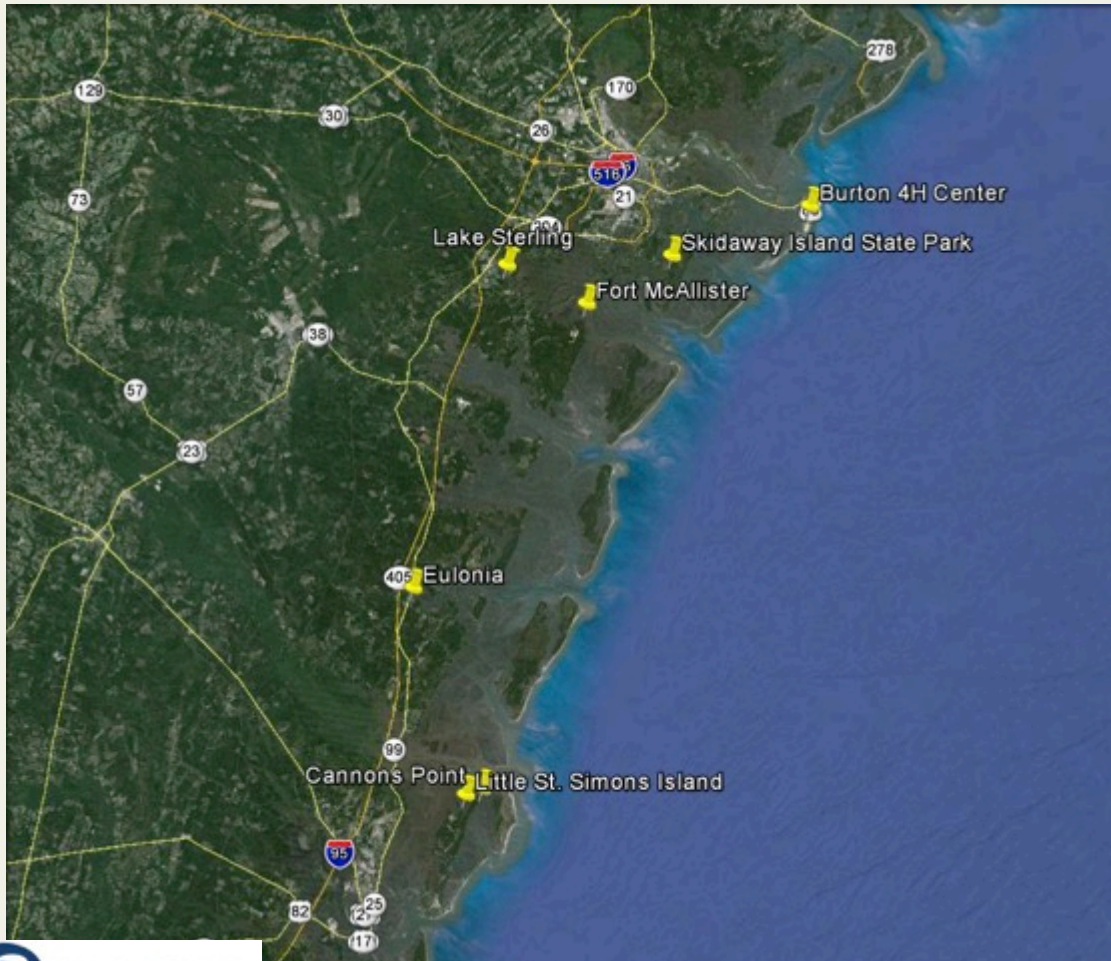


# Georgia Living Shoreline Solutions



# Georgia Living Shoreline Locations



- Projects from Tybee Island to Little St. Simons Island
- Range from fresh water lakes to salt water marshes
- Common elements between many of the designs, with variations to fit local conditions

