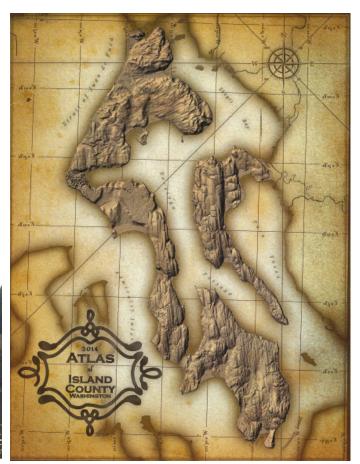
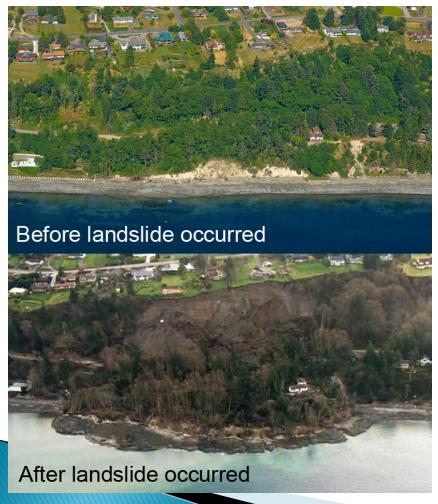
Island County: Steep Slopes & Geologically Hazardous Areas

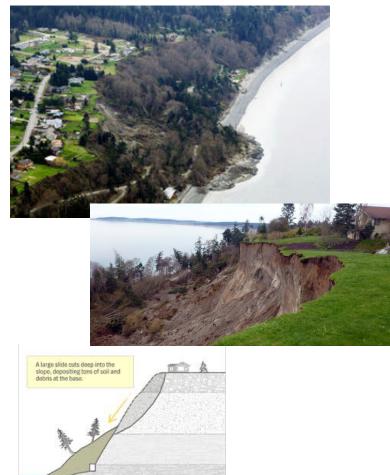






Ledgewood Slide-March 27, 2013





Regulatory Framework



Geologically hazardous area or slope means areas that because of their susceptibility to erosion, sliding, or other geologic events, are generally not suited to the siting of commercial, residential, or industrial development ...including those lands within 100 feet (either top or base) thereof. (ICC11.02.030)

- Title 8 Health, Welfare and Sanitation
- ▶ Title11.02 Clearing and Grading
- ▶ Title11.03 Stormwater and Surface Water
- Title17.05A Shoreline Regulations

Review of Proposals

Public Works

- Geotechnical report if proposed development is within 100ft of coastal bluff/steep slope
- SEPA review
- Detach decks from SFRs
- Clearing and grading
- Geotechnical analysis 3rd Party Review (ICC11.02.140.D)

Public Health

Drainfields – preferred location

Steep Slope Buffers per SMP

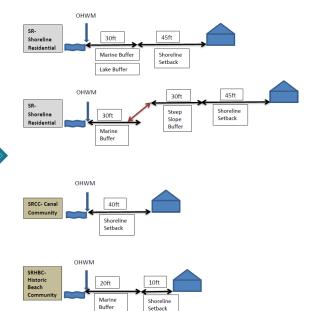
ORD No. C-107-15; PLG-007-15

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TABLE 3. Minimum Shoreline Buffers, Setbacks, Lot Widths, & Maximum Impervious Surface Limits

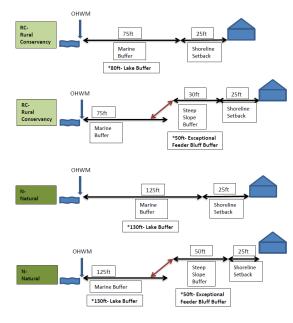
Shoreline/ Type	Shoreline/Resource Type		Shoreline Environment Designation						
		N	RC	UC	SR	SRCC	SRHBC	н	
Marine buffer- measured landward from OHWM on marine shorelines (feet)		125	75	50	30	0	20	30	
Lake buffer-measured landward from OHWM on lake shorelines (feet)		130	80	80	30	N/A	N/A	NA	
Steep slope buffer- measured landward from top of bluff on marine shorelines with slopes greater than 40% (feet)		50	30	30	30	N/A	N/A	50	
Steep slope buffer- measured landward from top of bluff on marine shorelines with exceptional feeder bluffs (feet)		50	50	50	30	N/A	N/A	N/A	
Setback, measured landward from the most landward of the required marine, lake, or steep slope buffer (feet)		25	25	25	45	40	10	20	
Minimum lot width (feet)		150	150	60	60	60	N/A	0	
Maximum impervious surface (percent of lot within shoreline jurisdiction)		10%	10%	10%	35%	40%	80%	80%	
Environment I	Designations								
N: Natural RC: Rural Conservancy UC: Urban Conservancy			SR: Shoreline Residential SRCC: Shoreline Residential-Canal Community SRHBC: Shoreline Residential-Historic Beach Community HI: High Intensity						
						ffer or buildir			

