

## Criteria and Principles for Wave Erosion Control Structures

**Refer to Section 3 of the Shoreline Management Plan for a complete description of standards and guidelines for constructing a WEC.**

In applying for a shoreline structure permit for a WEC structure, an applicant may either:

1. make application relying on the criteria listed under Part A, below; or
2. make application relying on the design principles listed in Part B, below.

If an applicant chooses to base the application on Part A, compliance with the criteria spelled out in Part A constitutes a *prima facie* showing that a permit should be issued.

### **Part A. Criteria for Wave Erosion Control (WEC) Structures for New Development:**

- 1) WEC structures shall be oriented parallel to the shoreline. A setback of at least 15 feet from adjacent property lines is required at each end of the structure.
- 2) WEC structures may consist of logs or any floatation device not intended as a dock or for moorage approved by the Oregon State Marine Board and the Licensees.
- 3) Maximum WEC structure length is 70 feet for any given section. To allow navigation, each end of the structure shall be anchored without being attached to any other floating structure.
- 4) No wood at or below the 1945 foot elevation will be taken from the reservoir for WEC/Dock construction, unless it is recycled from an existing structure.
- 5) The minimum distance between a dock and a WEC structure shall be 30 feet.
- 6) The maximum distance, measured perpendicularly from the shoreline to the WEC structure, shall be 100 feet. This distance shall be the average of the two distances measured at each end of the WEC structure.
- 7) For legal parcels held in joint ownership, WEC structures shall be limited to one per 100 feet of shoreline; the maximum structure length is 70 feet, and no two WEC structures shall have less than a 30 foot open space buffer between the structures.
- 8) For legal parcels held in single ownership – one structure is permitted and the maximum structure length is 70 feet.

- 9) Variance – If the property owner can demonstrate that due to topography, shallow water depth, or other geographical reasons, the structure cannot comply with the setback requirements, a variance may be granted, unless the variance will negatively impact the neighboring property or obstruct the navigation of the reservoir or its tributaries.
- 10) If shoreline erosion occurs at an area that cannot be protected by the standard WECS, then a variance may be granted for specific areas where a WEC structure may be placed adjacent to the shoreline in that area. Any such structure shall comply with the guidelines set forth in the SMP, and shall extend no further from the shoreline than is allowed by the SMP.
- 11) WECS must be visibly marked with reflective devices.
- 12) WECS shall not create any restriction on public navigational or recreational use of Project waters and shall not be marked or signed in a manner that creates or implies the presence of private enclosures.

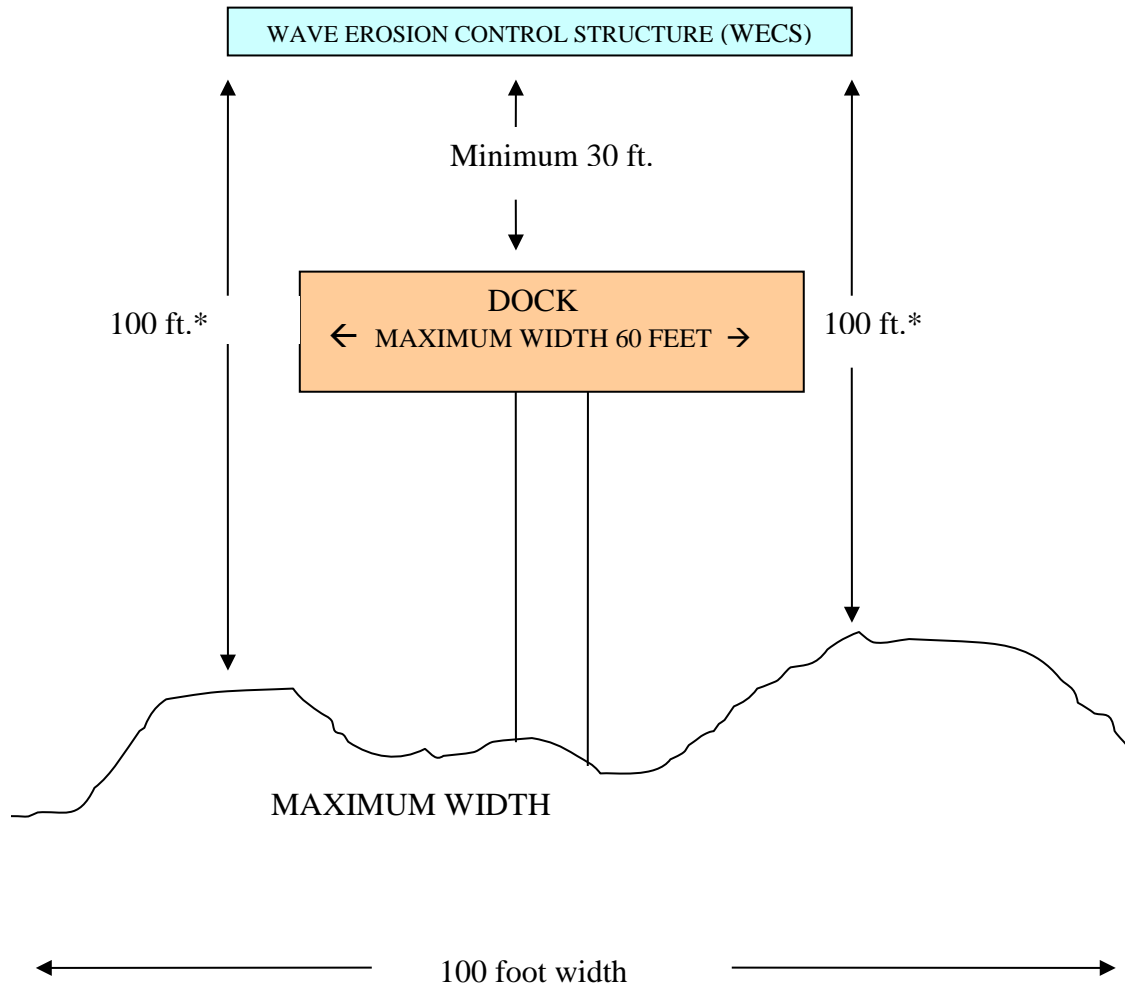
## **Part B. Design Principles for Wave Erosion Control (WEC) Structures for New Development:**

