

APPENDIX IV

ENDANGERED SPECIES CONSULTATION



United States Department of the Interior

FISH AND WILDLIFE SERVICE
6620 Southpoint Drive, South
Suite 310
Jacksonville, Florida 32216-0912

JUL 27 1995

Mr. A.J. Salem
Chief, Planning Division
U.S. Army Corps of Engineers
P.O. Box 4970
Jacksonville, Florida 32232-0019

July 24, 1995
FWS Log No: 4-1-95-392D

Dear Mr. Salem:

This responds to your letter of July 12, 1995, pursuant to Section 7 of the Endangered Species Act of 1973, as amended (Act)(16 U.S.C. 1531 *et seq.*). The Corps evaluated the impact this project would have on several threatened and endangered species possibly inhabiting the area, and determined "no effect" for each species.

The Corps proposes to construct a new 311.39 acre dredge disposal site, BV-2C, 5 miles north of the town of Mims, 600 feet west of the Indian River in Brevard County. The site consists of 93.8 acres of fallow cropland, 87.2 acres of citrus groves, 38.3 acres of herbaceous rangeland, and 12.1 acres of temperate hardwoods to equal 231.4 acres of uplands. The remaining 79.9 acres are wetlands of various types. A 142-acre buffer area will surround the containment basin and will consist mostly of unimpacted wetlands.

The consultants surveyed the site for various species known to occur in similar habitats. No listed species were found to inhabit the site; however, a woodstork flyover was noted. A rookery was not observed in the immediate area (E. Lynn Mosura-Bliss, pers. comm.).

Of most concern are impacts to existing resources by the placement and removal of the pipeline. No reference or determination was given regarding the presence of listed species or associated impacts in the pipeline placement area. Surveys should be conducted to determine the presence or absence of any threatened or endangered species in the immediate pipeline area, and an "effect" determination made. Please include possible impacts to seagrasses and related recovery plans.

We recommend the standard construction procedures for manatees be a condition of the pipeline construction contract. The use of turbidity safeguards as stated in the engineering narrative is encouraged to protect all marine life in the immediate area.

Based on our review of the information contained in the report, the Service believes this disposal site, exclusive of the pipeline easement, is not likely to adversely affect the listed species. Although this does not represent a Biological Opinion as described in Section 7 of the Act, it does fulfill the requirements of the Act and no further action is required.

If modifications are made in the project or additional information becomes available on listed species, reinitiation of consultation may be required.

Please refer any future correspondence on this matter to Deborah Manz in this office (904-232-2580).

Sincerely,

A handwritten signature in cursive script that reads "Michael M. Bentzien".

Michael M. Bentzien
Assistant Field Supervisor



United States Department of the Interior

FISH AND WILDLIFE SERVICE

6620 Southpoint Drive, South
Suite 310
Jacksonville, Florida 32216-0912

NOV 16 1994

A. J. Salem, Chief
Planning Division
U.S. Army Corps of Engineers
P.O. Box 4970
Jacksonville, FL 32232-0019

FWS Log No: 1-4-95-045C
Dated: October 13, 1994
Applicant: U.S. Army Corps of Engineers
County: Brevard, Duval & St. Johns

Dear Mr. Salem:

Thank you for your letters of 13 October 1994 requesting information on potential impacts from the proposed construction of new disposal areas in conjunction with maintenance dredging of the Intracoastal Waterway.

Section 7 (a)(2) of the Endangered Species Act of 1973, as amended (Act), requires Federal agencies to ensure that their actions do not jeopardize the continued existence of listed species or destroy or adversely modify critical habitat. The Federal agency responsible for authorizing, funding, or implementing an action is required to determine whether listed species, proposed species, critical habitat, or proposed critical habitat may be present in the area that would be influenced by that action. If such species or habitat may be present, the Federal agency is required to determine whether the action may affect such species or habitat. To make such a determination the following information should be included in the biological information report:

1. The results of an on-site inspection of the areas affected by the action.
2. The views of recognized experts on the species at issue.
3. A review of the literature and other information.
4. An analysis of the effects of the action on the species and habitat, including consideration of cumulative effects, and the results of any related studies.

5. An analysis of alternate actions considered by the Federal agency for the proposed action.

If a determination is made that listed species or critical habitat may be affected, the Federal agency must request formal consultation with the Fish and Wildlife Service. If the proposed action is likely to jeopardize the continued existence of proposed species or result in the destruction or adverse modification of proposed critical habitat, the Federal agency must confer with the Fish and Wildlife Service.

If the Federal agency determines that no listed species, proposed species, critical habitats or proposed critical habitats occur in the area of project influence, or there would be no effect on such species or habitats, this office requests the opportunity to review the information on which such determinations are based, and to concur with those determinations.

Section 7(d) of the Act underscores the requirement that the Federal agency and permit or license applicant shall not make any irreversible or irretrievable commitment of resources during the consultation period which, in effect, would deny the formulation or implementation of reasonable alternatives regarding their actions on listed species.

In our review of the project description maps provided, federally listed species may occur in habitats identified by your letters. Data on site specific locations are limited. Understandably, the potential of occurrence increases within habitats designated for listed species, such as the occurrence of the West Indian manatee in tributaries of the St. John's River and/or the Atlantic Intracoastal Waterway. Therefore, your office may have to make a site specific determination of occurrence. Additionally, we would be concerned with any project-related impacts occurring in wetlands. As per your request, I have enclosed a list of federally designated species for the referenced counties. For additional information, you may wish to contact Mr. Don Wood, Endangered Species Coordinator, Florida Game & Fish Commission, 620 Meridian Street, Tallahassee, FL 32399-1600.

