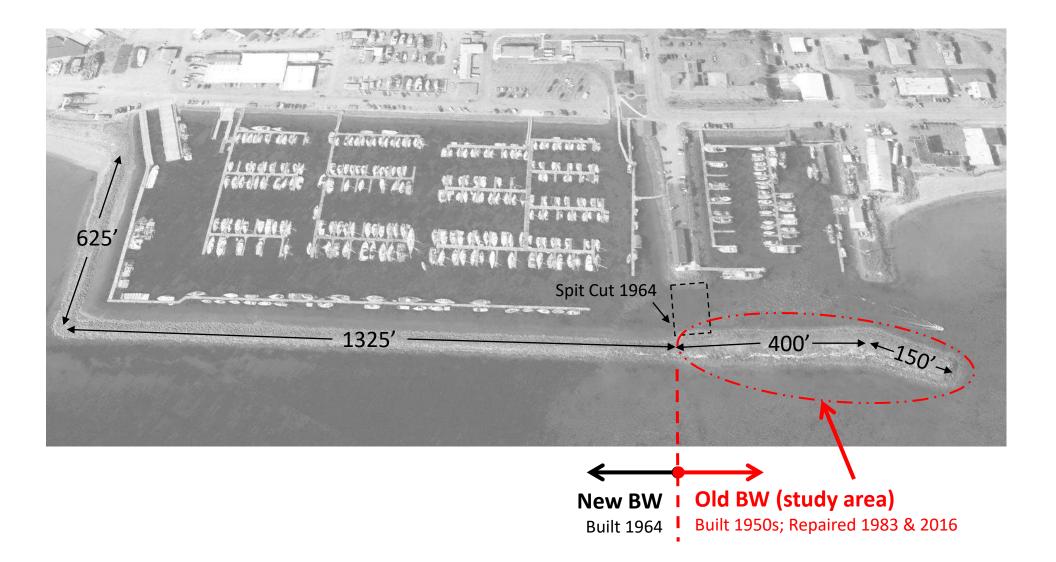
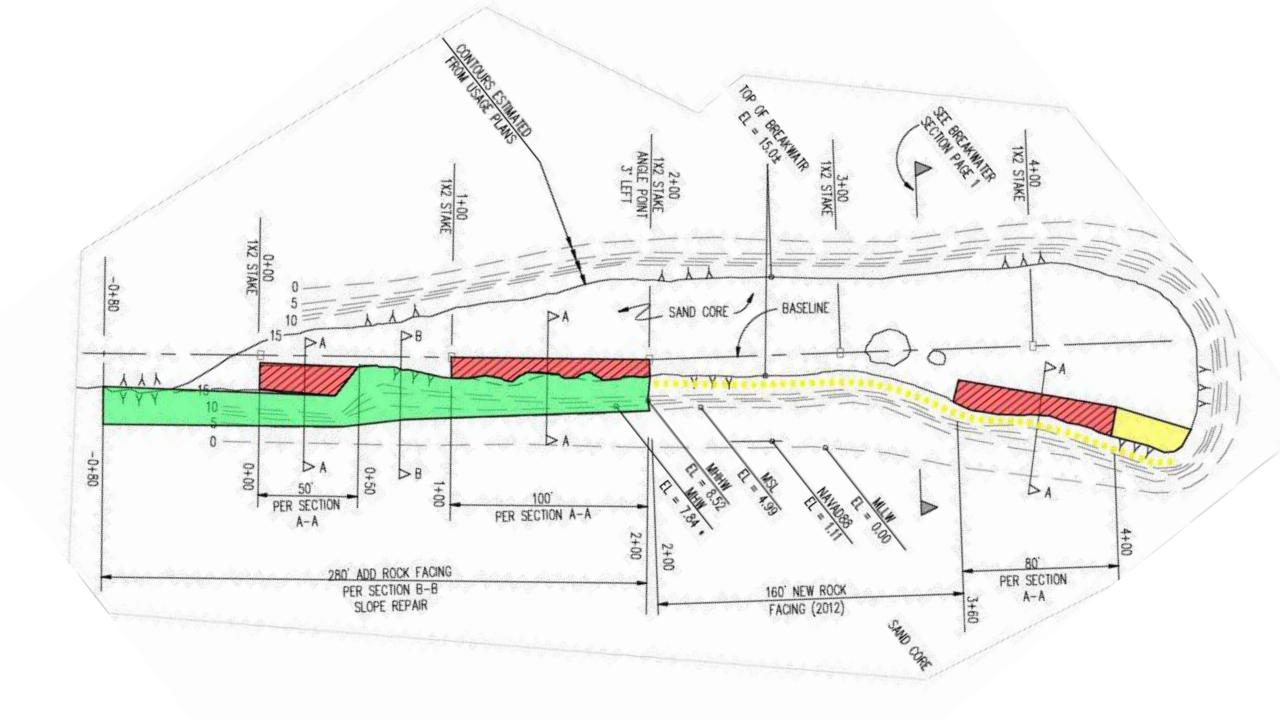
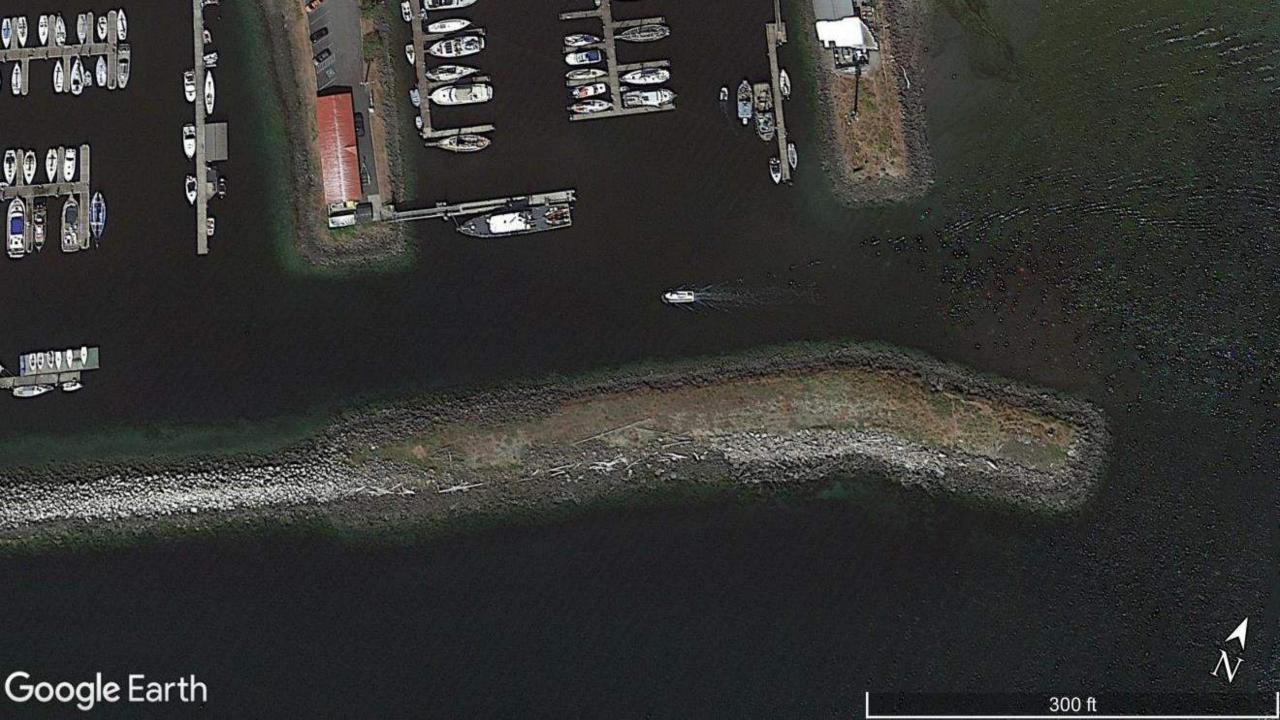
## Boat Haven Breakwaters (BWs)



## History of Breakwaters (BWs) Boat Haven Marina

- 1950s Old BW constructed
- 1964 New BW constructed, spit cut
- 1983 Repair work on Old BW, designed by R.A. Leach
- 2012 Repair, date not certain (presence of granite stone)
- 2016 Winter storm results in damage
- 2016 Port completes Condition Assessment of Boat Haven BW
- 2017 Complete repair on a portion of the Old BW
- 2018 Winter storm results in damage
- 2019 Repair portion of the Old BW suspended until permitting complete
- 2022 Permits in hand, repair work may resume























## Old BW Rehabilitation Alternatives

- No Action
- Alt 1: Rehabilitation Soil Improvements - \$3.4M
- Alt 2: Rehabilitation Sheet Pile Wall - \$3.8M
- Alt 3: Partial Replacement \$2.8M
- Alt 4: Full Replacement \$6.0M

