

# 2021 Virginia Construction Code

## APPENDIX G FLOOD-RESISTANT CONSTRUCTION

### SECTION **G108** SITE IMPROVEMENT

#### **G108.1 Development in floodways.**

Development or land-disturbing activity shall not be authorized in the *floodway* unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice, and prepared by a *registered design professional*, that the proposed encroachment will not result in any increase in the *base flood* level.

#### **G108.2 Coastal high-hazard areas and coastal A zones.**

In *coastal high-hazard areas* and coastal A zones:

1. New buildings and buildings that are substantially improved shall only be authorized landward of the reach of mean high tide.
2. The use of fill for structural support of buildings is prohibited.

#### **G108.3 Sewer facilities.**

All new or replaced sanitary sewer facilities, private sewage treatment plants (including all pumping stations and collector systems) and on-site waste disposal systems shall be designed in accordance with Chapter 7, [ASCE 24](#), to minimize or eliminate infiltration of floodwaters into the facilities and discharge from the facilities into floodwaters, or impairment of the facilities and systems.

#### **G108.4 Water facilities.**

All new or replacement water facilities shall be designed in accordance with the provisions of Chapter 7 [ASCE 24](#), to minimize or eliminate infiltration of floodwaters into the systems.

#### **G108.5 Storm drainage.**

Storm drainage shall be designed to convey the flow of surface waters to minimize or eliminate damage to persons or property.

#### **G108.6 Streets and sidewalks.**

Streets and sidewalks shall be designed to minimize potential for increasing or aggravating *flood* levels.