

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
1949 Industrial Park Road, Room 140
Conway, South Carolina 29526
and the
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

REGULATORY DIVISION
Refer to: P/N #2007-01983-3IV

September 28, 2007

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et.seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

HORRY COUNTY INFRASTRUCTURE AND REGULATION DIVISION
c/o COASTAL SCIENCE AND ENGINEERING (CSE)
P.O. BOX 8056
COLUMBIA, SOUTH CAROLINA 29202-8056

for a permit to perform beach nourishment in and adjacent to waters of the

ATLANTIC OCEAN

at a location beginning at the Apache Campground Pier and extending 6,400 linear feet and ending just south of Singleton Swash (Latitude 33.76022°, Longitude -78.78745°)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, OCTOBER 29, 2007

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of placing 400,00 cubic yards of beach quality sand along ~6,400 feet of oceanfront. The project area extends from the Apache Campground Pier to Singleton Swash, then continues south of the swash ~1,600 feet. The sand will be dredged from a shore-detached shoal situated a minimum of 12,000 feet offshore of the project area. The applicant proposes to hydraulically dredge the sand and place it on an ocean-certified hopper dredge. The sediment will then be pumped from the hopper dredge via a submerged pipe positioned ~1/2 mile offshore to a landing area. Once the material is placed, it will be shaped by land based equipment using temporary training dikes to direct the slurry discharge parallel to the shore. As construction reaches Singleton Swash, a temporary dike will be constructed across it to accommodate the pipeline and to control southern migration of the swash during the project. This will close the swash for a period not to exceed four days. Immediately upon completion of fill placement in Reach 1 south of Singleton Swash, the pipeline and dike will be removed and a pilot

channel will excavated for the swash across the active beach. According to the applicant, the total nourishment volume is ~90 percent of the volume contracted in the 1999 permit (92-2R-199) and is expected to provide benefits for a minimum of ten years. The purpose of the project is for erosion control and beach restoration.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
1949 Industrial Park Road, Room 140
Conway, South Carolina 29526**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 188 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite

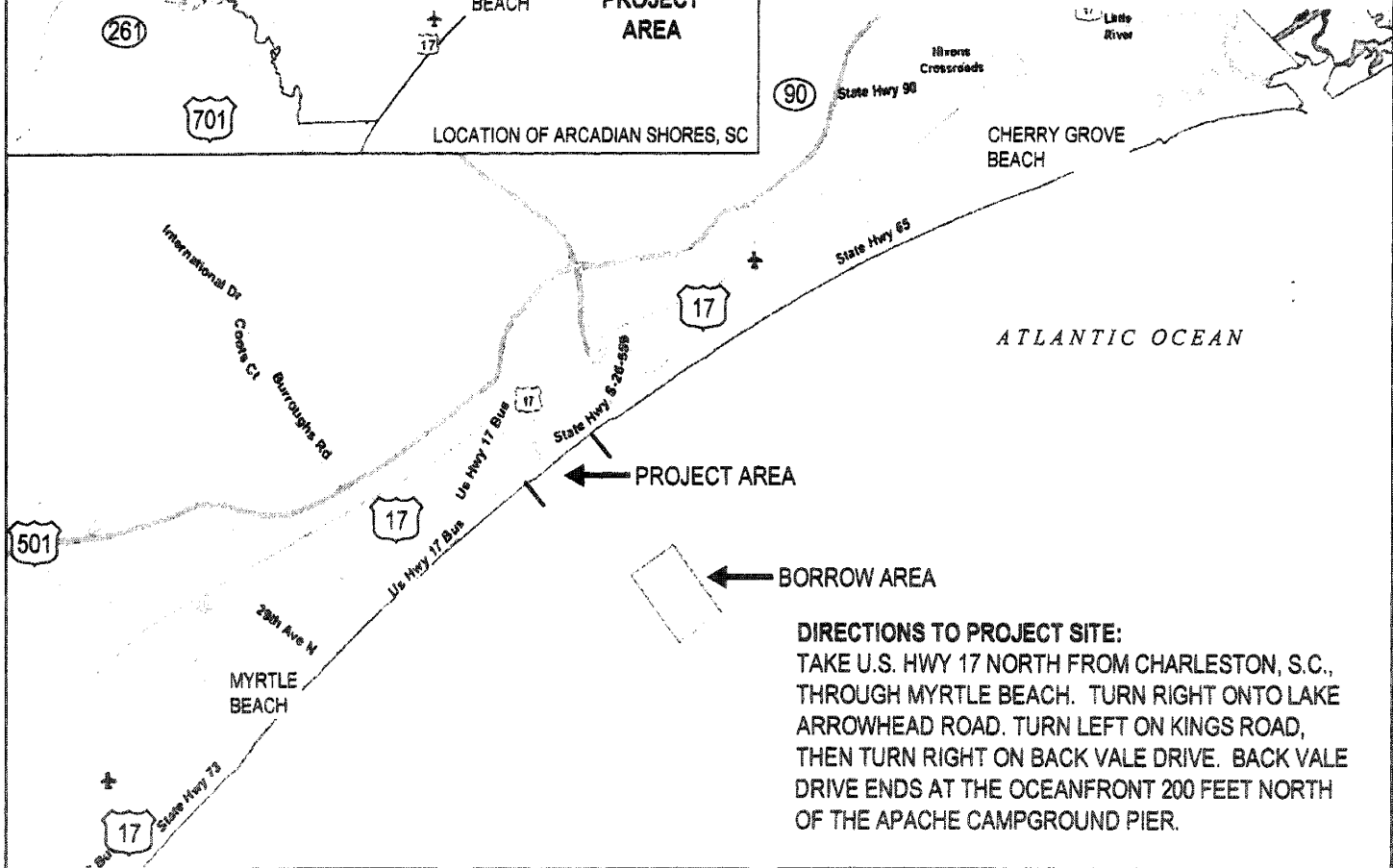
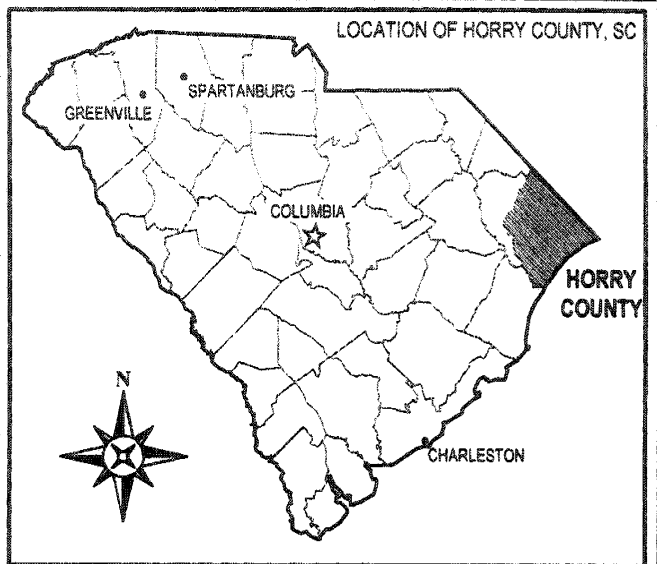
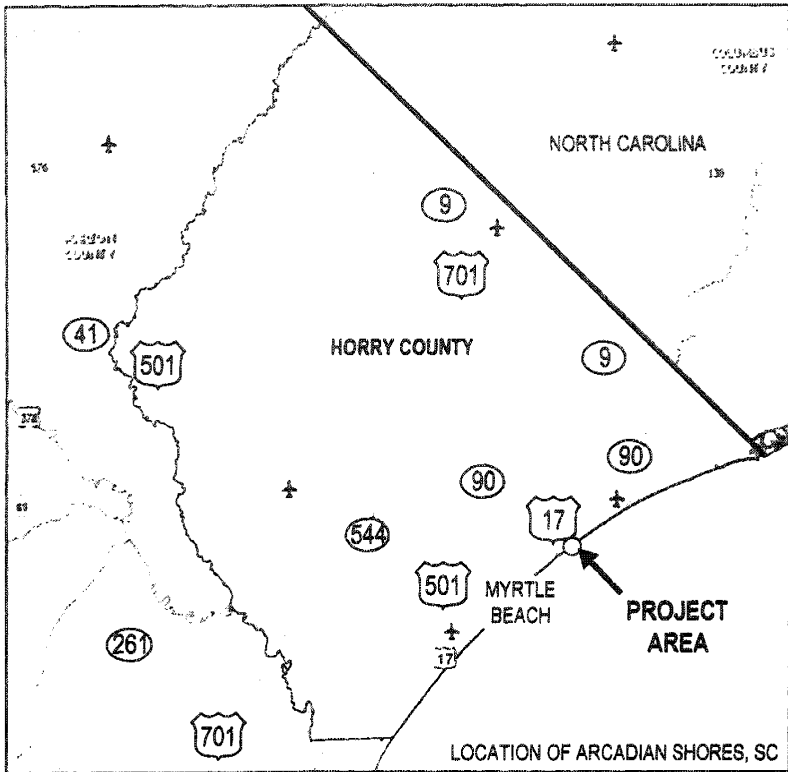
is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Chad Konickson at 843-365-1739.

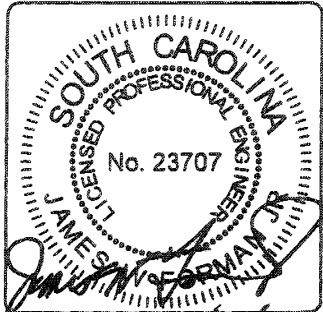
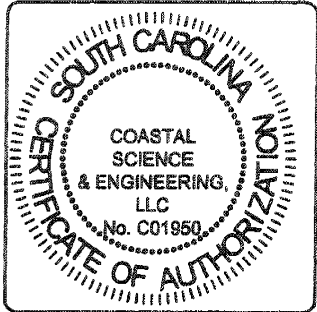


DIRECTIONS TO PROJECT SITE:
 TAKE U.S. HWY 17 NORTH FROM CHARLESTON, S.C., THROUGH MYRTLE BEACH. TURN RIGHT ONTO LAKE ARROWHEAD ROAD. TURN LEFT ON KINGS ROAD, THEN TURN RIGHT ON BACK VALE DRIVE. BACK VALE DRIVE ENDS AT THE OCEANFRONT 200 FEET NORTH OF THE APACHE CAMPGROUND PIER.

AF SAC# 2007-01983-3IV
 HC Horry County I&R Division
 CI Arcadian Shores Beach Nourishment
 44 Horry County, South Carolina

AG September 20, 2007
 COASTAL SCIENCE & ENGINEERING
 PO BOX 8056
 COLUMBIA, SC 29202

Sheet 1 of 16
 PROJECT# 2238 OF 16



8/20/07

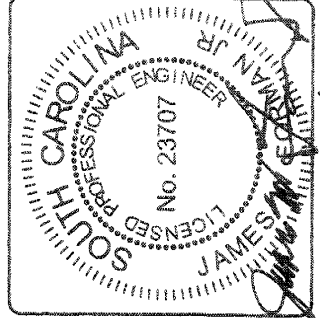
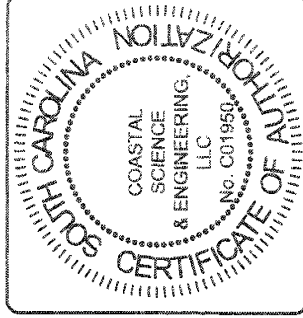
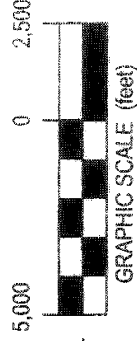
BORROW AREA COORDINATE CHART

System: US State Plane 1983 Zone: SC 3900 Datum: NAD 1983 (feet)

