

N00213.AR.001430
NAS KEY WEST
5090.3a

PERMIT AND NOTICE OF AUTHORIZATION FOR CONSTRUCTION OF SHORELINE
PROTECTION SYSTEM ALONG FLEMING KEY NAS KEY WEST
3/5/1997
ARMY CORPS OF ENGINEERS



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



REPLY TO
ATTENTION OF
Regulatory Division
South Permits Branch
199604865 (IP-EJ)

MAR 05 1997

Mr. O. N. McNeill, Jr.
Oak Ridge Corporate Center
151 Lafayette Drive
P. O. Box 350
Oak Ridge, Tennessee 37831-0350

Dear Mr. McNeill:

We are pleased to enclose the Department of the Army permit and a Notice of Authorization which should be displayed at the construction site. Work may begin immediately but the appropriate Regulatory Section Chief as representative of the District Engineer must be notified of:

- a. The date of commencement of the work
- b. The dates of work suspensions and resumptions if work is suspended over a week, and
- c. The date of final completion.

Regulatory Section Chiefs addresses and telephone numbers are shown on the enclosed map. The Section Chief is responsible for inspections to determine that permit conditions are strictly adhered to. A copy of the permit and drawings must be available at the site of work.

IT IS NOT LAWFUL TO DEVIATE FROM
THE APPROVED PLANS ENCLOSED.

Sincerely,


John R. Hall
Chief, Regulatory Division

Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee: NAVAL AIR STATION, KEY WEST, FLORIDA

Permit No. 199604865

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Remove existing riprap and construct 1,800 linear feet of shoreline revetment impacting 0.3-acre of wetlands. The project is described on the attached plans numbered 199604865(IP-EJ) in 13 sheets, dated December 19, 1996.

Project Location: In the Bay of Florida, Mustin Road, in Section 31, Township 67 South, Range 25 East, Fleming Key, Monroe County, Florida. Latitude 24°34'20"N., Longitude 81°47'58"W.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on FEB 28 2002. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

The permittee agrees to the following special conditions:

1. All work will be done landward of the existing sea-grass communities in order to avoid impacts to that resource.

2. Within 12 months from the date of permit issuance, remove exotic species such as Australian pine, Brazilian pepper, and leatherleaf from the 130,000 square foot construction area. The permittee will maintain the area free of exotic vegetation for a period of no less than 3 years.

3. Within 12 months from permit issuance, plant sea-purselane in the top 3 rows of the open Armorflex cell blocks along the entire 1,800-foot revetment. The permittee will guarantee the survival of 80% of the planted specimens for 3-years through replacement of lost specimens.

4. Within 12 months from permit issuance, plant red mangrove specimens at least 18 inches tall in 3-foot staggered centers along approximately 300 linear feet of shoreline between stations 15+00 and 18+00, with the waterward-most row at 0 elevation and successive rows spaced 3.5 feet landwards, and guarantee the survival of 80% of the planted specimens for 3-years through replacement of lost specimens.

5. The permittee will submit a yearly monitoring report to the Corps of Engineers on the vegetation planted and eradication carried out as a result of specific conditions 2, 3 and 4.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Permittee: Naval Air Station Key West
File No. 442959285
Page 7 of 11

17. Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample, and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate Department office.

19. The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIFIC CONDITIONS:

1. If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site the permittee shall immediately notify the district office and the Bureau of Historic Preservation, Division of Historical Resources, R.A. Gray Building, 500 S. Bronough St., Tallahassee, Florida 32399-0250.
2. The Department of Environmental Protection's Marathon office (2796 Overseas Highway, Suite 221, Marathon, Florida 33050) shall be notified in writing 48 hours prior to commencement of work.
3. Remove from the 130,000 square foot construction area identified on the permit drawings sheets 3B, 3C & 3D all exotic plants (e.g.) Brazilian pepper (Schinus terebinthifolius), punk tree (Melaleuca quinquenervia), Australian pine (Casuarina equisetifolia), and latherleaf (Asiatic coubrina) and all other species deemed undesirable by the Department. Vegetative debris shall be taken to a Department-approved upland disposal site. The 130,000 square foot area of shoreline shall be maintained exotic free for the life of the permit.
4. Turbidity screens shall be utilized and properly maintained during the permitted construction and shall remain in place until any generated turbidity subsides.
5. Spoil material shall be stored on uplands in such a manner as to prevent any run-off into waters of the State.
6. A filter cloth underliner shall be used for the riprap.
7. No riprap material shall be placed over or within a seagrass bed community.

Permittee: Naval Air Station Key West
File No. 442959285
Page 8 of 11

8. The riprap revetment may be constructed using the Armorflex Cellular Concrete Block Revetment System as shown on permit drawings sheets 6a - d.

9. The waterward toe of the riprap revetment shall extend no further than, a maximum of, 10 feet waterward of the mean high water line.

10. Within 30 days from the date the above construction is completed, the permittee shall plant;

a. sea purslane (Sesuvium portulacastrum) in the top three (3) rows of the open cell blocks, along the entire 1,800 linear feet of the riprap revetment (Armorflex Cellular Concrete Block Revetment System), and

b. red mangroves (Rhizophora mangle) seedlings along the revetment between stations 15+00 and 18+00 (approx. 300 linear feet). The mangroves shall be planted on three (3) foot staggered centers, in three (3) rows, with the waterward most row at elevation 0 and succeeding rows spaced 3 feet and 6 feet landward. The mangrove seedlings shall be at least eighteen (18) inches tall. The permittee shall guarantee an eighty percent (80%) survival rate over a continuous three (3) year period by replacing lost seedlings with nursery grown red mangroves seedlings and/or sea purslane. At the end of the 3 year period, the mangroves and sea purslane shall be alive, growing, and producing leaves, flowers, and fruit.

11. The permittee shall provide written notification to the Department's Marathon office (2796 Overseas Highway, Suite 221, Marathon, Florida 33050) within 72 hours of construction completion.

12. The project shall comply with applicable State Water Quality Standards of Chapters 62-302 and 62-4 F.A.C., namely:

62-302.500 - Minimum Criteria for All Waters at All Times and All Places

62-302.510 - Surface Waters: General Criteria.

62-302.560 - Criteria - Class III Waters - Recreation, Propagation and Management of Fish and Wildlife: Surface Waters.

62-4.242 - Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters; Equitable Abatement.

Note: In the event of an emergency, the permittee shall contact the Department by calling (904)413-9911. During normal business hours, the permittee shall call (941)332-6975.

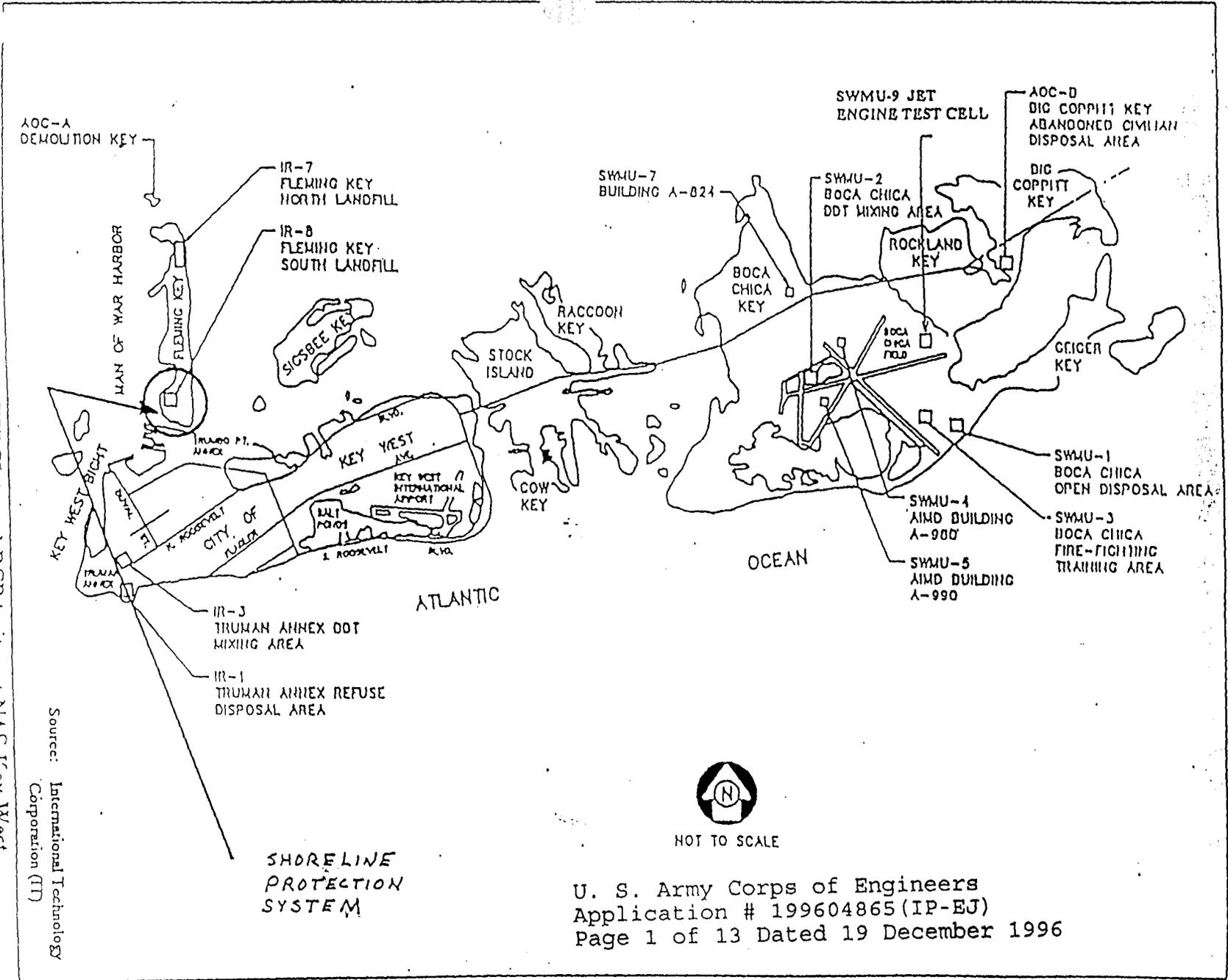


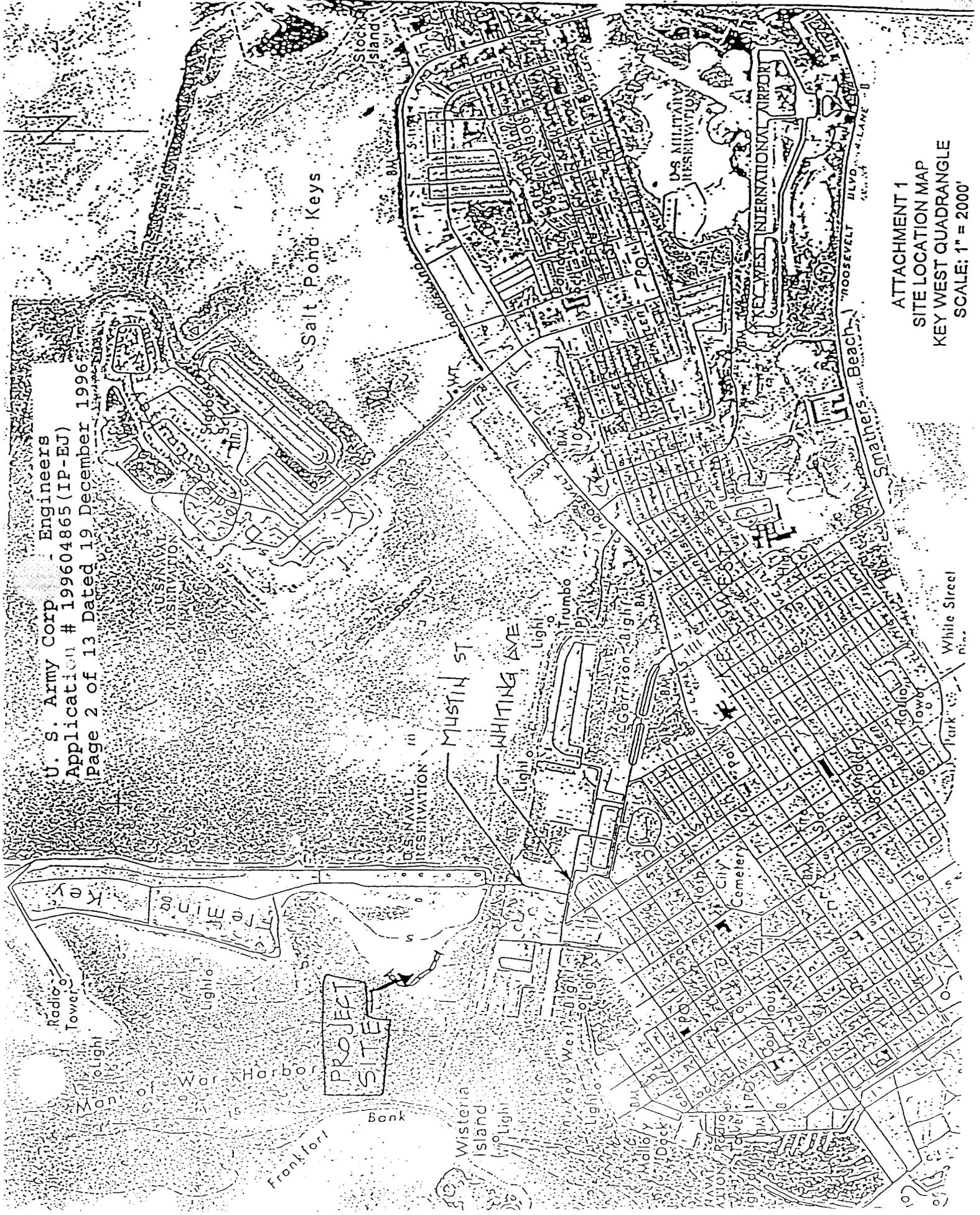
Figure 1-2 Locations of CERCLA and RCRA sites at NAS Key West

