flood</u> he structure is permitted to be odproofed in accordance with lowest floor shall be allowed Section [4] <u>6.2</u> . + the DFE for the applicable- ration_]	

[RELATIV]	MINIMUM ELEVATION HORIZONTAL STRUC TO DESICN FLOOD ELEV <u>AREAS</u> A	TABLE 4-1 OF BOTTOM O IURAL MEMBI JATION (DFE) AND COASTAL	F LOWEST SUPPORTING ER OF LOWEST FLOOR -V ZONES <u>-COASTAL HI</u> A-ZONES	Substantial change. The changed to 2 feet above rules require 1 foot abo	DFE has been BFE. Current ve.	
	[STRUCTURAL OCCUPANCY CATECORY] FLOOD DESIGN CLASS*	[MEMBER OR TO THE DI A <u>MINIMUM ELH</u> <u>BASE FLOOD</u> <u>DESIGN FLO</u>	IENTATION RELATIVE RECTION OF WAVE PPROACH IVATION, RELATIVE TO ELEVATION (BFE) OR OD ELEVATION (DFE)			
		[Parallel^b]	[Perpendicular *]			
	[I] <u>1</u>	[DFE=BFE]	DFE=BFE <u>+2ft</u>			
	[II (1- and 2-family dwellings)]	[DFE=BFE+ 2 ft]	[DFE=BFE+ 2 ft]			
	[II"(all others)] <u>2</u>	[DFE-BFE]	DFE=BFE+ [1 ft] <u>2 ft</u>			
	[##*] <u>3</u>	[DFE-BFE+ 1 #]	DFE=BFE+ 2 ft			
	[#¥*] <u>4</u>	[DFE-BFE+ 1 #]	DFE=BFE+ 2 ft <u>. or 500-</u> <u>year flood elevation.</u> <u>whichever is higher</u>			
a. See Table 1 <u>Class</u> descri [b. Orientation less than or from the di [c. Buildings (structural o	-1[-or Table 1604.5 of the New Yor oflowest horizontal structural men equal to +20 degrees from the di rection of approach.] hat include I 2 occupancies that eccupancy category as indicated in	A City Building Cod aber relative to the g rection of approach are hospitals shall a this table or (ii) th	e;] for [structural occupancy cat eneral direction of wave approach ; perpendicular shell mean great -use the greater of (i) the DFI e 500 year flood elevation.]	igory] <u>Flood Design</u> 1; parallel shall mean cr than +20 degrees 3 for the applicable		

MINIMUM ELI ELEVATION (DFE),] M	TABLE EVATION <u>L RELA</u> BELOW WHICE IATERIALS SHA	5-1 A TIVE TO DESICN I FLOOD-DAMAGH LL BE USED	Substantial change. The DFE has been changed to 2 feet above BFE. Current rules require 1 foot above.		
[STRUCTURAL OCCUPANCY CATECORY] <u>FLOOD DESIGN CLASS</u> *	[A-ZONE]	[Coastal High H Coastal [Orientation Paralle ¹⁶] <u>MINIMUM</u> ELEVATION IN FLOOD HAZARD AREAS, OTHER THAN COASTAL HIGH-HAZARD AREAS AND COASTAL A- ZONES. RELATIVE TO DESIGN FLOOD ELEVATION (DFF)	[Orientation A-Zones] [Orientation Perpendicular ^b] <u>MINIMUM</u> <u>ELEVATION IN</u> <u>COASTAL HIGH-</u> <u>HAZARD AREAS</u> <u>AND COASTAL A-</u> <u>ZONES</u> , <u>RELATIVE TO</u> <u>DESIGN FLOOD</u> <u>ELEVATION</u> <u>(DFE)</u>		
[#] <u>1</u>	[DFE-BFE]	DFE=BFE + 2 ft	DFE=BFE <u>+2ft</u>		
[II (1 and 2 family dwellings)]	[DFE=BFE+ 2 #]	[DFE-BFE+ 2 ft]	[DFE-BFE+ 2 ft]		
[11*(all others)] <u>2</u>	[DFE-BFE+ 1 #]	DFE=BFE+ [] ft] <u>2 ft</u>	DFE=BFE+ 2 ft		
[∰P] <u>3</u>	[DFE-BFE+ 1 #]	DFE=BFE+ 2 ft	DFE=BFE+ 3 ft		
[₩ [₽]] <u>4</u>	[DFE-BFE+ 2 #]	DFE=BFE+ 2 ft <u></u> or 500-vear flood <u>elevation</u> , <u>whichever is</u> <u>higher</u>	DFE=BFE+ 3 ft <u>.</u> or 500-year flood <u>elevation.</u> <u>whichever is</u> <u>higher</u>		
a. See Table 1-1[, or Table 1601.5 of th Design Class descriptions. [b. Orientation of lowest horisontal stru- mean less than or equal to +20 degr degrees from the direction of approx [c. Buildings that include I 2 occupan structural occupancy category as inc	e <i>New York City Bui</i> retural member relat rees from the directi a ch.] reies that are hospit dicated in this table	i ding Code,] for [structu ive to the general direc on of approach; perper als shall use the great or (ii) the 500 year floo	ral occupancy category] tion of wave approach; j sdicular shall mean grea er of (i) the DFE for th ed elevation.]	<u>Flood</u> earellel shall ter than +20 e applicable	