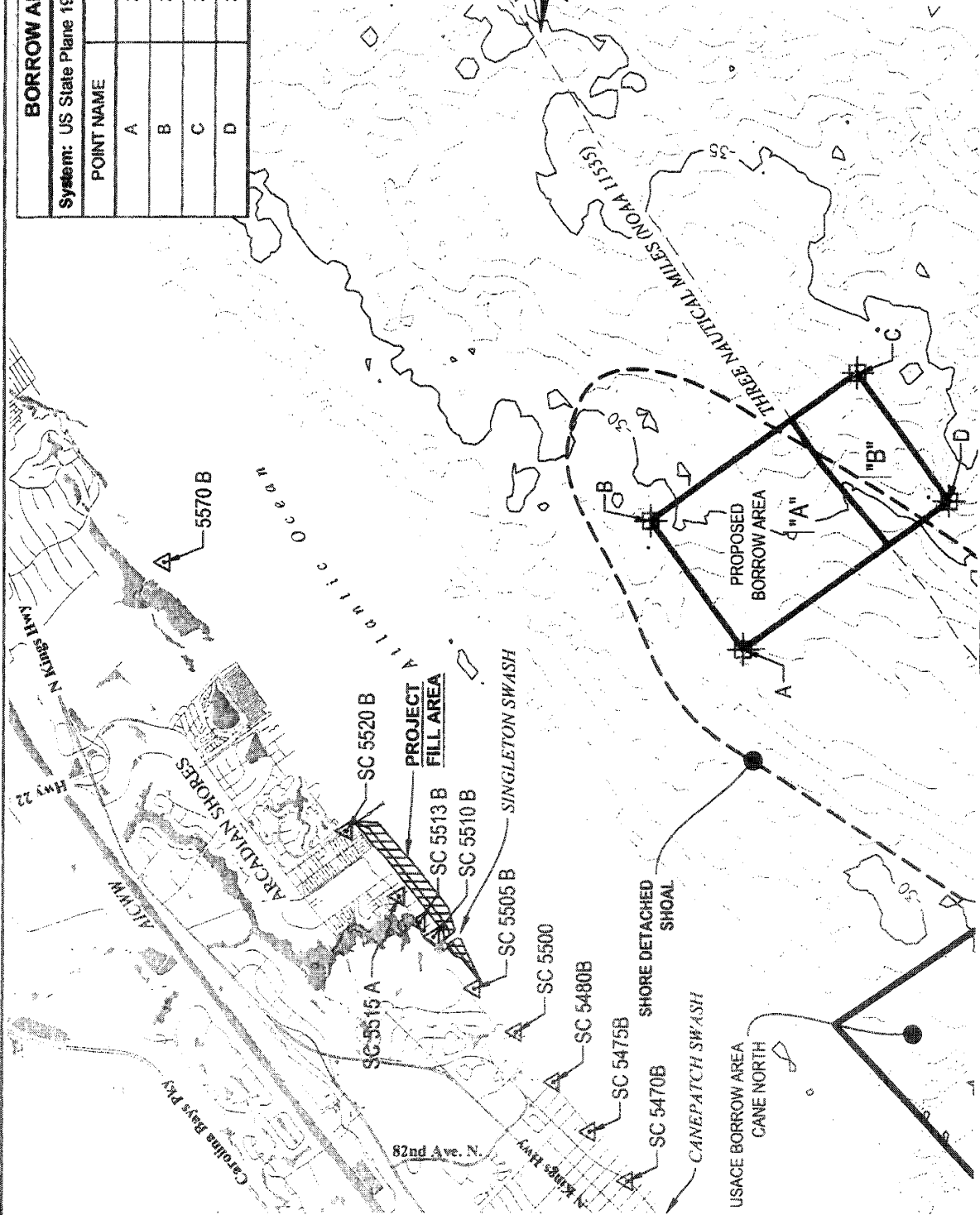
POINT NAME	NORTHING	EASTING
A	2,679,542.550	697,458.360
B	2,683,587.230	700,397.850
C	2,686,278.760	693,917.920
D	2,684,234.090	690,978.430

NOTES:
REGIONAL BATHYMETRY PROVIDED BY USGS
(1999-2003 COMPOSITE).

SEE SHEETS 13 FOR JULY 2007 BATHYMETRY
BY USE OF PROPOSED BORROW AREA.



10/20/07

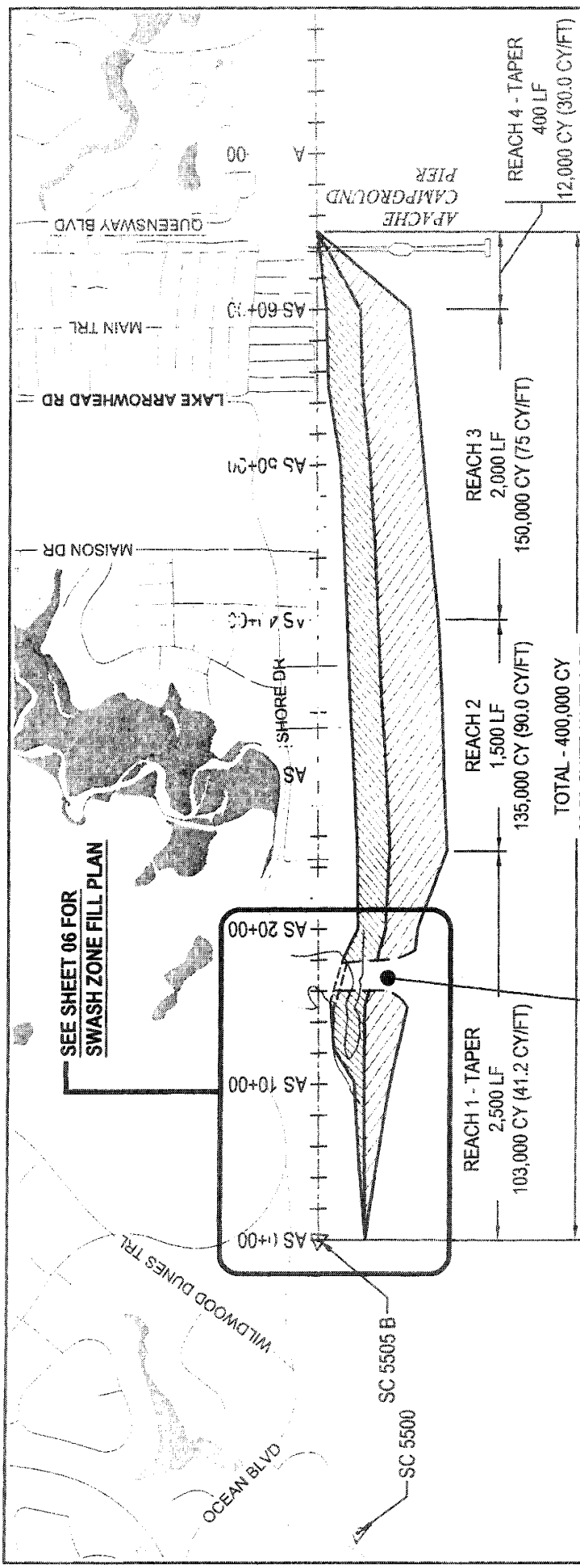


SCALE: AS SHOWN	SHEET #: 02
DATE: AUG 2007	
TMS#	
PROJECT #: 2236	OF: 16

DRAWING TITLE:
**BEACH NOURISHMENT
PROJECT AREA MAP**

CE & ENGINEERING
9202

SAC# 2007-01983-3IV
Horry County I&R Division
Arcadian Shores Beach Nourishment
Horry County, South Carolina



ARCADIAN SHORES FILL SCHEDULE

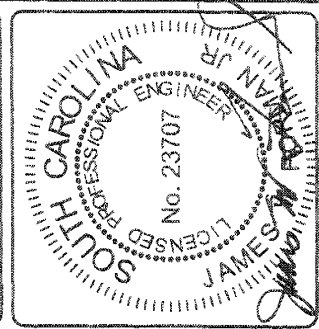
STATION	LENGTH (FT)		FILL DENSITY (CY/FT)	REACH VOLUME
	Start	End		
AS 0+00	AS 16+00	1,600	31.6	50,500
AS 16+00*	AS 18+00	200	0	0
AS 18+00	AS 25+00	700	75	52,500
AS 25+00	AS 40+00	1,500	90	135,000
AS 40+00	AS 50+00	2,000	75	150,000
AS 60+00	AS 64+00	400	30	12,000
TOTALS			62.5	400,000

*Swash channel to be excavated by contractor upon fill completion

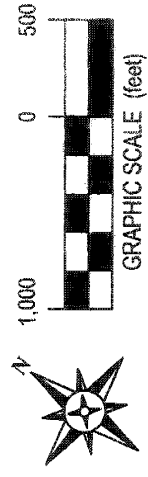
SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

Sheet 3 of 16



NOTE:
 SINGLETON SWASH TO BE CLOSED TEMPORARILY BY A SAND DIKE (UP TO 4 DAYS) WHILE REACH 1 IS CONSTRUCTED. IMMEDIATELY UPON COMPLETION OF REACH 1, THE TEMPORARY DIKE FOR THE PIPELINE ACCESS WILL BE REMOVED AND A PILOT CHANNEL CONSTRUCTED BETWEEN STATIONS AS 16+00 AND AS 18+00. THE PRESENT CHANNEL DISCHARGES ACROSS THE BEACH BETWEEN STATIONS AS 11+00 AND AS 18+00. SEE SHEET 06 FOR DETAILS.



SCALE: AS SHOWN
 DATE: AUG 2007
 TMS#
 PROJECT #: 2236

SHEET #:
03

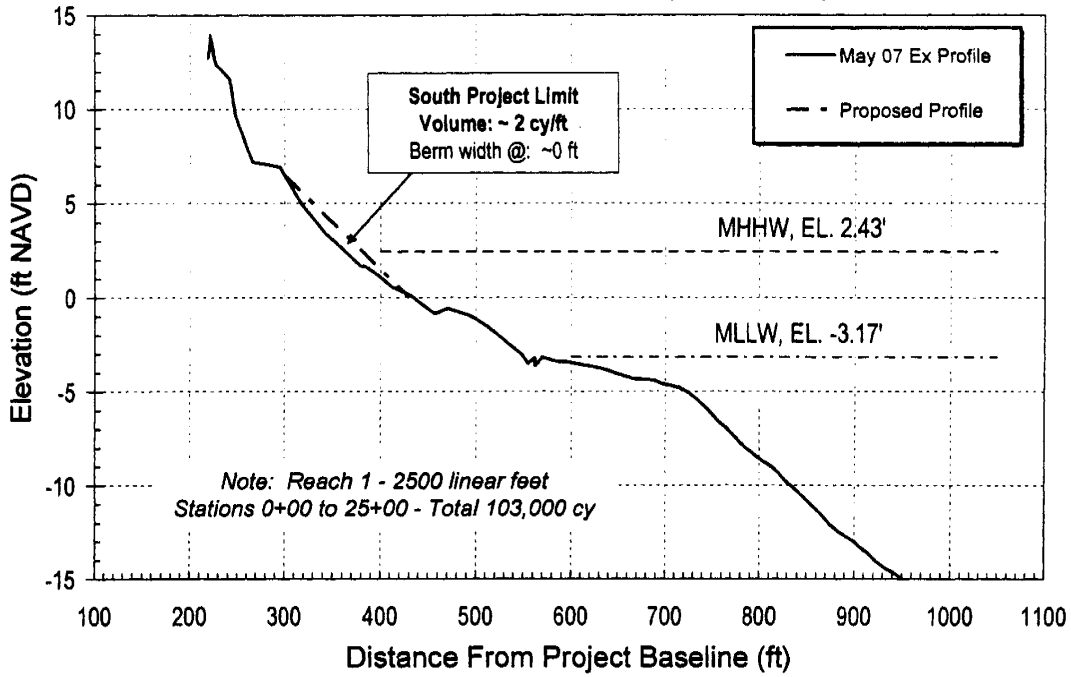
OF: 16

DRAWING TITLE:
**BEACH NOURISHMENT
 PROJECT FILL AREA**

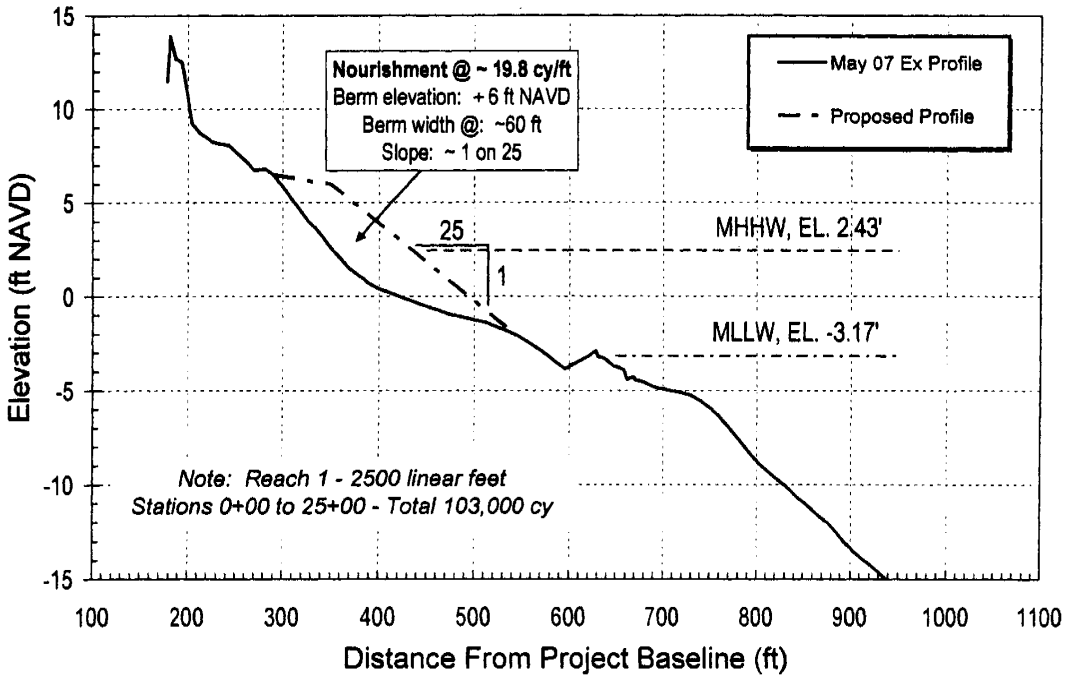
: & ENGINEERING
 32

8/29/07

Arcadian Shores Station AS 0+00 (OCRM 5505)



