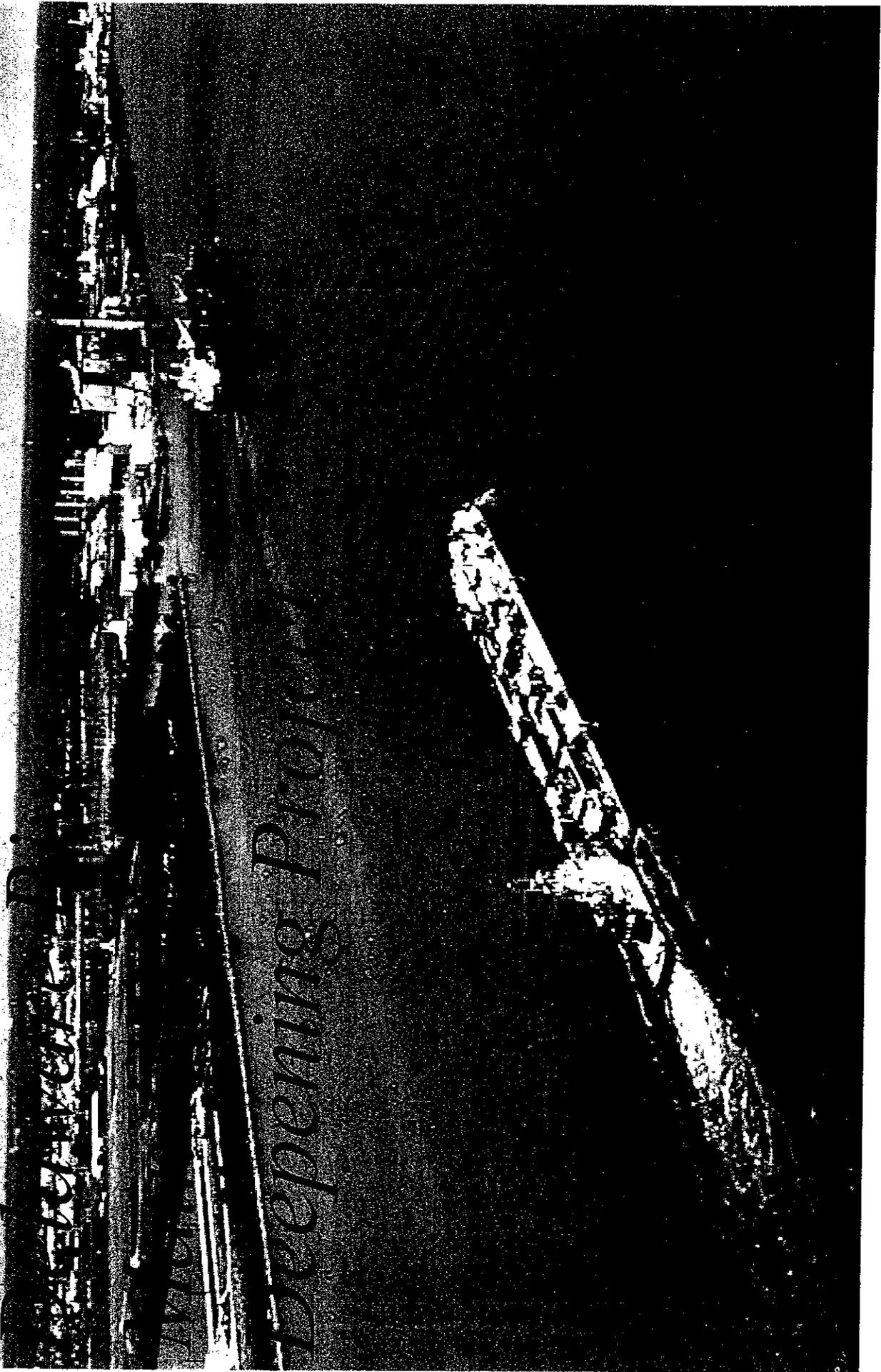
