

# TOWN OF KIAWAH ISLAND V-ZONE DESIGN CERTIFICATE

Owner Name \_\_\_\_\_ Policy Number (Insurance Use) \_\_\_\_\_  
Building Address \_\_\_\_\_ TMP \_\_\_\_\_  
Permit No \_\_\_\_\_

## **SECTION I: Flood Insurance Rate Map (FIRM) Information**

Community No. \_\_\_\_\_ Panel No. \_\_\_\_\_ Suffix \_\_\_\_\_ FIRM Date \_\_\_\_\_ FIRM Zone(s) \_\_\_\_\_

## **SECTION II: Elevation Information Used for Design**

**Note: 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 and after 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 or Foundation Below Lowest Adjacent Grade..... \_\_\_\_\_ feet\*

\*Indicate elevation datum used in 1-4:     NGVD29     NAVD88     Other \_\_\_\_\_

## **SECTION III: V Zone 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 engineering standards of practice\*\* for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE.
- 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.\*\*\* Wind loading values are those required by the applicable State or local building code. 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**

**Note: This section must be certified by a registered engineer or architect when breakaway walls are designed to have a resistance of more than 20psf determined using allowable stress design (ASD).**

I certify that: (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 and (2) that the design and methods of construction specified to be used are in accordance with accepted engineering standards of practice\*\* for meeting the following provisions:

- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood\*\*\*.
- 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 V Zone Design Certification Statement (Section III) and \_\_\_\_\_ the Breakaway Wall Design Certification Statement (Section IV, check if applicable).

Certifier's Name \_\_\_\_\_ License Number \_\_\_\_\_  
Title \_\_\_\_\_ Company \_\_\_\_\_  
Address \_\_\_\_\_

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



# TOWN OF KIAWAH ISLAND BREAKAWAY WALL AS-BUILT CERTIFICATE

PRE-CONSTRUCTION  AS-BUILT

Owner Name \_\_\_\_\_ Policy Number (Insurance Use) \_\_\_\_\_  
Building Address \_\_\_\_\_ TMP \_\_\_\_\_  
Permit No \_\_\_\_\_

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

Community No. \_\_\_\_\_ Panel No. \_\_\_\_\_ Suffix \_\_\_\_\_ FIRM Date \_\_\_\_\_ FIRM Zone(s) \_\_\_\_\_

## SECTION II: Elevation Information Retrieved from Finished Construction Elevation Certificate

1. FIRM Base Flood Elevation (BFE)..... \_\_\_\_\_ feet\*
2. Community's Design Flood Elevation (DFE)..... \_\_\_\_\_ feet\*
3. Elevation of the Bottom of Lowes Horizontal Structural Member..... \_\_\_\_\_ feet\*
4. Elevation of Lowest Adjacent Grade..... \_\_\_\_\_ feet\*

\*Indicate elevation datum used in 1-4:  NGVD29  NAVD88  Other \_\_\_\_\_

## SECTION III: Breakaway Wall Design Certification Statement

**Note: This section must be certified by a registered engineer or architect when breakaway walls are designed to have a resistance of more than 20psf determined using allowable stress design (ASD).**

I certify that: (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 and (2) that the design and methods of construction specified to be used are in accordance with accepted engineering standards of practice\*\* for meeting the following provisions:

- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood\*\*\*.
- 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.
- Flood openings in breakaway walls have been installed, and are in accordance with accepted engineering standards of practice.

## SECTION IV: 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 Breakaway Wall Design Certification Statement (Section III, check if applicable).

Certifier's Name \_\_\_\_\_ License Number \_\_\_\_\_  
Title \_\_\_\_\_ Company \_\_\_\_\_  
Address \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

PLACE SEAL HERE