Arcadian Shores Station AS 5+00



SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

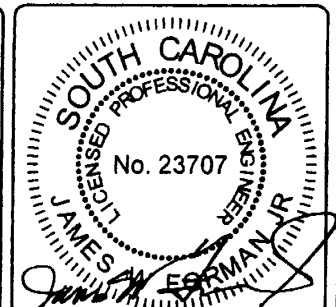
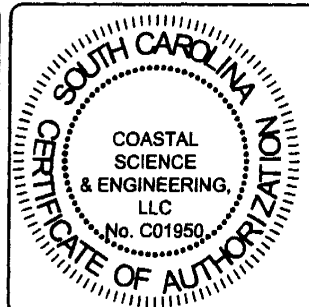
PO BOX 8056
 COLUMBIA, SC 29202

IMENT
 FILES

Sheet 4 of 16

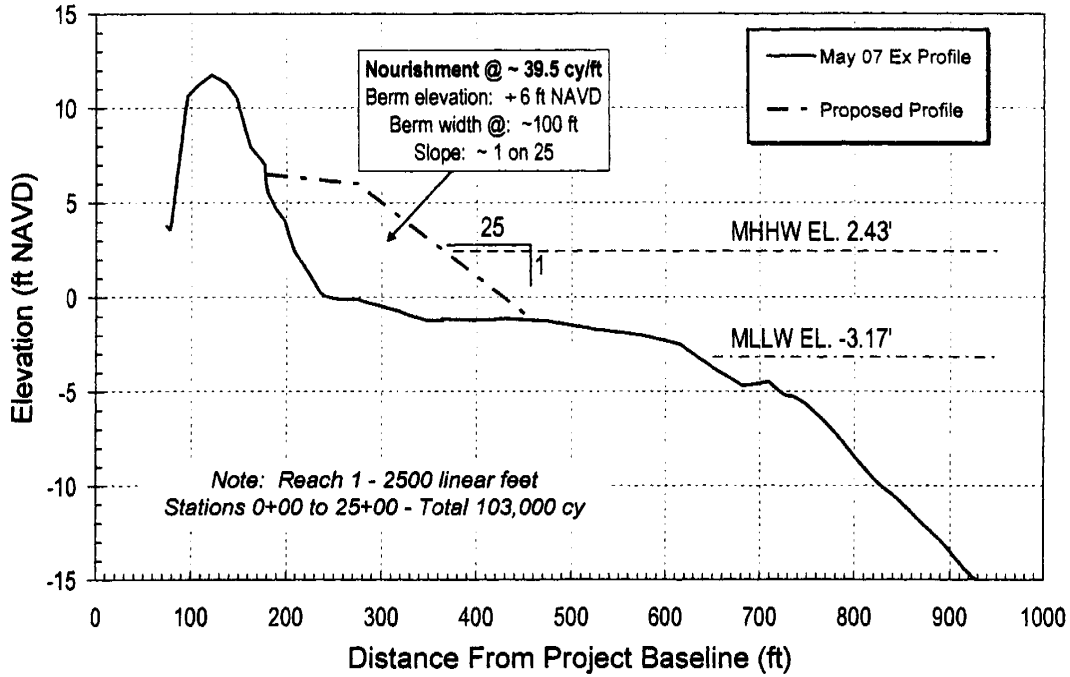
04

TMS#
 PROJECT # 2238 OF 16

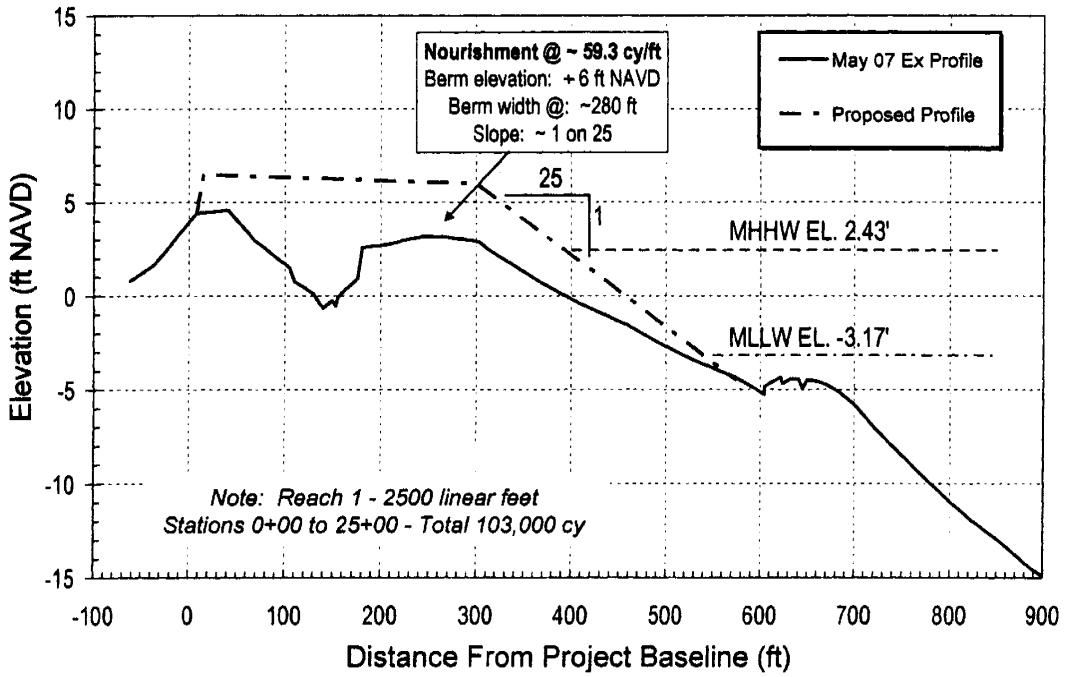


8/20/07

Arcadian Shores Station AS 10+00



Arcadian Shores Station AS 15+00



APPLICANT:
 SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

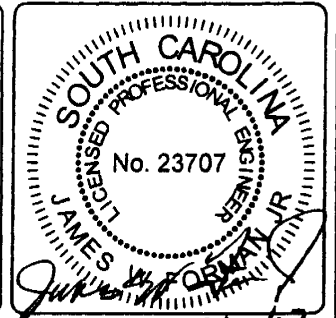
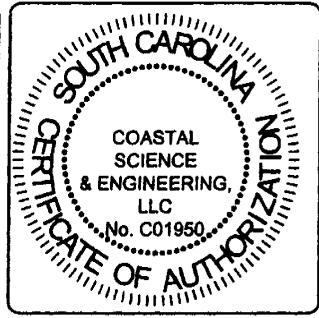
PO BOX 8056
 COLUMBIA, SC 29202

DRAWING TITLE:
 ENT
 ILES

Sheet 5 of 16

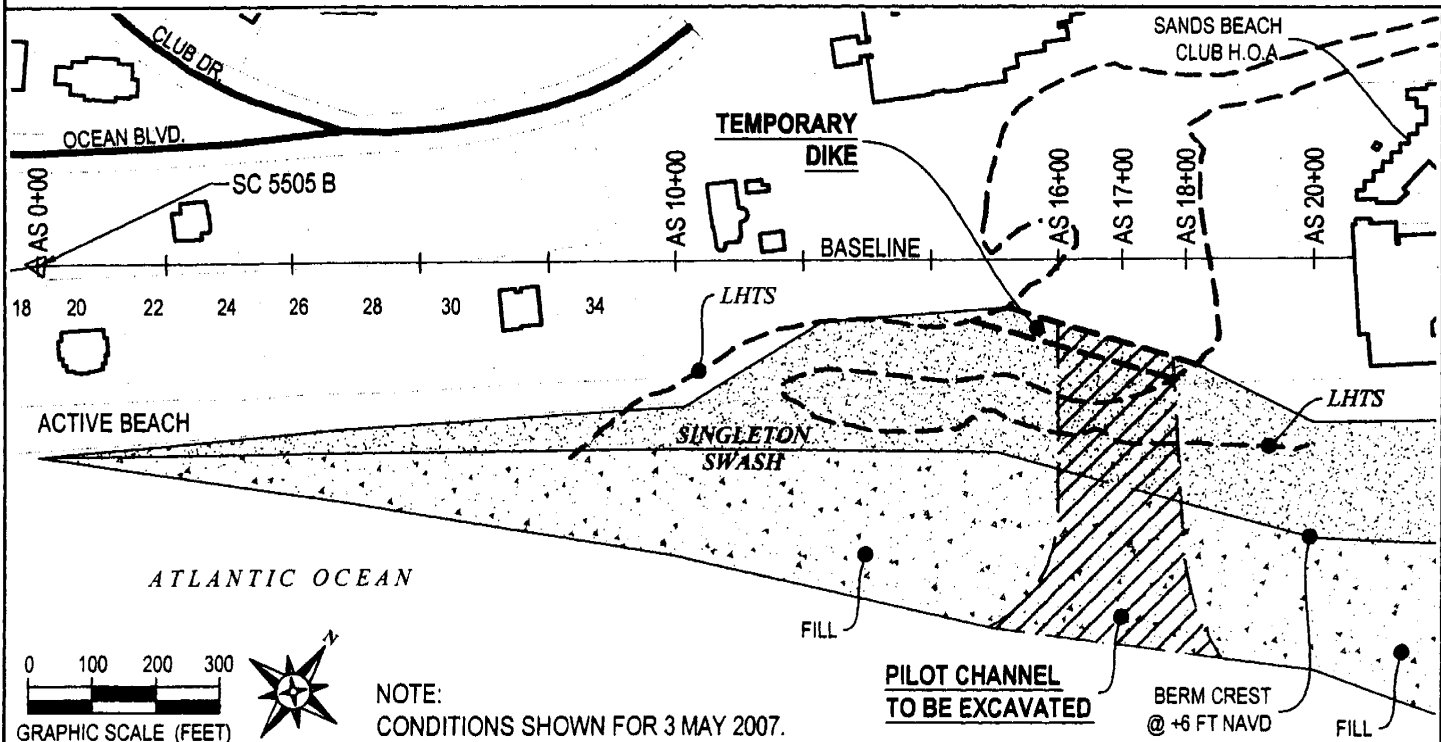
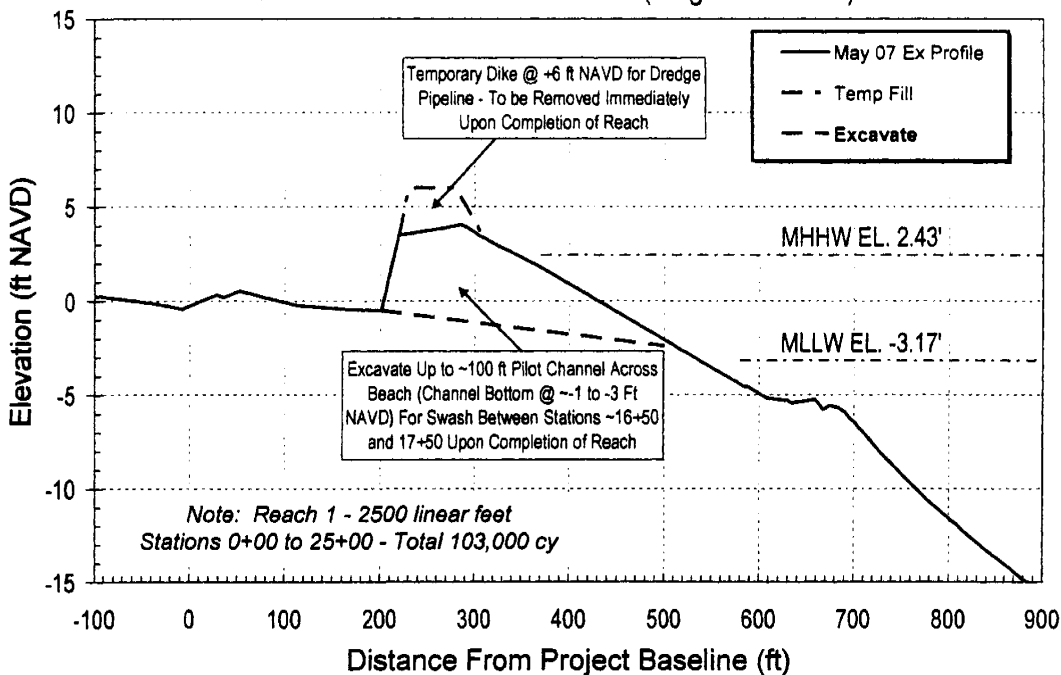
TMS#
 PROJECT# 2236 OF 16

