

**REVISED**  
**JOINT**  
**PUBLIC NOTICE**

**CHARLESTON DISTRICT, CORPS OF ENGINEERS**  
**69A Hagood Avenue**  
**Charleston, South Carolina 29403-5107**  
**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 #2003-1W-309-P(REVISED)

24 SEPTEMBER 2004

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.) a revised application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

**DEBORDIEU COLONY COMMUNITY ASSOCIATION, INC.**  
**c/o APPLIED TECHNOLOGY & MANAGEMENT, INC.**  
**260 W. COLEMAN BOULEVARD, SUITE A**  
**MT. PLEASANT, SOUTH CAROLINA 29464**

for a permit to perform beach nourishment using beach quality sand obtained from up to three offshore borrow areas and placing this material adjacent to and in waters of the

**ATLANTIC OCEAN**

at a location along the shoreline between OCRM monuments **4156B and 4123B** in DeBordieu Colony, approximately 5 miles north of the City of Georgetown, Georgetown County, South Carolina (Latitude 33.3591°, Longitude 79.1506°)

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, 25 OCTOBER 2004**

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

The proposed work consists of performing dredging in up to three offshore borrow areas (1A, 1B and 2A) located between 3 and 3.9 miles offshore to remove approximately 600,000 cubic yards of beach quality sand and to place this material on 66.3 acres below MHW along the shoreline between OCRM monuments 4156B and 4123B (approximately 760 feet south of

the southern DeBordieu Colony property line) as shown on drawing sheets 2, 3 and 4 of 9. The purpose of the project according to the applicant is to offset ongoing erosion, protect existing upland infrastructure, and to reestablish a high tide beach along the shoreline of DeBordieu Colony.

### **Project Description:**

The DeBordieu Colony Community Association (DCCA) is requesting a modification to Permit Application P/N# 2003-1W-309-P, originally submitted in September 2003.

### **The original 2003 project**

The initially proposed project advertised on public notice on October 10, 2003, included excavation of ~ 200,000 cubic yards of beach quality sand from the inside edge of the North Inlet ebb shoal, and placement along the severely eroded DCCA shoreline between OCRM Monuments 4140 and 4125C. The goal of this interim project was to protect the upland development and bulkhead and reestablish a minimal high tide beach along DCCA beach for an estimated period of 3 to 5 years (assuming typical conditions) while DCCA pursued longer-term offshore sand resources and potential structural solutions.

During the review process, issues were raised regarding potential impacts of the initially proposed nearshore borrow area at North Inlet, to which the applicant provided engineering responses. However, continued concerns by the agencies led the applicant to make a decision to investigate the potential for alternative, offshore borrow area(s).

### **The revised 2004 project**

DCCA has completed initial investigations of the area offshore of Debidue Island, and targeted offshore areas with a potential to provide sufficient sand for a larger scale beach nourishment project (~600,000 cy), due to additional costs associated with offshore dredging and the resulting ability to increase the renourishment interval. The purpose of the project remains the same as the initial application – to offset ongoing erosion, protect existing upland infrastructure, and reestablish a dry high-tide beach along the DCCA shoreline.

### **Beach Fill Design**

The revised project includes the placement of up to 600,000 cy of sand between OCRM Stations 4156B and 4123B (approximately 760 ft south of the southern DCCA property line). Refer to the revised permit drawing sheets 2, 3 and 4 of 9 for fill placement plan views. The fill will average 83.7 cy/ft along the shoreline with long tapers at the northern and southern ends of the project. This is an average of 23.5 cy/ft more than the initial application.

The selected design includes a berm at +7 ft NGVD based on the existing 'healthy' berm on the island and tapered ends to reduce the 'bulge' effect in the shoreline which can accelerate losses. The beach design utilizes an assumed construction slope of 1V:15H from the berm crest to the nearshore intersection with the existing profile. Actual slopes and berm extensions will vary depending on the field methods and on-site engineering modifications. Refer to the revised permit drawing sheets 5 and 6 of 9 for typical fill template cross-sections.

Table 1 below presents the details of the proposed fill design. The average increase in beach width at equilibrium is 109 ft, as compared to 51 ft as previously submitted. It is noted that the estimated maximum fill placement quantity will be 600,000 cy, with final quantities to be determined based on economics and need at the time of construction.

**Table 1.**

Station		Berm		
Monument	Beach Fill Baseline Station  (ft)	Dry beach width - +7 to EQ MHW  (ft)	Placed Unit Beachfill Quantity  cy/ft	Total Beach Fill Volume  cy
4156B	0	67.0	0.0	
				40,365
4150B	1,484	122.2	54.4	
				65,781
4146B	2,486	132.9	76.9	
				41,980
4144B	3,038	114.8	75.2	
				56,732
4140B	3,865	102.4	62.0	
				68,265
4136B	4,743	128.0	93.5	
				65,237
4130B	5,397	106.0	106.0	
				54,275
4129B	5,959	83.9	87.2	
				75,836
4128X	6,674	108.0	125.0	
				30,025
4127B	6,902	181.2	138.4	
				51,164
4125B	7,351	130.1	89.5	
				22,420
4125C	7,667	99.4	52.4	
				13,077
4124B	7,940	95.6	43.4	
				10,590
4123B	8,428	55.0	0.0	
Average values		109	83.7	
<b>FILL VOLUME TOTAL</b>				<b>595,746</b>

### **Borrow Area(s)**

The proposed project involves the excavation of up to 600,000 cubic yards of beach-quality sand from one or a combination of three (3) offshore borrow areas, conveyance to the beach via pipeline, and placement along the intertidal and subtidal beach. The proposed excavation will be completed using a large, oceangoing hydraulic dredge. The variation in sediment thickness will permit a hopper or cutterhead dredge to remove the sand and convey it to the fill area along the shoreline. A booster pump will likely be required to convey the sand from the borrow area to the fill placement area if a cutterhead is used, while a shore transfer station will be utilized for a hopper dredge operation. Final dredging equipment will depend on the final design of the borrow area(s) to be utilized, and availability of dredging equipment. The beachfill construction template will be shaped by tracked, land-based equipment.

Previous research work by the Minerals Management Service (MMS), US Geological Survey (USGS), Coastal Carolina University (CCU), SCDNR, and the US Army Corps of Engineers (USACE) have included reconnaissance level investigations of the offshore areas extending from the North Carolina/South Carolina state line south to North Inlet. These studies, dating from 1994 to the present, have focused on sand resources and benthic community mapping of the Grand Strand south to Pawleys Island, where current or potential Federal beach fill projects are located.

