



CIVIL | MARINE | PLANNING | STRUCTURAL

Shelmark Engineering provides design services including civil, structural, and marine engineering services to coastal communities along the Texas Gulf Coast since 2000.

Our project development includes research, planning, evaluation, design, bid procurement and construction administration. We specialize in permitting processes with environmental constraints such as wetlands and critical habitats; high wind and flood design for storm events; floodplain mitigation; and challenging soil conditions for both private & public projects.

Our experience leads to a common sense approach that results in a successfully completed project within budget and on schedule.

## Our Structural Services

**STRUCTURAL** - Analysis & design of new/existing steel, concrete, wood, & aluminum structures under effects of impact, flood, high wind & wave loads for residential, commercial, institutional, and petrochemical projects for both public & private markets.

- Structural Assessment & Inspections
- Windstorm Design, Inspections & Certifications
- Residential & Commercial Building Foundations
- Foundations for Pre-Engineered Metal Buildings
- Reinforced Concrete/Piling Foundations for Elevated Structures
- Storage Tank & Equipment Foundation
- Coastal Structures - Platforms, Docks, Piers, & Break Waters
- Concrete Tiltwall Buildings/Masonry Wall Design
- Steel and Timber Design and Analysis
- Finite Element Analysis & Numerical Modeling
- IRC, IBC, AISC, ASCE, ACI, AASHTO, ASTM, UFC, & NDS codes & Specifications
- Multi-story Buildings
- Institutional/Educational
- Timber and Concrete Bridges
- Gravity & Cantilever Retaining Walls
- Sheetpile & Soldier Pile Shoring Structures
- Trench Safety Plans

**MARINE / COASTAL** - Providing engineering solutions for structures resisting high wind loads, storm event flood loads, wave and current loads, ship berthing and mooring loads, as well as regulatory permitting including environmental constraints and critical habitats for the Petrochemical industry, Marine terminals, and coastal communities along the Texas Gulf Coast.

- Bulkhead/Shoreline Protection Systems
- Mooring & Breasting Structures
- Marinas/Boardwalks/Piers/Boat Houses
- Dredging Plans/Maintenance Permits
- Waterfront Facility Design/Expansions
- Dock Assessments & Inspections
- USACE and GLO Permitting

## Structural Project Portfolio



### ~ Murdoch's Bathhouse - Seawall

Galveston, Texas  
Pier Properties, Inc.  
Contact: Mr. Jim Little  
Phone: (409) 771-0323



### ~ Naztec - Office Building - Sugarland

ARCON Architects, Inc.  
Contact: Mr. Stan Cromartie, AIA  
Phone: (281) 316-6392



### ~ Boat Ramp - Texas A&M University

Galveston, Texas  
Texas A&M University  
Contact: Mr. Pat Hebert  
Phone: (409) 740-4558



### ~ Condominums - Silverleaf Seaside Resort

Galveston, Texas  
Silverleaf Resorts, Inc.



### ~ Sportsman Road Bridge

Galveston, Texas  
City of Galveston  
Contact: Mr. Angelo Grasso  
Phone: (409) 762-3630



### ~ Marina Expansion at NAS

Corpus Christi, Texas  
Navy Installations Command (CNIC)  
Contact: Commander David Munnell  
Phone: (901) 874-6667



### ~ Elevated Grain Tank Platform

Sweetwater, Texas  
John D. Mercer & Associates, Inc.  
Contact: Mr. John D. Mercer  
Phone: (361) 782-7121