05



2/20/07

Arcadian Shores Station AS 17+00 (Singleton Swash)

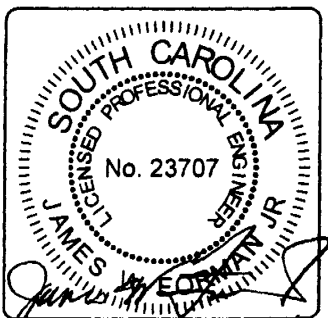
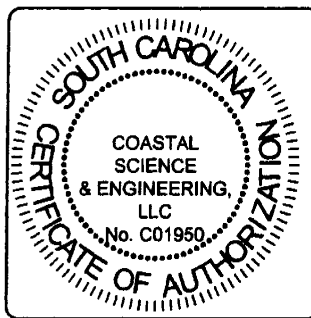


APPLICANT:
 SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

DRAWING TITLE:
 SH
 V

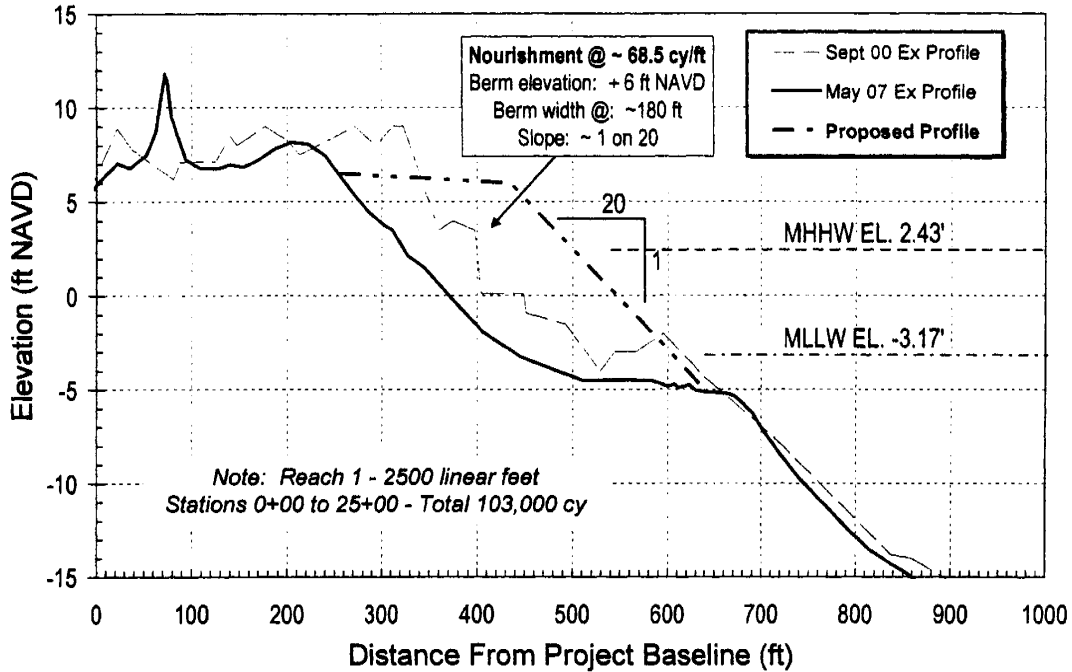
September 20, 2007
 PO BOX 8056
 COLUMBIA, SC 29202

Sheet 6 of 16
 TMS#
 PROJECT # 2236 OF 16
 06

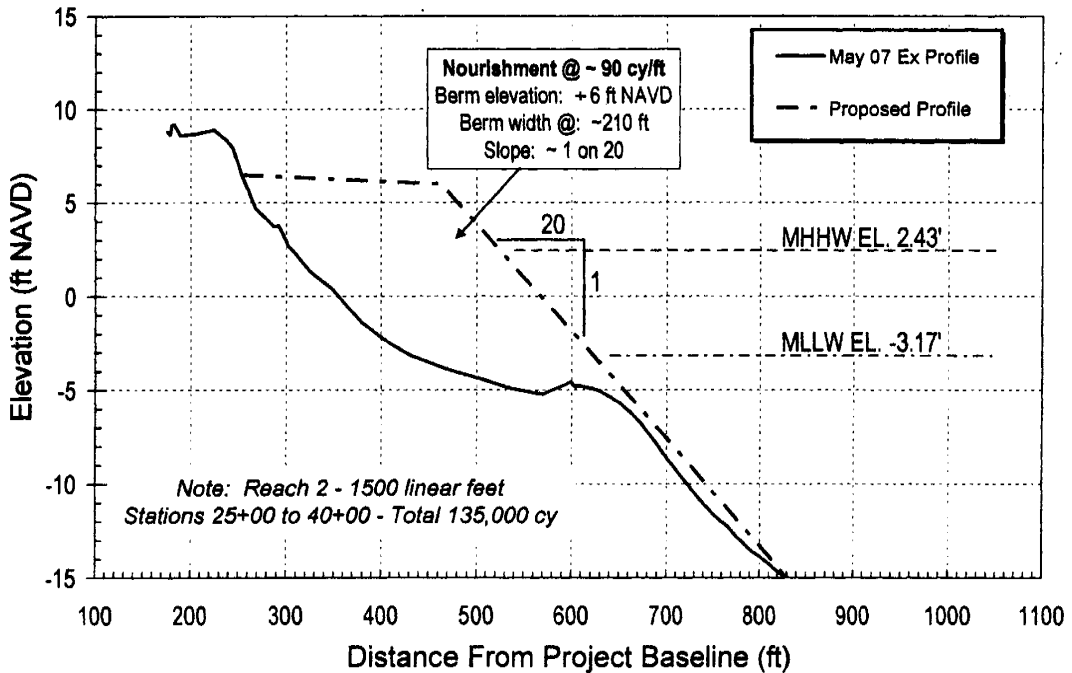


8/20/07

Arcadian Shores Station AS 20+00



Arcadian Shores Station AS 25+00



APPLICANT:

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

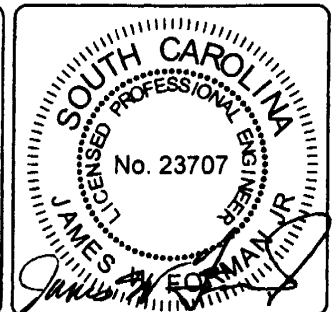
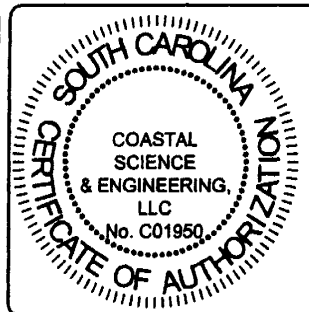
DRAWING TITLE:

MENT
 FILES

Sheet 7 of 16

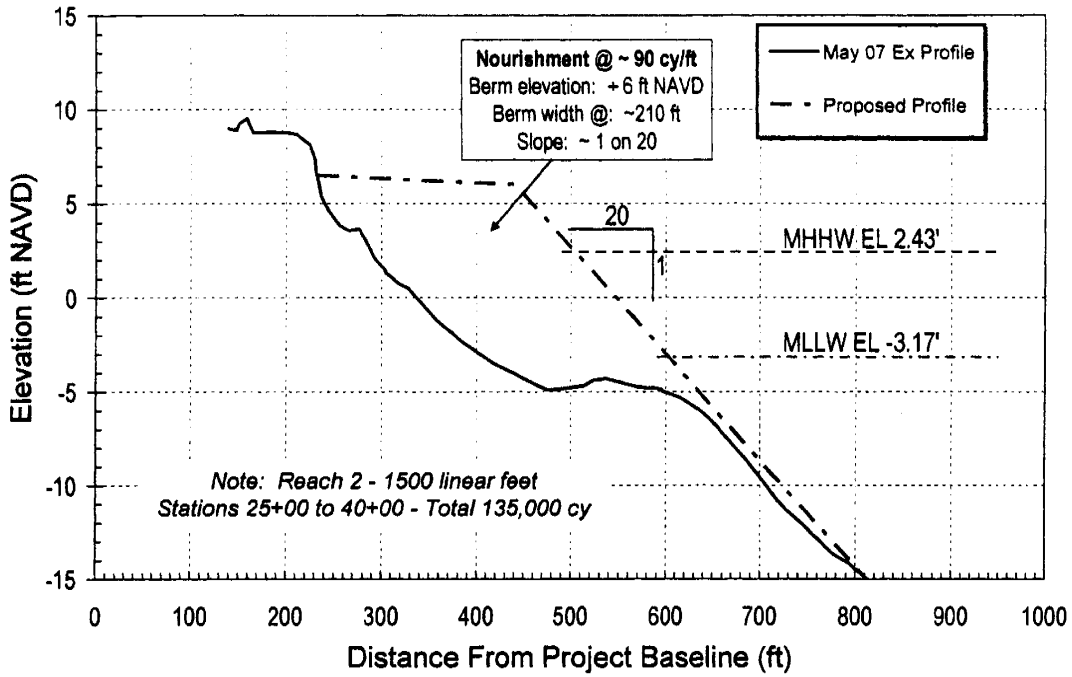
07

TMS#
 PROJECT # 2236 OF 16

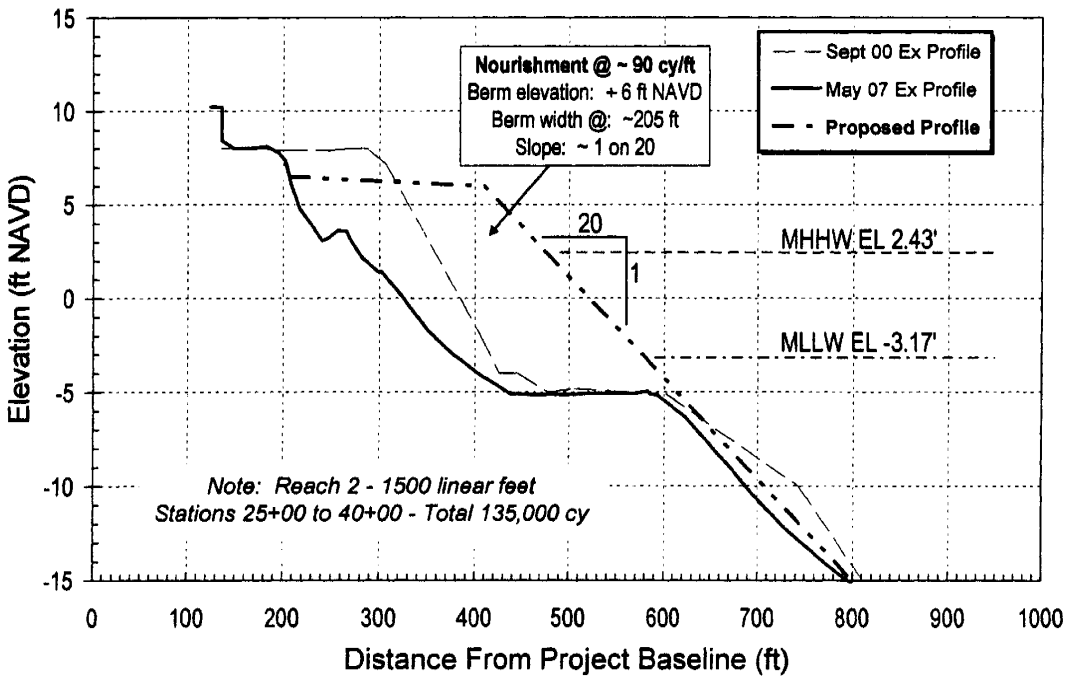


8/20/07

Arcadian Shores Station AS 30+00



Arcadian Shores Station AS 35+00



ADDICANT:

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

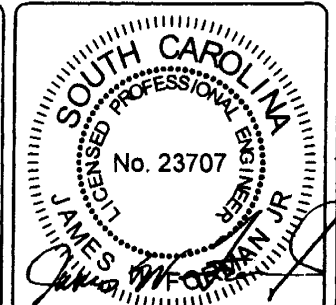
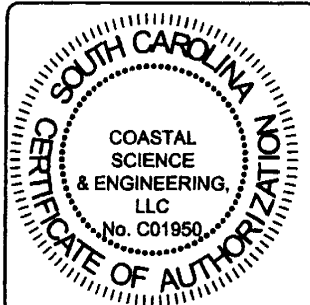
DRAWING TITLE:

MENT
FILES

Sheet 8 of 16

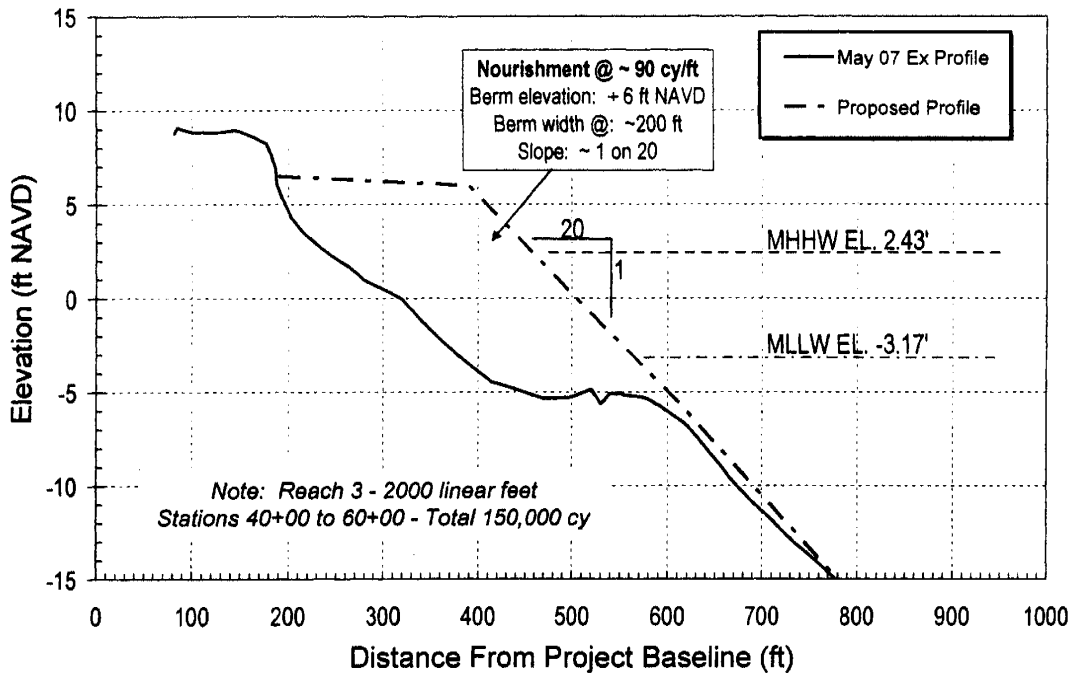
08

TMS#
PROJECT#: 2238 OF 18

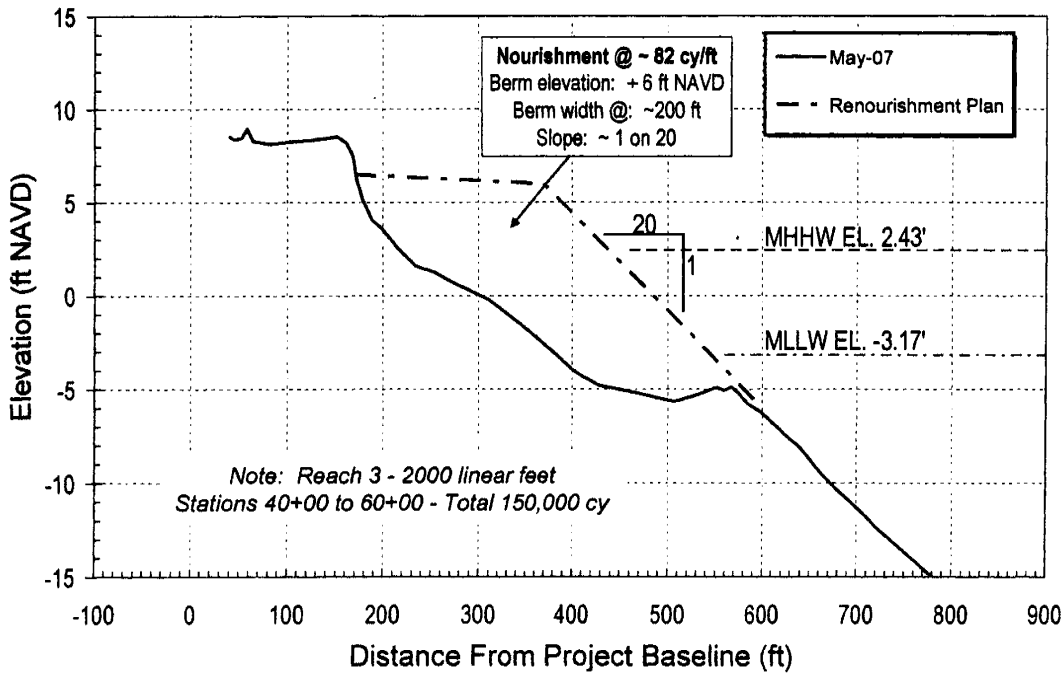


8/20/07

Arcadian Shores Station AS 40+00



Arcadian Shores Station AS 45+00



APPLICANT:

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

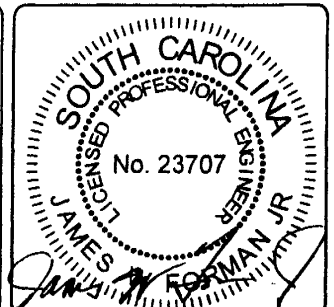
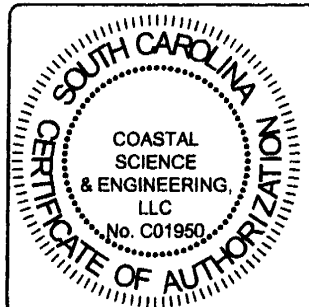
DRAWING TITLE:

MENT
 FILES

Sheet 9 of 16

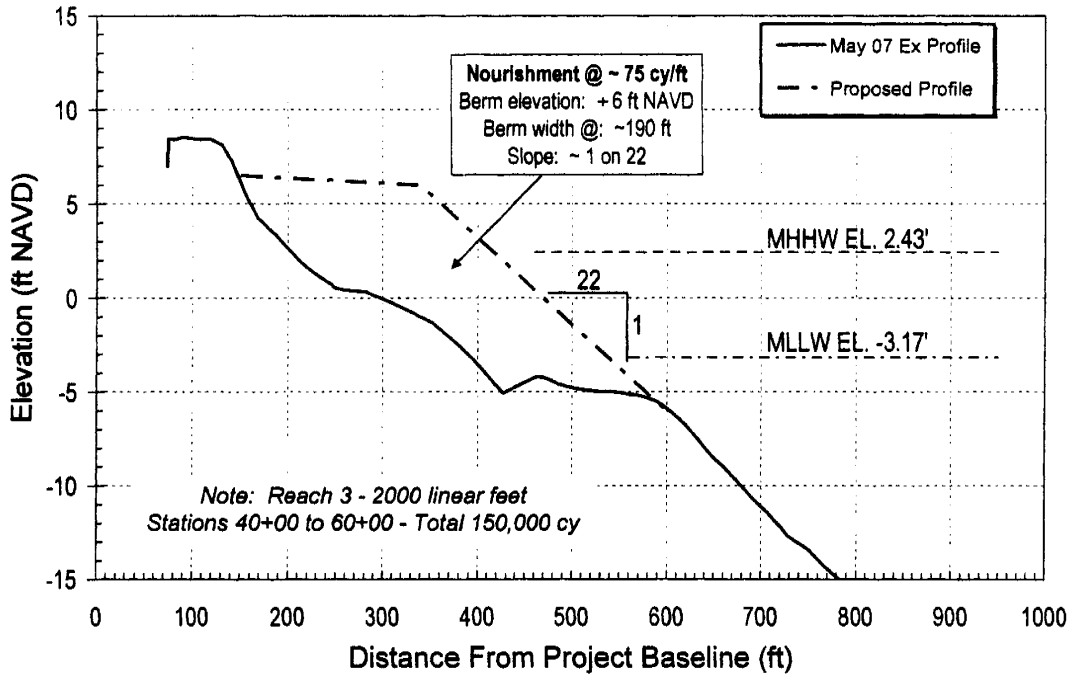
09

PROJECT# 2236 OF 18

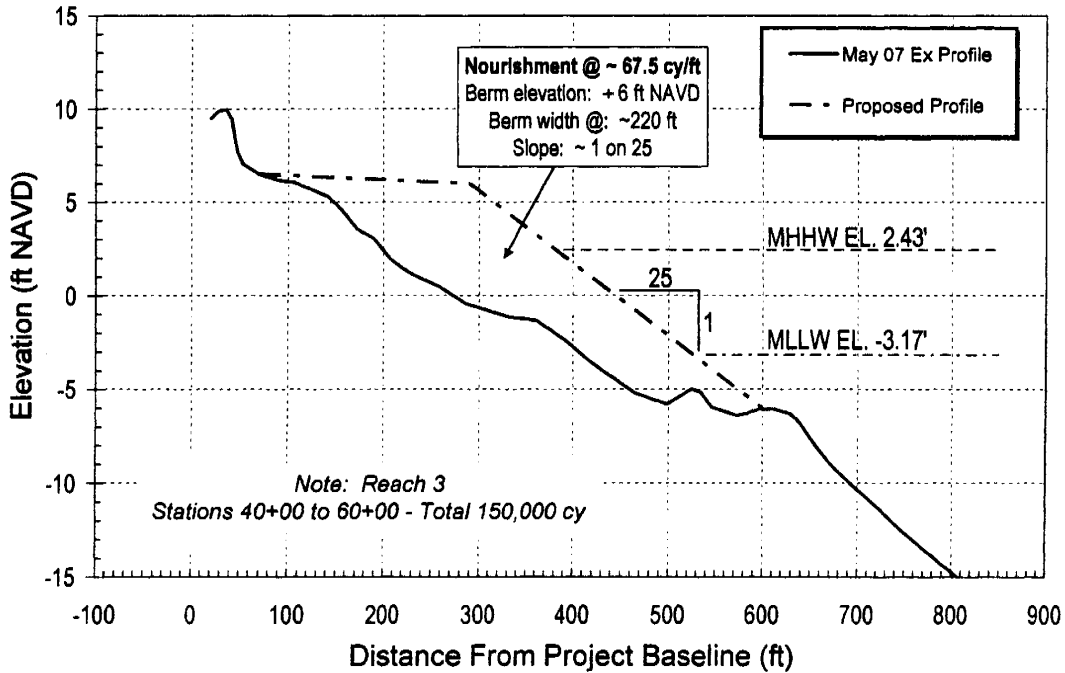


8/20/07

Arcadian Shores Station AS 50+00



Arcadian Shores Station AS 55+00



APPLICANT:

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

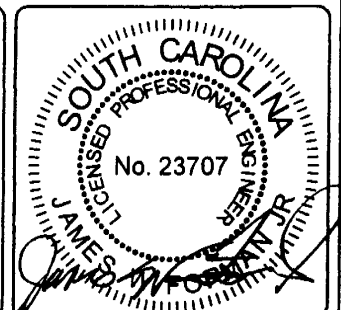
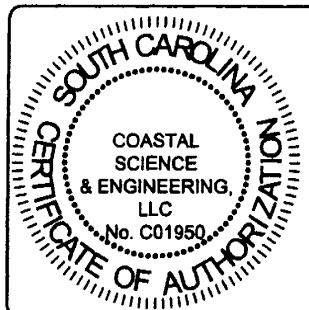
DRAWING TITLE:

ENT
 ILES

Sheet 10 of 16

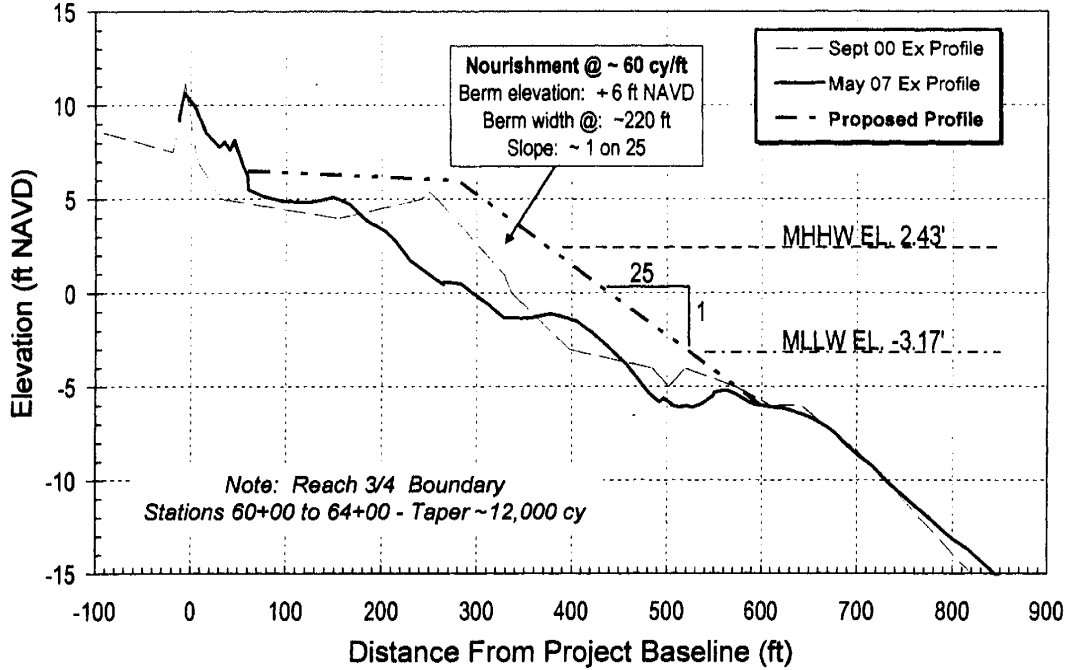
10

TWSW
 PROJECT # 2236 OF 16

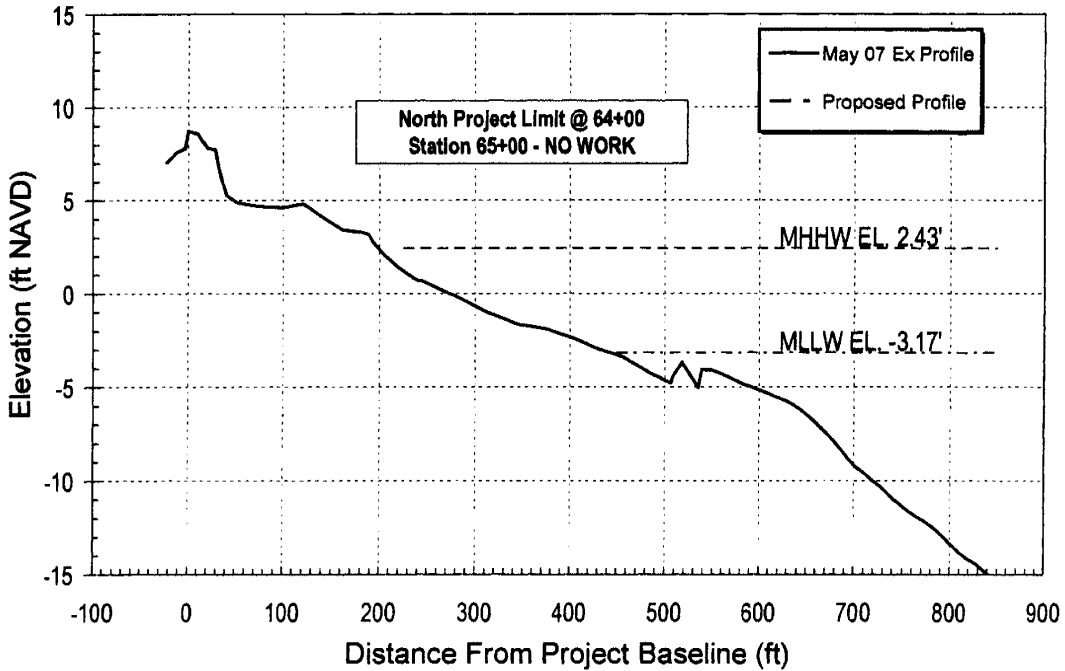


8/20/07

Arcadian Shores Station AS 60+00



Arcadian Shores Station AS 65+00



APPLICANT:

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

ENT
 ILES

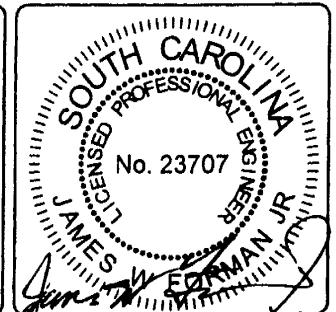
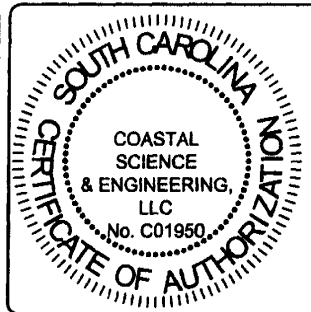
September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

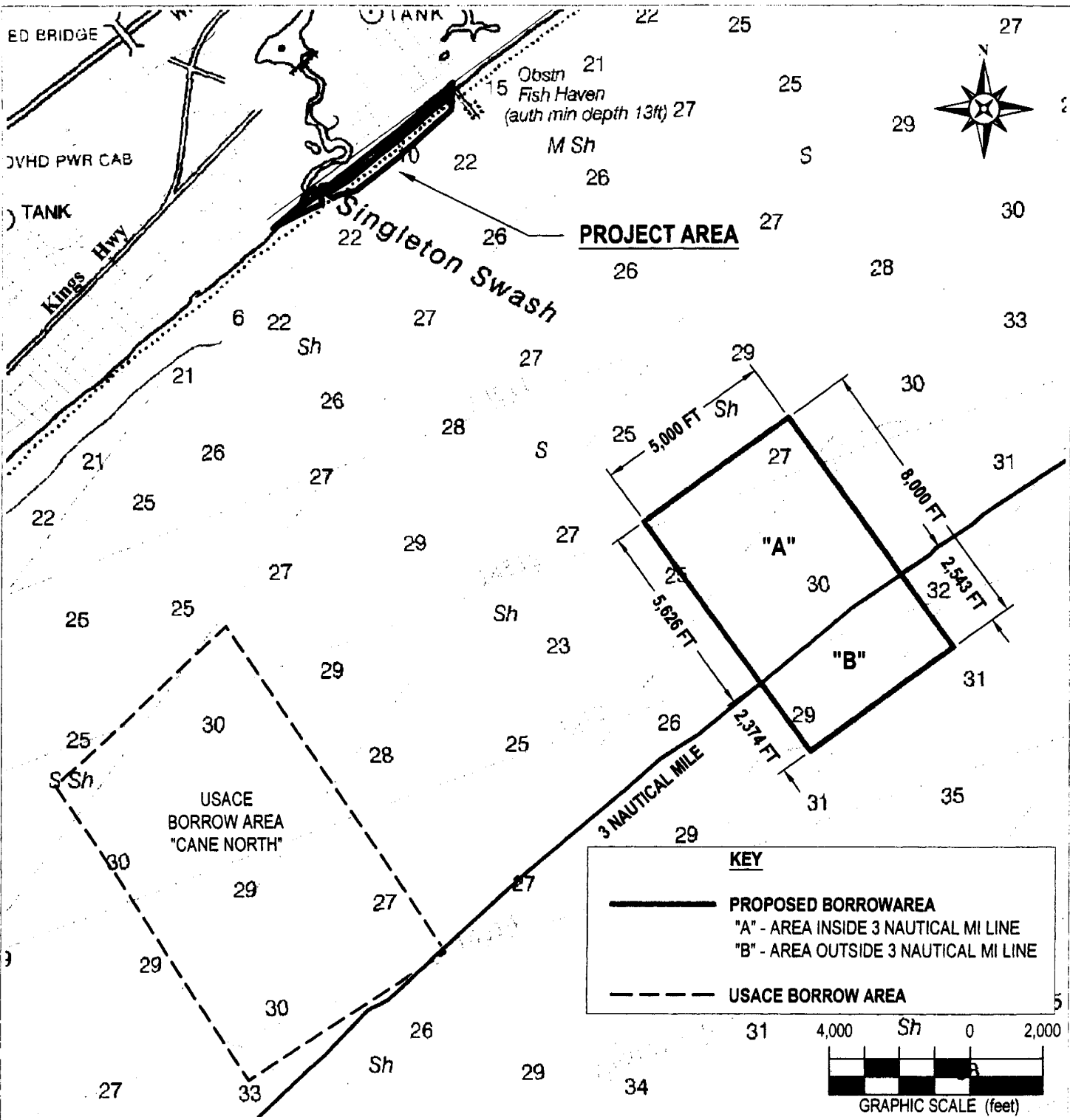
Sheet 11 of 16

11

TMS#	
PROJECT #	2236 OF 16



8/20/07



APPLICANT:
 SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

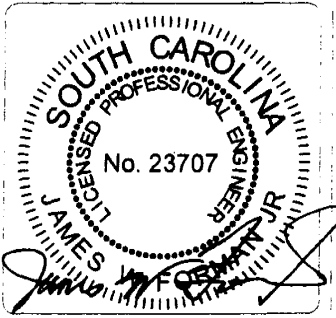
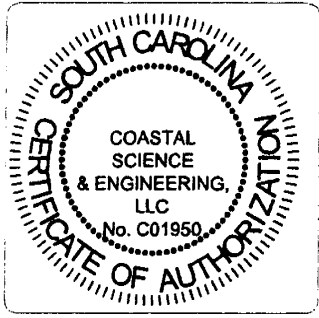
September 20, 2007
 PO BOX 8056
 COLUMBIA, SC 29202