ATTACHMENT 1a

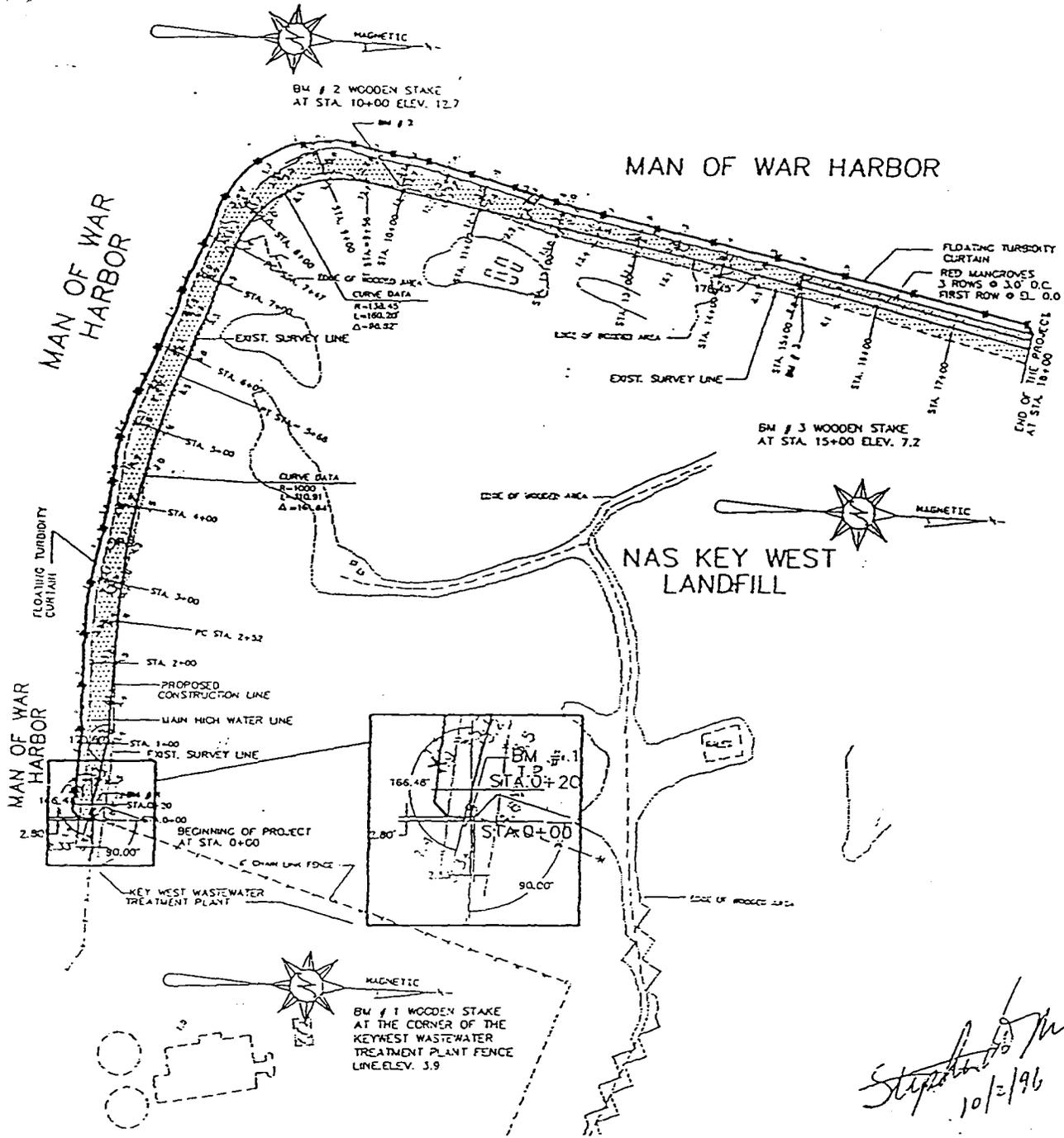
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U. S. Army Corp - Engineers
Application # 199604865 (IP-EJ)
Page 2 of 13 Dated 19 December 1996



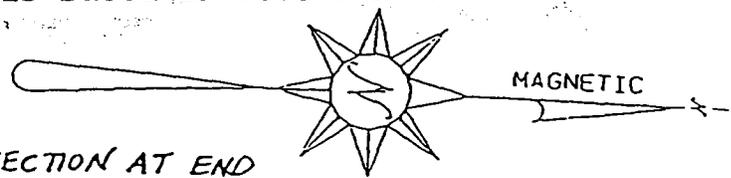
ATTACHMENT 1
SITE LOCATION MAP
KEY WEST QUADRANGLE
SCALE: 1" = 2000'



U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 3 of 13 Dated 19 December 1996

200 0 200
 SCALE : 1" = 200'

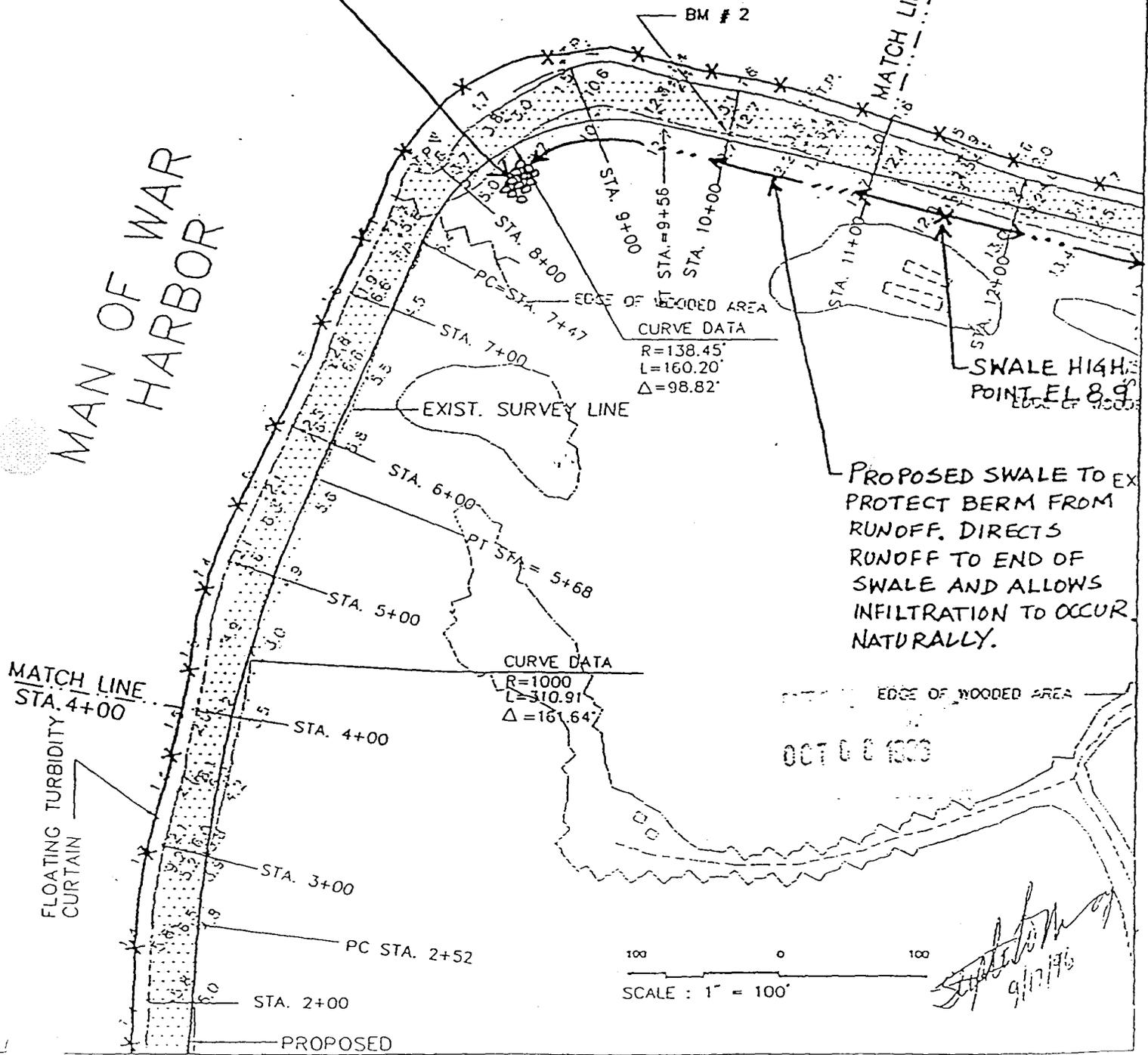
DESIGNER'S PROJECT NO.: 0953 DRAWN BY: DATE: 10/13/96	 DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-5514 FAX: (404) 872-5693	DRAWING TITLE:	SKETCH NO.:	
		ATTACHMENT 3a		
		SITE PLAN		
KEY WEST NAVAL STATION			OCT 08 1996	



RIP RAP
 EROSION PROTECTION AT END
 OF SWALE WHERE PYRAMAT
 STOPS.

BM # 2 WOODEN STAKE
 AT STA. 10+00 ELEV. 12.7

MAN OF WAR
 HARBOR



PROPOSED SWALE TO EX
 PROTECT BERM FROM
 RUNOFF. DIRECTS
 RUNOFF TO END OF
 SWALE AND ALLOWS
 INFILTRATION TO OCCUR
 NATURALLY.

DESIGNER'S PROJECT NO.:
 0053

DRAWN BY:
 N.S.

SSUE DATE:
 09/13/96

DHA
 DELON HAMPTON & ASSOCIATES
 600 WEST PEACHTREE ST. N.W.
 SUITE 1470
 ATLANTA, GA 30306
 TEL: (404) 872-5514 FAX: (404) 872-5603

DRAWING TITLE:
 ATTACHMENT 5a
 DRAINAGE PLAN
 KEY WEST NAVAL STATION

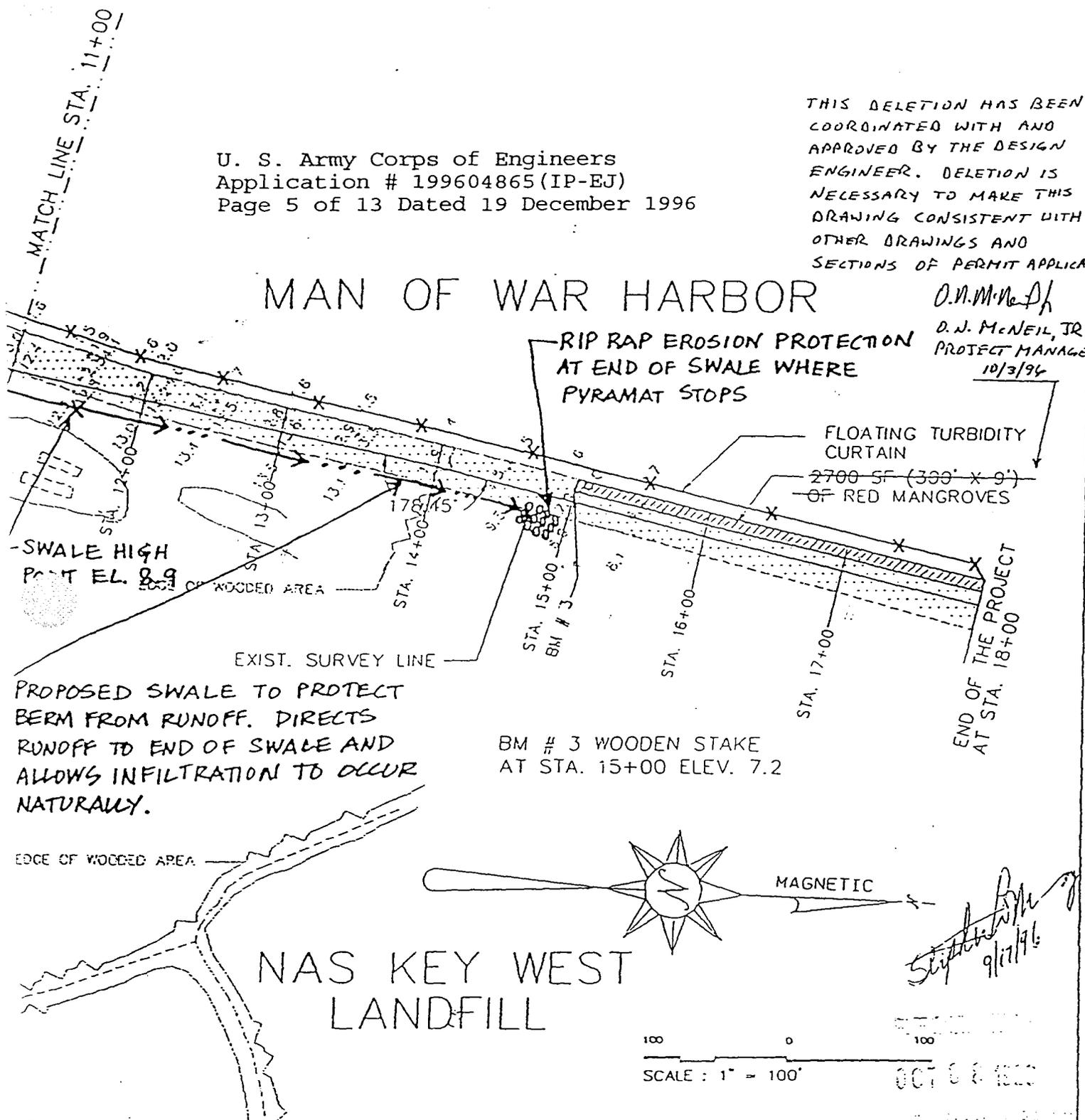
SKETCH NO.:

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 5 of 13 Dated 19 December 1996

THIS DELETION HAS BEEN
 COORDINATED WITH AND
 APPROVED BY THE DESIGN
 ENGINEER. DELETION IS
 NECESSARY TO MAKE THIS
 DRAWING CONSISTENT WITH
 OTHER DRAWINGS AND
 SECTIONS OF PERMIT APPLICATION

MAN OF WAR HARBOR

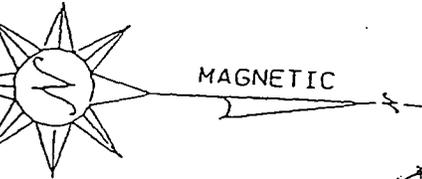
D. J. McNeil, Jr.
 D. J. McNEIL, JR.
 PROJECT MANAGER
 10/3/96



PROPOSED SWALE TO PROTECT
 BERM FROM RUNOFF. DIRECTS
 RUNOFF TO END OF SWALE AND
 ALLOWS INFILTRATION TO OCCUR
 NATURALLY.