ISLAND COUNTY SHORELINE BUFFERS AND SETBACKS PER NEW SMP: Shoreline Residential, SR Canal Community, & SR Historic Beach Canal



These drawings are for illustrative purposes only; please check with Planning staff to determine the exact buffers and setbacks for your property -10/30/15

ISLAND COUNTY SHORELINE BUFFERS AND SETBACKS PER NEW SMP: Rural Conservancy & Natural



These drawings are for illustrative purposes only; please check with Planning staff to determine the exact buffers and setbacks for your property-10/30/15

Policies on Decks and Impervious Surface Areas



ISLAND COUNTY PLANNING & COMMUNITY DEVELOPMENT

PHONE: (360) 679-7339 •from Camano (360) 629-4522 •from 5. Whidbey (360) 321-5111 FAX: (360) 679 7306. P. O. Box 5000, Coupeville, WA 98239-5000 121NEast Camano Drive, Camano Island, WA 98292 - Phone (360) 387-3443 FAX (360) 387-6161 Internet Home Page: http://www.islandcountywa.gov/planning/

SUBJECT: Regulation of Pervious Pavement and Surfaces

POLICY NO: 001/17

EFFECTIVE

DATE: May 8, 2017

PURPOSE: To clarify Island County regulations for pervious pavement and surfaces.

BACKGROUND: Low Impact development measures which include pervious pavement and surfaces are encouraged for development projects in order to promote storm water drainage, reduce runoff, and improve filtration of water for aguifer recharge. Pervious pavement and surfaces should be avoided if they would threaten slope stability, increase erosion, or potentially degrade groundwater quality. Per ICC 17.03.180,S and 17.05A, there are regulations for maximum impervious surface area per lot area for different uses, zoning areas, and shoreline environmental designations.

POLICY:

- 1. Pervious pavement or surfaces shall include: pervious concrete, pervious asphalt, pervious pavers, and products such as grasscrete. Similar products will be evaluated to determine if they meet requirements as pervious surfaces.
- 2. Specifications of the proposed pervious product shall be submitted with the land use/building permit application.
- 3. Gravel is considered an impervious surface per the definition of impervious in ICC
- 4. Pervious pavement or surfaces shall be considered as 50% pervious for the calculations of impervious surface area. For example, a parking lot of 500sf with pervious concrete shall count 250sf towards the total impervious surface coverage.
- 5. Projects that exceed the maximum impervious surface ratio (lot area/impervious surface area) may be required to seek a Variance or Shoreline Variance permit.

Hiller West, AICP

Community Development Director



ISLAND COUNTY PLANNING & COMMUNITY DEVELOPMENT

PHONE: (360) 679-7339 •from Camano (360) 629-4522 • from 5. Whidbey (360) 321-5111 FAX: (360) 679 7306. P. O. Box 5000, Coupeville, WA 98239-5000 121NEastCamano Drive, Camano Island, WA 98292 - Phone (360) 387-3443 • FAX (360) 387-6161 nternet Home Page: http://www.islandcountywa.gov/planning/

SUBJECT:

Regulation of Ground Level Decks for Impervious Surfaces and Lot Coverage

POLICY NO: 002/17

EFFECTIVE

DATE: May 19, 2017

PURPOSE:

To clarify shoreline regulations for new uncovered decks or uncovered replacement decks with expanded footprints in regards to

impervious surfaces, lot coverage, and buffer enhancement.

