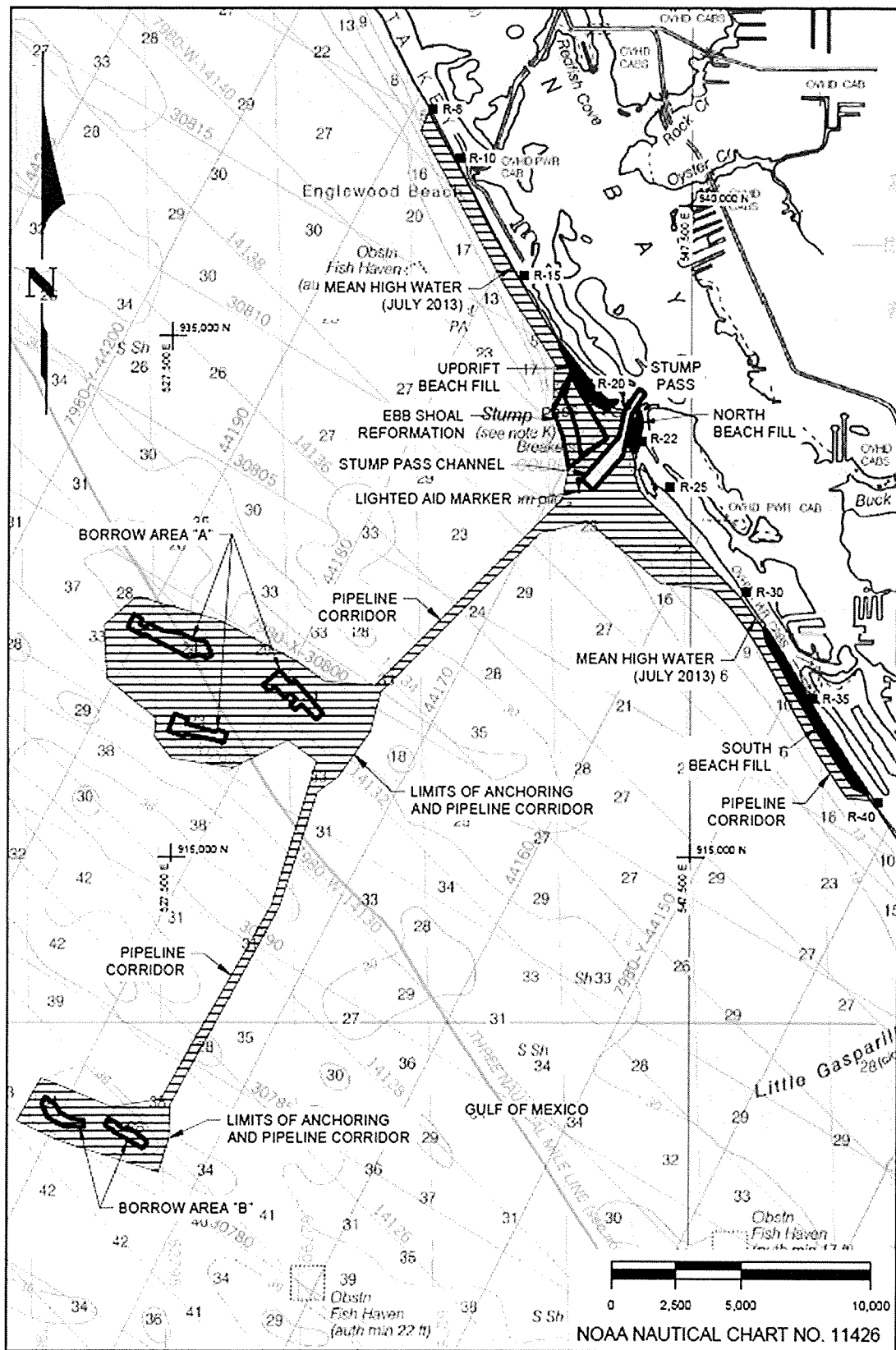




CONFLICTS OR COMPLEMENTS TO EXISTING EFFORTS

Charlotte County's Erosion Control Project has been designed to be consistent with the State of Florida's adopted Strategic Beach Management Plan. It is a vital and complementary component to the State's strategy for restoring the critically eroding beaches of the Southwest Gulf Coast Region, Manasota Barriers. Refer to Figure 2.