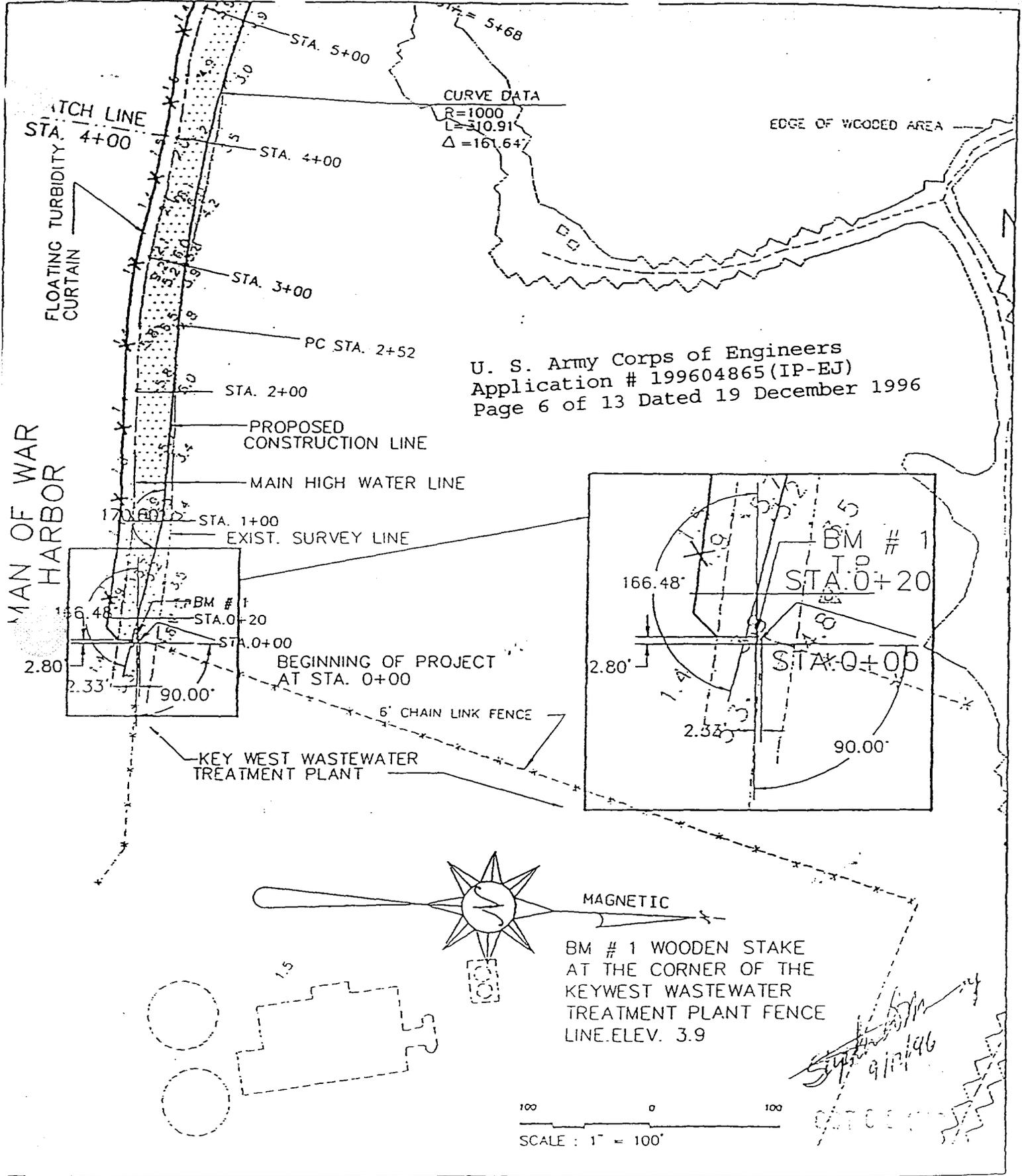
BM # 3 WOODEN STAKE
 AT STA. 15+00 ELEV. 7.2

NAS KEY WEST
 LANDFILL



100 0 100
 SCALE : 1" = 100'
 OCT 28 1996

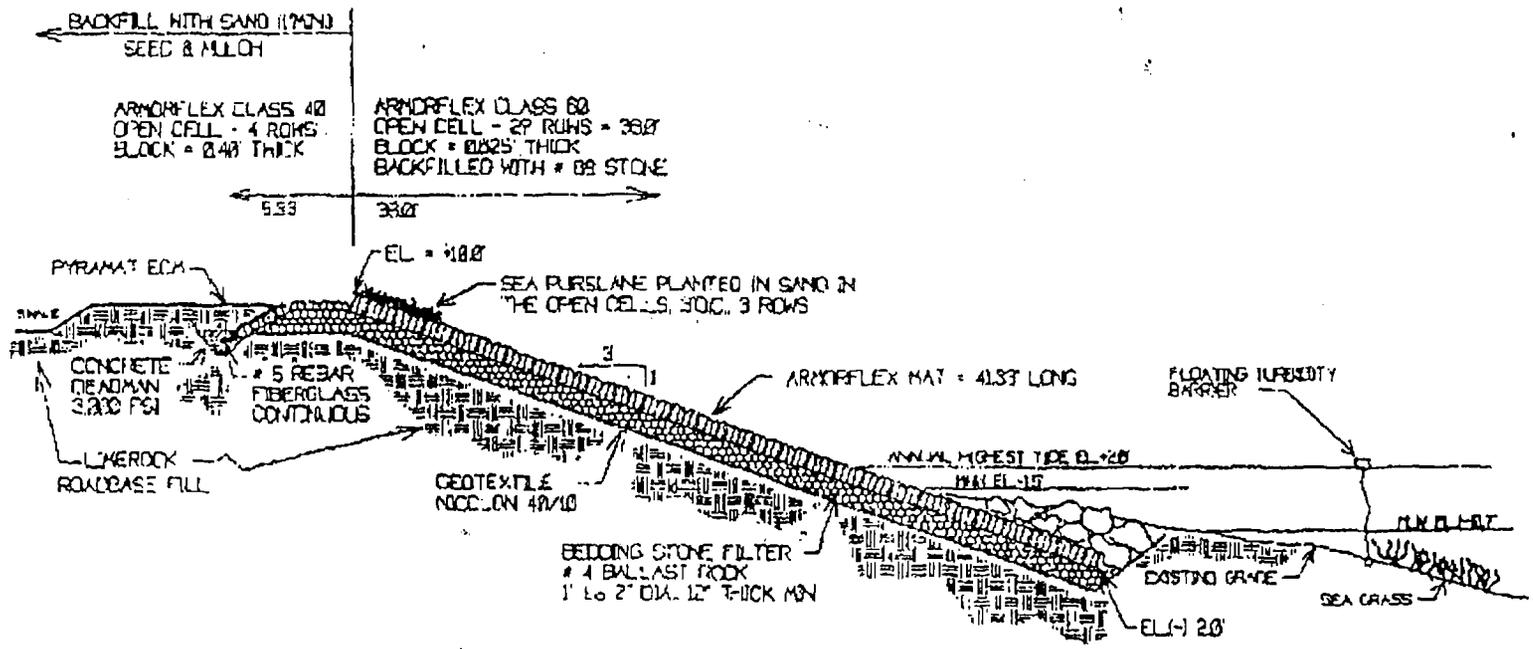
DATE: 3/96 DRAWN BY:	 DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-5514 FAX: (404) 872-5881	DRAWING TITLE: ATTACHMENT 5b DRAINAGE PLAN KEY WEST NAVAL STATION	SKETCH NO.:
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DESIGNER'S PROJECT NO. 0953	 DHA DELON HAMPTON & ASSOCIATES 000 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308	DRAWING TITLE: ATTACHMENT 3.b	SKETCH NO.:
DRAWN BY: M.S.		SITE PLAN	
ISSUE DATE: 09/13/96		KEY WEST NAVAL STATION	

COE # 1996-09865

JAN-20-97 01:00 AM



TYPICAL REVETMENT CROSS SECTION

HT B

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 7 of 13 Dated 19 December 1996

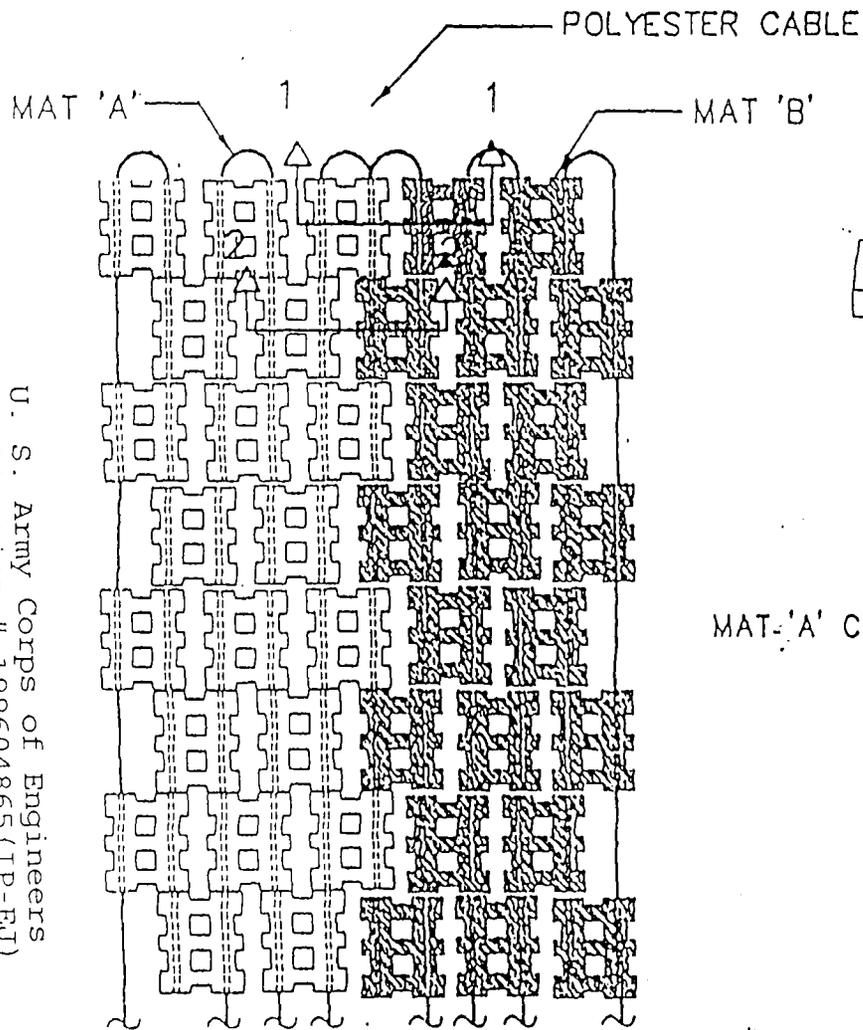
OCEAN BREEZE CONSTRUCTION CO., INC.
 CERTIFIED EROSION CONTROL SPECIALIST
 10278 RIVERSIDE DRIVE
 PALM BEACH GARDENS, FL 33410
 (561) 627-4407, FAX 627-4400

PROJECT: NAS-KEY WEST, IRB SHORE PROTECTION SYSTEM
 BECHTEL JOB NO.22567; NAVY JOB NO.N62467-93-D-0036
 RE: REVISED TYPICAL CROSS SECTION, " 3:1 SLOPE "
 ENGINEER: NELSON HAMPTON & ASSOCIATES

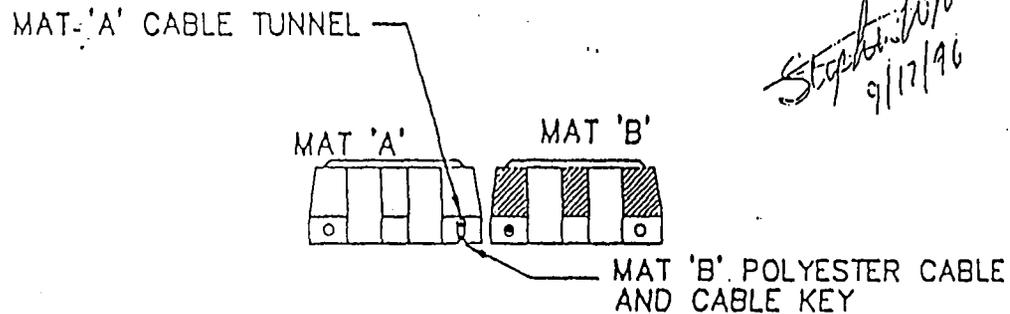
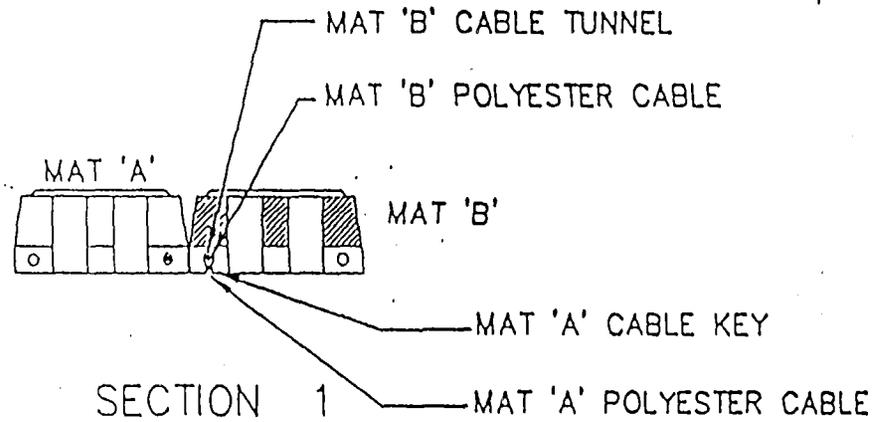
PAGE 1 of 4
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 FILE:NGCDKEYH2
 DATE: 1/23/97
 BY: AKH

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U. S. Army Corps of Engineers
Application # 199604865 (IP-EJ)
Page 8 of 13 Dated 19 December 1996



PLAN VIEW



SECTION 2

MAT CONNECTION CABLE KEY DETAIL

N.T.S.

