

PROJECT PROFILE:



Location	Heritage Walk, Walton on the Naze, Essex
Client	BREHENY CONTRACTORS
Value	£140,000
Duration	8Wks
Quantities	5000m ³ excavation of beach sand and clay, 5000m ³ of 200mm -600mm bedstone, 10'000m ³ of 4t-8t armour stone
Project Description	This contract is a to provide a sea defence 110m long and 15m wide to protect the ancient monument the Naze Tower (built in 1720) from further cliff erosion and provide a public walkway to the beach.
Key Issues	<ul style="list-style-type: none"> Protection of the public Barges delivering rock to the beach at high tide Heavy machinery working on soft sand All machinery had to be converted to biofuels in case of a leak or spillage Tidal working hours Winter storms and inclement weather
Principal Elements	<p>The rock was barged in from Norway where the mother ship moored 3 miles offshore, a satellite barge was then loaded at sea and brought in to deposit its load on the beach at high tide, whereupon RJT's excavators would track out onto the sand at low tide to retrieve the rock for placement.</p> <p>The next stage was to excavate the beach sand to the firm clay before placing a membrane and then the smaller bedstone to form the base of the sea defence. After this was placed to the correct profile the larger armour stone is placed to the correct height and angle and carefully keyed into place to avoid any voids in the structure. A rock breaker was also utilised to break the stone on the top of the wall to enable the follow on trades to complete the walkway.</p>
Technical Referee	<p>K.Taylor Breheny Construction 01449720282</p>