WEC structures will:

1. be of a design appropriate to protect the structures and land the WEC is intended to protect.
2. be oriented so as to maximize the protective effect.
3. not impede navigation
4. not create or imply the presence of private enclosures
5. be appropriately and adequately marked
6. be secured in a manner that minimizes the chance that they will break free
7. not be constructed from logs salvaged from Lake Billy Chinook
8. consist of logs or any flotation device not intended as a dock or for moorage approved by the Oregon State marine Board
9. be as close to shore as possible while still serving their intended protective purposes.
10. not create any restriction on public navigational or recreational use of Project waters and shall not be marked or signed in a manner that creates or implies the presence of private enclosures.

**AN EXAMPLE OF TYPICAL MEASUREMENTS  
FOR NEW DEVELOPMENT**

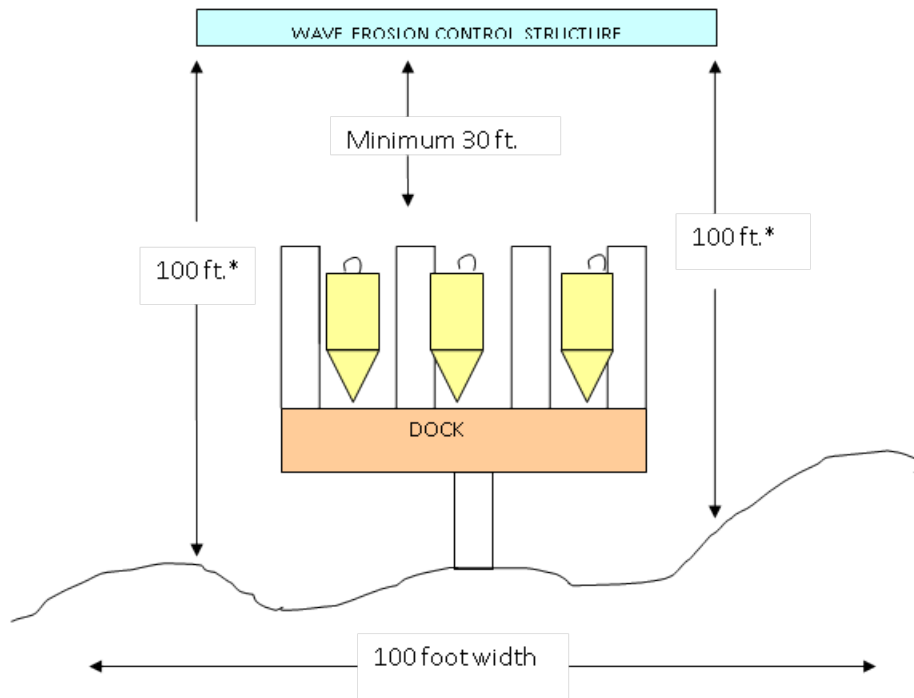
← WECS MAXIMUM LENGTH 70 FEET →



\*This distance shall be the average of the distances measured at each end of the WEC structure.



**AN EXAMPLE OF AN INSTALLATION OF A WECS FOR EXISTING DOCK STRUCTURES THAT ARE ALREADY IN PLACE AT THE TIME OF THE SMP AND UTILIZE A “BOW IN” CONFIGURATION:**



---

\*This distance shall be the average of the distances measured at each end of the WEC structure.