ATM reviewed the available information and compiled a base map of the offshore area of Debordieu and North Islands to a distance of approximately 5 miles offshore. The base map included the following data:

- NOS bathymetry data (various dates, mainly 1964-1980)
- Representative core boring locations from MMS reports
- Approximate locations of potential borrow areas for the Pawleys Island project Scaled in from MMS reports and USACE public notice drawings
- USGS sand thickness map, based on recent USGS seismic surveys of the region

Three potential borrow areas offshore of Debidue Island were identified by ATM using a USGS isopach map and National Ocean Survey bathymetry. Sheet 9 of 9 of the modified permit drawings denotes the target areas in which the USGS isopach data, derived from recent USGS seismic surveys, indicates sediment layer thickness sufficient to supply an adequate volume of sand for the beach project. Based on field results, all target areas may not be investigated and it is noted that only a portion of one or more of the target borrow areas identified will be utilized for the currently proposed project, with future renourishment material available from the balance of the areas. Field investigations of these target sites include seismic, side-scan, and magnetometer surveys as well as vibracore collection. This compiled data is being analyzed to identify specific areas that contain a sufficient volume of sand that is compatible with the native beach.

ATM conducted a seismic survey of Area 1 on August 31, 2004, to verify the locations and thickness of borrow material. On September 10, 2004, 8 vibracores were collected by Athena Technologies, Inc. Two are located within Area 1A, three within Area 1B, and one within Area 2A. The locations of the vibracores are indicated on Sheets 7 and 9 of the permit

drawings. The sediment was visually classified and is currently being analyzed to determine the grain size distribution including the silt and clay content. All suitable material within the proposed borrow areas was visually classified as gray to tan, fine to medium sand with less than 5-10 percent fine material.

The proposed borrow area(s) are depicted on Sheets 7, 8 and 9 of the revised permit drawings. The proposed depth of excavation for these areas varies, as the offshore shoal features are characterized by a surficial layer of fine to medium sands with varied shell content. In most cases this sandy layer lies over a shelly, mud layer of unsuitable material. On average, 3 to 10 ft of sandy material would be removed from within the limits of the proposed borrow area(s). The seismic data was utilized to estimate maximum available borrow area volumes as shown below:

Target Section	Minimum Distance Offshore	Acreage	Estimated Volume
Area 1A	3.0 miles	149.3	1.16 MCY
Area 1B	3.2 miles	241.6	2.40 MCY
Area 2A	3.9 miles	178.0	1.72 MCY

Representative cross sections of the borrow area(s) are presented in Sheet 8 of 9 of the revised permit drawings. A seismic survey of Area 2A and additional vibracore data collection within all proposed sites are currently being conducted.

### Impacts to U.S. Waters

The proposed borrow area(s) as depicted in the revised permit drawings are described above. This area is the maximum proposed for hydraulic dredging and represents sufficient beach fill material for several additional renourishments in the future not included in this application. Only the area required to produce the fill necessary for the currently requested project would be disturbed at this time. It is noted that the request to seek alternate, offshore borrow areas was suggested by third parties, in the written public comments and OCRM public hearing held in December 2003. Therefore, any concerns associated with the previous nearshore borrow area are inherently addressed by the applicant's relocation of the borrow areas to the offshore zone. Placement of larger volumes on the beach is mitigated by the extended renourishment interval afforded by the modified project (3-5 years for the initial project versus an estimated 8-10+ years assuming typical conditions for the revised project). It is expected that the beach fill toe will extend to an average depth of -11 ft NGVD during construction and will cover approximately 66.3 acres of submerged lands (between MHW and the construction toe of fill). The area to be buried by the beach fill is comprised of typical sandy littoral materials.

Borrow area location and volumes dictate construction with a large, ocean going hydraulic cutter head or hopper dredge. Diking and berms will be employed as necessary during beach fill construction to maximize fill retention and to control turbidity levels in local waters. At this time, it is anticipated that the project will be constructed outside the normal sea

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turtle nesting season and that specific monitoring conditions will be incorporated into the project permit to address these and any other threatened/endangered species concerns.

**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  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107.**

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 66.3 acres of estuarine substrates and emergent wetlands below MHW 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 revised project is likely to adversely affect the loggerhead sea turtle, (*Caretta caretta*), sea beach amaranth (*Amaranthus pumulis*) and the piping plover, (*Charadrius melodus*) and/or designated critical habitat provided . This public notice serves as a request to the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service to review the revised permit plans, the biological opinion prepared by the US Fish and Wildlife Service (FWS Log No. 4-6-04-F-027) dated March 29, 2004, and under formal consultation on these species and/or critical habitat which would be affected, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), please offer recommendations.

The District Engineer has 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

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listed as being eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

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.