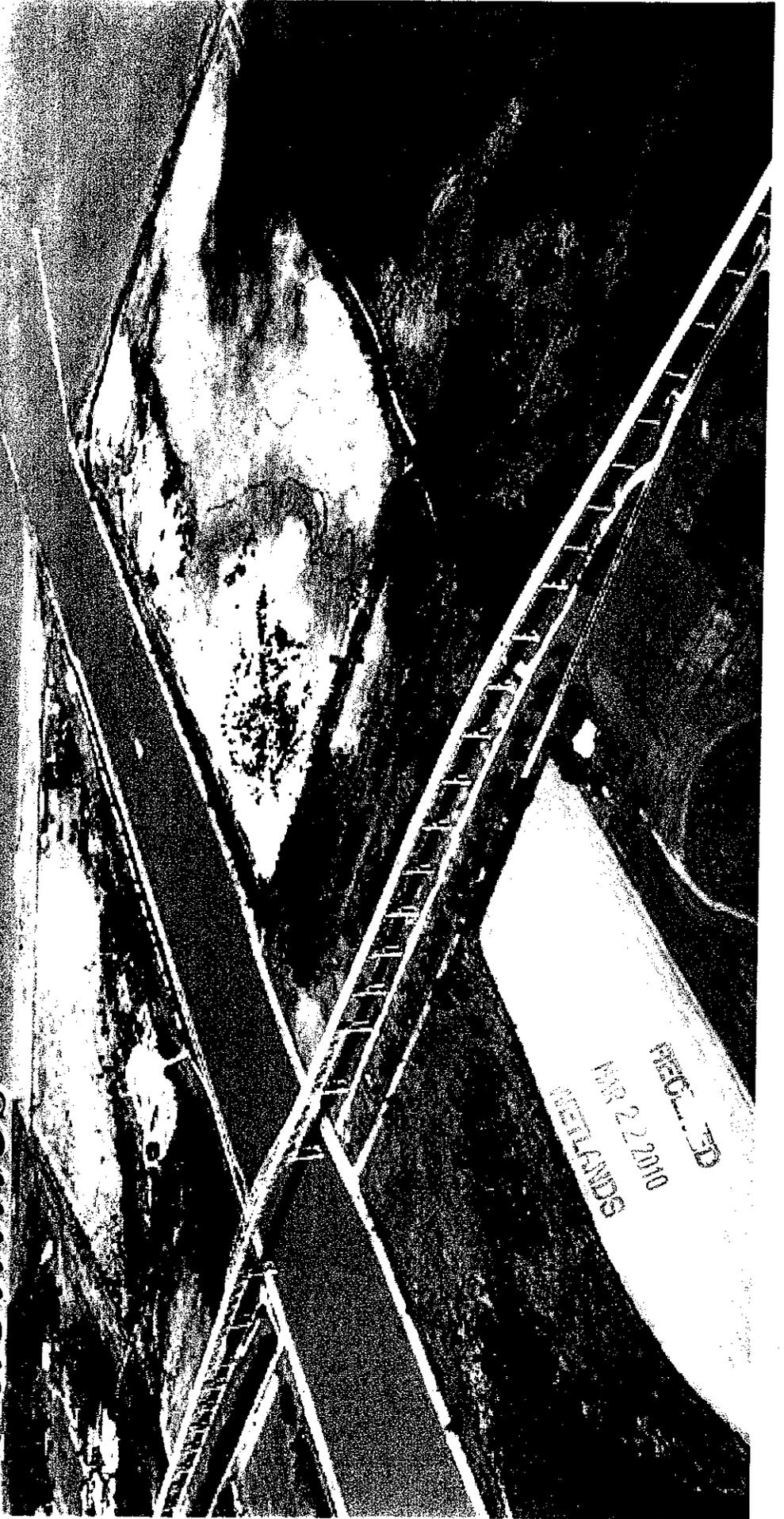