# St. Catherine's Island



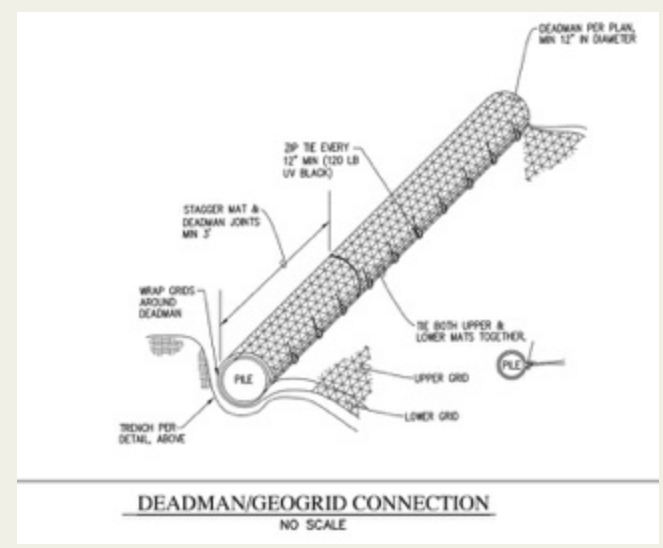
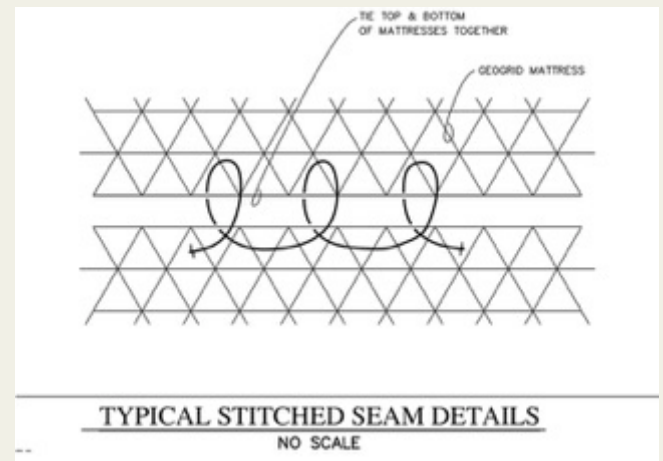
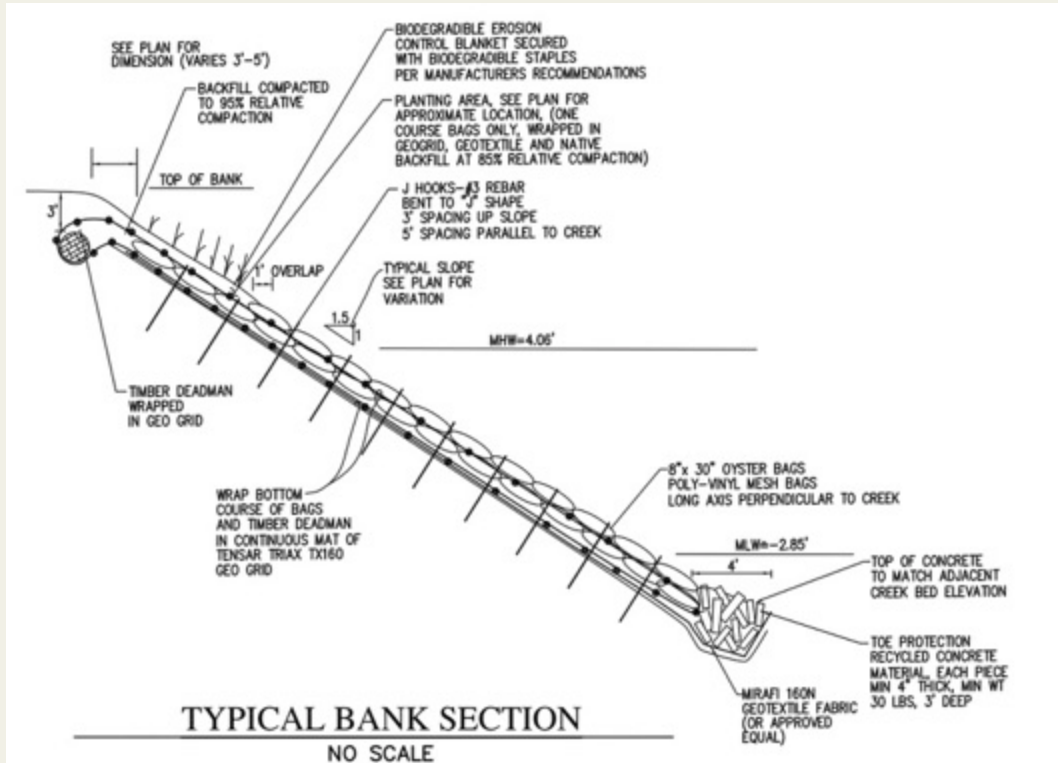
- Typical erosion pattern along salt marsh creek
- Usually outside curve of creek
- High tides affect adjacent bluffs
- Slopes near vertical
- Usual need for shoreline design is protection