Stephen [Signature]
9/17/96

001 0 0 0000

SEED AND MULCH TO
LIMIT OF DISTURBED AREA

ARMORFLEX
CLASS 40

1" TOPSOIL (MAX.)

PYRAMAT

ARMORFLEX
CLASS 60

BEDDING STONE

GEOTEXTILE
NICOLON 40/10
OR EQUAL

#5 FIBERGLASS REBAR
WITH CONC. DEADMAN
3000 PSI

COMPACTED FILL MATERIAL

U. S. Army Corps of Engineers
Application # 199604865 (IP-EJ)
Page 9 of 13 Dated 19 December 1996

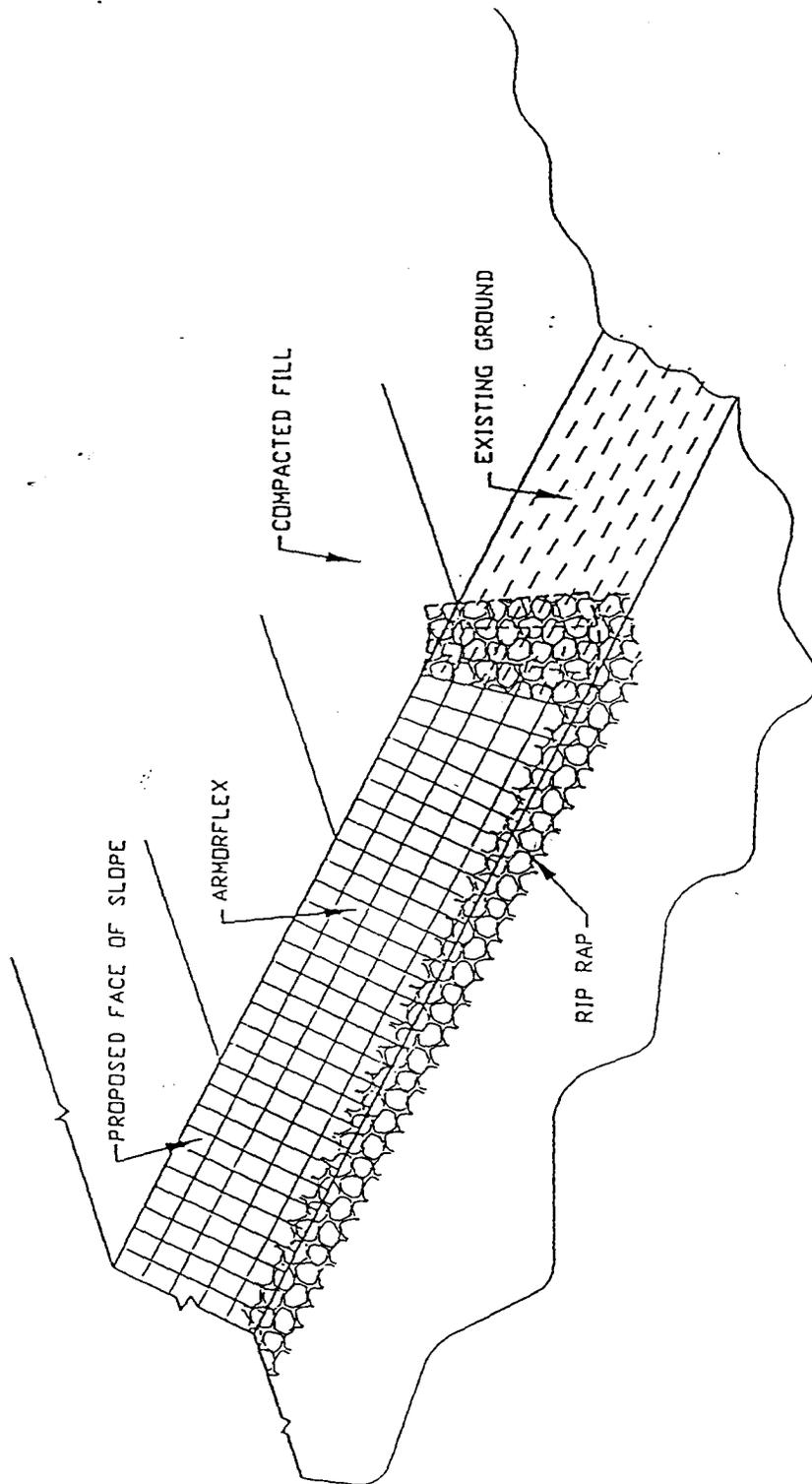
ANCHOR TRENCH DETAIL

N.T.S.

Stephen [Signature]
9/17/96

ATTACHMENT 6C

60103 03 003



Stephens
9/17/96

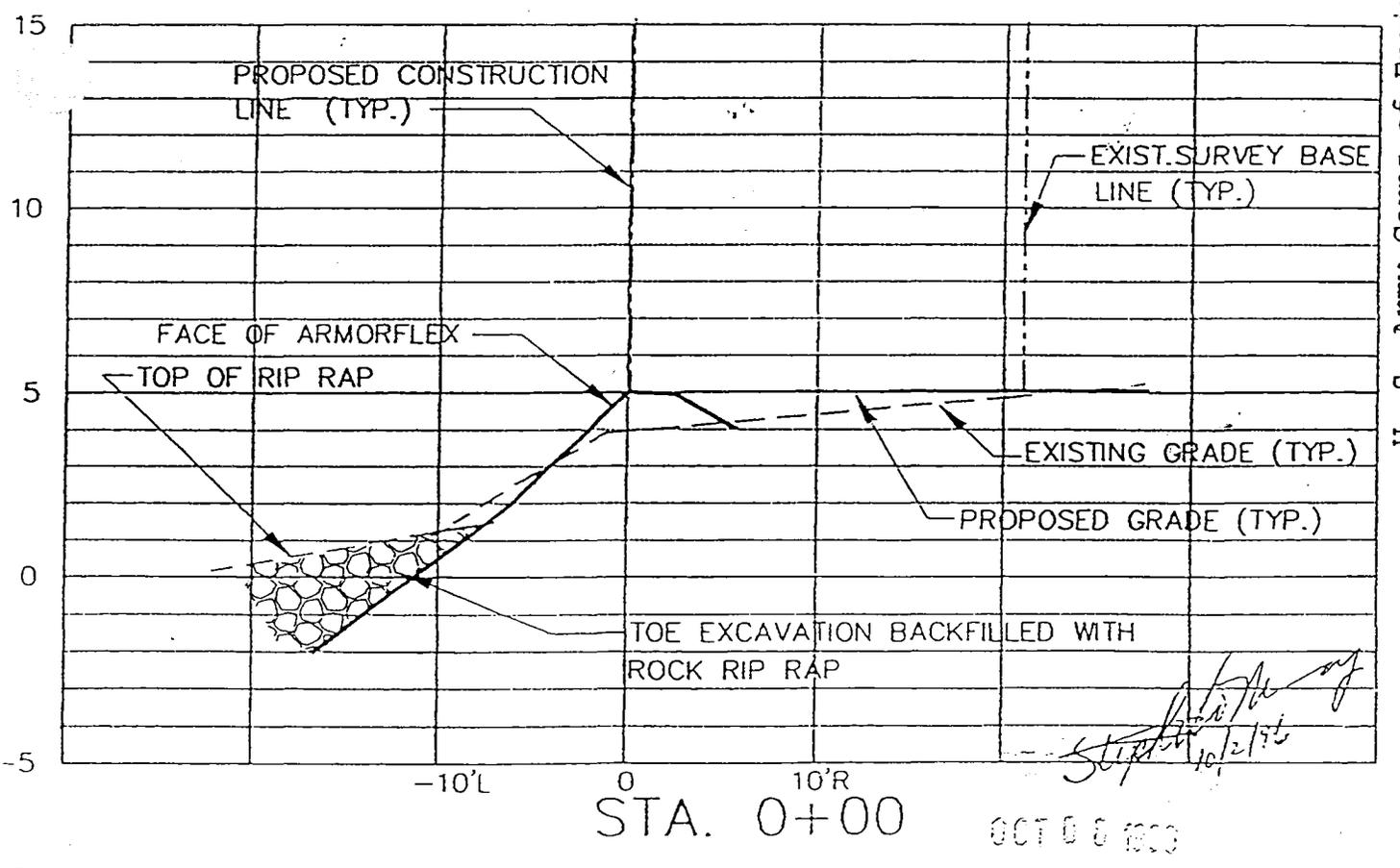
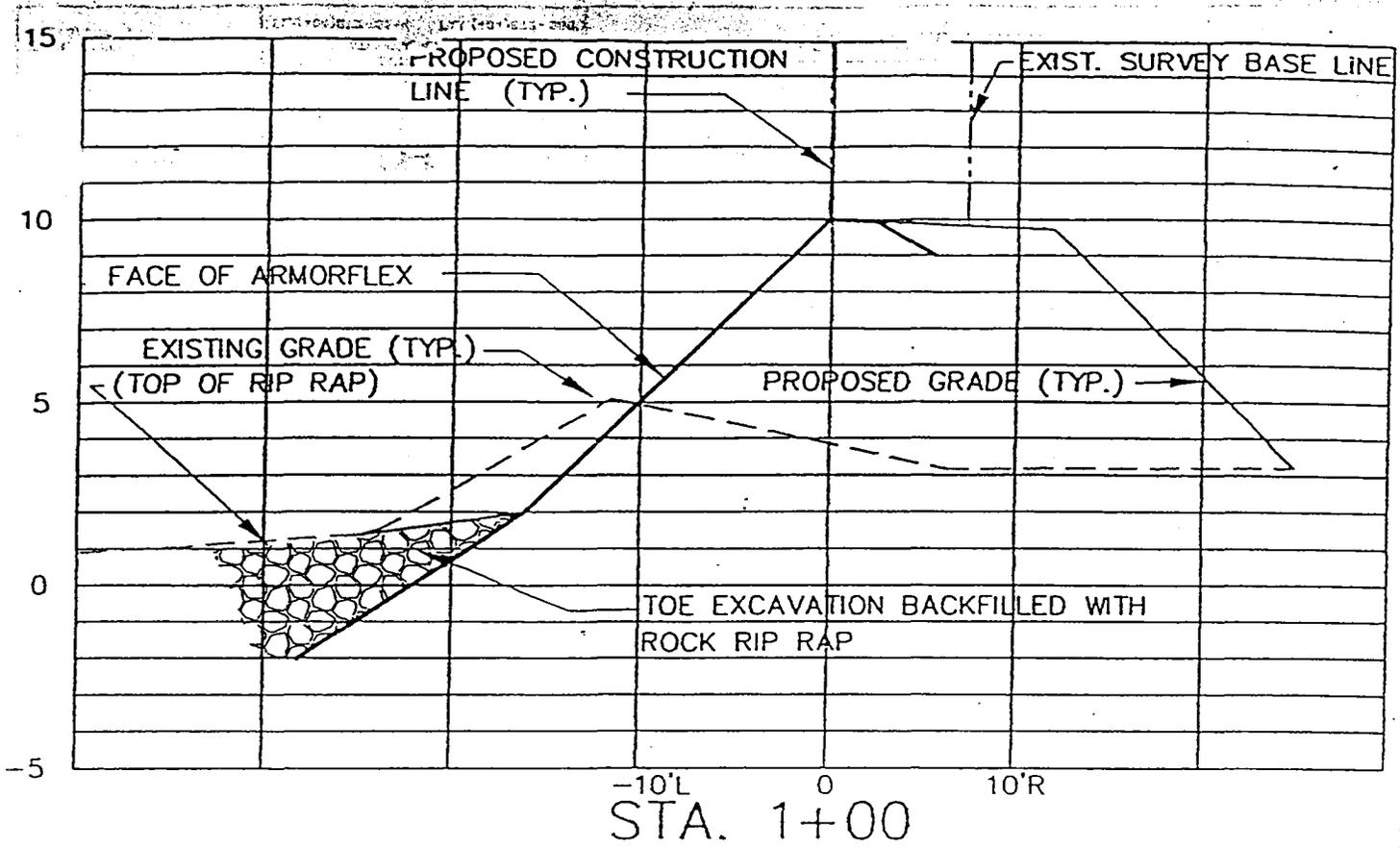
ENDROLL/SCOUR PROTECTION DETAIL

N.T.S.