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Deepening Project

Reedy Point North/South Confined Upland Disposal Facilities



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Pea Patch Island

*Killcohook Existing
Corps Upland Confined
Disposal Facility*

An aerial photograph of an artificial island, likely in the Netherlands. The island is roughly rectangular with rounded corners and features a network of roads and several buildings. The surrounding water is dark, and the sky is light. The title 'Artificial Island' is printed in a large, white, serif font across the middle of the image.

Artificial Island

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Kelly Island

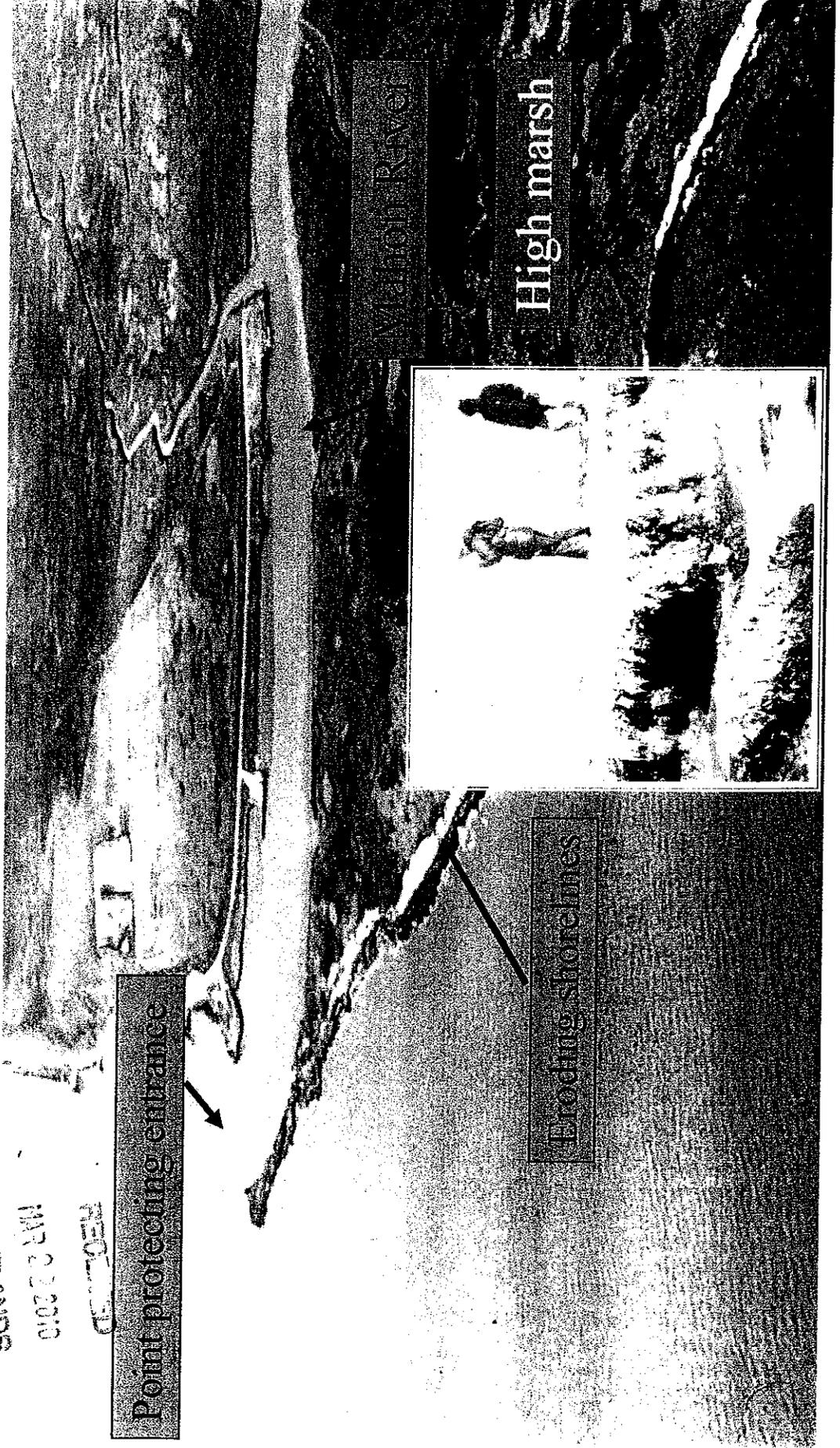
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Point protecting entrance

Eroding shorelines

High marsh

Wilson River



**APPENDIX H
FILL**

(BEACHFILL FOR BROADKILL BEACH, DELAWARE)

- * Please make sure answers to all of the questions in this appendix correspond to information on the application drawings.
- * See Joint Application Form Reference Guide - How to Calculate Square Feet, Cubic Feet, and Cubic Yards.