If you have further questions, please contact Marc Epstein at 904-232-2580.

Sincerely yours,



for Michael M. Bentzien
Acting Field Supervisor

Enclosure

FLORIDA

FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES,
AND CANDIDATE SPECIES

January 1994

COUNTY: BREVARD

Bat, Rafinesque's Big-eared = Southeastern	<i>Plecotus rafinesquii</i>	C2
Bear, Florida Black	<i>Ursus americanus floridanus</i>	C2
Bear-grass, Florida	<i>Nolina atopocarpa</i>	C2
Eagle, Bald	<i>Haliaeetus leucocephalus</i>	E
Egret, Reddish	<i>Egretta rufescens</i>	C2
Frog, Florida Crawfish = Gopher	<i>Rana areolata aesopus</i>	C2
Hoary-pea, Narrow-leaved	<i>Tephrosia angustissima</i>	C2
Ixia, Fall-flowering	<i>Nemastylis floridana</i>	C2
Jay, Florida Scrub	<i>Aphelocoma coerulescens coerulescens</i>	T
Jointgrass, Piedmont	<i>Coelorachis tuberculosa</i>	C2
Kestrel, Southeastern American	<i>Falco sparaverius paulus</i>	C2
Lantana, Florida	<i>Lantana depressa</i>	C2
Lizard, Florida Scrub	<i>Sceloporus woodi</i>	C2
Manatee, West Indian	<i>Trichechus manatus latirostris</i>	E/CH
Mint, Longspurred	<i>Dicerandra cornutissima</i>	E

FLORIDA

FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES,
AND CANDIDATE SPECIES

January 1994

Mouse, Florida	<i>Podomys floridanus</i>	C2
Mouse, Southeastern Beach	<i>Peromyscus polionotus niveiventris</i>	T
Muskrat, Round-tailed	<i>Neofiber alleni</i>	C2
Pinesap, Sweet (Pigmy-pipes)	<i>Monotropsis reynoldsiae</i>	C2
Pinweed, Pine	<i>Lechea divaricata</i>	C2
Plover, Piping	<i>Charadrius melodus</i>	T
Prickly-apple, Aboriginal	<i>Cereus gracilis</i> var. <i>aboriginum</i>	C2
Rail, Black	<i>Laterallus jamaicensis</i>	C2
Rosemary, Large-flowered	<i>Conradina grandiflora</i>	C2
Sand Grass, Curtiss'	<i>Calamovilfa curtissii</i>	C2
Snake, Atlantic Salt Marsh	<i>Nerodia fasciata taeniata</i>	T
Snake, Eastern Indigo	<i>Drymarchon corais couperi</i>	T
Snake, Florida Pine	<i>Pituophis melanoleucus mugitus</i>	C2
Sparrow, Bachman's	<i>Aimophila aestivalis</i>	C2
Spurge, Sand-dune	<i>Chamaesyce cumulicola</i>	C2
Squirrel, Sherman's Fox	<i>Sciurus niger shermani</i>	C2
Stork, Wood	<i>Mycteria americana</i>	E
Tortoise, Gopher	<i>Gopherus polyphemus</i>	C2
Turtle, Green Sea	<i>Chelonia mydas</i>	T
Turtle, Hawksbill Sea	<i>Eretmochelys imbricata</i>	E

FLORIDA

FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES,
AND CANDIDATE SPECIES

January 1994

Turtle, Kemp's Ridley Sea	<i>Lepidochelys kempii</i>	E
Turtle, Leatherback Sea	<i>Dermochrlys coriacea</i>	E
Turtle, Loggerhead Sea	<i>Caretta caretta</i>	T
Vervain, Coastal	<i>Verbena maritima</i>	C2
Vervain, Tampa	<i>Verbena tampensis</i>	C2
Woodpecker, Red-cockaded	<i>Picoides borealis</i>	E

July 12, 1995

Planning Division
Environmental Branch

Mr. David J. Wesley
Field Supervisor
U.S. Fish and Wildlife Service
6620 Southpoint Drive South
Jacksonville, Florida 32216

Dear Mr. Wesley:

This is in reference to the construction of a new disposal area, Dredged Material Management Area BV-2C, Brevard County, Florida (see enclosed map), in conjunction with maintenance dredging of the Atlantic Intracoastal Waterway.

In accordance with Section 7 of the Endangered Species Act, we have made a "No Effects" determination on impacts to species that could be affected by the disposal area construction and are listed by your agency pursuant to the Act. A list of these species was provided to this office by letter dated November 16, 1994.

We are requesting your concurrence in this determination. If you have any questions concerning this request, please do not hesitate to contact me.

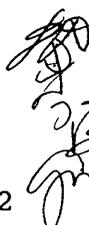
Sincerely,


A. J. Salem
Chief, Planning Division

Enclosure

bcc (wo/encl):
CESAJ-CO-ON
CESAJ-DP

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DeMarco/CESAJ-PD-ER/1109/wbd *wbd*
Fonferek/CESAJ-PD-ER
Dugger/CESAJ-PD-ER
Smith/CESAJ-PD-E
Salem/CESAJ-PD



United States Department of the Interior

FISH AND WILDLIFE SERVICE

6620 Southpoint Drive, South
Suite 310
Jacksonville, Florida 32216-0912

IN REPLY REFER TO:

JAN 24 1996

George M. Strain
U.S. Army Corps of Engineers
Acting Chief, Planning Division
Environmental Branch
P. O. Box 4970
Jacksonville, Florida 32232-0019

FWS Log No: 4-1-96-118C

Dear Mr. Strain:

This is in response to your letter addressing our concerns regarding dredge disposal site BV-2C in Mims, Florida. Based on the field information submitted to us by Mr. Fonferek which described pipeline impacts to wildlife in the project area, the Service concurs with the Corps determination of "no effect" for threatened or endangered species occurring there. However, we reiterate the use of the standard manatee safeguards during the construction phase of the project.