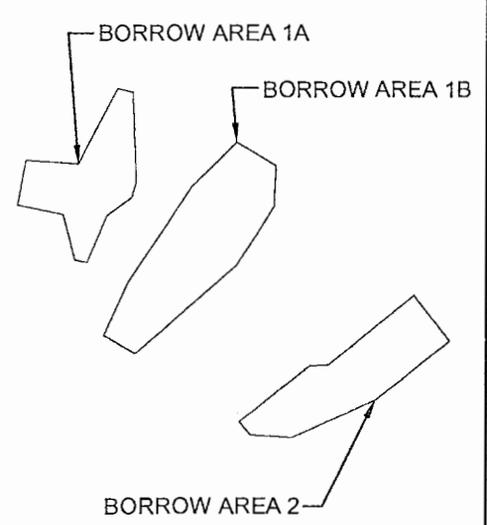
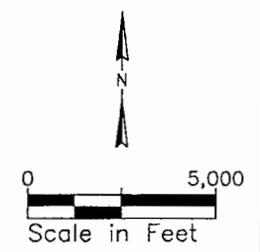
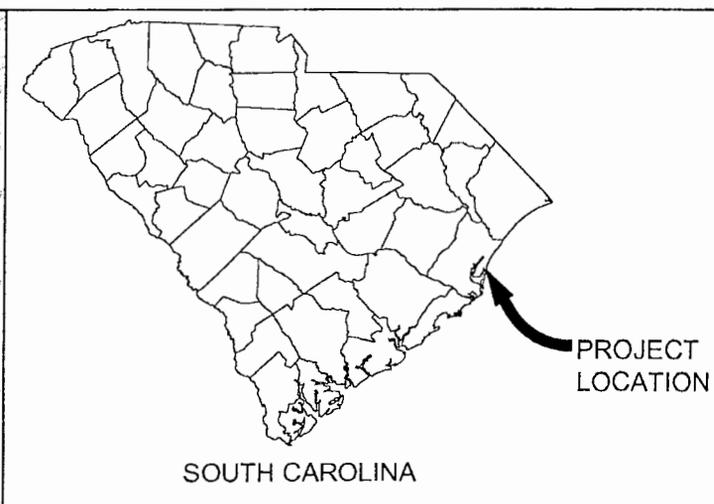
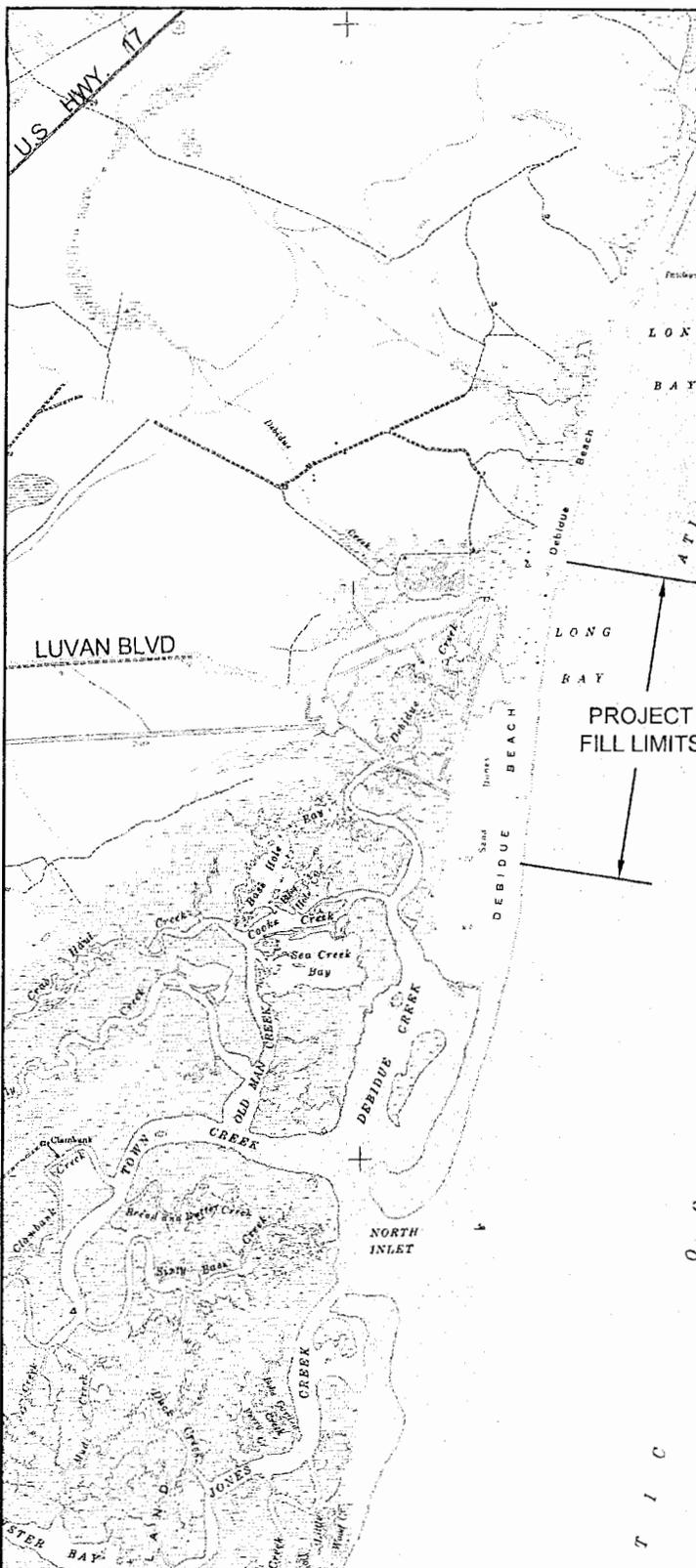
The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine 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 me at 843-329-8044 or toll free at 1-866-329-8187.



Debra W. King  
Project Manager  
Regulatory Division  
U.S. Army Corps of Engineers

