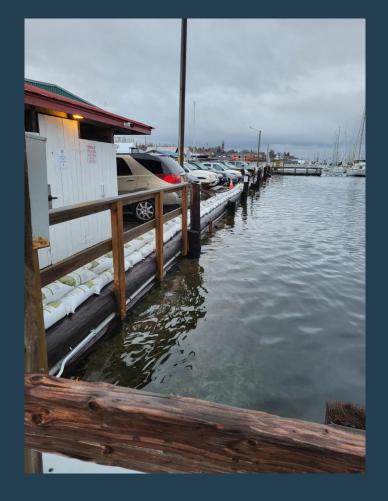


Sea Level Rise (SLR)

- BRICs 2024 Round Pending
- Preliminary Design Recap
- Additional Design Work
- Shoreline Master Program
 Update





SLR Project – Design Principles

- Complete Protection from Bluff near LST Mile 0 to Ferry Terminal
- Protection + Waterwalk need not be congruent!
- Design height for protection varies
- Design solutions vary
- Minimize cost, environmental impacts by employing different solutions for different locations
- Benefits outweigh the Costs





Design Parameters

SLR = 1.5'

Design Life: 50 years (Year 2075)

100 year wind (50 knots from S)

1 year storm surge = 2.2'

HAT = 8.9 '

SWL = 12.6' (NAVD) = 13.65' (MLLW)







Design Parameters

	Wave Run-up and Total Water Level (TWL), Extreme Case								
	Section / Concept	Slope	100-year Wave Ht / Period	>100 yr SWL + 50 yr SLR (ft NAVD88)	R _{2%}	Total Water Level (TWL (ft))	Overtopping (I/s/m)*	Structure Crest Height (ft NAVD88)	Freeboard (above TWL)
ſ	Α	2H:1V	3.9 ft / 3.7 s	12.6	broken waves	12.6	-	13.5	0.9
ľ	В	2.5H:1V	4 ft / 3.8 s	12.6	5.5	18.1	45.0	<mark>14.5</mark>	1.9
Γ	C1	vertical	1.1 ft / 1.5 s	12.6	1.1	13.7	1.0	<mark>14.0</mark>	1.4
	C2	vertical	1.1 ft / 1.5 s	12.6	broken waves	12.6	-	13.5	0.9
L	D	2.5H:1V	4.2 ft / 3.8 s	12.6	5.7	18.3	28.0	<mark>15.0</mark>	2.4
L	E	2.5H:1V	4.3 ft / 3.8 s	12.6	5.7	18.3	29.0	<mark>15.0</mark>	2.4
						*50 l/s limit for revetment & 1 l/s for vertical wall			



STREET END STUDIES





SLR – Next Steps

- City of Port Townsend Shoreline Master
 Program Update
- Benefit : Cost Analysis (BCA) Refinement
- RFI Process 11 questions returned to Port, answers due Friday!
- New NOFO from FEMA expected soon
- Current Deadline for Grant Application to FEMA – April 18
- Decision on Selection: late 2025





