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V-Zone Certification

This form is to certify that the design, specifications, and plans for any development within a Coastal High Hazard Area (VE Zone) conform to the requirements of Chapter 14 of the Kitty Hawk Town Code.

Name of Property Owner: _____

Structure Address or Other Description: _____

City: _____ State: _____ Zip Code: _____

SECTION I: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION				
1. Community Number	2. Panel Number	3. Suffix	4. Date of FIRM Index	5. FIRM Zone

SECTION II: ELEVATION INFORMATION

Note: Elevations should be rounded to nearest tenth of a foot.

1. Elevation of the Bottom of Lowest Horizontal Structural Member _____ feet

2. Base Flood Elevation (BFE) _____ feet

3. Regulatory Flood Protection Elevation (RFPE) _____ feet

3. Elevation of Lowest Adjacent Grade..... _____ feet

4. Approximate Depth of Anticipated Scour/Erosion Used for Foundation Design..... _____ feet

5. Embedment depth of Pilings or Foundation Below Lowest Adjacent Grade _____ feet

6. Datum Used: _____ NGVD '29 _____ NAVD '88 _____ Other

THE FOLLOWING SECTION REQUIRES CERTIFICATION BY A PROFESSIONAL ENGINEER OR ARCHITECT LICENSED TO PRACTICE IN NORTH CAROLINA

I certify that I have developed or reviewed the structural design, plans and specifications for construction and that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions (any documentation should be attached):

- _____ 1. The bottom of the lowest horizontal structural member of the lowest floor (excluding the pilings or columns), electrical, plumbing, and mechanical equipment are elevated to or above the RFPE.
- _____ 2. The pile or 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 including wave action. Wind loading values used are those required by the applicable N.C. Building Code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the flood, including wave action.
- _____ 3. Any breakaway wall collapse will result from water load less than that which would occur during the base flood.
- _____ 4. The elevated portion of the structure and supporting foundation system will 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 (wind and water loading values defined in (2)).
- _____ 5.
 - a. The swimming pool will not act as an obstruction that will result in damage to structures on the subject or adjacent properties;
 - b. The pool will not be subject to breaking up or floating out of the ground during a coastal flood associated with a 100 year storm; and
 - c. The pool is designed and sited so that any increased wave or debris impact forces will not affect surrounding structures.
- _____ 6.
 - a. Fill material will not be used for structural support;
 - b. Particle composition of the fill material does not have a tendency for excessive natural compaction;
 - c. The fill will not cause wave deflection to the subject structure or adjacent properties; and
 - d. The fill will not cause adverse impacts to the subject structure or adjoining properties due to wave run-up or ramping.

SECTION III: CERTIFICATION		
Name of Certifier	Title	
Firm Name	License Number	
Street Address	Phone Number ()	
City	State	Zip Code
Signature		Date

SEAL