Broadkill Beach was the subject of the Delaware Bay Coastline – Delaware and New Jersey, Broadkill Beach, Delaware Interim Feasibility Study. A final Feasibility Report and Environmental Impact Statement is dated September 1996 (enclosed on CD). Also see Section 2.6.4 of the enclosed April 2009 Delaware River Main Stem and Channel Deepening Project Environmental Assessment for a description of this feature of the project. Pertinent figures showing the location of the project as well as the design features are attached.

1. How many feet will the fill be placed channelward of the:
 - A. Tidal waters: mean high water line? 220 ft. (Approx.)
mean low water line? 170 ft. (Approx.)
 - B. Non-tidal waters: ordinary high water line? 0 ft.
2. How much fill will be located:
 - A. on subaqueous land (channelward of mean high water) 3,005,640 sq. ft.
(69 acres) (220 ft. wide by 14,600 ft. long)
 - B. on vegetated wetlands? 0 sq. ft.
3. The fill will be (check one)
 - A. Hauled in from upland sources
 - B. X Obtained from dredged material
4. What is the total volume of fill? 1,597,700 cubic yards
What is the total fill per running foot of shoreline? 110 cubic yards
(1,597,700 cubic yards divided by 14,600 ft. long)
5. What method will be used to place the fill? Beachfill will be placed via hopper dredge pipeline and graded with bulldozers.

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6. How will the fill be retained? No retention of fill is planned due to grain size compatibilities with the existing beach.
 7. State the type and composition percentage of the fill material (e.g. sand 80%, silt 5%, clay 15%, etc.) Greater than 95% sand material.
 8. Describe the type(s) of structure(s) to be erected on the filled area (if any).

No structures will be constructed on the filled area.

Vehicular access to the beach would be provided at Route 16 in the center of Broadkill Beach. Sand fence would be used to create a path 12 feet wide along both sides of the dune at a skewed angle to the dune alignment. This would allow vehicles to climb along the side of the dune at a flatter slope than 5H:1V.

Pedestrian access paths would be located at each street end in a similar fashion as the vehicular access. However, the access paths would be smaller in width and at a somewhat steeper slope.

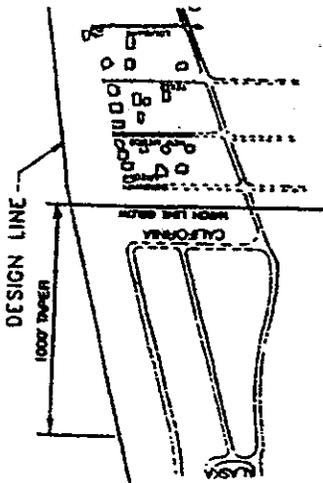
9. What type of ground cover will be provided for the filled area(s) to prevent soil erosion and help keep sediment from reaching State waters?

Planting of 174,800 square yards of dune grass and 21,800 linear feet of sand fence are included for dune stability.