DRAWING TITLE: ENT

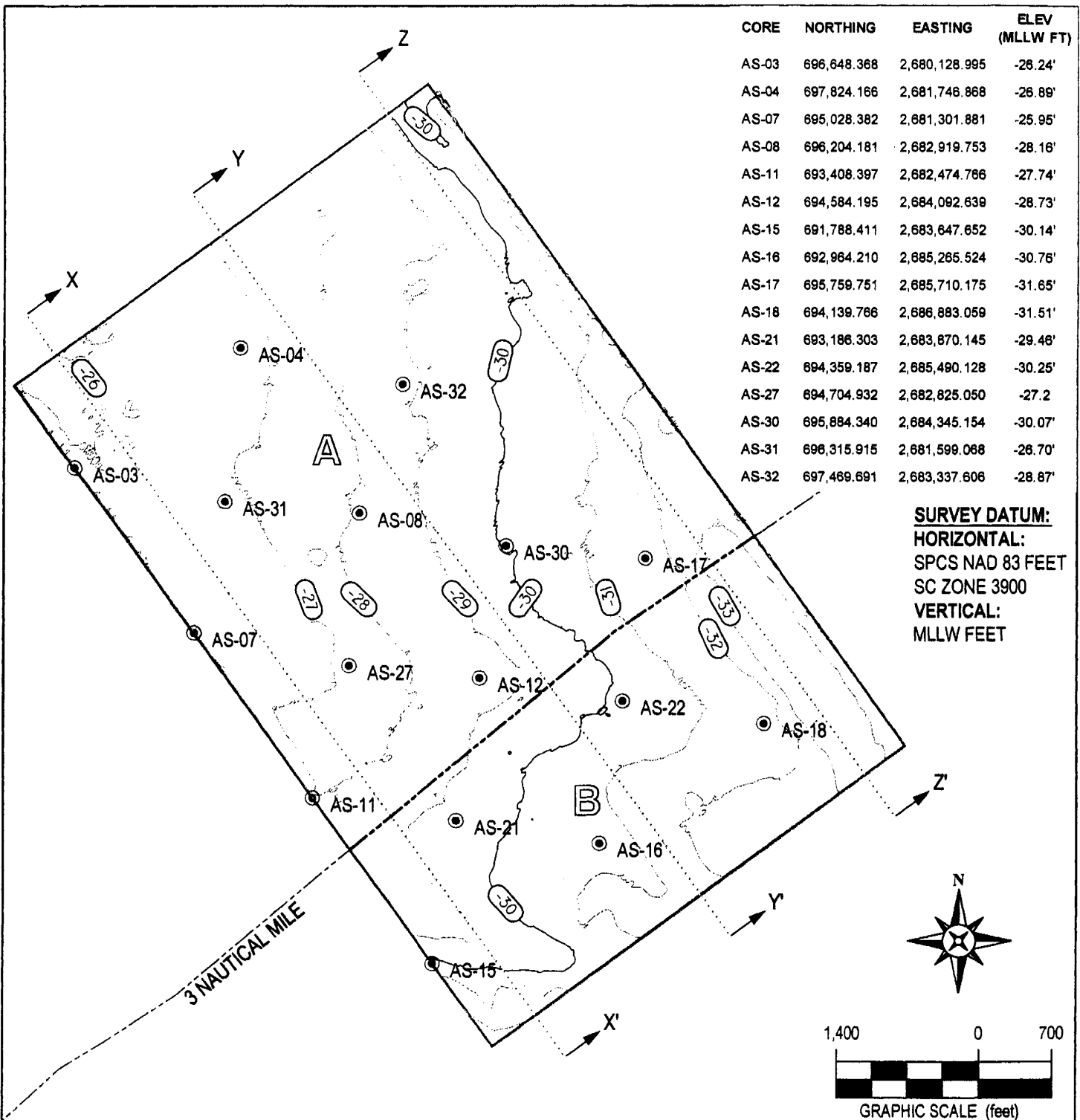
Sheet 12 of 16

PROJECT# 2236 OF 16

12

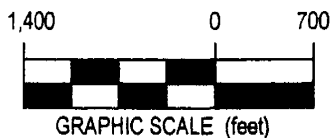


8/20/07



CORE	NORTHING	EASTING	ELEV (MLLW FT)
AS-03	696,648.368	2,680,128.995	-28.24'
AS-04	697,824.166	2,681,746.868	-28.89'
AS-07	695,028.382	2,681,301.881	-25.95'
AS-08	696,204.181	2,682,919.753	-28.16'
AS-11	693,408.397	2,682,474.766	-27.74'
AS-12	694,584.195	2,684,092.639	-28.73'
AS-15	691,788.411	2,683,647.652	-30.14'
AS-16	692,964.210	2,685,265.524	-30.76'
AS-17	695,759.751	2,685,710.175	-31.65'
AS-18	694,139.766	2,686,883.059	-31.51'
AS-21	693,186.303	2,683,870.145	-29.46'
AS-22	694,359.187	2,685,490.128	-30.25'
AS-27	694,704.932	2,682,825.050	-27.2
AS-30	695,884.340	2,684,345.154	-30.07'
AS-31	696,315.915	2,681,599.068	-28.70'
AS-32	697,469.691	2,683,337.606	-28.87'

SURVEY DATUM:
HORIZONTAL:
 SPCS NAD 83 FEET
 SC ZONE 3900
VERTICAL:
 MLLW FEET



APPLICANT:
 SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

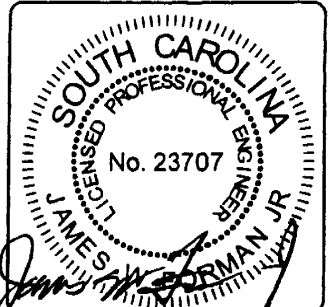
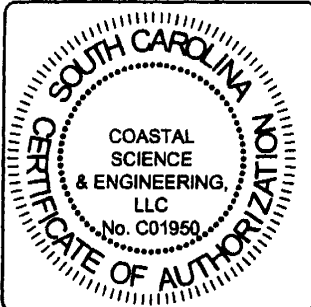
September 20, 2007
 PO BOX 8056
 COLUMBIA, SC 29202

DRAWING TITLE:
 V

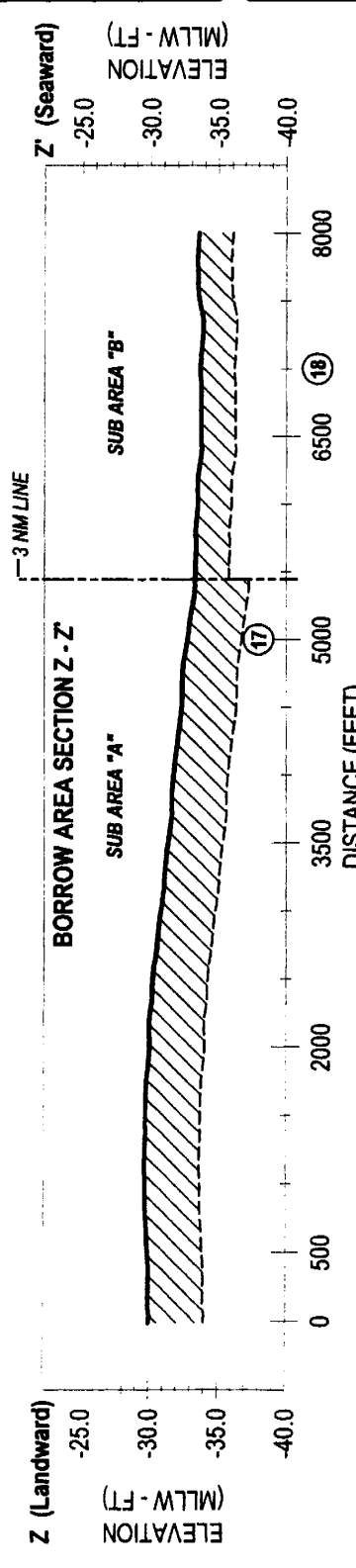
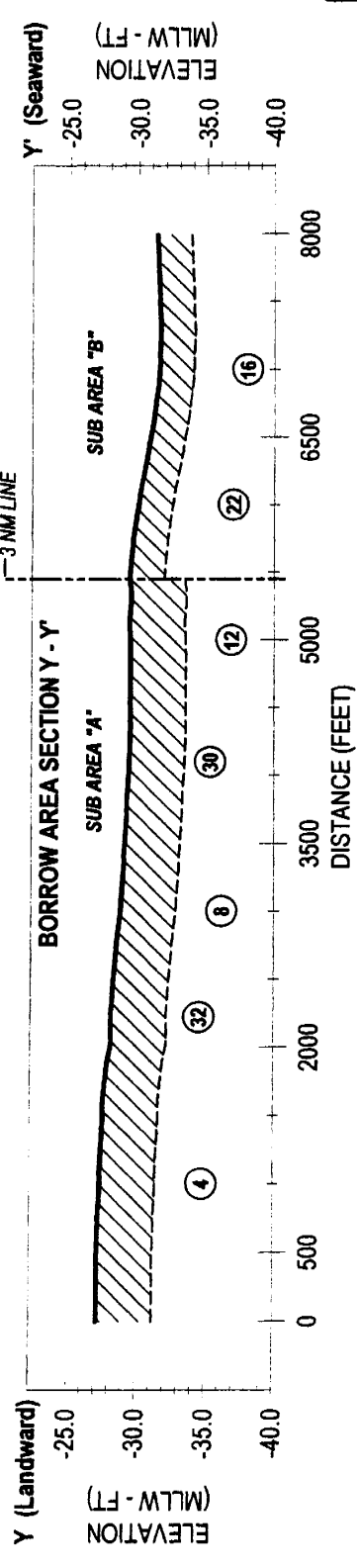
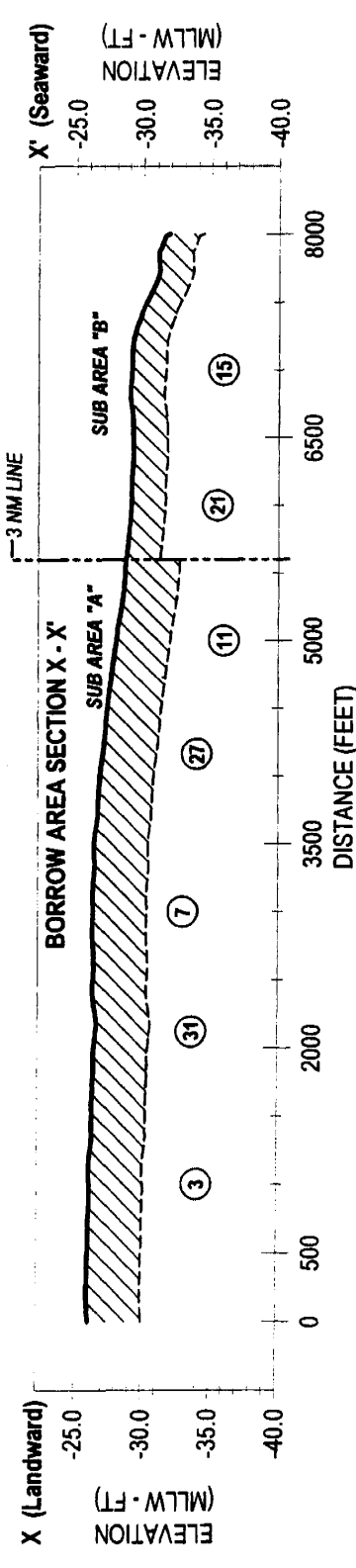
Sheet 13 of 16

PROJECT # 2238 OF 16

13

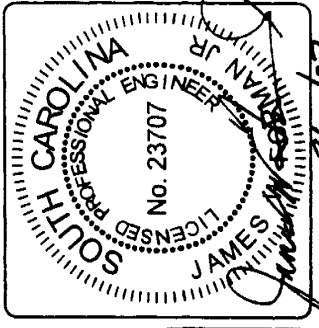
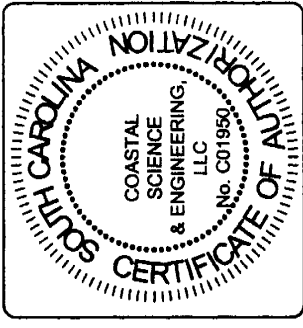


8/20/07



NOTE:
 PLANNED EXCAVATIONS IN SUB AREA "A" WILL BE RESTRICTED TO THE UPPER 4 FT OF SUBSTRATE.

SUB AREA "B" EXCAVATIONS WILL BE RESTRICTED TO THE UPPER 2.5 FT OF SUBSTRATE, SUBJECT TO APPROVAL BY THE U.S. MINERALS MANAGEMENT SERVICE.