Additionally, the issue of pipeline (and effluent ?) impact to existing seagrass beds was not addressed in the response letter. The area is known to harbor manatees at various times of the year. Therefore, the Service requests more information on the current condition of the seagrass beds and a determination of possible impacts to these areas. We also request a recovery plan be submitted in the event the grass beds are damaged.

If there are any further questions, please contact Deborah Manz at (813) 840-2908.

Sincerely,

Michael M. Bentzien
Assistant Field Supervisor

December 6, 1995

Planning Division
Environmental Branch

Mr. David J. Wesley
Field Supervisor
US Fish and Wildlife Service
Suite 310
6620 Southpoint Drive South
Jacksonville, Florida 32216

Dear Mr. Wesley:

I am responding to your request for an assessment of impacts from the construction of the pipeline route of Disposal Area BV-2C near Mims, Brevard County, Florida, on species listed as threatened or endangered by the Endangered Species Act.

Mr. Bill Fonferek of my staff visited the site. The return water pipeline easement traverses an existing surface water drainage system which measures 5 feet deep with a top width of approximately 15 feet. The ditch goes from an orange grove eastward to the estuary between a forested wetland and a road. The return water pipeline would be placed in the ditch during dredging operations. Therefore, the impacts of this would be minimally short-term in nature. No species listed by your agency would be adversely affected.

We have made a "No Effects" determination on species listed as threatened or endangered and are asking for your concurrence. If you have any further questions, please feel free to contact me.

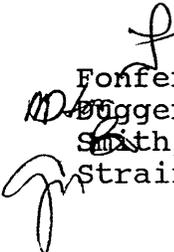
Sincerely,

George M. Strain
Acting Chief, Planning Division

bcc:

CESAJ-CO
CESAJ-DP

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Fonferek/CESAJ-PD-ER/2803/vtw (du)
Digger/CESAJ-PD-ER
Smith/CESAJ-PD-E
Strain/CESAJ-PD

file

August 2, 1994

Planning Division
Environmental Branch

Mr. David L. Ferrell
Field Supervisor
U.S. Fish and Wildlife Service
P.O. Box 2676
Vero Beach, Florida 32961-2676

Dear Mr. Ferrell:

This is in reference to the construction of a new disposal area, Dredged Material Management Area BV-2C (see enclosed map), in conjunction with maintenance dredging of the Atlantic Intracoastal Waterway.

In accordance with Section 7 of the Endangered Species Act (ESA) we request a list of those species which would be affected by this construction.

If you have any questions concerning this request, please do not hesitate to contact us.

Sincerely,

A. J. Salem
Chief, Planning Division

Enclosure

bcc: CESAJ-CO-ON
CESAJ-DP

78 DeMarco/CESAJ-PD-ES *KH*
7 Fonferek/CESAJ-PD-ES
Ant Kurzbach/CESAJ-PD-ES
3 Smith/CESAJ-PD-E
9 Davis/CESAJ-PD-A
ALS Salem/CESAJ-PD

February 7, 1995

Planning Division
Environmental Branch

Mr. David L. Ferrell
Field Supervisor
U.S. Fish and Wildlife Service
Post Office Box 2676
Vero Beach, Florida 32961-2676

Dear Mr. Ferrell:

This is in reference to the construction of a new disposal area, Dredged Material Management Area BV-2C, Brevard County, Florida (see enclosed map), in conjunction with maintenance dredging of the Atlantic Intracoastal Waterway.

In accordance with Section 7 of the Endangered Species Act, we have made a "No Effects" determination on impacts to species that could be affected by the disposal area construction and are listed by your agency pursuant to the Act. A list of these species was provided to this office by letter dated November 16, 1994.

We are requesting your concurrence in this determination. If you have any questions concerning this request, please do not hesitate to contact me.

Sincerely,

A. J. Salem
Chief, Planning Division

Enclosure

bcc: CESAJ-CO-ON
CESAJ-DP

Fonferek/CESAJ-PD-ER/2803/wbdwt
Dugger/CESAJ-PD-ER
Smith/CESAJ-PD-E
Salem/CESAJ-PD

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APPENDIX V

PUBLIC COORDINATION

COPY



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019



REPLY TO
ATTENTION OF

February 28, 1995

MAR 06 1995

Planning Division
Environmental Branch

Mr. Dave Mallard, Director
Soil Conservation Service
3695 Lake Drive
Cocoa, Florida 32926-4251

Dear Mr. Mallard:

This is in reference to the Dredged Material Management Area, BV-2C, Brevard County, Florida (enclosures 1-4: location maps).

In accordance with provisions of the Farmland Protection Policy Act (FPPA), we are submitting the Farmland Conversion Impact Rating Form (AD-1006) for your completion (enclosure 5).

