Bob

Robert E. Alger, P.E., Dist.M.ASCE

860-558-1046

**From:** Docko Office <Office@docko.com>
**Sent:** Friday, October 1, 2021 11:13 AM
**To:** Robert Alger
**Subject:** RE: Chapman Beach

Hi Bob,

Here is the requested budget numbers for the stone groin repair • option number one replace Approximately 20% of smaller stone at the southern end of the jetty heading Landward 35’ with spec armor stone set and keyed in with heavy equipment, reshaping to original or new permitted elevation, and dimensions, including retrieving existing stone that has been displaced during storm events . This work would only focus on the water word 60 feet of the jetty. budget number for work above $160,000

• option 2

Focusing on the entire jetty replacing up to 20% of the smaller stone with spec armor ,reshape to original elevation and dimension or new permitted elevations , including under grouting of large armor throughout the entire length, budget number for the work described above $ 2,400.00 per liner foot of jetty.

Hope this helps!

Christina Lopes

Project Administrator

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**From:** Robert Alger <reapsu@gmail.com>
**Sent:** Friday, September 24, 2021 4:12 PM
**To:** Docko Office <Office@docko.com>
**Subject:** Re: Chapman Beach

Thank you Keith

One question about the repair of the existing rock jetty, can Rich give us a rough guess to add the large stone we discussed and reshape the existing?

Bob

Robert E. Alger, P.E., Dist.M.ASCE

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**From:** Docko Office <Office@docko.com>
**Sent:** Friday, September 24, 2021 3:53:43 PM
**To:** Robert Alger <reapsu@gmail.com>
**Subject:** RE: Chapman Beach

Dear Rob,

Here is what I came up with:

**Repair concrete groins**

Repair to include descaling deteriorated concrete, drill and install epoxy coated dowels , install epoxy coated reinforcement bars around existing concrete , form and pour concrete encasement 12” around outside of existing groins to a depth of 36” below sand elevation, re stack existing stone to original elevation at end of jetty’s , concrete to be used is to be Extreme environment 5000 PSI concrete ,  budget estimates for work above is $1,800.00 per liner foot of groin . There may be additional costs due to unforeseen conditions that may arise. Note that this is only a repair and not new construction design, cracking will most likely occur over time and the possibility of scouring below jetty

**Wood groin replacement**

Demo and remove existing concrete jetty $16,000. Per jetty , replace with southern yellow pine CCA 2.5 pressure treated marine timber listed below •  class B timber piles •  one Signal pile •  6x12 timber wale’s •  4x10 tongue and groove timber Vertical driven sheeting •  Hot dip galvanized B 17 Heavy duty timber bolts • remove Stone rubble at end of existing groin and place below sand level along new Timber jetty seaward end  Current budget numbers for work above is $870.00 per linear foot of jetty , lumber prices have been fluctuating so these are today’s prices, Let me know if you need any more information Respectfully , Rich Pinder

Very Truly Yours,

Keith Neilson, P.E.

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