



# New Jersey Shore Protection

## West Atlantic City, Egg Harbor Township



# West Atlantic City Gabion Installation



New Jersey Dept. of Environmental Protection  
Office of Engineering & Construction  
Bureau of Coastal Engineering  
Benjamin Keiser, Manager

Township of Egg Harbor  
Atlantic County, New Jersey  
James J. McCullough, Mayor



# New Jersey's Shore Protection Program



State of New Jersey

Chris Christie, Governor

Kim Guadagno, Lt. Governor

Dept. of Environmental Protection

Bob Martin, Commissioner

Natural & Historic Resources

Amy Cradic, Assistant Commissioner

Office of Engineering & Construction

David Rosenblatt, Administrator

# **Bureau of Coastal Engineering - Purpose...**

**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 -

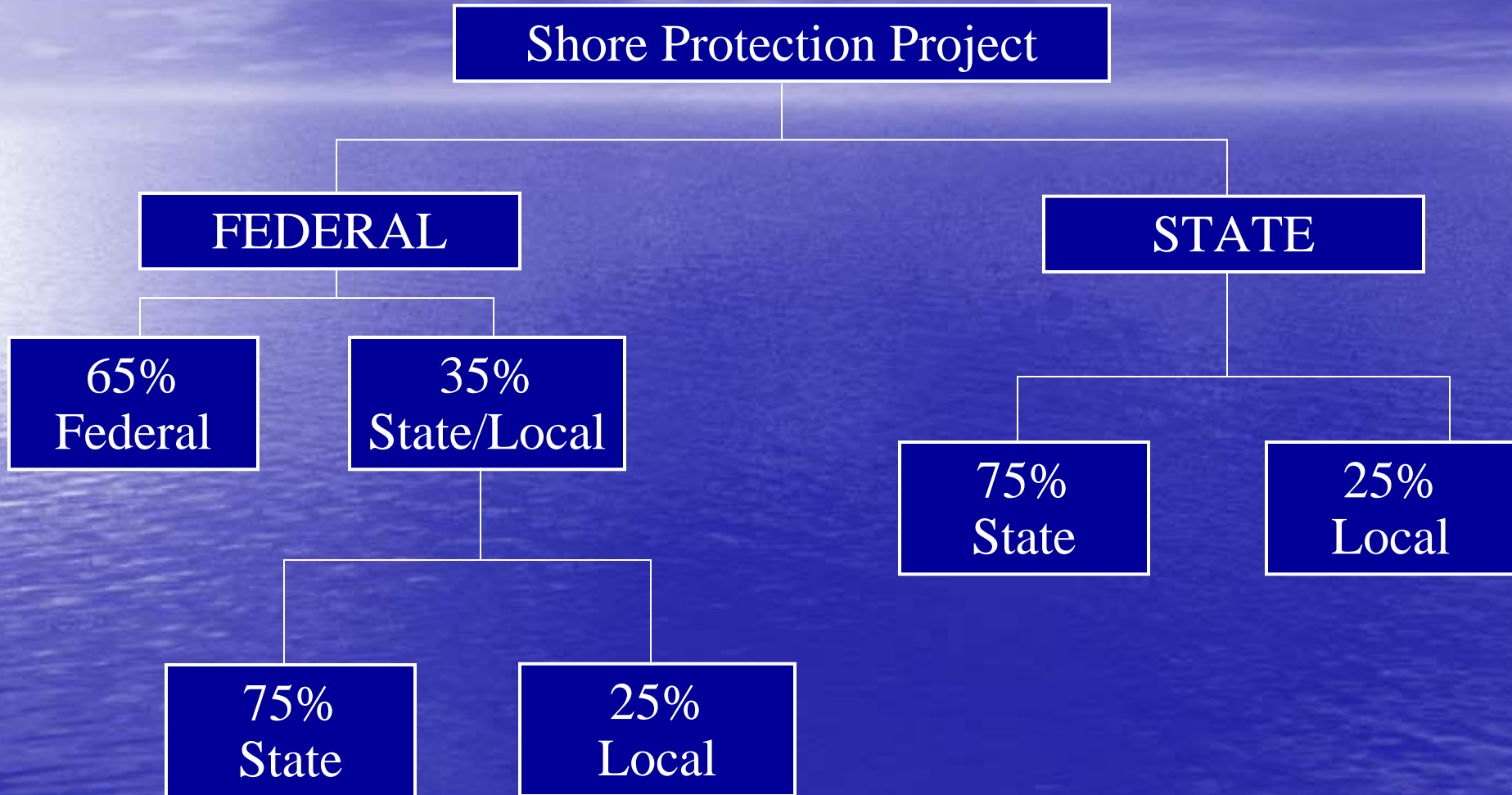
- Stevens Institute of Technology
- Richard Stockton College of New Jersey
- Division of Fish and Wildlife
- New Jersey Geological Survey



New Jersey Dept. Environmental Protection  
**Bureau of Coastal Engineering**

**Shore Protection Program**

# Shore Protection Construction – Cost Share Structure





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## Egg Harbor Township, NJ



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New Jersey Dept. of Environmental Protection  
Office of Engineering & Construction



# Problem Areas







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# Existing Conditions





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# Gabion Construction





# Project Specifics

- Cordova Avenue – Fox Place
- Contract Timeframe – 120 days
  - Estimated Bid – Late Summer/Early Fall
- Must minimize traffic obstructions
- Must maintain a clean and safe work site
- Must abide by all Federal, State, and Local regulations



# Project Specifics

- **Rock Gabion Baskets**
  - 3,500 S.Y.
  - 1,000 C.Y. 6" DGA Base w/ Geotextile Underlayer
  - Stone size - 4 to 8 inches
  - Manta Ray Anchoring System
- **Sand Dune Cover**
  - 10,000 C.Y.
  - Revegetation (native dune plant species)
- **Mr. Boardwalk Roll-Out**
  - 459 Combine L.F.
  - Located Near Street-Ends



# Required Permits



- **State**
  - CAFRA
  - Waterfront Development
  - Water Quality Certificate
- **Federal**
  - Individual Permit



# Reimbursement Project



- **Project Cost Share Structure**
  - Municipal FEMA Mitigation Assistance
  - State Shore Protection Grant
    - State = \$200,000.00
    - Municipality = \$66,666.66
- **Town Responsible for Future Maintenance**
- **Executed State Aid Agreement Required**
- **DEP Easement Required for Reimbursement**



# New Jersey Department of Environmental Protection *Shore Protection Program*



[www.nj.gov/dep/shoreprotection](http://www.nj.gov/dep/shoreprotection)