04-895 Permit-Mod Location Map.dwg Sheet 1 9/20/04

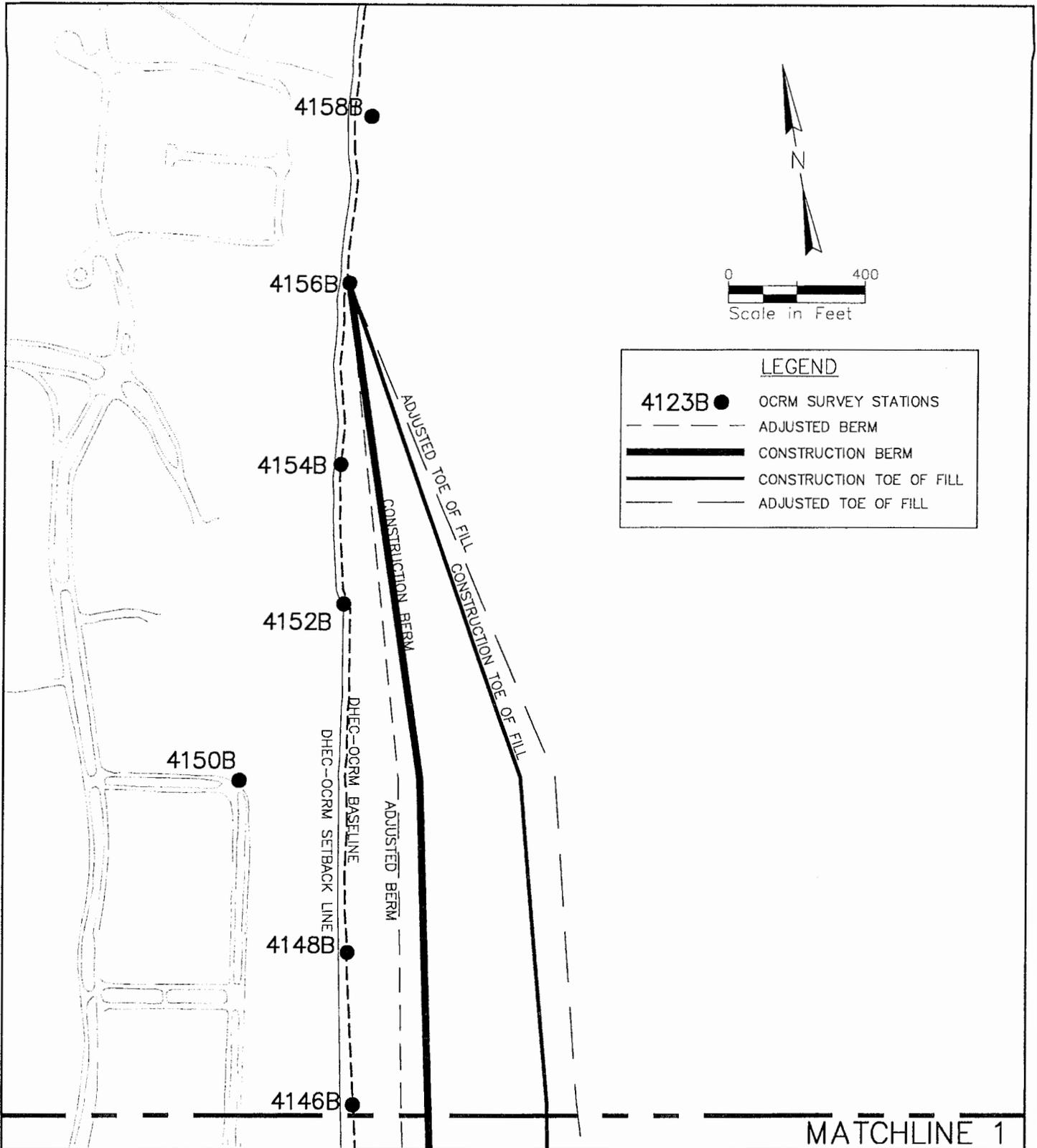


PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
 DATE: SEPT 2004

PROJECT LOCATION MAP  
 2003-1W-309-P (REVISED)  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
 AT: DEBIDUE ISLAND  
 COUNTY OF: GEORGETOWN  
 STATE: SOUTH CAROLINA  
 SHEET 1

04-895\_Permit-Mod\_Beachfill Design.dwg Sheet 2 9/20/04

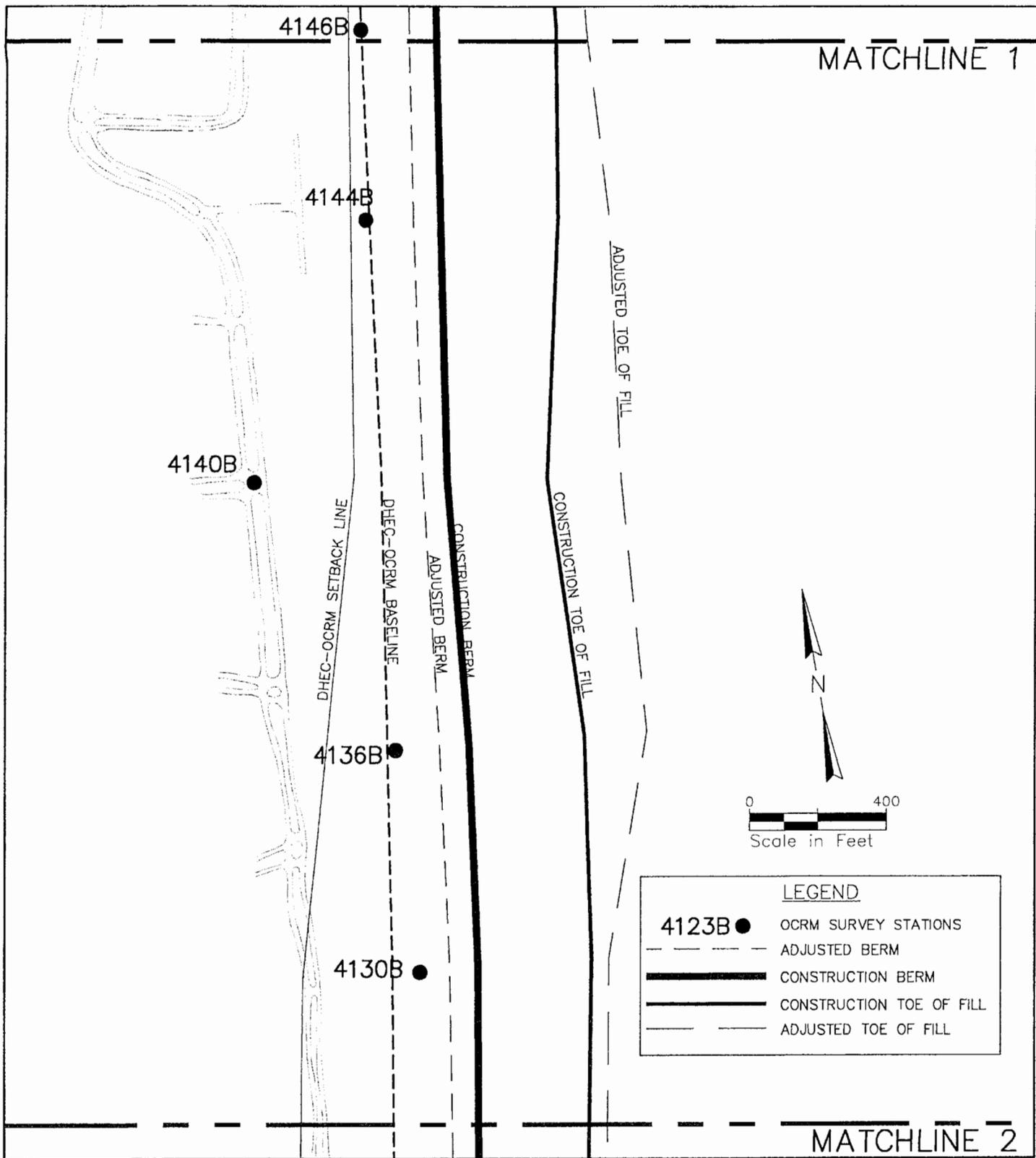


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 USACE #  
 ADJACENT PROPERTY OWNERS:  
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 DATE: SEPT 2004

PROJECT PLAN VIEW  
 2003-1W-309-P(REVISED)  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
 AT: DEBIDUE ISLAND  
 COUNTY OF: GEORGETOWN  
 STATE: SOUTH CAROLINA