SCALE:	AS SHOWN
DATE:	AUG 2007
TMS#	
PROJECT #	2236
SHEET #	14
OF: 16	

DRAWING TITLE:
BORROW AREA CROSS SECTIONS

ME & ENGINEERING
 1202

James J. ...
 8/20/07

Arcadian Shores, SC
Beach and Potential Borrow Area Sediment Characteristics - Summary
June 2007

Beach Samples				Grain Size Distributions			%Coarser Than 2 mm	% Mud	% Shell ¹	Sediment Description*	
Locality	ID	Sample Position	Stations	Locality	Mean (mm)	Std Dev. (mm)					Skewness
Beach	TD Comp	Toe of Dune	CSE 0000 - 2500		0.242	0.696	-0.232	0.2	0.0	2.1	FS,ws,asym
	BC Comp	Berm Crest			0.230	0.733	-0.548	0.7	0.0	12.0	FS,ws,cs
	BF Comp	Beach Face			0.288	0.750	-0.014	0.0	0.0	11.2	MS,ws,asym
	LTT Comp	Toe of Dune			0.418	0.543	-0.227	5.2	0.0	14.0	MS,ps,cs
	Beach Comp	All			0.286	0.623	-0.580	1.5	0.0	9.9	MS,mws,cs

Offshore Borrow Area	Sample ID	Limits (ft)	Water Dpth (ft-MLLW)	Confirmation Depth (ft-MLLW)	Grain Size Distributions			%Coarser than 2 mm	% Mud	% Shell	Sediment Description*
					Mean (mm)	Std Dev. (mm)	Skewness				
June 2007 Borings											
1	AB-03	0 - 2.8	-26.24	-29.04	0.213	0.632	-0.555	0.2	-	7.2	FS,mws,cs
2	AB-03	2.8 - 6.3	-29.04	-32.54	0.204	0.538	-0.766	1.5	-	11.4	FS,ms,cs
3	AB-04	0 - 3.3	-26.89	-30.19	0.297	0.558	-0.271	1.8	4.1	8.9	MS,ms,cs
4	AB-04	3.3 - 3.9	-30.19	-30.79	0.371	0.491	-0.027	5.8	-	16.7	MS,ps,cs
5	AB-04	3.9 - 5.7	-30.79	-32.59	0.393	0.481	-0.055	2.2	-	ND	MS,ps,cs
6	AB-07	0 - 2.3	-25.95	-28.25	0.217	0.574	-0.655	1.3	-	9.8	FS,ms,cs
7	AB-07	2.3 - 5.0	-28.25	-30.95	0.201	0.529	-0.753	0.5	-	10.0	FS,ms,cs
8	AB-08	0 - 2.6	-28.16	-30.76	0.316	0.592	-0.118	0.7	-	9.4	MS,ms,asym
9	AB-08	2.6 - 4.5	-30.76	-32.66	0.216	0.511	-0.573	1.0	-	13.4	FS,ms,cs
10	AB-08	4.5 - 5.7	-32.66	-33.86	0.427	0.476	-0.096	5.3	-	ND	MS,ps,asym
11	AB-11	0 - 3.1	-27.74	-30.84	0.287	0.608	-0.255	0.8	-	8.9	MS,mws,asym
12	AB-11	3.1 - 6.3	-30.84	-34.04	0.198	0.514	-0.618	1.2	-	8.6	FS,ms,cs
13	AB-12	0 - 2.6	-28.73	-31.33	0.421	0.577	0.081	0.7	-	5.6	MS,ms,asym
14	AB-12	2.6 - 5.8	-31.33	-34.53	0.404	0.467	0.083	2.3	-	16.6	MS,ps,asym
15	AB-15	0 - 1.0	-30.14	-31.14	0.285	0.533	-0.090	0.8	-	7.6	MS,ms,fs
16	AB-15	1.0 - 2.8	-31.14	-32.94	0.204	0.512	-0.546	0.4	7.7	9.9	FS,ms,cs
17	AB-15	2.8 - 5.1	-32.94	-35.24	0.328	0.521	-0.159	1.1	17.1	ND	MS,ms,cs
18	AB-16	0 - 2.6	-30.76	-33.36	0.510	0.594	0.511	0.7	-	5.0	CS,ms,fs
19	AB-16	2.6 - 4.8	-33.36	-35.56	0.287	0.480	-0.202	0.7	-	12.3	MS,ps,cs
20	AB-17	0 - 2.3	-31.65	-33.95	0.471	0.541	0.281	1.6	-	6.9	MS,ms,fs
21	AB-18	0 - 2.5	-31.51	-34.01	0.653	0.618	0.138	3.1	-	5.0	CS,ms,asym
22	AB-18	2.5 - 4.3	-34.01	-35.81	0.283	0.458	-0.324	2.0	-	13.2	FS,ps,cs
23	AB-21	0 - 1.9	-29.46	-31.36	0.445	0.586	0.061	0.9	1.4	5.8	MS,ms,asym
24	AB-21	1.9 - 4.7	-31.36	-34.16	0.181	0.530	-0.733	0.8	6.6	10.5	FS,ms,cs
25	AB-22	0 - 2.8	-30.25	-33.05	0.432	0.590	0.169	0.9	1.4	5.2	MS,ms,asym
26	AB-22	2.8 - 5.4	-33.05	-35.65	0.284	0.461	-0.246	1.9	-	20.0	MS,ps,cs
27	AB-27	0 - 2.2	-27.20	-29.40	0.336	0.577	-0.224	2.3	-	9.3	MS,ms,cs
28	AB-27	2.2 - 5.3	-29.40	-32.50	0.215	0.509	-0.645	1.1	-	10.6	FS,ms,cs
29	AB-30	0 - 1.8	-30.07	-31.87	0.493	0.599	0.188	0.8	1.0	6.7	MS,ms,fs
30	AB-30	1.8 - 4.2	-31.87	-34.27	0.292	0.483	-0.191	2.1	8.4	11.4	MS,ps,cs
31	AB-31	0 - 2.2	-26.70	-28.90	0.315	0.549	-0.159	1.0	9.9	12.0	MS,ms,asym
32	AB-31	2.2 - 5.4	-28.90	-32.10	0.244	0.498	-0.418	1.1	-	11.6	FS,ms,cs
33	AB-32	0 - 1.7	-28.87	-30.57	0.419	0.608	0.041	1.1	1.8	5.6	MS,ms,asym
34	AB-32	1.7 - 4.0	-30.57	-32.87	0.286	0.483	-0.194	1.8	-	13.2	MS,ps,cs
Averages**	Entire Borrow Area to Depths of Cores:				0.341	0.537	-0.168	1.5	1.8	9.2	MS,ms,cs
	Borrow Area Subsection A to 4 ft Depth of Cut:				0.325	0.546	-0.188	1.4	1.8	9.7	MS,ms,cs
	Borrow Area Subsection B to 2.5 ft Depth of Cut:				0.485	0.586	0.136	1.5	1.1	5.9	MS,ms,fs

¹ Calcium Carbonate percentages are based on beach samples taken at Myrtle Beach OCRM Stations 5300, 5320, 5350, 5410, 5430, 5445, 5460, 5470, and 5480.

*CS-Coarse Sand; MS-Medium Sand; FS-fine sand

m-moderately sorted; mw-moderately well sorted; w-well sorted; ps-poorly sorted

cs-coarse skewed; sc-strongly coarse skewed; fs-fine skewed; sym-symmetrical size distribution

**Averages are based on composite core length-averaged data

Note: Nearly all cores had only trace mud based on visual examination. The cores tested for mud had minor laser bedding (thin mud lenses) in portions of the core.

APPLICANT:

SAC# 2007-01983-3IV
Horry County I&R Division
Arcadian Shores Beach Nourishment
Horry County, South Carolina

DRAWING TITLE:

3

September 20, 2007

PO BOX 8056
COLUMBIA, SC 29202

Sheet 15 of 16

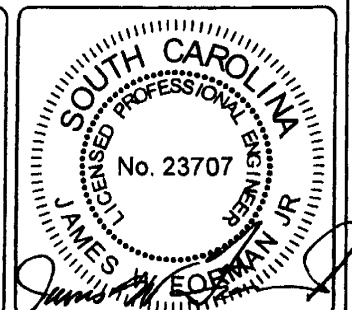
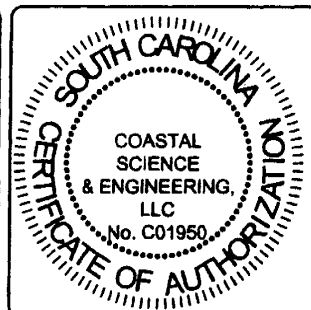
15

TMSW

PROJECT #

2236

OF 16



8/20/07

Arcadian Shores, SC

Sediment Compatibility

Overfill ratios are Based on June 2007 Beach Surface Samples and Proposed Borrow Area Cores.

		Mean Grain Size			Std.Dev			
Native Beach		(mm)	(phi)	(mm)	(phi)			
Beach Composite		0.286	1.806	0.623	0.683			
Offshore Borrow Area	Limits (feet)	Sediment	% Mud	Moment Measures		X	Y	Overfill Ratio
June 2007 Borings	Sample ID	Description*	sample interval	M _{cb}	σ _{cb}	(M _{cb} -M _{on})/σ _{on}	σ _{cb} /σ _{on}	(RA)
AS-03	AS-03a	FS,mws,c-s	-	2.231	0.662	0.62	0.97	2.69
"	AS-03b	FS,ms,sc-s	-	2.293	0.894	0.71	1.31	1.84
AS-04	AS-04a	MS,ms,c-s	4.1	1.751	0.842	-0.08	1.23	1.08
"	AS-04b	MS,ps,c-s	-	1.431	1.026	-0.55	1.50	1.06
"	AS-04c	MS,ps,c-s	-	1.347	1.026	-0.67	1.50	1.05
AS-07	AS-07a	FS,ms,sc-s	-	2.204	0.801	0.58	1.17	1.78
"	AS-07b	FS,ms,sc-s	-	2.315	0.919	0.75	1.35	1.86
AS-08	AS-08a	MS,ms,sym	-	1.662	0.756	-0.21	1.11	1.01
"	AS-08b	FS,ms,sc-s	-	2.211	0.969	0.59	1.42	1.59
"	AS-08c	MS,ps,sym	-	1.228	1.071	-0.85	1.57	1.04
AS-11	AS-11a	MS,mws,sym	-	1.801	0.723	-0.01	1.06	1.03
"	AS-11b	FS,ms,sc-s	-	2.338	0.960	0.78	1.41	1.85
AS-12	AS-12a	MS,ms,sym	-	1.248	0.793	-0.82	1.16	1.00
"	AS-12b	MS,ps,sym	-	1.308	1.099	-0.73	1.61	1.06
AS-15	AS-15a	MS,ms,fs	-	1.821	0.908	0.02	1.33	1.15
"	AS-15b	FS,ms,sc-s	7.7	2.293	0.966	0.71	1.41	1.74
"	AS-15c	MS,ms,c-s	17.1	1.630	0.941	-0.26	1.38	1.08
AS-16	AS-16a	CS,ms,fs	-	0.971	0.751	-1.22	1.10	1.00
"	AS-16b	MS,ps,c-s	-	1.905	1.059	0.15	1.55	1.28
AS-17	AS-17a	MS,ms,fs	-	1.086	0.886	-1.05	1.30	1.00
AS-18	AS-18a	CS,ms,sym	-	0.615	0.684	-1.74	1.02	1.00
"	AS-18b	FS,ps,sc-s	-	1.983	1.133	0.26	1.66	1.36
AS-21	AS-21a	MS,ms,sym	1.4	1.168	0.771	-0.93	1.13	1.00
"	AS-21b	FS,ms,sc-s	6.6	2.388	0.916	0.85	1.34	2.09
AS-22	AS-22a	MS,ms,sym	1.4	1.146	0.761	-0.97	1.12	1.00
"	AS-22b	MS,ps,c-s	-	1.816	1.117	0.01	1.64	1.26
AS-27	AS-27a	MS,ms,c-s	-	1.573	0.793	-0.34	1.16	1.01
"	AS-27b	FS,ms,sc-s	-	2.218	0.974	0.60	1.43	1.60
AS-30	AS-30a	MS,ms,fs	1.0	1.142	0.739	-0.97	1.08	1.00
"	AS-30b	MS,ps,c-s	8.4	1.776	1.050	-0.04	1.54	1.20
AS-31	AS-31a	MS,ms,sym	9.9	1.667	0.865	-0.20	1.27	1.06
"	AS-31b	FS,ms,sc-s	-	2.035	1.003	0.34	1.47	1.36
AS-32	AS-32a	MS,ms,sym	1.6	1.255	0.723	-0.81	1.06	1.00
"	AS-32b	MS,ps,c-s	-	1.756	1.050	-0.07	1.54	1.19
Composite	Entire Borrow Area	MS,ms,c-s	1.6	1.551	0.894	-0.37	1.31	1.26
	Subarea "A"	MS,ms,c-s	1.6	1.620	0.873	-0.27	1.28	1.23
	Subarea "B"	MS,ms,fs	1.1	1.043	0.772	-1.12	1.13	1.10

SAC# 2007-01983-3IV
 Horry County I&R Division
 Arcadian Shores Beach Nourishment
 Horry County, South Carolina

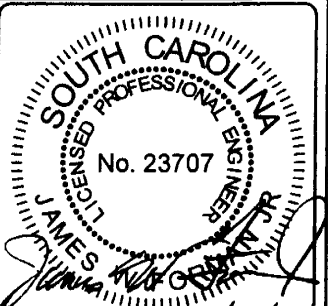
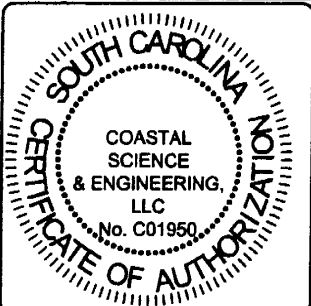
September 20, 2007

PO BOX 8056
 COLUMBIA, SC 29202

Sheet 16 of 16

TMS#	-
PROJECT#	2238

16



Handwritten signature and date: 8/20/07