The total acreage of BV-2C is 311.4 acres, 219.3 acres of which fall under the purview of the FPPA. Of those 219.3 acres, 87.2 are citrus groves, 93.8 are fallow cropland, and 38.3 are herbaceous rangeland. Approximately 24.5 acres of herbaceous rangeland, 70.7 acres of fallow cropland, and 72.8 acres of citrus groves will be directly converted by dike construction. A buffer zone of approximately 142 acres will surround the containment basin. It is anticipated that citrus production will continue in this area under lease agreement between Florida Inland Navigation District and local citrus growers.

If you have any questions concerning this project, please feel free to contact me.

Sincerely,

A. J. Salem
Chief, Planning Division

Enclosures



United States
Department of
Agriculture

Natural
Resources
Conservation
Service

P.O. Box 141510
Gainesville, FL
32614-1510

March 21, 1995

Mr. A. J. Salem
Chief, Planning Division
Department of The Army
Jacksonville District Corps of Engineers
P. O. Box 4970
Jacksonville, Florida 32232-0019

RE: Dredged Material Management Area (BV-2C)

Dear Mr. Salem:

Enclosed is form AD-1006 with Parts II, IV, and V completed for the referenced project. A considerable portion of the proposed management area is unique farmland, which is defined by the Farmland Protection Policy Act. Completion of the project would take some of this farmland out of production. According to the FPPA, if the federal agency involved decides to fund the project, Parts VI and VII of the applicable form should be completed and returned to this office.

If there are any questions, please contact me at the above address or by phone at 904-338-9533.

Sincerely,

Warren G. Henderson

Warren G. Henderson
State Soil Scientist

Enclosure

cc: David Mallard, District Conservationist

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request	2-28-95
Name Of Project Dredged Material Management Area BV-2C		Federal Agency Involved	US Army Corps of Engineers
Proposed Land Use Dredged Material Management Area		County And State	Brevard County, Florida
PART II (To be completed by SCS)		Date Request Received By SCS	3/6/95

Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply - do not complete additional parts of this form).		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Acres Irrigated NOT REQUIRED	Average Farm Size 359
Major Crop(s) CITRUS	Farmable Land In Govt. Jurisdiction Acres: 23,000 %	Amount Of Farmland As Defined in FPPA Acres: 23,000 %		
Name Of Land Evaluation System Used Soil Potential	Name Of Local Site Assessment System	Date Land Evaluation Returned By SCS 3-21-95 WSH		

PART III (To be completed by Federal Agency)	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	168.0			
B. Total Acres To Be Converted Indirectly	51.3			
C. Total Acres In Site	219.3			

PART IV (To be completed by SCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	87.2			
B. Total Acres Statewide And Local Important Farmland	0			
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	41%			
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	45%			

PART V (To be completed by SCS) Land Evaluation Criterion				
Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)	50			

PART VI (To be completed by Federal Agency)				
Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))	Maximum Points	Site A	Site B	Site C
1. Area In Nonurban Use	15	15		
2. Perimeter In Nonurban Use	10	10		
3. Percent Of Site Being Farmed	20	15		
4. Protection Provided By State And Local Government	20	0		
5. Distance From Urban Builtup Area	15	15		
6. Distance To Urban Support Services	15	15		
7. Size Of Present Farm Unit Compared To Average	10	7		
8. Creation Of Nonfarmable Farmland	10	0		
9. Availability Of Farm Support Services	5	5		
10. On-Farm Investments	20	8		
11. Effects Of Conversion On Farm Support Services	10	0		
12. Compatibility With Existing Agricultural Use	10	0		
TOTAL SITE ASSESSMENT POINTS	160	95		

PART VII (To be completed by Federal Agency)				
Relative Value Of Farmland (From Part V)	100	50		
Total Site Assessment (From Part VI above or a local site assessment)	160	95		
TOTAL POINTS (Total of above 2 lines)	260	145		

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Reason For Selection:



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

JUL 13 1995

(duplicate reissued 8-28-95)

REPLY TO
ATTENTION OF

Construction-Operations Division
Public Notice Number PN-SPH-205

PUBLIC NOTICE

TO WHOM IT MAY CONCERN: The District Engineer, Jacksonville District, U.S. Army Corps of Engineers, has been working with the Florida Inland Navigation District (FIND) to develop sites suitable for placement of material dredged from the Intracoastal Waterway (IWW). FIND, being the local sponsor for the IWW, has prepared a Long-Range Dredged Material Management Plan for the IWW for Brevard County. This Plan predicts the 50 year dredging requirements and identifies preferred sites for placement of material dredged from the IWW. These sites are referred to as Dredged Material Management Areas (DMMA's). Development of these DMMA's initially includes acquiring the lands necessary and obtaining the appropriate environmental clearances to use these sites. The sites are then cleared and grubbed, graded if necessary, and fenced. Dikes with weir structures are then constructed when required or when funding becomes available. Material dredged from the IWW will be deposited into the DMMA's. After the material is dried out, it will be removed, thus recycling a valuable resource. This public notice includes all efforts to fully develop and operate the DMMA in Brevard County designated BV-2C.

The dike construction has been authorized by the Environmental Protection Agency's National Pollution Discharge Elimination System, Storm Water General Permit pursuant to Section 402 of the Clean Water Act. Full compliance with the General Permit requires preparation of an Environmental Protection Plan and submittal with a Notice of Intent to construct.

If a Water Quality Certificate is required, an application will be forwarded to the State of Florida Department of Environmental Protection pursuant to Section 401 of the Clean Water Act of 1977. This Federal project is being evaluated and coordinated pursuant to 33 CFR 335 through 338.

Wetlands impacted by the clearing and grubbing of the DMMA will be mitigated, preferably on-site, but if not, on nearby property.