# Burton 4H on Tybee Island



- Structures in jeopardy from eroding creek banks
- Tybee 4H center, erosion of approximately 3 feet per year

# Typical Sections – Salt Water



# Little St. Simon's Island



# Cannons Point



Pre-Project Conditions

- Salt Marsh along Lawrence Creek
- Actively eroding creek bank
- Outside edge of curve, near 1:1 slopes



Post-Project Conditions

- Bottom slope 1.5:1, top slope 3:1
- Spartina & Oxeye above oyster bags
- Toe protection under water

# Lake Sterling at the Ford Plantation



- Fresh water lake in Richmond Hill, GA
- ← Problem
- Soils happy with less slope
- Erosion caused by wave action
- Turf grass to shoreline

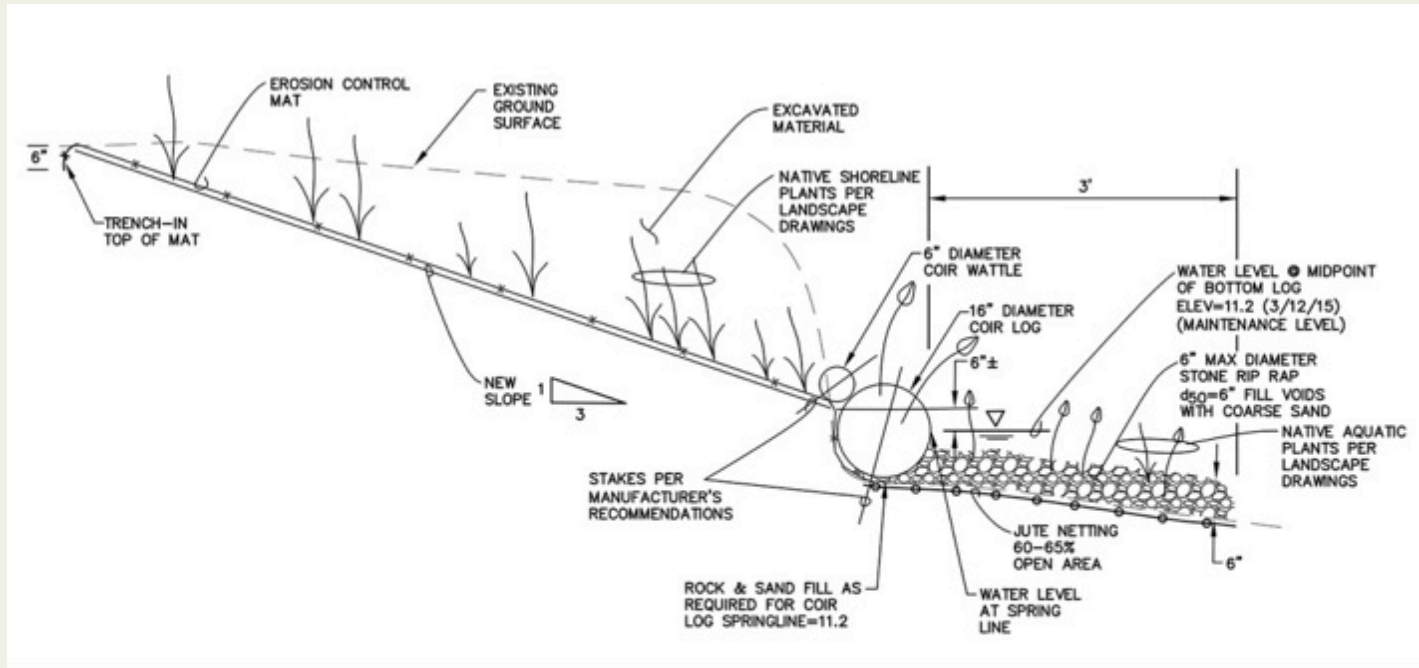
Solution →

- Flatten slopes
- Provide temporary protection
- Plant with native aquatics & shoreline plants to establish vigorous root growth





# Typical Section – Fresh Water



BANK STABILIZATION CROSS SECTION  
TYPICAL INSTALLATION

NO SCALE