

**National Flood Insurance Program
V-Zone Certification**

Property Information	For Insurance Company Use	
SEAVIEW FISHING PIER, LLC	Policy Number	
Structure Address or Other Description 124 FISHING PIER LANE		
City	State	Zip Code
NORTH TOPSAIL BEACH	NC	28460

SECTION I: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Note: To be obtained from FIRMs in effect at the time of the certification

1. Community Number 370466	2. Panel Number 4287	3. Suffix K	4. Date of FIRM Index 06/02/2021	5. FIRM Zone AE 12
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SECTION II: ELEVATION INFORMATION

Note: This form is not a substitute for an Elevation Certificate. Elevations should be rounded to nearest tenth of a foot.

- | | | |
|---|-------------|----------------|
| 1. Elevation of the Bottom of Lowest Horizontal Structure Member | <u>17.0</u> | feet (NAVD 88) |
| 2. Regulatory Flood Protection Elevation (RFPE) | <u>14.0</u> | feet (NAVD 88) |
| 3. Elevation of Lowest Adjacent Grade | <u>7.9</u> | feet (NAVD 88) |
| 4. Approximate Depth of Anticipated Scour/Erosion Used for Foundation Design..... | <u>1.0</u> | feet (NAVD 88) |
| 5. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... | <u>8.0</u> | feet (NAVD 88) |

SECTION III: V-ZONE CERTIFICATION STATEMENT

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

- WL I certify that I have developed or reviewed the structural design, plans and specifications for construction and that the methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:
- WL a) The bottom of the lowest horizontal structure member of the lowest floor (excluding the pilings or columns) is elevated to or above the Regulatory Flood Protection Elevation; and,
- WL b) 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, including grade beams and bracing, if applicable. Water loading values used are those associated with the base flood including wave action. 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 flood, including wave action.

SECTION IV: AREAS BELOW THE LOWEST FLOOR

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

- WL 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 for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:
- WL a) All areas below the lowest floor are free of obstruction (including open lattice work, insect screening, bracing and grade beams as allowed in accordance with FEMA Technical Bulletin 5 and ASCE 24); or
- b) Breakaway walls are constructed in accordance with prescriptive design in FEMA Technical Bulletin 9: Breakaway Walls; or
- c) Breakaway walls shall collapse from water load less than that which would occur during the base flood without causing collapse, displacement, or other structural damage to the elevated portion of the building or supporting foundation system.

SECTION V: SAND DUNES AND MANGROVE STANDS

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

In accordance with 44 CFR 60.3(e)(7) and Paragraph G103.7 of the North Carolina Building Code, the construction:

- WL a) Does not alter sand dunes or mangrove stands; or
- b) Alters sand dunes or mangrove stands but does not increase potential flood damage.

SECTION VI: SEPTIC TANKS

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

- WL a) There is not a septic tank serving the building; or
- In accordance with 44 CFR 60.3(a)(3) and (6), Section G701.1 of the North Carolina Building Code, and ASCE 24-14 7.3 and 9.7, the sanitary sewer system:
- b) Is designed and adequately anchored to prevent flotation, collapse, or lateral movement resulting from hydrostatic and hydrodynamic loads, including 150% of the effect of buoyancy and is designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters; or
- c) Is located to avoid impairment to them or contamination from them during flooding.

SECTION VII: UNDERGROUND FUEL TANKS

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

WL a) There is not an underground fuel tank serving the building; or

In accordance with 44 CFR 60.3(a)(3)(iv) and ASCE 24-14 Section 9.7, the fuel tank(s) servicing the structure:

 b) Is designed and adequately anchored to prevent flotation, collapse, or lateral movement resulting from hydrostatic and hydrodynamic loads, including 150% of the effect of buoyancy, is designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters, and calculated flood-related loads take into account the eroded ground elevation.

SECTION VIII: ABOVE GROUND FUEL TANKS

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

WL a) There is not an above ground fuel tank serving the building; or

In accordance with 44 CFR 60.3(a)(3)(iv) and ASCE 24-14 Section 9.7, the fuel tank(s) servicing the structure:

 b) Is elevated to or above the Regulatory Flood Protection Elevation on a detached platform with a foundation that meets the requirements of Section III, or

 c) Is underneath or attached to a building and is elevated in accordance with ASCE 24-14 Table 4-1.

SECTION IX: SWIMMING POOLS

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

WL a) There is not a swimming pool or hot tub located on the subject property; or

In accordance with the North Carolina State Building Code Section G801.5, the North Carolina Residential Building Code Section AV103.3, and ASCE 24 9.6.2, the swimming pool / hot tub is:

 b) Located and designed to be structurally independent of buildings and structures; or

 c) Located in or on elevated floors or roofs that are at or above the Regulatory Flood Protection Elevation;

and

 d) Is elevated so that the lowest horizontal structural member is at or above the Regulatory Flood Protection Elevation; or

 e) Is designed and constructed to break away during design flood conditions without producing debris capable of causing significant damage to any structure; or

 f) Is designed and constructed to remain in the ground during design flood conditions without obstructing flow that results in damage to any structure.

SECTION X: FILL

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.

WL a) No fill has been placed on the site; or

 b) Any fill placed on the site is at less than a 5:1 (20%) slope and is similar to natural soils in the area; or

 a) Is at a greater than 5:1 (20%) slope but will not cause or worsen wave runup or wave reflection capable of damaging adjacent buildings.

SECTION XI: EROSION CONTROL STRUCTURES

Note: This section must be certified by a registered professional engineer or architect. Initial all that apply.


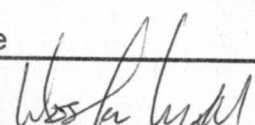
Bulkheads, seawalls, retaining walls, revetments, and similar structures are considered erosion control structures.

WL a) No erosion control structures have been placed on the site; or

 b) Erosion control structures are located at least 30' from any structures; or

 c) Erosion control structures are not located beneath any structures and will not cause or worsen wave runup or wave reflection capable of damaging adjacent buildings.

SECTION V: CERTIFICATION

Name of Certifier Weston Lyall		Title PE/ PLS/ OWNER	
Firm Name Weston Lyall, PE, PLS, PLLC		License Number 27885	
Street Address 214 Hwy 17 N. Suite 1		Phone Number and Email (910) 329-9961 WESTONLYALL@WESTONLYALL.COM	
City Holly Ridge	State NC	Zip Code 28445	
Signature 		R1: 12-23-23 Date 6-28-23	