Comments regarding the project should be submitted in writing to the District Engineer at the above address within 30 days from the date of this notice. Any person who has an interest which may be affected by the construction of this project may request a public hearing. The request must be submitted in writing to the

District Engineer within 30 days of the date of this notice and must clearly set forth the interest which may be affected and the manner in which the interest may be affected by this activity.

If you have any questions concerning this public notice, you may contact Mr. Donald Fore of this office, telephone 904-232-3729.

WATERWAY & LOCATION: Intracoastal Waterway (IWW) Jacksonville to Miami, Florida (Brevard County). The site is located west of the IWW and north of the community of Mims, as shown on the attached area and site plans.

WORK & PURPOSE: The proposed work as planned will combine two phases. Phase one will be the routine clearing and grubbing and grading of DMMA BV-2C. Phase two will be the construction of the dike and weir structure. The dike is detailed in the attached conceptual drawings, and its purpose is to retain the material dredged from the IWW.

PROJECT AUTHORIZATION: Intracoastal Waterway Jacksonville to Miami, Florida - House Document 740, 79th Congress, 2nd Session, modified by Chief of Engineers Report 22 July 1960.

EVALUATION: An environmental assessment is being prepared to evaluate the impacts of the project. A preliminary environmental evaluation indicates that the proposed action would have no significant impact on the quality of the human environment and an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA) is not required. A final determination will be made when all comments are reviewed. The appropriate NEPA documents will be made available upon request.

APPLICABLE LAWS: The following laws are, or may be, applicable to the review of the proposed disposal sites and to the activities affiliated with this Federal project:

1. Section 404 of the Clean Water Act of 1977 (PL 95-217) (33 U.S.C. 1344).
2. Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (PL 92-532) (33 U.S.C. 1413, 86 Stat. 1052).
3. Section 302 of the Marine Protection, Research, and Sanctuaries Act of 1972 (PL 92-532, 86 Stat. 1052).
4. The National Environmental Policy Act of 1969 (PL 91-190) (42 U.S.C. 4321-4347).
5. Sections 307(c) (1) and (2) of the Coastal Zone Management Act of 1972 (16 U.S.C. 1456 (c)(1) and (2), 86 Stat. 1280).
6. The Fish and Wildlife Act of 1956 (16 U.S.C. 472a et seq.)

7. The Migratory Marine Game-Fish Act of 1959 (16 U.S.C. 760c-760g).

8. The Fish and Wildlife Coordination Act of 1958 (16 U.S.C. 661-666c).

9. The Endangered Species Act of 1973 (PL 93-205) 16 U.S.C.668aa-668cc-6, 87 Stat. 884).

10. The National Historic Preservation Act of 1966 (16 U.S.C. 470, 80 Stat. 915).

11. Section 313 of the Clean Water Act of 1977 (33 U.S.C. 1323, 82 Stat. 816).

COASTAL ZONE MANAGEMENT: The proposal has been evaluated in accordance with the Florida Coastal Zone Management Act and was determined to be consistent with the goals and intent of the appropriate State statutes. This determination is based on the Preliminary Environmental Assessment and the Coastal Zone Consistency Determination. Full compliance will be achieved by issuance of the necessary permits from the State.

ENDANGERED SPECIES: Consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service pursuant to Section 7 of the Endangered Species Act has been conducted. Based on our evaluation a "No Effects" determination has been made for species listed as threatened or endangered pursuant to the Act.

OTHER IMPORTANT RESOURCES: Other important resources considered in the environmental assessment will include wetlands and farmlands. Some isolated, previously disturbed wetlands totaling approximately 3.2 acres would be filled as a result of Phase II construction. Any mitigation required to offset impact to these wetlands would be negotiated during final project design. Coordination with the Department of Agriculture determined the presence of 87.2 acres of prime and unique farmland on site. Accordingly, a Farmland Conversion Impact Rating was conducted. Coordination under the Farmland Protection Policy Act has been completed and this project is in compliance with the act.

Another important resource considered in the environmental assessment is historical resources. Through coordination with the State Historic Preservation Officer it was determined that no known archeological or historical resources would be affected by construction of BV-2C.

EVALUATION FACTORS: All factors which may be relevant to the proposal 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, floodplain values, land

use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, consideration of property ownership and, in general, the needs and welfare of the people.

DISSEMINATION OF NOTICE: You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have an interest in this matter.

COORDINATION: This notice is being sent to, and coordinated with, the following agencies:

FEDERAL AGENCIES:

Federal Highway Administration, Room 2015, Tallahassee, FL.
Commanding Officer, 7TH Coast Guard District, Miami, FL.
Regional Director, U.S. Fish & Wildlife Service, Atlanta, GA.
Dir Atlantic Marine Center, Hydro Process Unit, Norfolk, VA.
N. M. F. S., Habitat Conservation Division, St Petersburg, FL.
Regional Hydrologist, NOAA, Nat. Weather Service, Fort Worth, TX.
N. M. F. S., Habitat Conservation Division, Panama City, FL.
Field Supervisor, U.S. Fish & Wildlife Service, Vero Beach, FL.
Postmaster, General Delivery, Jacksonville, FL.
Nat Park Service, Ft Caroline Nat Memorial, Jacksonville, FL.
Postmaster, General Delivery, Neptune Beach, Jacksonville, FL.
Postmaster, General Delivery, Jacksonville, FL.
Postmaster, General Delivery, Jax Beach, Jacksonville, FL.
District Chief, U.S. Geological Survey, WRD, Tallahassee, FL.
Office of Federal Activity, E.P.A. Office, Washington, D.C.
U.S. Geological Survey, Spalding Woods Office, Norcross, GA.
Regional Director, National Park Service, SE Region, Atlanta, GA.
Federal Energy Regulations, Atlanta Regional Office, Atlanta, GA.
U.S. E.P.A. Fed Act, Branch NEPA Review, ENV Policy, Atlanta, GA.
N.O.A.A. National Oceanic Service (C-GC-2211), Rockville, MD.
Commanding Officer, U.S. Coast Guard Base, Mayport, FL.
U.S. Dept of Interior, N.P.S., Atlanta, GA.
U.S. Coast Guard, Marine Safety Office, Jacksonville, FL.

