















Figure 13. Proposed site plan, northern section of project site (prepared by GMB, LLC).

PRUPUSED SHUKELINE PROTECTION/HABITAT RESTORATION PROJECT, PASTURE POINT, JAMES FARM ECOLOGICAL PRESERVE: RIP-RAP; SANDY FILL; VEGETATIVE STABILIZATION Pasture Point Cove, Indian River Bay AT: James Farm Ecological Preserve, Cedar Neck Road, Ocean View, Sussex Co., DE (Tax Map Parcel # 1-34-9-93.01) APPLICANT: Center for the Inland Bays. Inc. DATE: July, 2005 -300 LB. TO 600 LB. ARMOR STONE PLACED & ROUGHLY CHINKED. CHINKING STONES SHALL BE 100 LB. TO 200 LB. CHINKING SHALL BE CARRIED OUT AFTER PLACEMENT OF ARMOR STONE IS COMPLETED & ONLY TO FILL SURFACE VOIDS SMALLER THAN ARMOR STONE. 10.00 TOP ELEVATION= 3.0' -SANDFILL EX. GRADE NOTE: CONTRACTOR TO SELECTIVELY PLACE LARGER STONE AT THE TOE OF THE WOVEN PLASTIC FILTER BREAKWATER WITH THE REMAINDER CLOTH NOT TO EXTEND PLACED IN A WELL GRADE DISTRIBUTION BEYOND TOE OF TO THE TOP OF THE BREAKWATER. BREAKWATER 8" MIN. THICKNESS OF BEDDING STONE (3" TO 8") **BREAKWATER SECTION** 21.00 14.00 EL.= 5.00' -SANDFILL MHW EL. = +0.59' MLW EL = -1.87' -EX. GRADE SANDFILL SECTION SK-5 APPL. BY: CENTER FOR THE INLAND BAYS PASTURE POINT SK-5 SHORELINE RESTORATION GEORGE, MILES & BUHR, LLC ARCHITECTS & ENGINEERS BETHANY BEACH, DELAWARE

MHW EL.= +0.59'

MLW EL.= -1.87 EL.= -3.00

SANDFILL

EXCAVATE TO

MLW. = -2.0'

1:10

20.00

EL. = -3.87

SCALE

DATE

DESIGN BY : REH

DRAWN BY : HE

GMB FILE : 2003042

CHECKED BY:

: AS NOTED

: NOV 2003

Cross-sections of proposed project (prepared by GMB, LLC). Figure 15.

SHEET 5 OF 5

<u>Habitat</u>	<u>Current</u>	Proposed	<u>Increase</u>
	444000 -6	4 40 4 45 -4	.04.045.5
Marsh	114,830 sf	146,145 sf	+31,315 sf
Beach	8,800 sf	41,472 sf	+32,672 sf



Big Piney Island, Rehoboth Bay, 1954



Big Piney Island, August 1972

"Big Piney Island, however, has eroded over -9m/year and today is little more than a shoal. The erosion rates along the shoreline that had been previously sheltered by the two islands have more than tripled, probably due to the loss of the sheltering effect. Big Piney Island and Marsh Island will soon disappear causing the shoreline to be even more susceptible to winter storms."

Swisher, 1982