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 10 of 13 Dated 19 December 1996

OCT 8 1996

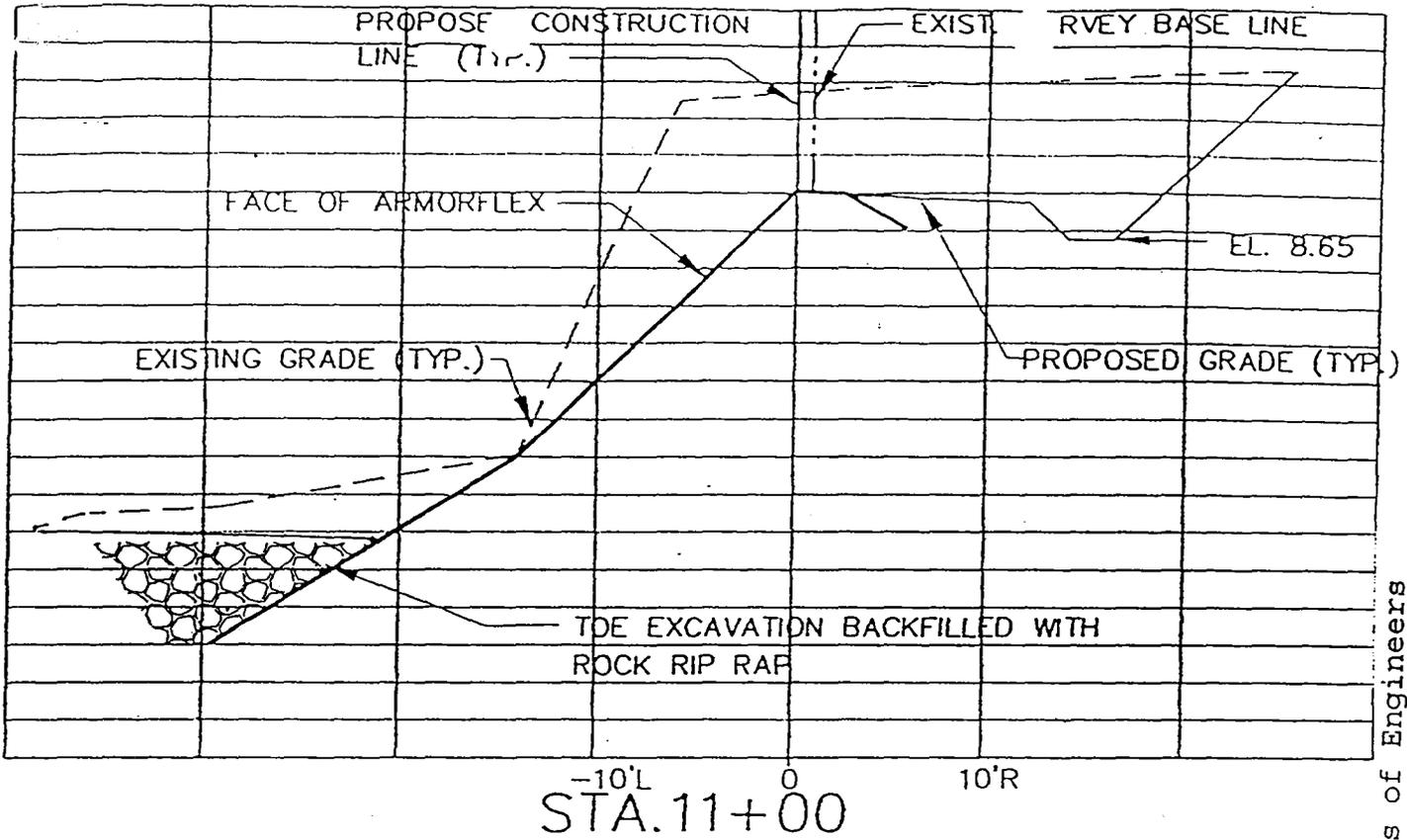
ATTACHMENT 1



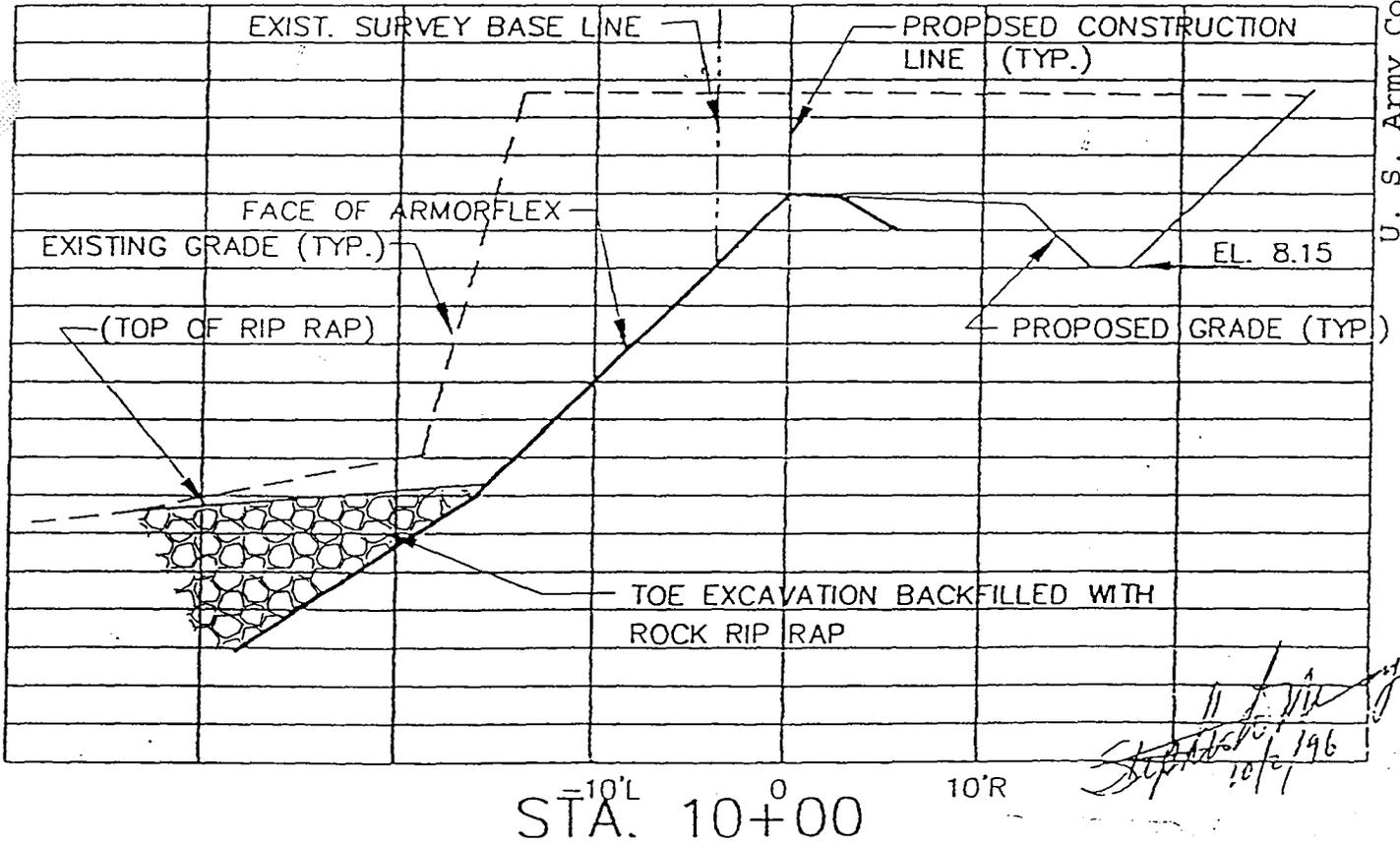
U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 11 of 13 Dated 19 December 1996

DESIGNER'S PROJECT NO.: 0900	 DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-5514 FAX: (404) 872-5883	DRAWING TITLE: ATTACHMENT B.1	SKETCH NO.:
DRAWN BY: M.S.		SCALE: 1"=10' H, 1"=5' V	
ISSUE DATE 09/13/06		KEY WEST NAVAL STATION	

15



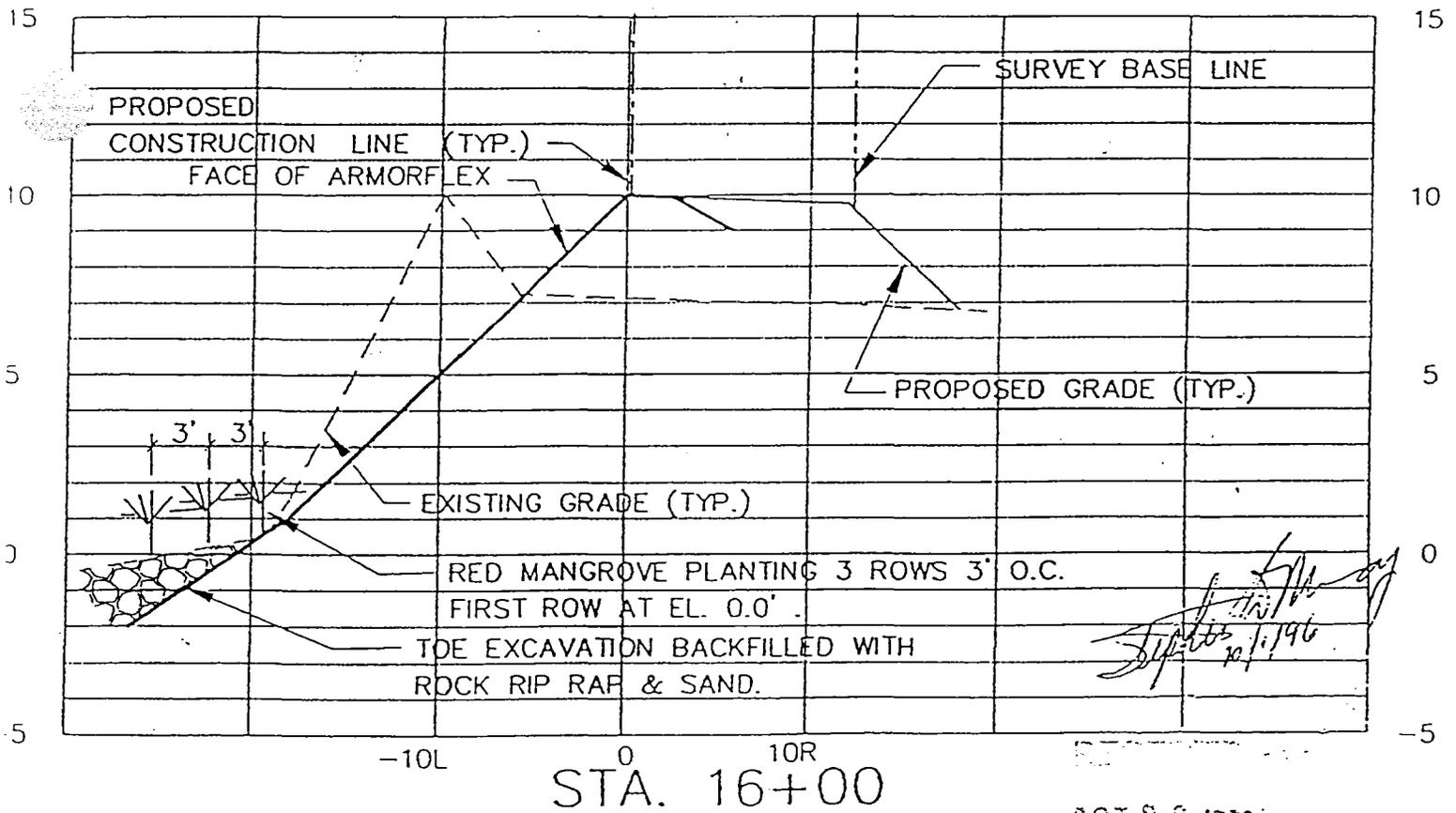
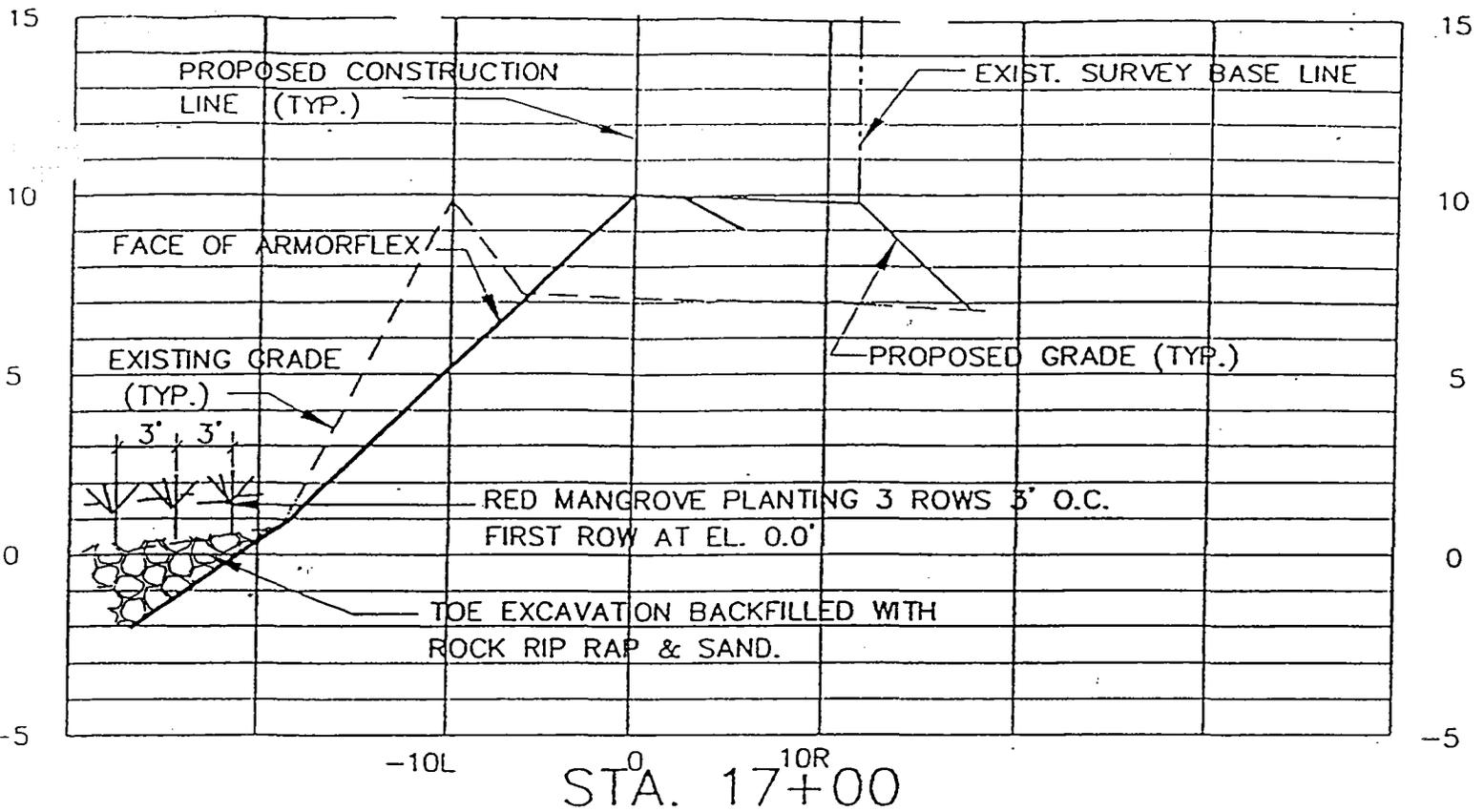
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U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 12 of 13 Dated 10 November 1996