STATE AGENCIES:

Jacksonville City Council, Jacksonville, FL.
Mr Brett D. Moore, Dept of Natural Resources, Tallahassee, FL.
Division of Solid Waste Management, Admin Assist, Fort Myers, FL.
Executive Director, F.I.N.D., Jupiter, FL.
Executive Director, Dept Natural Resources, Tallahassee, FL.
Game & Fresh Water Fish Commission, T Champeau, Lakeland, FL.
Florida Game & Fresh Water Fish Commission, Tallahassee, FL.
Director Div of Archives, History & Records, Tallahassee, FL.
State Hist. Pres. Officer, Div of Hist. Res., Tallahassee, FL.
Office of Environment DOT, Tallahassee, FL.
Off of The Secty, DNR Environmental Regulation, Tallahassee, FL.
Planning Manager of Submerged Lands DP, Tallahassee, FL.

Soil Conservation Service, Gainesville, FL.
Florida Times Union, City Editor, Jacksonville, FL.
Florida Office of Entomology, William R. Opp, Jacksonville, FL.
Florida Dept of Nat Resources, Div of Beaches, Tallahassee, FL.
Florida Game & Fresh Water Fish Commission, Vero Beach, FL.
Department of Transportation, User Statistics, Tallahassee, FL.
Florida D.E.P., Office of Aquatic Preserves, Jacksonville, FL.
Board of County Commissioner, Pinellas County, Clearwater, FL.
Exec Dir, Florida Wildlife Federation, West Palm Beach, FL.
Lawton Chiles, Florida State Clearinghouse, Tallahassee, FL.
Captain Alan S. Richard, Florida Marine Patrol, Tallahassee, FL.
Bureau of State Planning, Div of Res Plan & Mgt, Tallahassee, FL.

ENVIRONMENTAL ORGANIZATIONS:

Executive Director, Florida Audubon Society, Casselberry, FL.

LOCAL GOVERNMENTS:

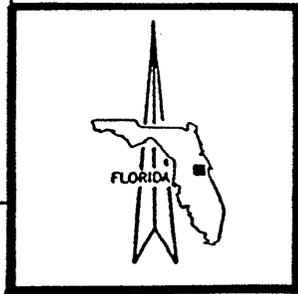
Board of Commissioners, Brevard County

FOR THE COMMANDER:

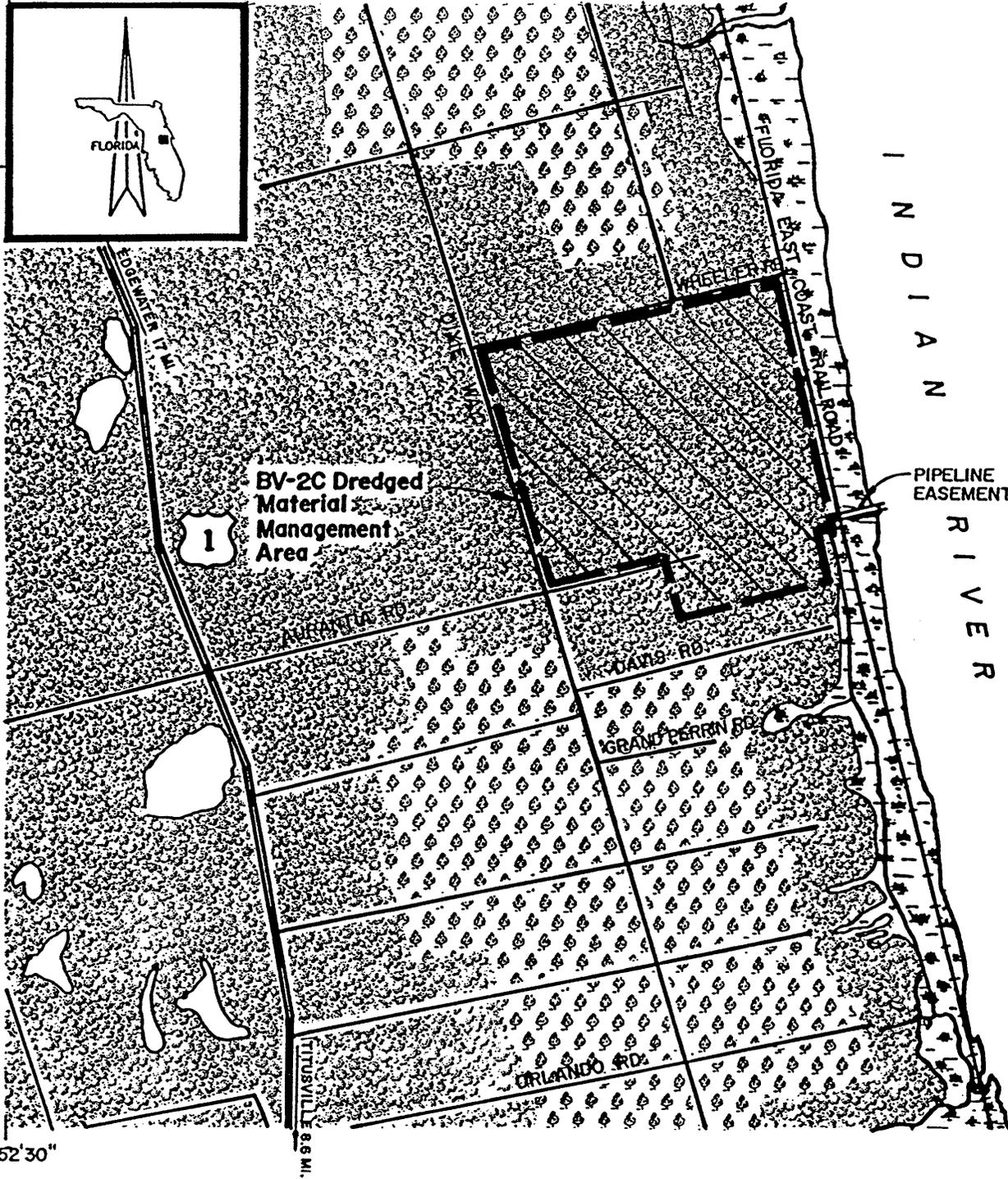
Charles J. M. Zaher
GIROLAMO DICHIARA
Chief, Construction-Operations
Division