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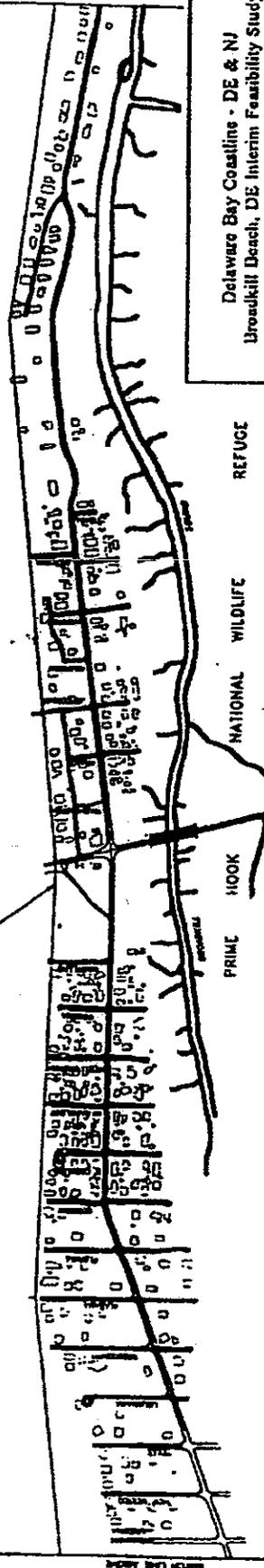


DELAWARE

BAY

LIMITS OF BEACH RESTORATION
BROADKILL

DESIGN LINE



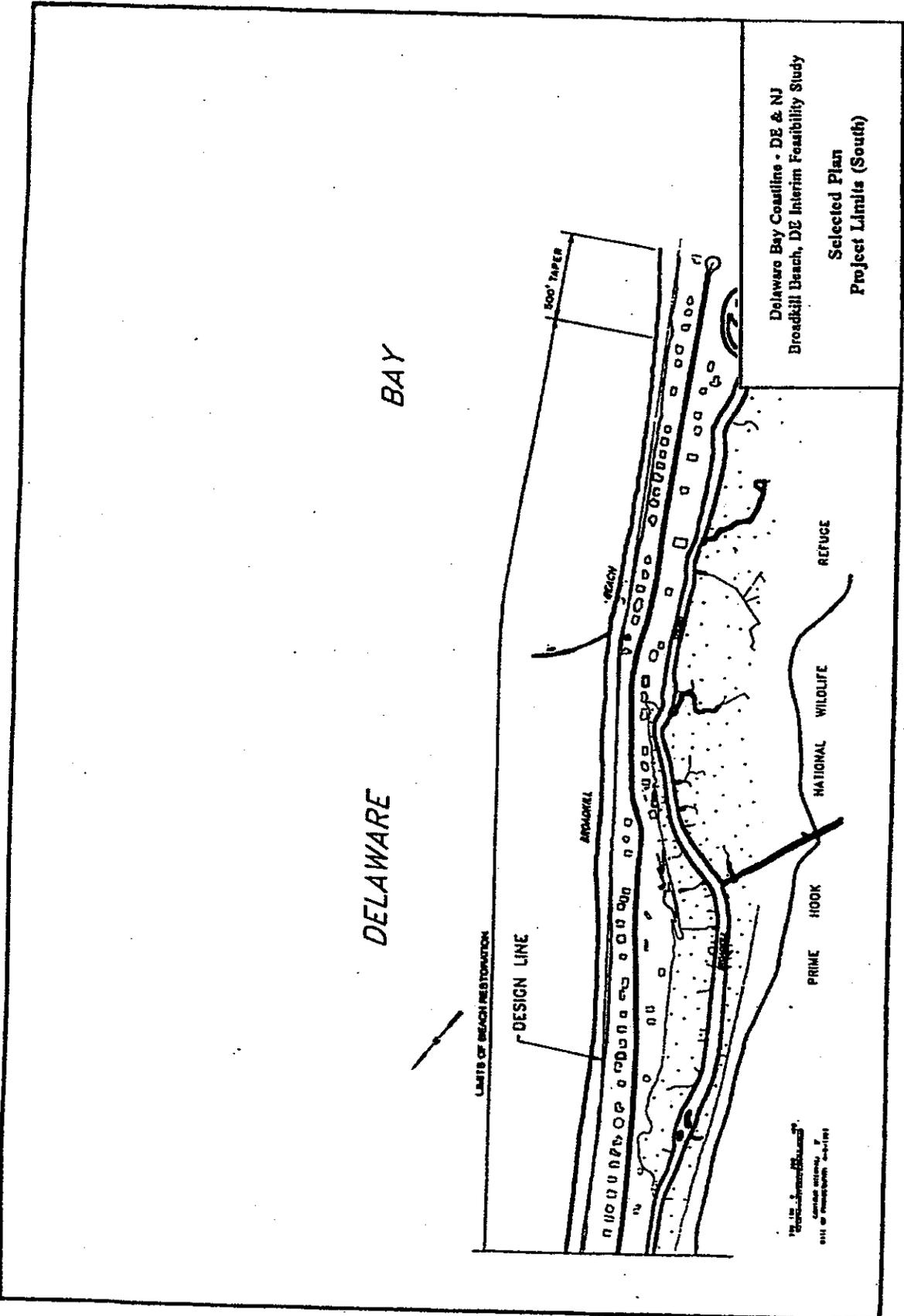
Delaware Bay Coastline - DE & NJ
Broadkill Beach, DE Interim Feasibility Study
Selected Plan
Project Limits (North)