BACKGROUND: The Shoreline Master Program (SMP) adopted on January 19, 2016 does not specifically refer to regulations for decks in regards to impermeability and lot coverage. The SMP refers to "principal structures and all associated impervious surfaces." Decks are considered accessory structures which can allow for stormwater runoff to seep into the soil, however, they are structures which also impact the shoreline environment.

POLICY:

- 1. Decks with gaps of at least 1/8" between boards located over a pervious surface (e.g., uncompacted soil, vegetation) shall be considered pervious. Decks over an impervious surface (e.g., compacted soil, concrete, brick, etc.) shall be considered
- 2. Replacement Decks: A legally established existing deck that is located within the marine or steep slope buffer and/or shoreline/building setback may be replaced within the same footprint and will not require any buffer enhancement;
- 3. Expansions to Existing Decks:
 - a.) For replacement decks located within the shoreline setback (landward of the marine buffer), any proposed expansion shall preferentially be located towards the side yard and not seaward of the existing deck. Any expansion greater than 200sf from the existing deck shall enhance an area equal to the area of the expansion with native vegetation within the marine buffer per ICC17.05A.090.G.
 - b.) For replacement decks located within the shoreline/building setback (landward of the steep slope buffer), any expansion greater than 200sf from the existing deck

Geologically Hazardous Areas: Threat to Structures



Relocation of Existing Condos



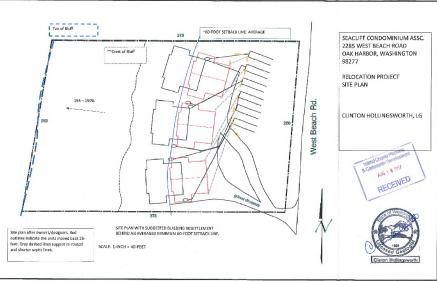
DOE PHOTO July 25, 2016

Current Situation:

Condos (built in 1978) are now 29-42ft from top of bluff.

Proposal:

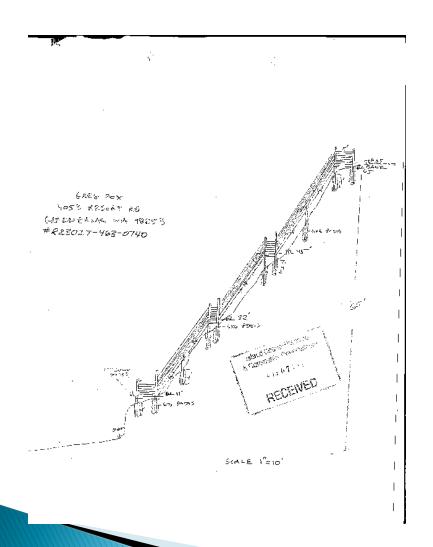
Move condos landward to approx. 60ft from bluff.



Beach Access Stairs



Beach Access & Outfall Pipe





Public Education Materials



Vegetation Management on Your Shoreline Property



Understanding Shoreline Management Program (SMP) Policy for Shoreline Vegetation Conservation

The following policies highlight the County's basis for establishing standards for shoreline vegetation management standards:

- . "Non-native vegetation that requires the use of fertilizers, herbicides, or pesticides is discouraged."
- "Shoreline landowners are encouraged to preserve and enhance native woody vegetation and native groundcovers to stabilize soils and provide habitat."
- · "Maintaining well-vegetated shorelines is preferred over clearing vegetation to create views or provide lawns. Limited and selective clearing for views and lawns may be allowed when slone stability and ecological functions are not compromised...
- · "Limit removal of native vegetation to the minimum necessary to

What vegetation maintenance is allowed outright?

The SMP generally does not affect how you maintain your existing vard. You can continue to care for your existing lawn, gardens, and shrubs as you have previously, including mowing, pruning, thinning, spreading compost and mulch, and planting new plants. Removal of invasive species is also generally allowed

Considerations for Disposing of Yard Waste - Dumping yard waste over a bluff, into the marine water for the tide to take away, or into a lake or stream is prohibited. Yard clippings dumped into these areas can cause algal blooms and reduce oxygen levels in the water, and encourage the spread of invasive species. Recommended options for disposing of leaves, grass clippings and other yard waste is to compost them at home or use a yard debris collection service.