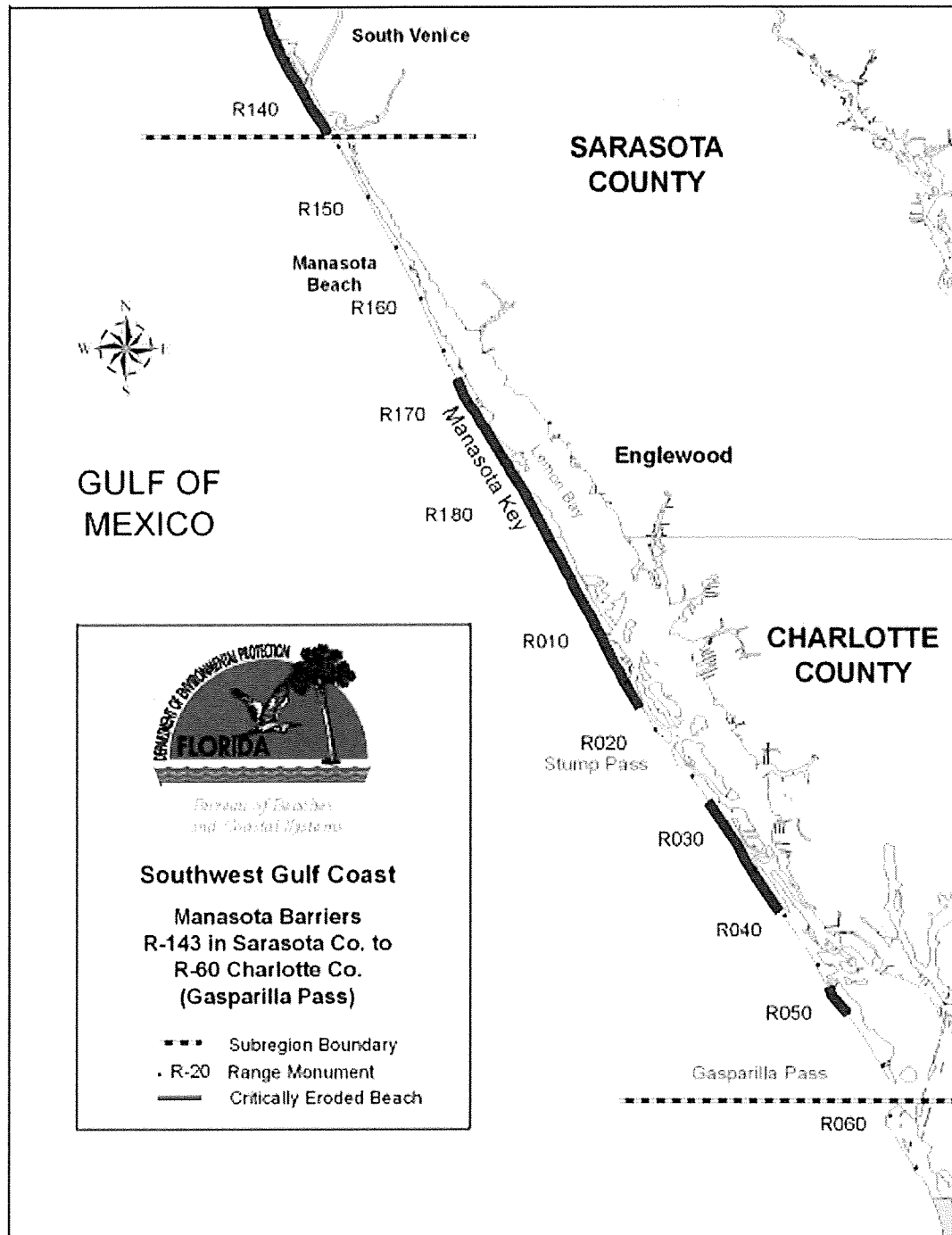


Figure 2. FDEP Manasota Barriers, Strategic Beach Management Plan

ENVIRONMENTAL BENEFITS

As part of a 2011 project, the County created 4 acres of land designed specifically and exclusively as shorebird habitat for nesting, resting, and foraging. Each year the County is responsible for clearing the 4 acres prior to the next nesting season. Details of the monitoring conducted by the County in accordance with the permits are described below. The results of the monitoring indicate the County's program is highly successful. Refer to the table below for the long-term summary of monitoring results.

Long-Term Shorebird Monitoring Nesting Summary

Charlotte County Erosion Control Project Area Shorebird Fledging Data – 9 Year Overview									
Observed Species	2003	2004	2005	2006	2007	2008	2009	2010	2011
	Fledged	Fledged	Fledged	Fledged	Fledged	Fledged	Fledged	Fledged	Fledged
American Oystercatcher	0	0	0	0	0	0	0	0	0
Black Skimmer	0	0	0	0	0	0	2	0	3
Least Tern	30	17	10	25	2	31	5	5	16
Snowy Plover	2	3	5	4	1	5	10	7	2
Wilson's Plover	9	7	21	7	10	12	11	18	21
Total Fledged	41	27	36	36	13	48	28	30	42

The beach fill sections to be restored under the proposed Project provide buffering to the prior created habitat, protecting the areas and the investments already made in them. The fill will also create additional dry beach width that allows for sea turtle nesting. The dune restoration and re-vegetation elements of the design provide incidental habitat for other typical coastal species.