04-855 Permit-Mod Beachfill Design.dwg Sheet 3 9/20/04



**LEGEND**

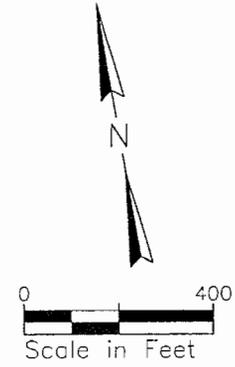
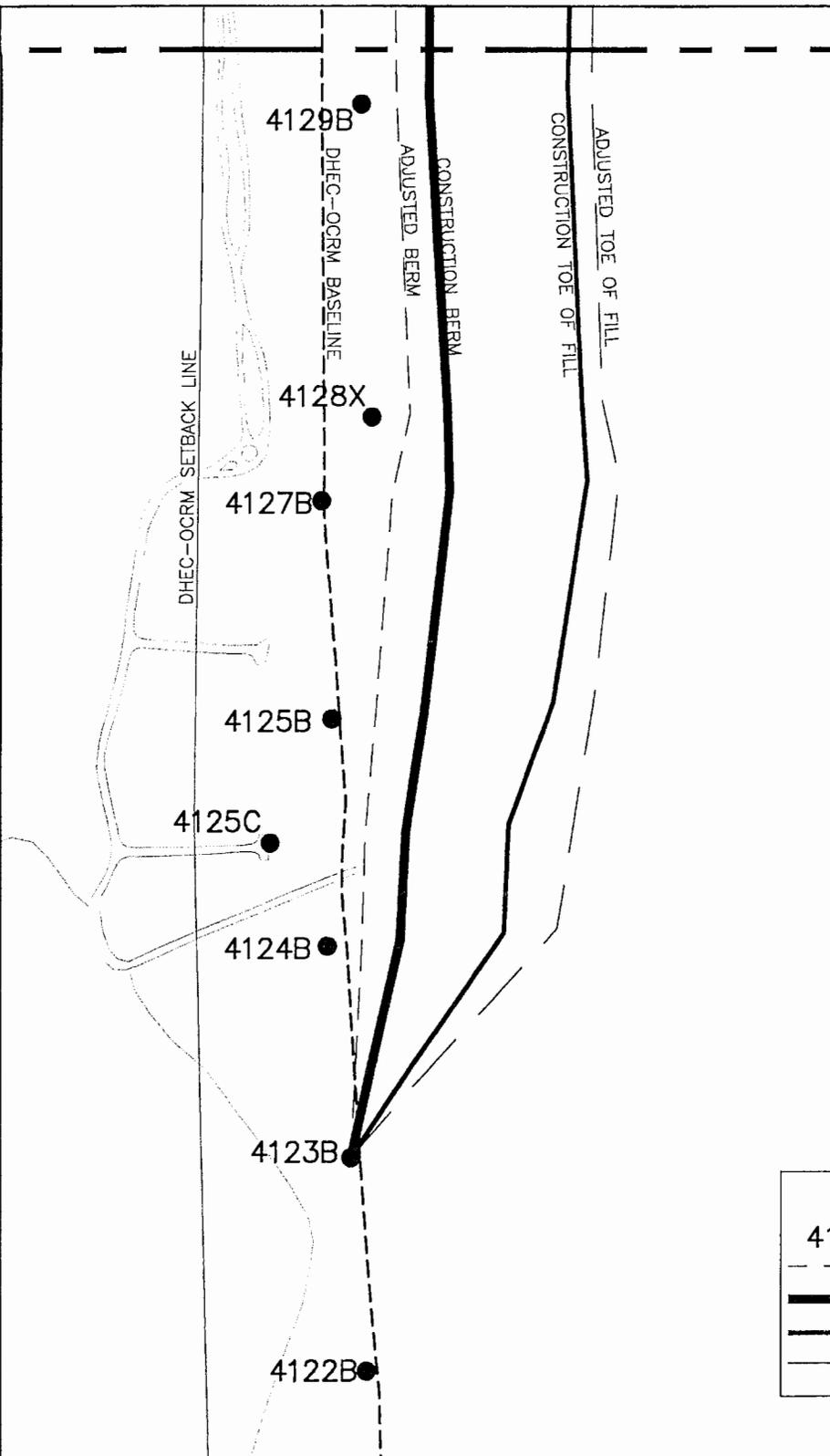
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- - - - - ADJUSTED BERM
- CONSTRUCTION BERM
- CONSTRUCTION TOE OF FILL
- - - - - ADJUSTED TOE OF FILL

PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
 DATE: SEPT 2004

PROJECT PLAN VIEW  
 2003-1W-309-P (REVISED)  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
 AT: DEBIDUE ISLAND  
 COUNTY OF: GEORGETOWN  
 STATE: SOUTH CAROLINA

MATCHLINE 2



LEGEND	
●	OCRM SURVEY STATIONS
- - - - -	ADJUSTED BERM
—————	CONSTRUCTION BERM
—————	CONSTRUCTION TOE OF FILL
- - - - -	ADJUSTED TOE OF FILL

04-895 Permit-Mod Beachfill Design.dwg Sheet 4 9/20/04

PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
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 DATE: SEPT 2004

PROJECT PLAN VIEW  
 2003-1W-309-P(REVISED)  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
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 COUNTY OF: GEORGETOWN  
 STATE: SOUTH CAROLINA  
 SHEET 4

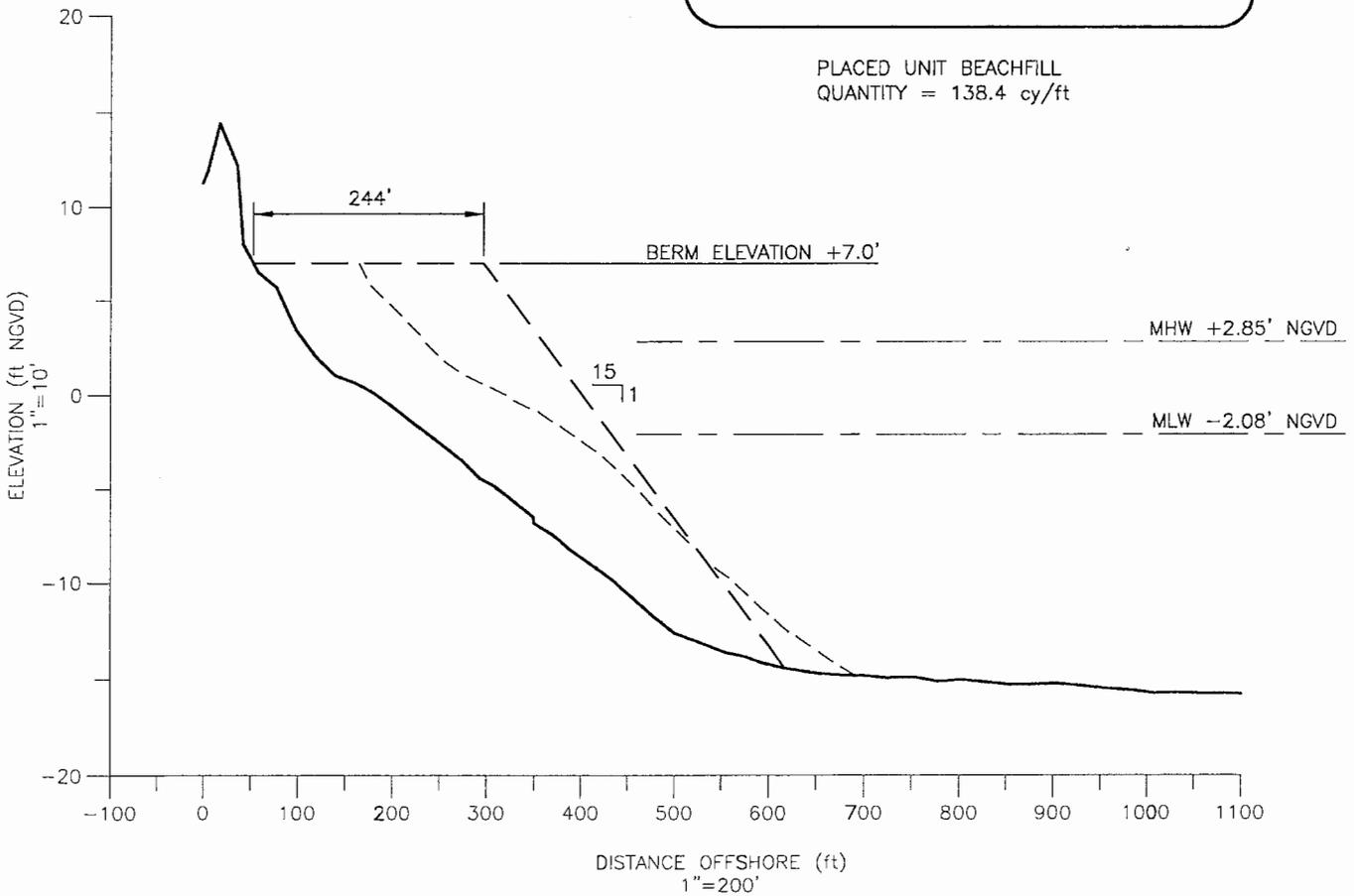
04--895 Permit--Mod Beachfill Profiles.dwg Sheet 5 9/20/04

