

# CITY OF BONITA SPRINGS

Community Development Department  
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## COASTAL A and V ZONE DESIGN CERTIFICATE

*[NOTE: This document does not replace the requirement of an elevation certificate.]*

Design/Pre-Construction

As-Built/Post Construction

Property Owner's Name: \_\_\_\_\_

Policy Number (Insurance Co. Use): \_\_\_\_\_ Permit Number: \_\_\_\_\_

Building Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Contractor: \_\_\_\_\_

### SECTION I: Flood insurance Rate Map (FIRM) Information

*[NOTE: Data must reflect FIRM information in effect at time completing document.]*

Community No.: 120680 City of Bonita Springs FIRM Zone(s):  Coastal A  V/VE Zone  Other\*

Coastal Barriers Resource Act (CBRA) Zone  Yes  No Designation Date: \_\_\_\_\_

FIRM Index Date: \_\_\_\_\_ FIRM Panel Number: \_\_\_\_\_ FIRM Panel Date: \_\_\_\_\_

\* Other Explanation (if applicable): \_\_\_\_\_

### SECTION II: Elevation Information Used for Design

*[NOTE: Vertical Datum must be consistent with current datum shown on FIRM. This section documents the elevations/depths used or specified in the design – it does not document surveyed elevations and is not equivalent to the as-built elevations required to be submitted during or after construction.]*

Datum Used:  NGVD29  NAVD88  Other \_\_\_\_\_

New Construction  Substantial Improvement/I Damage Date of Construction: \_\_\_\_\_

1. FIRM Base Flood Elevation (BFE): \_\_\_\_\_ Feet
2. Community's Design Flood Elevation (DFE): \_\_\_\_\_ Feet
3. Elevation of the Bottom of Lowest Horizontal Structural Member: \_\_\_\_\_ Feet
4. Elevation of Lowest Adjacent Grade: \_\_\_\_\_ Feet
5. Depth of Anticipated Scour/Erosion used for Foundation Design: \_\_\_\_\_ Feet
6. Embedment Depth of Pilings of Foundation below Lowest Adjacent Grade: \_\_\_\_\_ Feet

### SECTION III: Design Certification Statement, I certify that:

1. I have developed or reviewed the structural design, plans and specifications for construction of the above referenced building; and
2. That the design and methods of construction specified to be used are in accordance with accepted standards of practice for meeting the following provisions:
  - a. The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE.

- b. The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood elevation.
- c. Wind loading values used are those required by the applicable State or local building code.
- d. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

**SECTION IV: Breakaway Wall Design Certification Statement, I certify that**

*[NOTE: This section must be certified by a registered engineer or architect when breakaway walls are designed to have a resistance of more than 20 psf (0.96kN/m2) determined using allowable stress design.]*

1. I have developed or reviewed the structural design, plans and specifications for construction of breakaway walls to be constructed under the above-referenced building.
2. That the design and methods of construction specified to be used are in accordance with accepted standards of practice for meeting the following provisions:
  - a. Breakaway wall collapse shall result from a water load less than that which would occur during the base flood.
  - b. The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (see Section III).

**SECTION V: Certification and Seal**

This certification is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I certify the Design Certification Statement (Section III) and \_\_\_\_\_ the Breakaway Wall Design Certification Statement (Section IV, check if applicable).

Certifier's Name: \_\_\_\_\_

License Number: \_\_\_\_\_

Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email: \_\_\_\_\_

Date: \_\_\_\_\_

*Place Seal Here:*



Signature: \_\_\_\_\_ Date: \_\_\_\_\_