90°52'30"

28°45'00"



28°45'00"

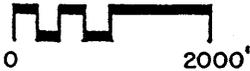


80°52'30"

REFERENCED

USGS MIMS, FLORIDA QUAD-RANGLE 1949, REVISED 1970.

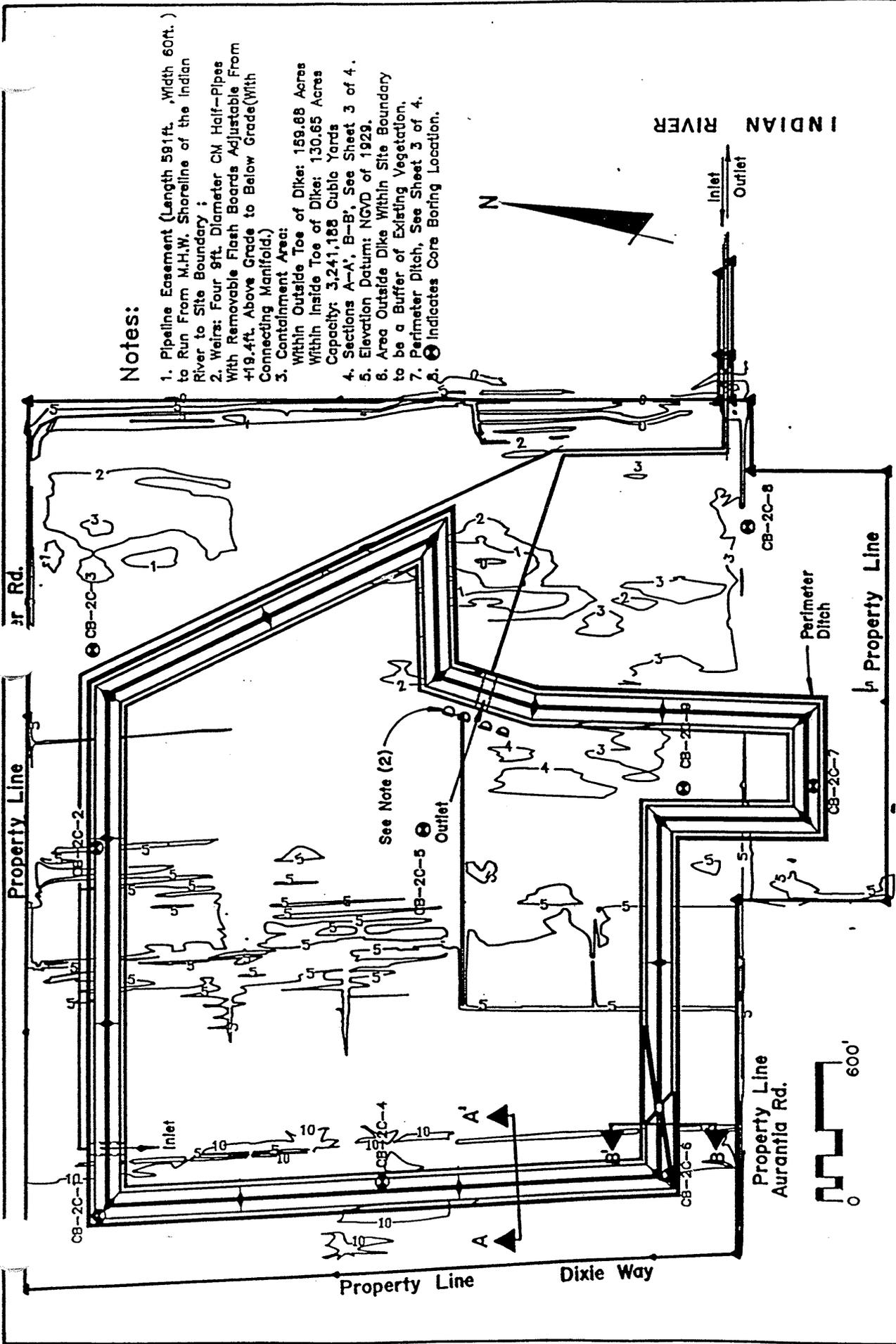
USGS OAK HILL, FLORIDA QUADRANGLE 1949, REVISED 1970.