**LEGEND**

———— 2004 PROFILE

----- CONSTRUCTION TEMPLATE

----- EQUILIBRIUM



PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
 DATE: SEPT 2004

**BEACHFILL CROSS SECTION  
 STATION 4127**

DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
 AT: DEBIDUE ISLAND  
 COUNTY OF: GEORGETOWN  
 STATE: SOUTH CAROLINA  
 2003-1W-309-P (REVISED)

SHEET 5

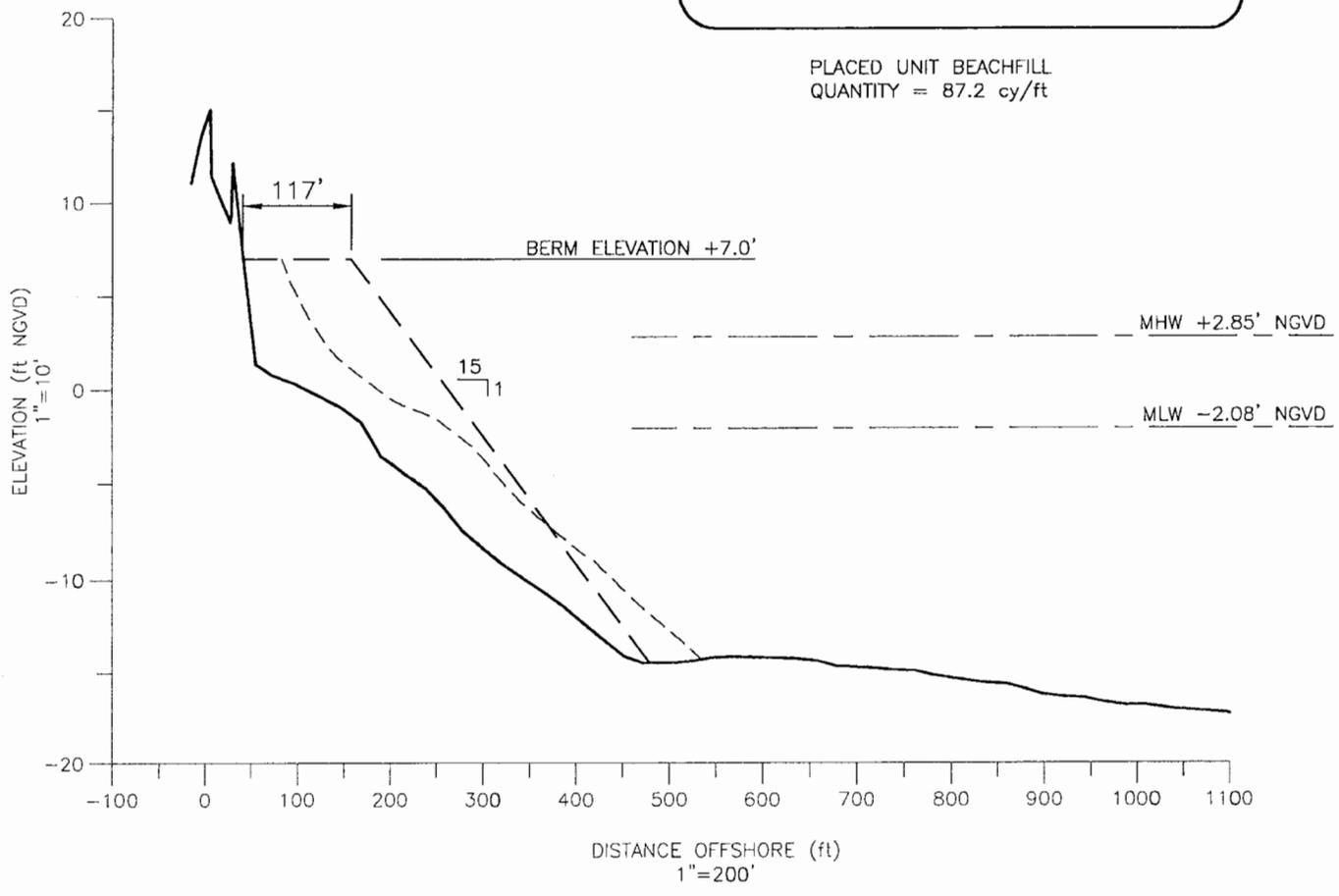
04-895 Permit-Mod. Beachfill Profiles.dwg Sheet 6 9/20/04

