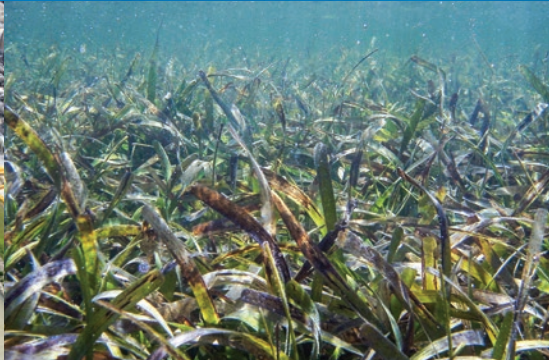


# Planning & Design

Marine Structure & Infrastructure





## Schneider Engineering & Consulting

Schneider Engineering & Consulting (SEC), a wholly owned subsidiary of the Orion Marine Group, is headquartered in Tampa, Florida. As part of the Orion Marine Group network of companies, SEC engineers and consultants are able to support our clients from strategic locations across North America, including Houston, Texas; Seattle, Washington; Anchorage, Alaska, and Norfolk, Virginia. In addition to the professional resources available in our Tampa and Houston offices, SEC is able to draw on a range of heavy civil marine construction and specialty services within our marine group.

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### Planning and Design

Schneider Engineering & Consulting specializes in planning, permitting, and designing marine structures and related infrastructure for private marine terminals, port authorities, marine contractors and other engineering firms throughout the Americas and the Caribbean. Company principals and senior staff have over 60 years of experience as "Engineers of Record" on major marine facility design/build projects for cruise lines, petroleum companies, and the U.S. Navy.

### Company History

Schneider Engineering & Consulting was established to provide personalized professional services to clients, with the goal of designing projects and structures that are highly functional, easily constructed, and cost effective. The efficiency of our corporate structure allows SEC's principal engineers to remain involved in every design decision and phase, while adding not only value to our clients' projects, but also providing the assurance that each project achieves a successful outcome.

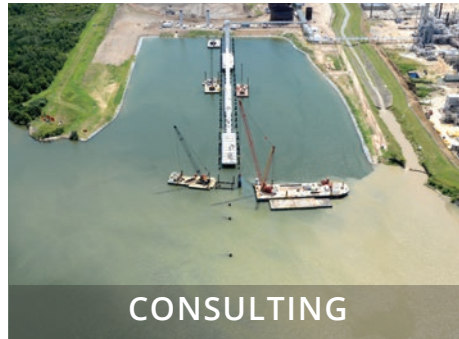




## ENGINEERING

SEC provides engineering solutions for all phases of marine structure design, from concept through construction completion. We create designs that add value to our clients' projects – constructability, ease of operation, easy maintenance, and sustainability – while effectively addressing on-time and on-budget needs. Design deliverables can be prepared using a conventional design-bid-construct model or fast-track design-build model.

- Marine Structures
- Petroleum Marine Terminals
- Bulk Marine Terminals
- Cruise Ship Terminals
- Container Terminals
- Berthing and Mooring Analysis
- Inspections and Rehabilitation Designs
- Navigation Studies and Dredge Template Designs



## CONSULTING

SEC offers a full spectrum of consulting options, including initial studies and concept development, financial and facilities planning, feasibility studies, regulatory permit applications, and site suitability studies.

We provide final design and development of construction plans, design reviews, peer reviews, and preliminary and final opinions of probable construction costs, as well as project management and bid preparations. Construction services are also available.

- Planning Studies and Conceptual Designs
- Logistic/Economic Feasibility
- Analysis/Phasing Development
- Scheduling and Estimating
- Bid Process Management
- Program and Construction
- Project Management



## ENVIRONMENTAL

SEC creates wide-ranging and sustainable solutions to environmental challenges. Our maritime environmental staff provides a full range of waterfront-related environmental studies and permitting in a cost-effective and responsive manner, both in the U.S. and abroad.

- Environmental and Regulatory Permitting
- Dredging and Material Management
- Essential Fish Habitat (EFH) Analysis
- Alternative Site Analysis
- Mitigation Plan Development
- 103 Sediment Evaluation for Offshore Disposal
- Water Quality Studies
- Hydrodynamic Analysis
- Sediment Characterization Studies
- NEPA – EA/EIS Preparation
- NPDES Permitting and Compliance
- Cultural, Archaeological, and Historical Resource Assessment
- Air Quality Analysis