MINIMUM ELEVATION O DESIGN FLOOD ELEVATION (DFE) A ZON HIGH	Substantial change. The DFE has been changed to 2 feet above BFE. Current rules require 1 foot above.		
[<u>STRUCTURAL</u> OCCUPANCY CATECORY*] <u>FLOOD DESIGN</u> <u>CLASS^b</u>	MINIMUM ELEVATION OF [FLOODPROOFING ⁶] <u>FLOODPROOFING⁶</u> <u>RELATIVE TO DESIGN</u> <u>FLOOD ELEVATION (DFE)</u>		
[#] <u>1</u>	DFE=BFE+ [1 ft] <u>2 ft</u>		
[##***] <u>2**</u> [###*] <u>3</u>	DFE=BFE+ $[\frac{1}{1}, \frac{1}{1}] \frac{2}{11}$ DFE=BFE+ $[\frac{1}{1}, \frac{1}{1}] \frac{2}{11}$		
[14/#] <u>4</u>	DFE=BFE+ 2 ft <u>. or 500-year</u> flood elevation, whichever is <u>higher</u>		
 a. Dry floodproofing is not allowed in Coastal 19 b. See Table 1-1[-or Table 1601-5 of the New Yor Class descriptions. [4-] C. Wet or dry floodproofing shall extend to the field of the field of the second state of the second st	High-Hazard Areas. Nrk City Building Code; for [structural occup the same level. end residential portions of mixed use build are "residential for flood zone purposes". 12. Item 2.3.1 of the New York City Building lling units in buildings that are "nonresident are hospitals shall use the greater of (i) the in this table or (ii) the 500 year flood eleve	ancy category] Flood Design ings shall not be permitted.] (ii) for certain systems and z <i>Code</i> ; and (jii) for dwelling ial for flood zone purposes". e DFE for the applicable atton.]	

Substantial change. The DFE has been changed to 2 feet and 3 feet above BFE. Current rules require 1 & 2 foot above.

TABLE 7-1 MINIMUM ELEVATION OF [UTILITIES AND] ATTENDANT <u>UTILITIES AND</u> EQUIPMENT [RELATIVE TO DESIGN FLOOD ELEVATION (DFE)]

	LOCATE [UTILITIES AND] ATTENDANT <u>UTILITIES AND</u> EQUIPMENT ABOVE ^b		
[STRUCTURAL OCCUPANCY CATECORY #] <u>FLOOD DESIGN CLASS*</u>	[A Zones] MINIMUM ELEVATION	[Coastal High Hazard Area and Coastal A Zones]	
	IN FLOOD HAZARD AREAS, OTHER THAN COASTAL HICH- HAZARD AREAS AND COASTAL A-ZONES, RELATIVE TO DESIGN FLOOD ELEVATION (DFE)	[Orientation Parallel*] <u>MINIMUM ELEVATION</u> <u>IN COASTAL HIGH-</u> <u>HAZARD AREAS AND</u> <u>COASTAL A-ZONES,</u> <u>RELATIVE TO DESIGN</u> <u>FLOOD ELEVATION</u> <u>(DFE)</u>	[Orientation Perpendicular *]
[1] <u>1</u>	DFE=BFE <u>+ 2 ft</u>	DFE=BFE <u>+ 2 ft</u>	[DFE-BFE]
[II (1 and 2 family dwellings)]	[DFE-BFE+ 2 ft]	[DFE=BFE+ 2 ft]	[DFE=BFE+ 2 ft]
[11⁵⁵⁴(all others)] <u>2</u>	DFE=BFE+ [1 ft] <u>2 ft</u>	DFE=BFE+ [1 ft] <u>2 ft</u>	[DFE=BFE+ 2 ∩]
[###] <u>3</u>	DFE=BFE+ [] <u>1</u> ft] <u>2 ft</u>	DFE=BFE+ [2] <u>3</u> ft	[DFE=BFE+ 3 ft]
[IV 4] <u>4</u>	DFE=BFE+ 2 ft <u>. or 500-</u> <u>year flood elevation.</u> <u>whichever is higher</u>	DFE=BFE+ [2] <u>3</u> ft <u>. or</u> <u>500-year flood</u> elevation, whichever is <u>higher</u>	[DFE-BFE+ 3 A]
 a. See Table 1-1[, or Table 1604.5 of the New York City Building Code,] for [structural occupancy category] <u>Flood Design</u> <u>Class</u> descriptions. b. Locate [utilities and] attendant <u>utilities and</u> equipment above elevations shown unless otherwise provided in [the text] <u>Chapter 7 of ASCE 24.</u> [c. Orientation of lowest horizontal structural member relative to the general direction of wave approach; parallel shall mean loss than at each to ±20 degrees from the direction of approach; parallel shall mean ±20 degrees. 			
from the direction of approach-] [d. Buildings that include L-2 occupancies that are hospitals shall use the greater of (i) the DFE for the applicable structural occupancy category as indicated in this table or (ii) the 500 year flood elevation]			