BEACH RETENTION STRUCTURE

&

AN EXTENSION TO THE SOUTHERN GROIN
New Jersey’s
Shore Protection Program

State of New Jersey
Jon S. Corzine, Governor

Dept. of Environmental Protection
Mark N. Mauriello, Acting Commissioner

Natural & Historic Resources
Amy Cradic, Assistant Commissioner

Office of Engineering & Construction
David Rosenblatt, Administrator
To administer beach nourishment, shore protection and navigational dredging projects throughout the State to:

• Provide for the protection of life and property along the coast

• Preserve our State’s vital coastal resources

• Maintain safe and navigable waterways
Shore Protection Fund –
Dedicated for…

“To protect existing development and infrastructure from storm surges, sea-level rise and shoreline migration through dune creation and maintenance, beach nourishment projects, and construction and repair of shore protection structures."

$25 million dedicated annually
Realty Transfer Tax (N.J.S.A. C.13:19-16.1)
Shore Protection Funding – How It’s Divided

Federal Projects - NJDEP - local sponsor in these projects

- Studies
- Storm Damage Reduction/Shore Protection
- Environmental Restoration

State Projects - Municipalities - local sponsor in these projects

- Storm Damage Reduction/Shore Protection

Professional and Technical Services -

- Stevens Institute of Technology
- Richard Stockton College of New Jersey
- Division of Fish and Wildlife
- New Jersey Geological Survey
AMHERST BEACH PROTECTION

Proposed location of new rock and vinyl groin

Proposed location of rip-rap stone protection

Proposed 45-foot extension to existing rock groin

Barnegat Bay

1 inch equals 100 feet

2007 Aerial Photograph
Prepared May 2009
• Vinyl and Rock Groin
  – 80 Linear Feet
  – Vinyl Sheeting with 8” timber piles on 5’ centers
  – 20” Rip-rap Stone

• Groin Extension
  – 45 Linear Feet
  – 20” Rip-rap Stone with filter fabric under layer

• Goal: Inhibit the longshore transport of sediment that shoals the mouth of what is known as Amherst Inlet or Berkeley Shores Channel.
Groin

Rip-rap stone protection

South groin extension
North Side of Inlet –
Looking southwest at location for new groin
North Side of Inlet –
Looking Northeast at location of rip-rap and groin

Groin to be placed on northeast side of vegetation

Rip-rap stone to be placed seaward of existing vegetation for protection
South Side of Inlet –
Looking northerly at existing groin tip across inlet
Proposed Project Costs: $84,825.00

Cost Share:
- 75% State = $63,618.75
- 25% Municipality = $21,206.25
AMHERST BEACH PROTECTION –
2009 Project Facts

- Bid Opening: April 24, 2009
- Award was to Albert Marine Construction, Inc. in the amount of $84,825.00
- Pre-Construction Meeting: May 11, 2009
- Notice to Proceed: June 1, 2009
- Construction Start: June 5, 2009
- Proposed Construction End Date: July 3, 2009