

Maritime

Construction and Engineering, LLC

Old Coast Guard Pier
Little Diamond Island, ME

Building Lift Plan

Lifting of the 71' x 31.5' building has been subcontracted to Chase Building Movers Inc. of Wells, ME. Chase has been in the business of moving buildings for over 50 years and has extensive experience moving historic buildings as well as past experience working on the Casco Bay islands and in the marine environment. Please visit their website at www.chasebuildingmovers.com to see examples of their work and a history of their business.

During the raising process and while the piles are being replaced, the building will be supported on a series of steel beams supported by timber cribs. A minimum of 5 W10x49 wide flange beams will be placed laterally across the 31.5' dimension. These beams will be placed so that their top flange is at approximately the same elevation as the existing pile caps and spaced so that the existing pile caps can be removed and replaced. Two W12x96 wide flange beams will be placed below the W10's, running longitudinally along the 71' dimension. Blocking will be placed between the W10's and W12's to allow the new 12x12 timber pile caps to be placed between them prior to lowering the building.

Once beams are in place, the building will be jacked and cribbed using a minimum of 10 hydraulic jacks controlled by a unified jacking system designed to ensure that the building is raised in a level, uniform manner. 4'x4' timber cribs will then be installed below the beams to support the building while the existing piles and caps are removed and replaced.

Once the piles and caps have been replaced, the building will be uniformly lowered until all of the load has been transferred to the new structure. Pile caps will then be fastened to the new piles and the temporary support structure will be removed.