LEGEND

———— 2004 PROFILE

- - - - CONSTRUCTION TEMPLATE

- - - - EQUILIBRIUM

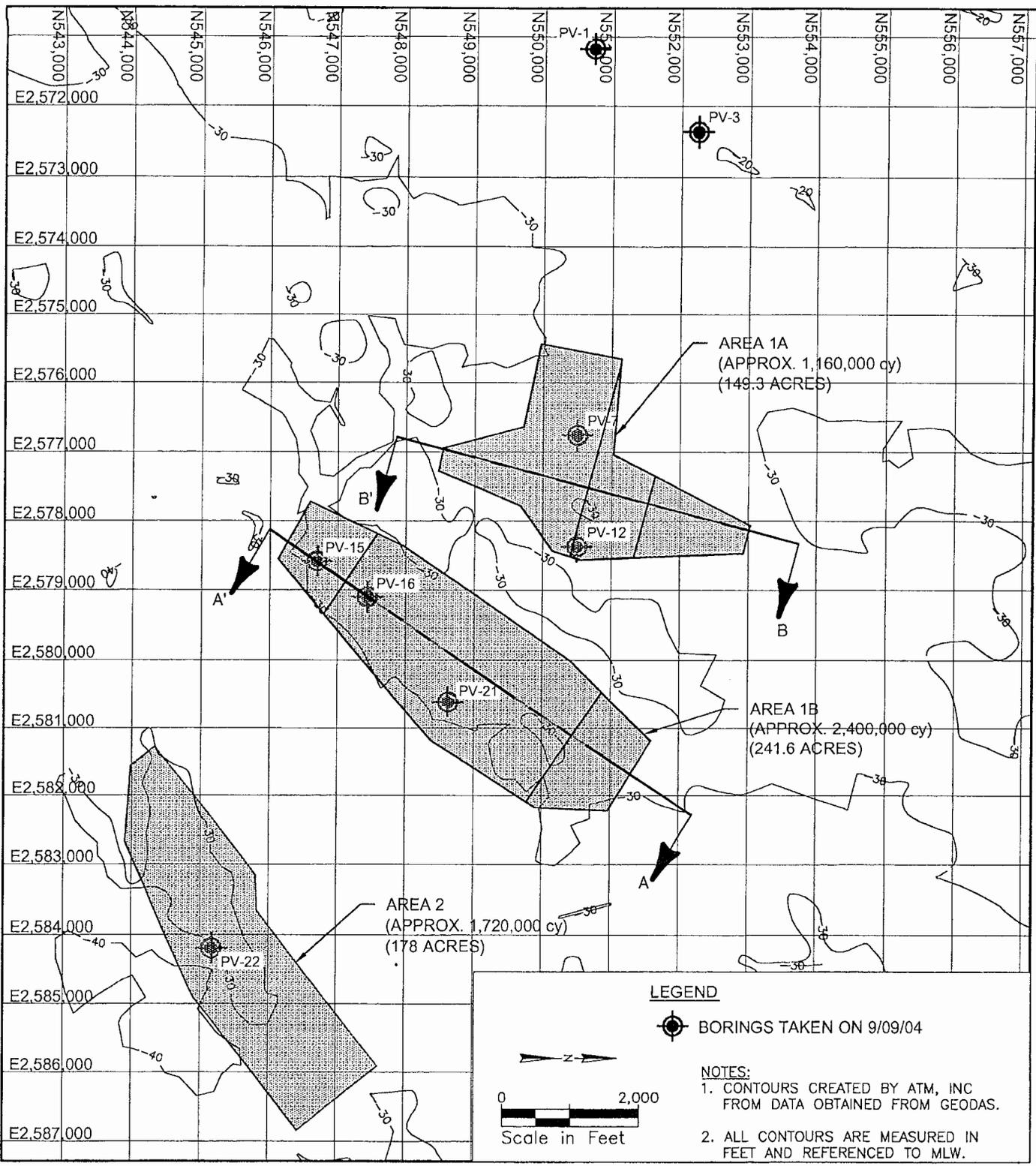


PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
 DATE: SEPT 2004

**BEACHFILL CROSS SECTION**  
**STATION 4129**  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

PROPOSED: BEACH NOURISHMENT  
 IN: ATLANTIC OCEAN  
 AT: DEBIDUE ISLAND  
 COUNTY OF: GEORGETOWN  
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 2003-1W-309 (REVISED)  
 SHEET 6

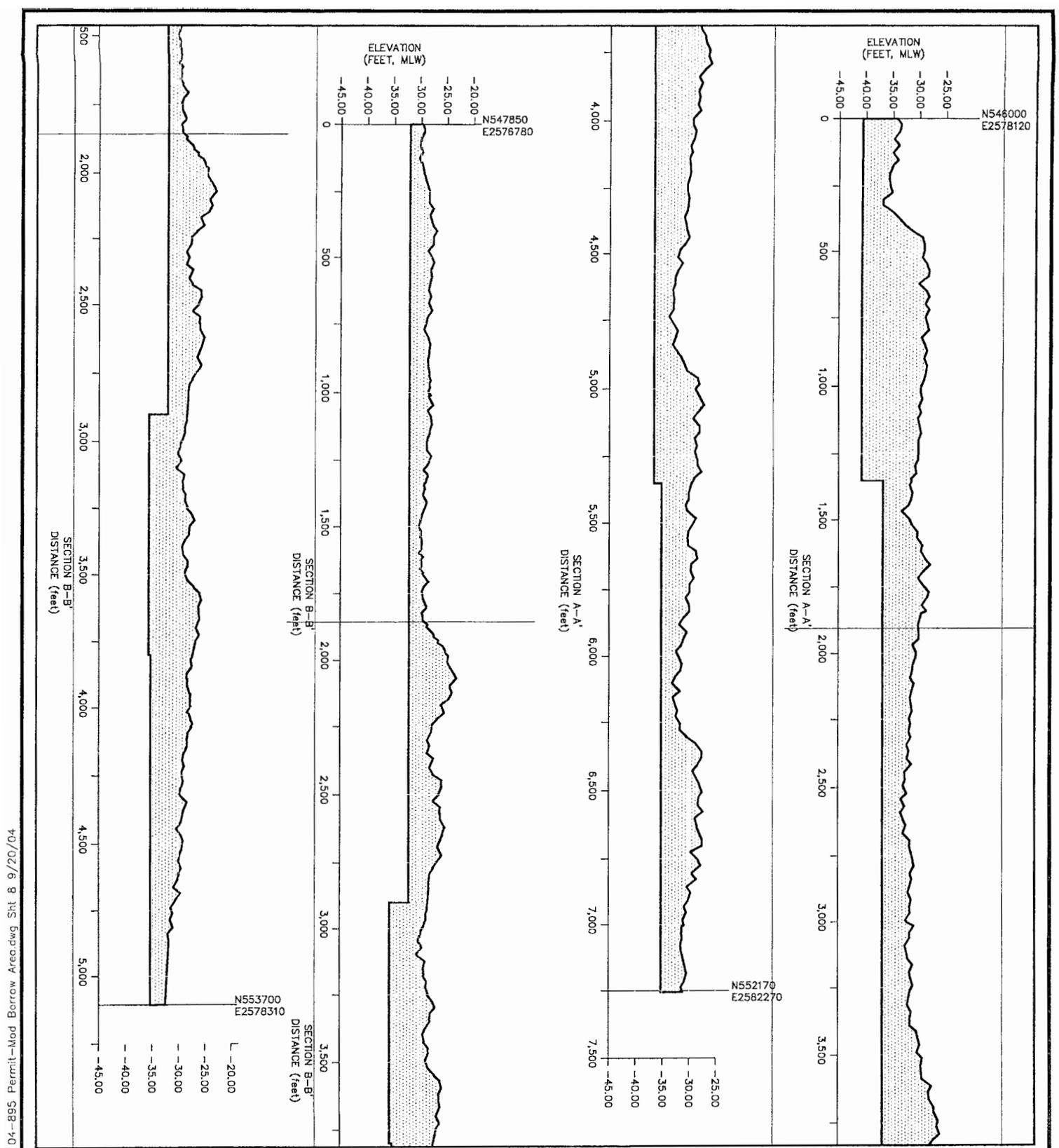
04--895 Permit--Mod Borrow Area.dwg Sht. 7 9/20/04



PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
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**BORROW AREAS**  
 DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 181 LUVAN BLVD.  
 GEORGETOWN, SC 29440

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 IN: ATLANTIC OCEAN  
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 STATE: SOUTH CAROLINA  
 2003-1W-309-P (REVISED)  
 SHEET 7



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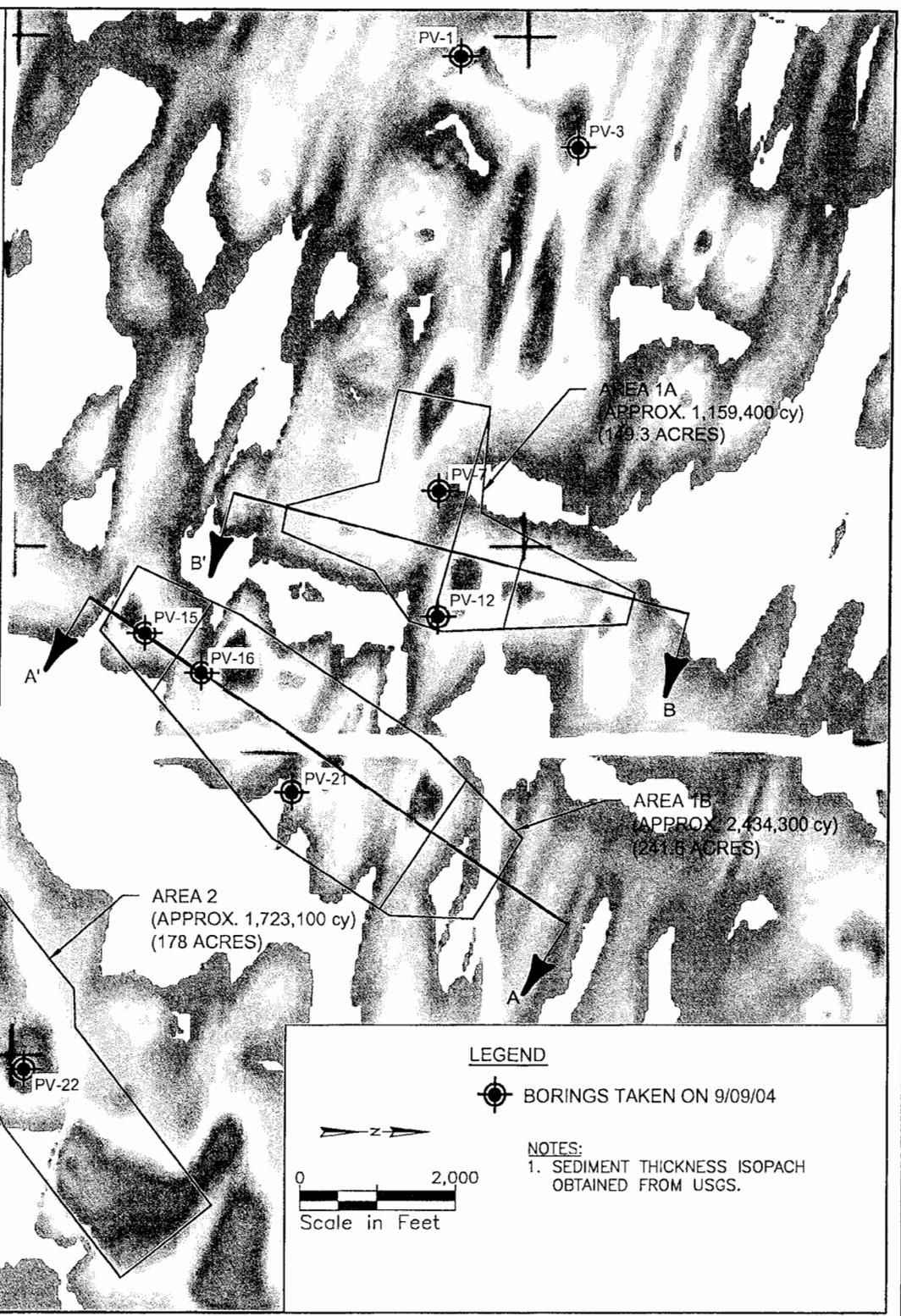
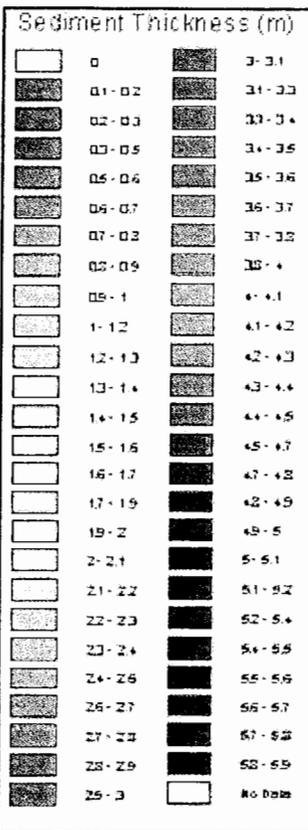
PURPOSE: BEACH NOURISHMENT  
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 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION  
 USACE #  
 ADJACENT PROPERTY OWNERS:  
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**CROSS-SECTIONS**

DEBORDIEU COLONY  
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 2003-1W-309-P (REVISED)  
 SHEET 8

04-895 Permit--Mod Borrow Area.dwg Sht 9 9/20/04



PURPOSE: BEACH NOURISHMENT  
 DATUM: SEE DRAWINGS  
 APPLICATION BY: DEBORDIEU COLONY  
 COMMUNITY ASSOCIATION

USACE #  
 ADJACENT PROPERTY OWNERS:  
 SEE ATTACHMENT B  
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**USGS SEDIMENT THICKNESS ISOPACHS**

DEBORDIEU COLONY  
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 2003-1W-309-P (REVISED)

SHEET 9