VE ZONE DESIGN CERTIFICATE

[Reproduce the signed document on the title page of the construction documents]

Floodplain Manager Approval
By:_____
Date:_____

Building Address: _____

Permit No._____ City Newport Beach State CA Zip Code_____

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No. 060227 Panel No._____ Suffix _____ FIRM Date _____ FIRM Zone(s)_____

SECTION II: Elevation Information Used for Design

[NOTE: This section documents the elevations/depths required in the design – it is based on topographic survey elevations and is not equivalent to a FEMA form "Elevation Certificate" required to be submitted, reviewed and approved during and after construction.]

1. FIRM Base Flood Elevation (BFE)..... _____ feet NAVD88
2. Flood Design Class (ASCE 24 Table 1-1) ……..._____
3. Design Flood Elevation (DFE) (ASCE: 24 Table 4-1) ……..... _____ feet NAVD88
4. Elevation of the Bottom of Lowest Horizontal Structure Member ..... _____ feet NAVD88
5. Elevation of Lowest Adjacent Grade (LAG)..... _____ feet NAVD88
6. Depth of Anticipated Scour/Erosion used for Foundation Design..... _____ feet
7. Embedment Depth of Pilings of Foundation Below Lowest Adjacent Grade..... _____ feet

SECTION III: VE Zone Design Certification Statement

I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction for the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with ASCE 24 as accepted standards for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated above the BFE plus the minimum additional height required by ASCE 24 Table 4-1; and
- The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to wind and water loads effects 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 and 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

I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of breakaway walls to be constructed for the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with ASCE 24 as accepted standards 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 (see Section III).
- Design of breakaway walls comply with ASCE 24, Sections 4.6.1 & 4.6.2 with ASCE 7, Section 5.3.3 and are designed by a registered professional, with experience in structural design, in accordance with California Residential Code, Section R301.1.3.1, and California Building Code, Section 107.1

SECTION V: Certification and Seal

I certify this VE Zone Design Certification.

Certifier's Name_____ License Number_____

Title_____ Company Name_____

Address_____

City_____ State _____ Zip Code _____

Signature_____ Date_____ Phone_____

Place Stamp Here

Note: The VE Zone design certificate is not a substitute for the NFIP Elevation Certificate which is required to certify as-built elevations needed for flood insurance rating. This certification must be signed and sealed by a registered professional engineer or architect authorized in the State of California to certify structural designs.