PASCO COUNTY

Checklist for V and Coastal A Zone Design Certificates

Note that the V and Coastal AE Zone design certificates certify the design of structures in the V and Coastal AE Zone, and must be used in conjunction with finished construction Elevation Certificates.

Property Information including complete property address

Design Elevations

- All elevations must be in a consistent vertical datum (preferably the same datum as the community's FIRM).
- Base Flood Elevation (BFE)
- Elevation of Bottom of Lowest Horizontal Structural Member
- Elevation of Lowest Adjacent Grade (LAG)
- Depth of anticipated scour/erosion used for foundation design
- Embedment depth of pilings or foundation below Lowest Adjacent Grade

What the Signatory is certifying: For ALL certified structures; the design professional has either developed or reviewed the designs, plans, and specifications for the structure and found that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The lowest horizontal structure is above the Base Flood Elevation (BFE) and required Elevation of the Local Ordinances, Building Code and any associated Local Technical Amendments
- 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 used 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.

For certified structures with breakaway walls exceeding a design safe loading resistance of 20 pounds per square foot: The design professional has either developed or reviewed the structural design, plans, and specifications for construction and that the design and methods of construction to be used for the breakaway walls are in accordance with accepted 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; and
- 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.

NOTE: It must be clear on the form that the design professional is or is not certifying the structure for breakaway walls. Adding the text "if applicable" to the breakaway wall clause is not sufficient proof that the walls have been certified.

PASCO COUNTY

Information on Design Professional

- Name
- Signature
- License number
- Date

PASCO COUNTY

V and Coastal A Zone DESIGN CERTIFICATE

Name: _____ Policy Number (Insurance Co. Use): _____

Building Address of Other Description: _____

Permit No.: _____ City: _____ State: _____ Zip Code: _____

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No.: _____ Map No.: _____ 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 or after construction.]

1. FIRM Base Flood Elevation (BFE) ..... _____feet*
2. Community's Required Flood Elevation ..... _____feet*
3. Elevation of the Bottom of Lowest Horizontal Structure 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

* Indicate elevation datum used in 1-4: ☐ NGVD29 ☐ NAVD88 ☐ Other _____

SECTION III: V & A 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 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 used 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 20 psf (0.96 kN/m2) determined using allowable stress design]

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 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).

Place Seal Here

Certifier's Name _____ License Number _____

Title _____ Company Name _____

Address _____

City _____ State _____ Zip Code _____

Signature _____ Date _____ Telephone _____