Handwritten signature and date: 10/1/96

1 09 DRAWN BY: V.S. ISSUE DATE: 09/13/96	PROJECT NO.: <div style="text-align: center;">DHA</div> DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30300 TEL: (404) 872-5511 FAX: (404) 872-5802	DRAWING TITLE: ATTACHMENT 8.2 SCALE: 1"=10' H, 1"=5' V KEY WEST NAVAL STATION	SKETCH NO.: 0010815



OCT 8 1996

DESIGNER'S PROJECT NO: 0953	 DELON HAMPTON & ASSOCIATES	DRAWING TITLE: ATTACHMENT 8.3	SKETCH NO.:
DRAWN BY: U. S. Army Corps of Engineers Application # 199604865 (IP-EJ) ISSUE 00/13/		SCALE: 1"=10' H , 1"=5' V Y WEST NAVAL STATION	
Page 13 of 13 Dated 19 December 1996			

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


RON A. DEMES
(PERMITTEE) ENGINEERING DIRECTOR

4 MARCH 1997
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


(DISTRICT ENGINEER)
TERRY L. RICE
Colonel, U.S. Army

4 MAR 97
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE-SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

copy CESAJ-CO-RE if spec cond

This notice of authorization must be conspicuously displayed at the site of work

United States Army Corps of Engineers

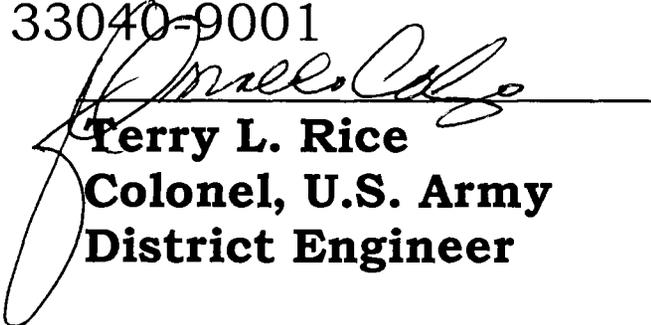
March 5, 1997

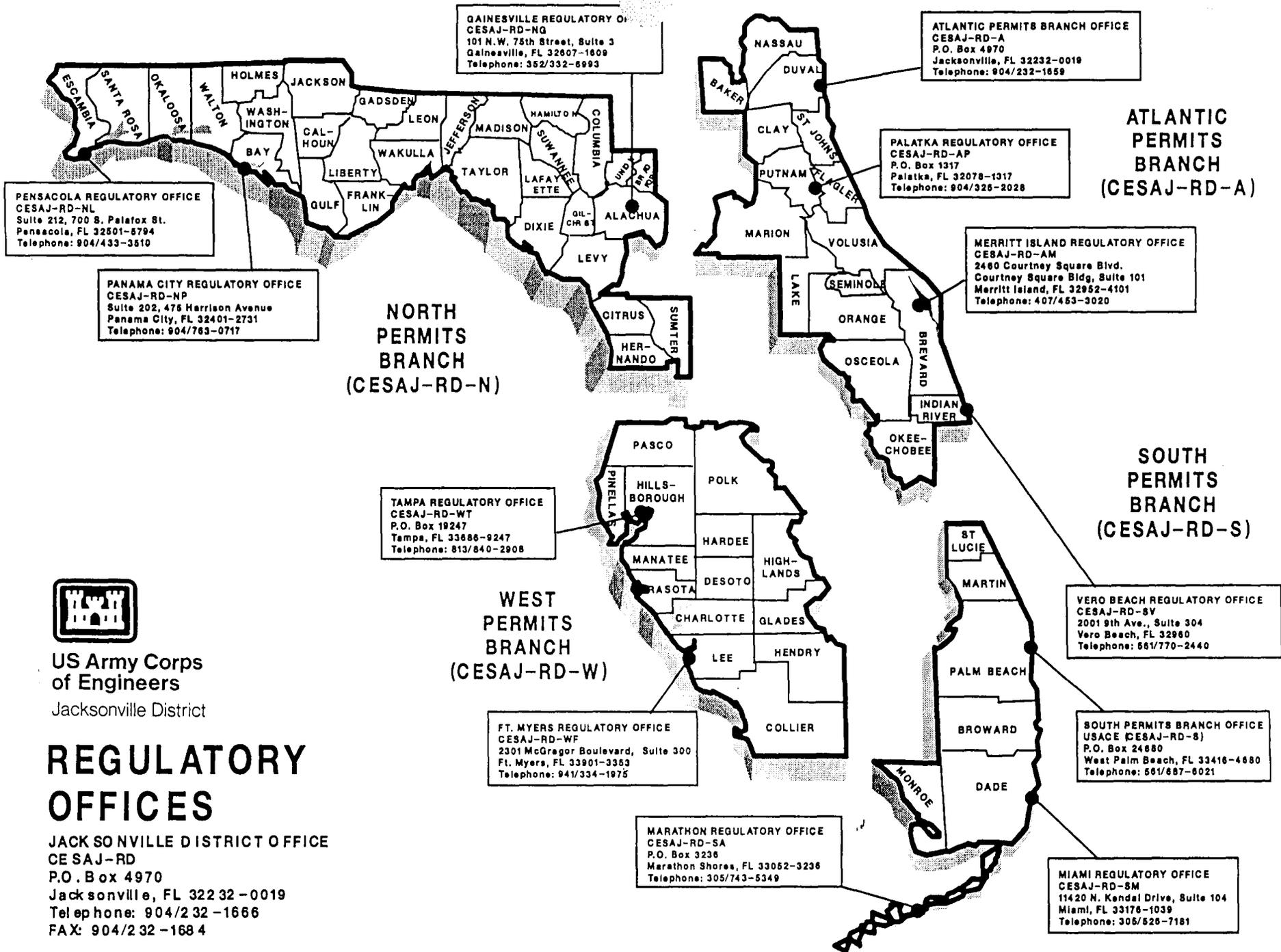
A permit to remove existing riprap and construct
1,800 linear feet of shoreline revetment impacting
0.3-acre of wetlands.

at Bay of Florida, Mustin Road, in Section 31,
Township 67 South, Range 25 East, Fleming Key, Monroe
County, Florida. Latitude 24°34'20"N., Longitude 81°47'58"W.
has been issued to Naval Air Station, Key West, Florida
on February 28, 1997

Address of Permittee: P. O. Box 9007, Naval Air Station,
Key West, Florida 33040-9001

199604865(IP-EJ)


Terry L. Rice
Colonel, U.S. Army
District Engineer



US Army Corps
of Engineers
Jacksonville District

REGULATORY OFFICES

JACKSONVILLE DISTRICT OFFICE
CESAJ-RD
P.O. Box 4970
Jacksonville, FL 32232-0019
Telephone: 904/232-1666
FAX: 904/232-1684



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

Spaul

REPLY TO
ATTENTION OF
Regulatory Division
South Permits Branch
199604865 (IP-EJ)

MAR 05 1997

Mr. O. N. McNeill, Jr.
Oak Ridge Corporate Center
151 Lafayette Drive
P. O. Box 350
Oak Ridge, Tennessee 37831-0350

Dear Mr. McNeill:

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- a. The date of commencement of the work
- b. The dates of work suspensions and resumptions if work is suspended over a week, and
- c. The date of final completion.

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IT IS NOT LAWFUL TO DEVIATE FROM
THE APPROVED PLANS ENCLOSED.

Sincerely,

John R. Hall
John R. Hall
Chief, Regulatory Division

Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee: NAVAL AIR STATION, KEY WEST, FLORIDA

Permit No. 199604865

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Remove existing riprap and construct 1,800 linear feet of shoreline revetment impacting 0.3-acre of wetlands. The project is described on the attached plans numbered 199604865(IP-EJ) in 13 sheets, dated December 19, 1996.

Project Location: In the Bay of Florida, Mustin Road, in Section 31, Township 67 South, Range 25 East, Fleming Key, Monroe County, Florida. Latitude 24°34'20"N., Longitude 81°47'58"W.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on FEB 28 2002. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

The permittee agrees to the following special conditions:

1. All work will be done landward of the existing sea-grass communities in order to avoid impacts to that resource.

2. Within 12 months from the date of permit issuance, remove exotic species such as Australian pine, Brazilian pepper, and leatherleaf from the 130,000 square foot construction area. The permittee will maintain the area free of exotic vegetation for a period of no less than 3 years.

3. Within 12 months from permit issuance, plant sea-purselane in the top 3 rows of the open Armorflex cell blocks along the entire 1,800-foot revetment. The permittee will guarantee the survival of 80% of the planted specimens for 3-years through replacement of lost specimens.

4. Within 12 months from permit issuance, plant red mangrove specimens at least 18 inches tall in 3-foot staggered centers along approximately 300 linear feet of shoreline between stations 15+00 and 18+00, with the waterward-most row at 0 elevation and successive rows spaced 3.5 feet landwards, and guarantee the survival of 80% of the planted specimens for 3-years through replacement of lost specimens.

5. The permittee will submit a yearly monitoring report to the Corps of Engineers on the vegetation planted and eradication carried out as a result of specific conditions 2, 3 and 4.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Permittee: Naval Air Station Key West
File No. 442959285
Page 7 of 11

17. Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample, and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate Department office.

19. The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIFIC CONDITIONS:

1. If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site the permittee shall immediately notify the district office and the Bureau of Historic Preservation, Division of Historical Resources, R.A. Gray Building, 500 S. Bronough St., Tallahassee, Florida 32399-0250.

2. The Department of Environmental Protection's Marathon office (2796 Overseas Highway, Suite 221, Marathon, Florida 33050) shall be notified in writing 48 hours prior to commencement of work.

3. Remove from the 130,000 square foot construction area identified on the permit drawings sheets 3B, 3C & 3D all exotic plants (e.g.) Brazilian pepper (Schinus terebinthifolius), punk tree (Melaleuca quinquenervia), Australian pine (Casuarina equisetifolia), and latherleaf (Asiatic coubrina) and all other species deemed undesirable by the Department. Vegetative debris shall be taken to a Department-approved upland disposal site. The 130,000 square foot area of shoreline shall be maintained exotic free for the life of the permit.

4. Turbidity screens shall be utilized and properly maintained during the permitted construction and shall remain in place until any generated turbidity subsides.

5. Spoil material shall be stored on uplands in such a manner as to prevent any run-off into waters of the State.

6. A filter cloth underliner shall be used for the riprap.

7. No riprap material shall be placed over or within a seagrass bed community.

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8. The riprap revetment may be constructed using the Armorflex Cellular Concrete Block Revetment System as shown on permit drawings sheets 6a - d.

9. The waterward toe of the riprap revetment shall extend no further than, a maximum of, 10 feet waterward of the mean high water line.

10. Within 30 days from the date the above construction is completed, the permittee shall plant;

a. sea purslane (Sesuvium portulacastrum) in the top three (3) rows of the open cell blocks, along the entire 1,800 linear feet of the riprap revetment (Armorflex Cellular Concrete Block Revetment System), and

b. red mangroves (Rhizophora mangle) seedlings along the revetment between stations 15+00 and 18+00 (approx. 300 linear feet). The mangroves shall be planted on three (3) foot staggered centers, in three (3) rows, with the waterward most row at elevation 0 and succeeding rows spaced 3 feet and 6 feet landward. The mangrove seedlings shall be at least eighteen (18) inches tall. The permittee shall guarantee an eighty percent (80%) survival rate over a continuous three (3) year period by replacing lost seedlings with nursery grown red mangroves seedlings and/or sea purslane. At the end of the 3 year period, the mangroves and sea purslane shall be alive, growing, and producing leaves, flowers, and fruit.

11. The permittee shall provide written notification to the Department's Marathon office (2796 Overseas Highway, Suite 221, Marathon, Florida 33050) within 72 hours of construction completion.