TAYLOR ENGINEERING INC
 9086 CYPRESS GREEN DRIVE
 JACKSONVILLE, FLORIDA 32256

**Location of Site BV-2C
 Dredged Material Management Area
 Brevard County, Florida**

PROJECT	C-9004
REVISION	
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DATE	Aug., 1992



Notes:

1. Pipeline Easement (Length 591ft., Width 60ft.) to Run From M.H.W. Shoreline of the Indian River to Site Boundary;
2. Weirs: Four 9ft. Diameter CM Half-Pipes With Removable Flash Boards Adjustable From +19.4ft. Above Grade to Below Grade (With Connecting Manifold);
3. Containment Area:
 Within Outside Toe of Dike: 159.88 Acres
 Within Inside Toe of Dike: 130.65 Acres
 Capacity: 3,241,188 Cubic Yards
 Sections A-A', B-B', See Sheet 3 of 4.
4. Elevation Datum: NGVD of 1929.
5. Area Outside Dike Within Site Boundary to be a Buffer of Existing Vegetation.
6. Perimeter Ditch, See Sheet 3 of 4.
7. Ⓞ Indicates Core Boring Location.

INDIAN RIVER



Inlet
Outlet

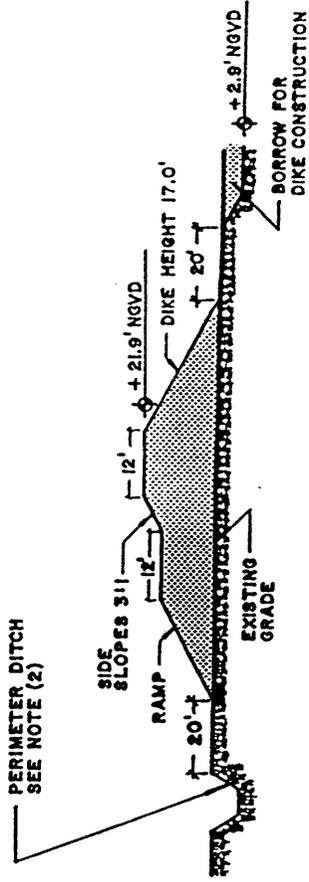
Property Line
Perimeter Ditch
Property Line



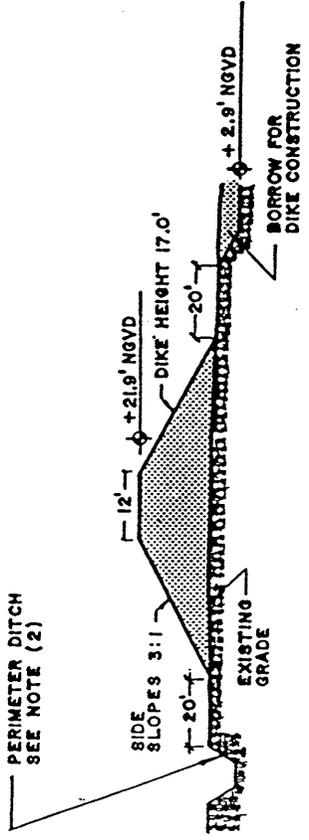
PROJECT	C-9004
REVISION	
SHEET	2 of 4
DATE	Aug, 1992

Site Plan
BV-2C Dredged Material Management Area,
Brevard County, Florida

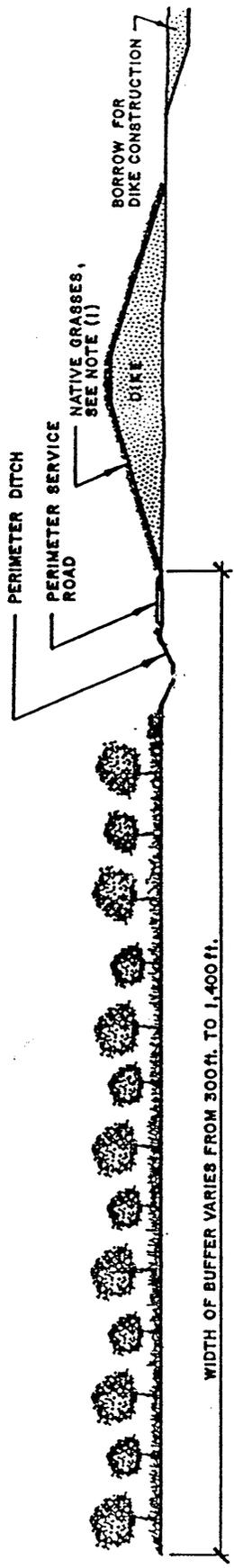
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SECTION A-A'
N.T.S.



SECTION B-B'
N.T.S.



DISPOSAL AREA - VEGETATION PLAN
N.T.S.

- NOTES:
1. TYPICAL SPECIES INCLUDE:
 - PASPALUM VAGINATUM
 - SPARTINA PATENS
 - SPOROBOLUS SPECIES
 2. PERIMETER DITCH:
 - SIDE SLOPE: 3:1
 - BOTTOM WIDTH: 3 ft.
 - MEAN INVERT ELEV.: 2 ft.
 - BOTTOM SLOPE AS REQUIRED FOR DRAINAGE

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Typical Dike and Ramp Sections, Vegetation Plan
Site BV-2C
Brevard County, Florida

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