Consistent with policy in the SMP, the County encourages the use of native plants throughout your shoreline property. Native plants provide a low-maintenance alternative to ornamental plantings, and can be integrated with the natural landscape and active-use areas of your yard to be aesthetically pleasing. Native plants will improve water quality, stabilize soils, and attract wildlife, all while being more resilient to molds and fungus that come with wet Northwest winter and drought periods during summer.

For more information on choosing native plants, see Island County Shore Stewards' Guide for Shoreline Living, WDFW's Your Marine Waterfront guide, and plant sales, and online resources provided by The Washington Native Plant Society.

What if I want to clear and thin trees to maintain my

Topping trees is prohibited, but selective pruning or thinning for safety. Removal of hazard trees is allowed (as certified by an arborist and view protection, or maintenance may be allowed if pruning does not approved as an exempt activity by Island County), but after removal affect ecological functions. When tree thinning is proposed, a certified appropriate native trees should be planted to re-establish the area. arborist's report must show that no more than 20% of a tree's limbs will be removed, and no more than 20% of the canopy cover in a stand of trees will be removed in a given five-year period. Tree thinning will generally require approval from the County through a Shoreline Exemption Permit.

There is a tree that I am afraid might fall on my home -



Pruning Practices: Broad-Leaved Trees

Island County Shore Stewards' Guide for Shoreline Living – for more information on appropriate tree shoreline views, please see the Guide for Shoreline Living, or from an International (ISA) certified arborist.

I am planning a new home for my shoreline property will I be able to remove existing vegetation to provide for the home, driveway, deck and yard?

You will be allowed to clear existing vegetation to support your shoreline development, provided that your proposed home is sited and designed consistent with the shoreline buffer, setback and other standards of the SMP. Approval for development does not mean that the shoreline or water. County staff will review plans for site clearing to ensure that vegetation removal is minimized to the maximum extent reasonable. County review will also consider whether natural landscape features, such as snags, stumps, logs, drift logs, or uprooted trees, are retained to the greatest extent feasible to support the fish and wildlife that rely on shoreline habitats

As you landscape your property after construction of the home, you may be required to provide and implement a planting plan that establishes native vegetation throughout shoreline jurisdiction.



Trees and vegetation along this Puget Sound shoreline were maintained as with vegetation retention standards of the SMP, which require preservation of trees and other vegetation within shoreline buffer areas, and minimization reasonable. Selective pruning for views may be allowed, but must be completed consistent with the SMP to avoid impacts to ecological function

Island County Vegetation Conservation regulations and CC&Rs:

Need to educate Homeowners, HOAs, **Arborists and Contractors**

Public Education Materials







tend County Observing Manday December Institute and Codesart

Beach Access Structures on Your Shoreline Property



This guidance provides direction for development of beach access structures under the new SMP and is advisory only. The SMP recognizes that private landowners want to erjoy beach access on their properties, and allows for private beach access structures in most circumstances.

Understanding Shoreline Management Program (SMP) Policy for Shoreline Vegetation Conservation

The following policies highlight the County's basis for establishing standards for beach access structures:

- "Beach access structures should be located, designed, and maintained in a manner that minimizes adverse impacts on shoreline ecology" and any adverse effects shall be "...fully evaluated and mitigated."
- "Beach access structures may not be appropriate in some areas because of safety hazards or sensitive ecological conditions... Some properties will have view-only access to the neighboring waters."
- "Beach access structures should be designed to minimize the amount of clearing, grading, excavation, and other forms of shoreline alteration so that they don't require substantial bank or slope modifications."





What is a beach access structures?

Beach access structures include stainways, trams, walkways, and towers that provide pedestrian access across a moderate to high bank to a beach. Beach access structures are generally required for banks higher than 10 feet in height, and historically many beach access structures have required some shoreline modification to serve as a footing.

As seen in the photo above, the beach access structure associated with residential use would likely be permitted under the SMF — the starway is not located on an exceptional feeder bluff shoreline, and was constructed as a narrow corridor minimizing impacts to shoreline buffer vegetation.

Lessons Learned: Proceed with Caution near Steep Slopes