12. The project shall comply with applicable State Water Quality Standards of Chapters 62-302 and 62-4 F.A.C., namely:

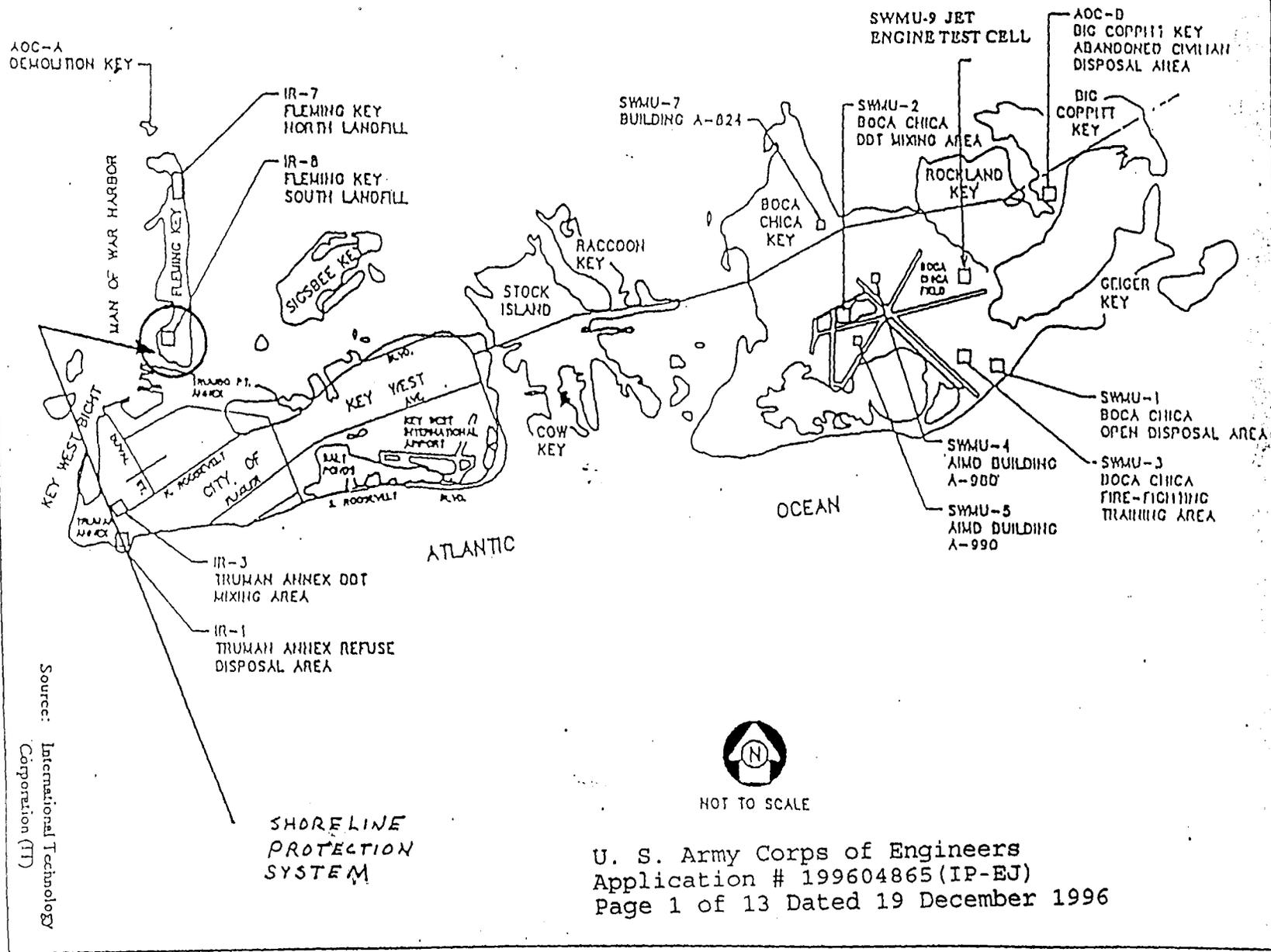
62-302.500 - Minimum Criteria for All Waters at All Times and All Places

62-302.510 - Surface Waters: General Criteria.

62-302.560 - Criteria - Class III Waters - Recreation, Propagation and Management of Fish and Wildlife: Surface Waters.

62-4.242 - Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters; Equitable Abatement.

Note: In the event of an emergency, the permittee shall contact the Department by calling (904)413-9911. During normal business hours, the permittee shall call (941)332-6975.



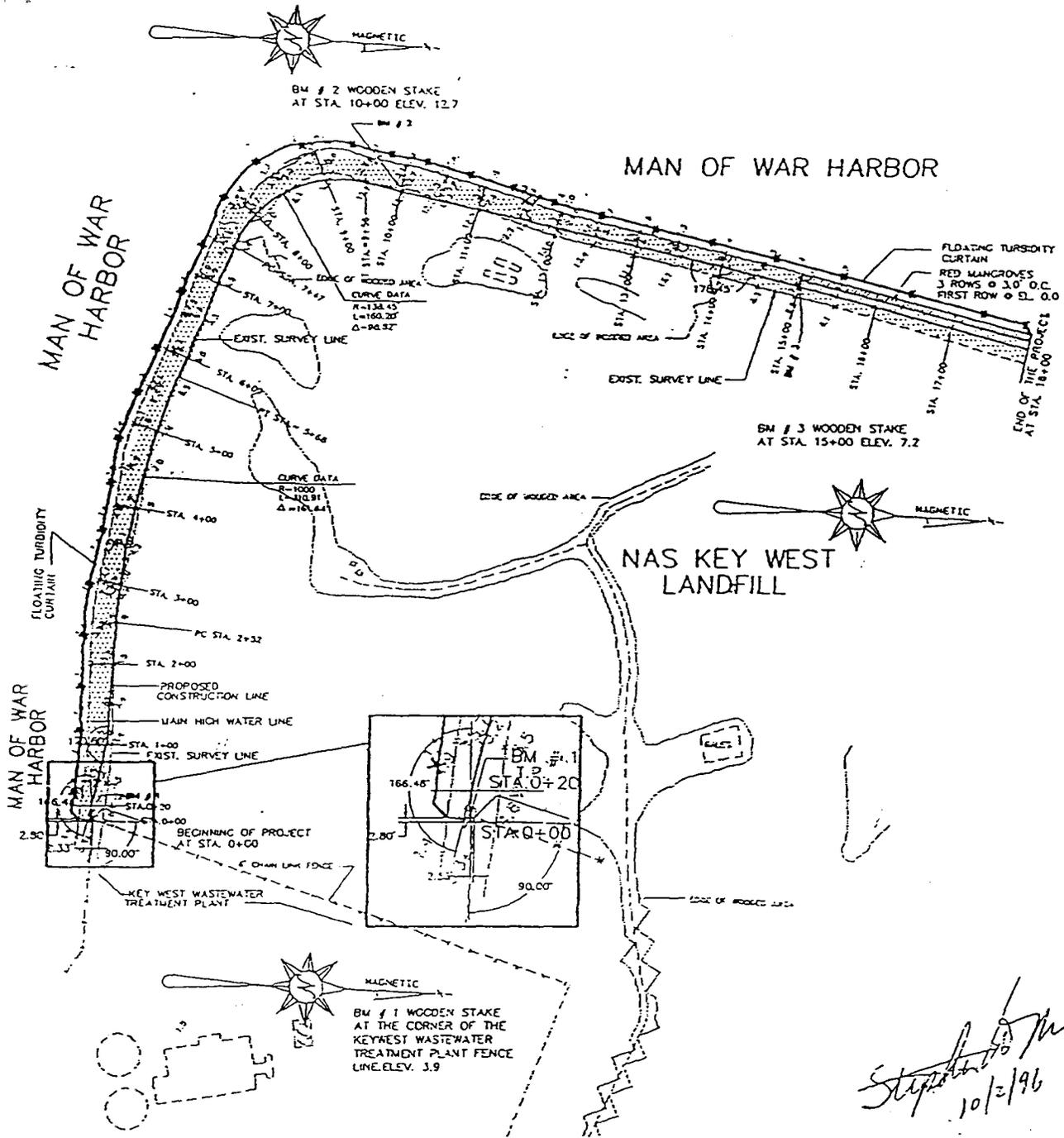
Source: International Technology Corporation (IT)



U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 1 of 13 Dated 19 December 1996

Figure 1-2 Locations of CERCLA and RCRA sites at NAS Key West

ATTACHMENT 1a

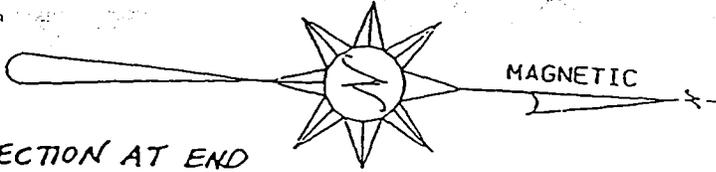


Stephen J. May
10/2/96

U. S. Army Corps of Engineers
Application # 199604865(IP-EJ)
Page 3 of 13 Dated 19 December 1996

200 0 200
SCALE : 1" = 200'

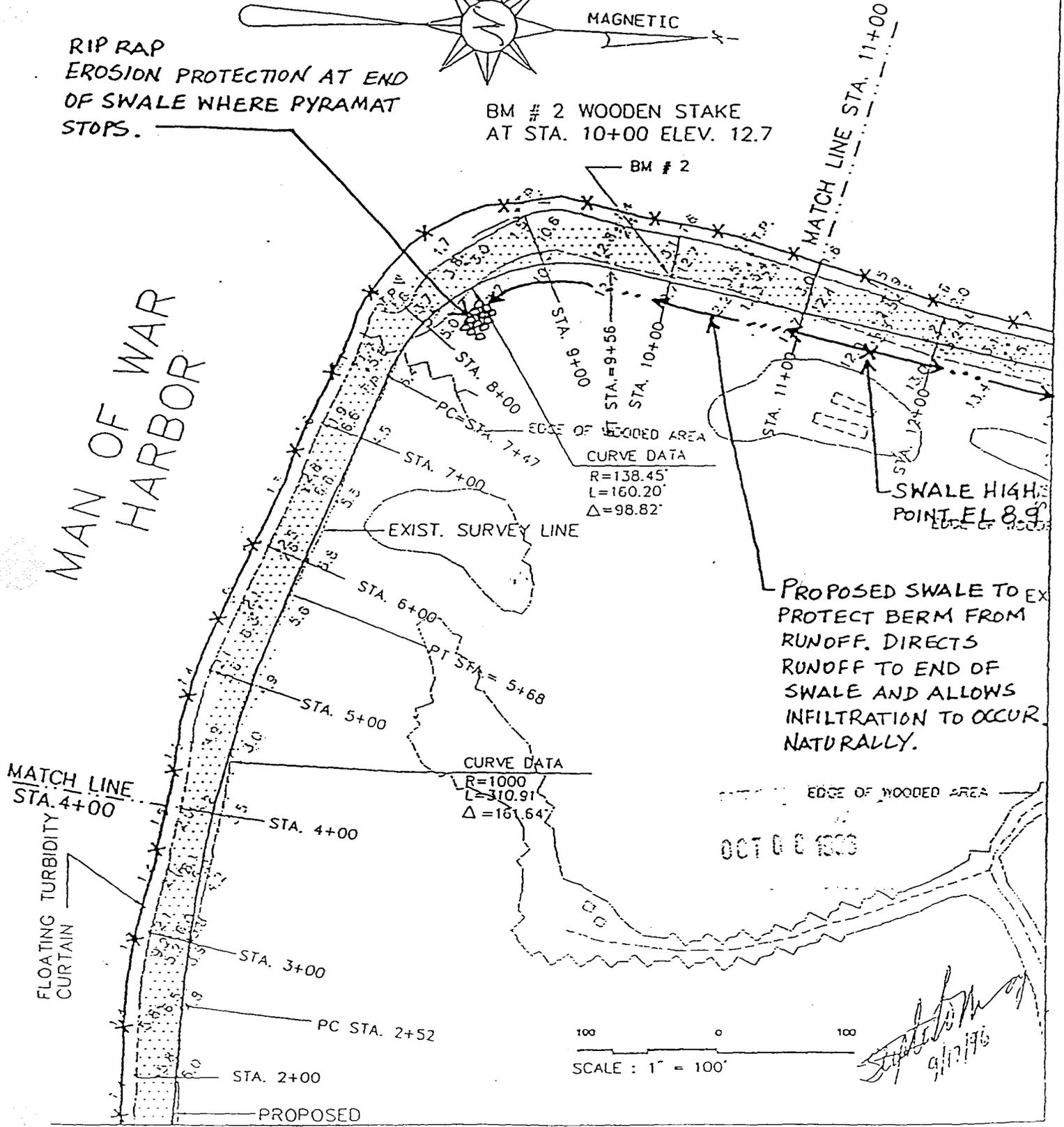
DESIGNER'S PROJECT NO.: 0653 DRAWN BY: DATE: 09/13/96	 DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-5314 FAX: (404) 872-5693	DRAWING TITLE: ATTACHMENT 3a	SKETCH NO.: OCT 02 1996
		SITE PLAN	
		KEY WEST NAVAL STATION	



RIP RAP
 EROSION PROTECTION AT END
 OF SWALE WHERE PYRAMAT
 STOPS.

BM # 2 WOODEN STAKE
 AT STA. 10+00 ELEV. 12.7

MAN OF WAR
 HARBOR



PROPOSED SWALE TO EX
 PROTECT BERM FROM
 RUNOFF. DIRECTS
 RUNOFF TO END OF
 SWALE AND ALLOWS
 INFILTRATION TO OCCUR
 NATURALLY.

OCT 0 0 1996

[Handwritten signature]
 9/17/96

DESIGNER'S PROJECT NO.:
 0053

DRAWN BY:
 M.S.