DATE OF REVISION: 1-1-1993

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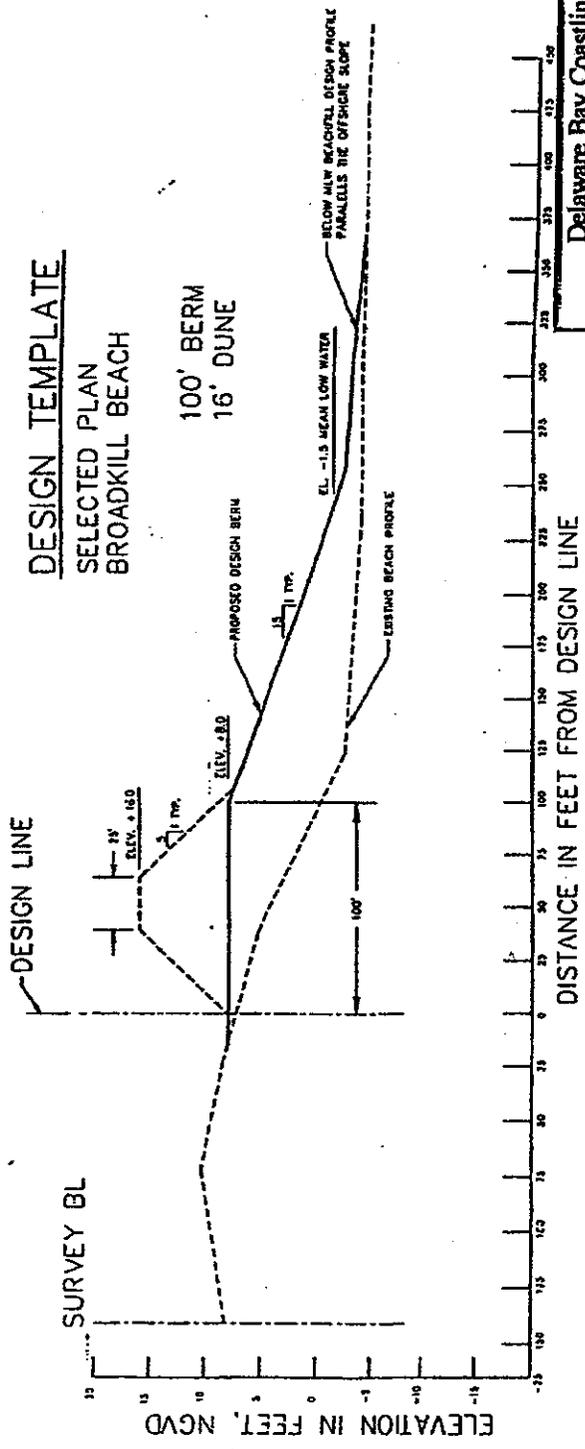


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DESIGN TEMPLATE

SELECTED PLAN
BROADKILL BEACH

100' BERM
16' DUNE



Delaware Bay Coastline - DE & NJ
Broadkill Beach, DE Interim Feasibility Study
Typical Section of Selected Plan

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