The County proposes to conduct the permitted comprehensive natural resource monitoring and protection program for sea turtles, shorebirds, water quality, manatees, small tooth sawfish and seagrass beds. The permitted sea turtle protection plan consists of daily monitoring of turtle nesting, mark and avoidance, nest relocations, escarpment removal, and beach tilling corresponding to the state and federal requirements contained in the USFWS Biological Opinion and Amendments for this Project. The permitted shorebird protection plan includes daily monitoring of bird activity and nesting, and marking/maintaining/enforcing appropriate construction buffers. The permitted water quality protection plan contains standard water quality monitoring for turbidity at the updrift and south beach fills and the supplemental borrow area and stringent turbidity monitoring and controls to protect water quality in the adjacent Aquatic Preserve during primary borrow area dredging and north beach fill placement. The permitted manatee protection plan and small tooth sawfish plan consists of the standard construction conditions for manatee and sawfish protection corresponding to

COST APPENDIX SHEET

COST ITEM	COST ESTIMATE
PLANNING	
Feasibility Study	\$ 275,000
Design and Permitting	\$ 405,000
PLANNING SUBTOTAL	\$ 680,000
CONSTRUCTION	
Mobilization and Demobilization	\$ 1,423,000
Beach Fill	\$ 3,270,000
Dunes	\$ 43,000
Coastal Structure	\$ 1,847,000
CONSTRUCTION SUBTOTAL	\$ 6,583,000
MONITORING	
Post-Construction Monitoring	\$ 220,000
3-Year Annual Monitoring Surveys	\$ 682,000
MONITORING SUBTOTAL	\$ 902,000
PROJECT COST	
Supervision	\$ 474,000
PROJECT COST SUBTOTAL	\$ 474,000
TOTAL	\$ 8,639,000

ESTIMATED COSTS BY YEAR

YEAR 1 (FEASIBILITY)	\$ 275,000
YEAR 2 (DESIGN & PERMITTING)	\$ 405,000
YEAR 3 (CONSTRUCTION)	\$ 7,277,000
YEAR 4 (YEAR 1 MONITORING)	\$ 231,000
YEAR 5 (YEAR 2 MONITORING)	\$ 227,000
YEAR 6 (YEAR 3 MONITORING)	\$ 224,000
TOTAL	\$ 8,639,000