ISSUE DATE:
 09/13/96



DELON HAMPTON & ASSOCIATES

600 WEST PEACHTREE ST. N.W.
 SUITE 1470
 ATLANTA, GA 30308

TEL: (404) 872-3514 FAX: (404) 872-3663

DRAWING TITLE:

ATTACHMENT 5a

DRAINAGE PLAN

KEY WEST NAVAL STATION

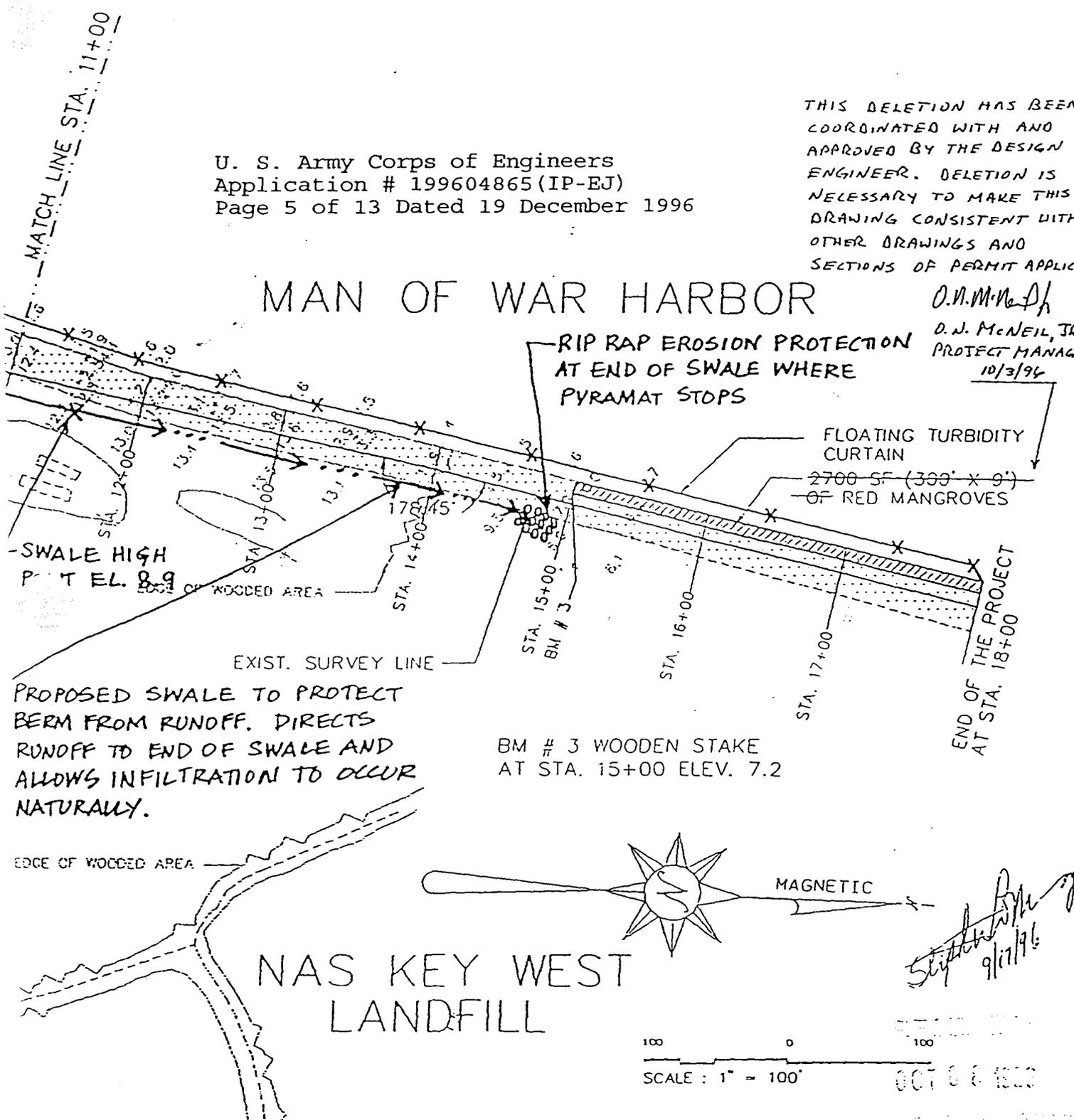
SKETCH NO.:

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 5 of 13 Dated 19 December 1996

THIS DELETION HAS BEEN COORDINATED WITH AND APPROVED BY THE DESIGN ENGINEER. DELETION IS NECESSARY TO MAKE THIS DRAWING CONSISTENT WITH OTHER DRAWINGS AND SECTIONS OF PERMIT APPLICATION

MAN OF WAR HARBOR

D.N. McNeil, Jr.
 D.N. McNEIL, JR.
 PROJECT MANAGER
 10/3/96

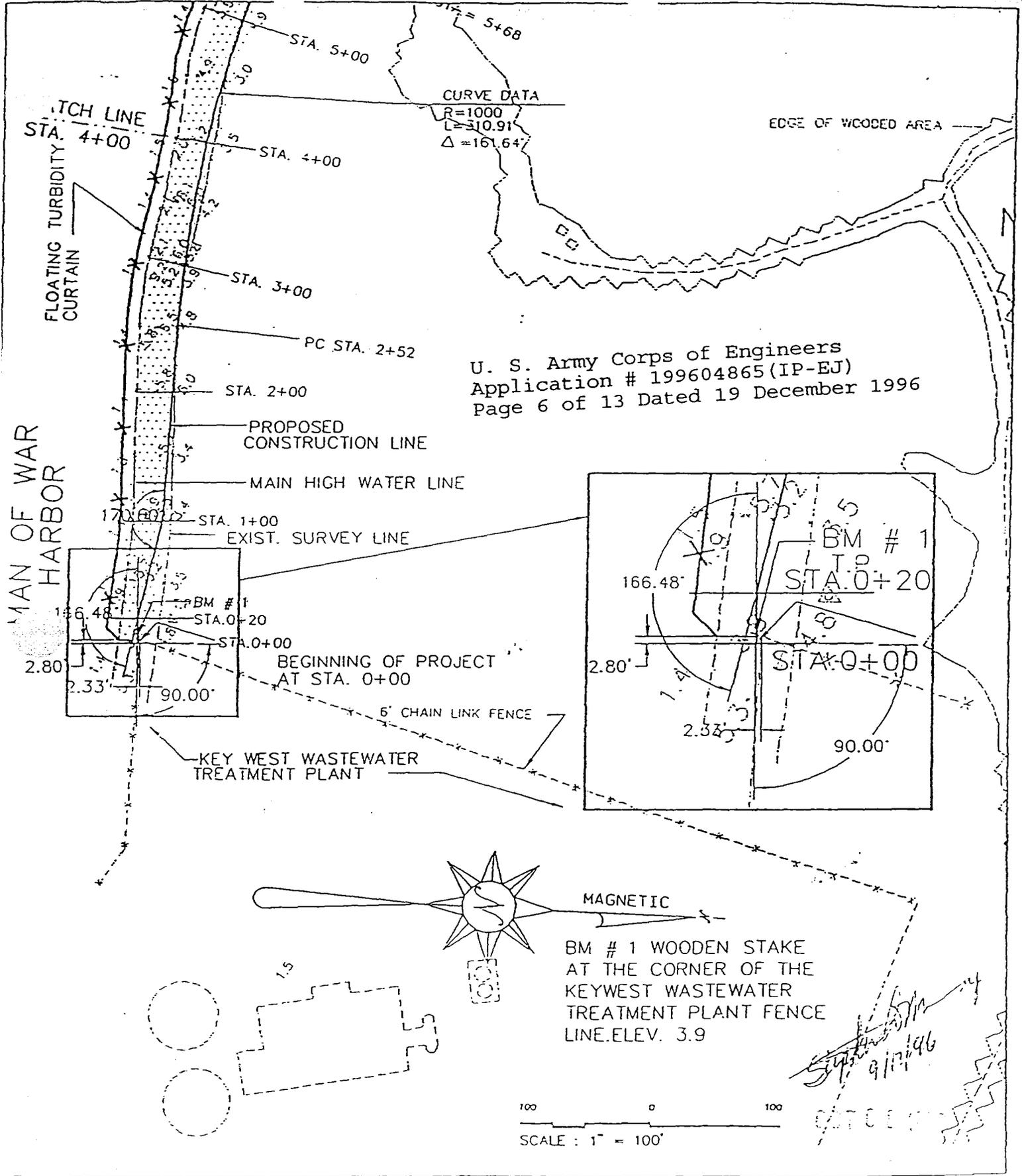


PROPOSED SWALE TO PROTECT BERM FROM RUNOFF. DIRECTS RUNOFF TO END OF SWALE AND ALLOWS INFILTRATION TO OCCUR NATURALLY.

BM # 3 WOODEN STAKE AT STA. 15+00 ELEV. 7.2

NAS KEY WEST LANDFILL

PROJECT NO.:	DHA	DRAWING TITLE:	ATTACHMENT 5b	SKETCH NO.:
DESIGNED BY:	DELON HAMPTON & ASSOCIATES		DRAINAGE PLAN	
DATE:	600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30338 TEL: (404) 872-5514 FAX: (404) 872-5883		KEY WEST NAVAL STATION	



U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
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MAN OF WAR
 HARBOR

BM # 1 WOODEN STAKE
 AT THE CORNER OF THE
 KEYWEST WASTEWATER
 TREATMENT PLANT FENCE
 LINE. ELEV. 3.9

100 0 100
 SCALE : 1" = 100'

Supervisor
 9/17/96

DESIGNER'S PROJECT NO.:
 0953

DRAWN BY:
 W.S.

ISSUE DATE:
 09/13/96

DHA
 DELON HAMPTON & ASSOCIATES
 600 WEST PEACHTREE ST. N.W.
 SUITE 1470
 ATLANTA, GA 30308

DRAWING TITLE:

ATTACHMENT 3.b

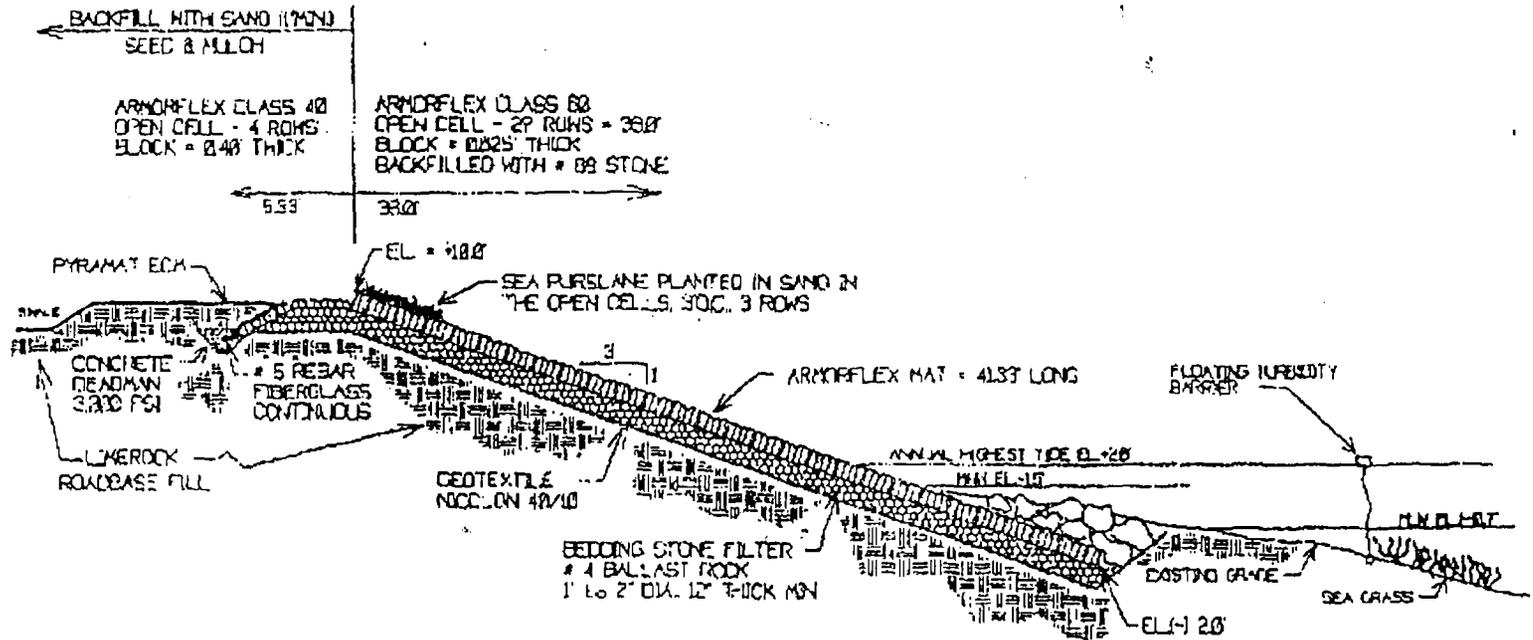
SITE PLAN

KEY WEST NAVAL STATION

SKETCH NO.:

COE # 1996-04865

JAN-23-97 01:00 AM



TYPICAL REVETMENT CROSS SECTION

NRB

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 7 of 13 Dated 19 December 1996

OCEAN BREEZE CONSTRUCTION CO., INC.
 CERTIFIED EROSION CONTROL SPECIALIST
 18278 RIVERSIDE DRIVE
 PALM BEACH GARDENS, FL 33410
 (561) 627-4487, FAX 627-4480

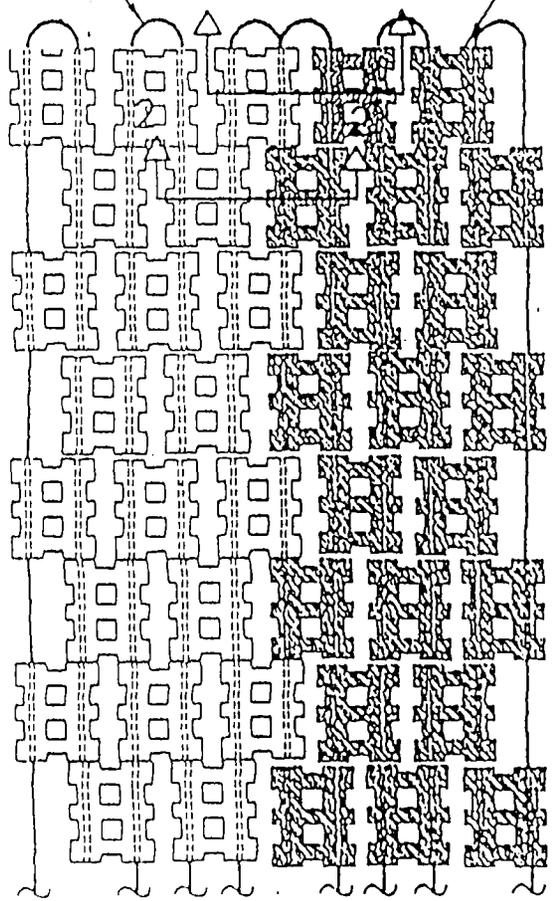
PROJECT: NAS-KEY WEST, IIRB SHORE PROTECTION SYSTEM
 BECHTEL JOB NO.22567; NAVY JOB NO.N62467-93-D-0036
 RE: REVISED TYPICAL CROSS SECTION - 3:1 SLOPE -
 ENGINEER: DELON HAMPTON & ASSOCIATES

PAGE 1 of 4
 SCALE: N.T.S.

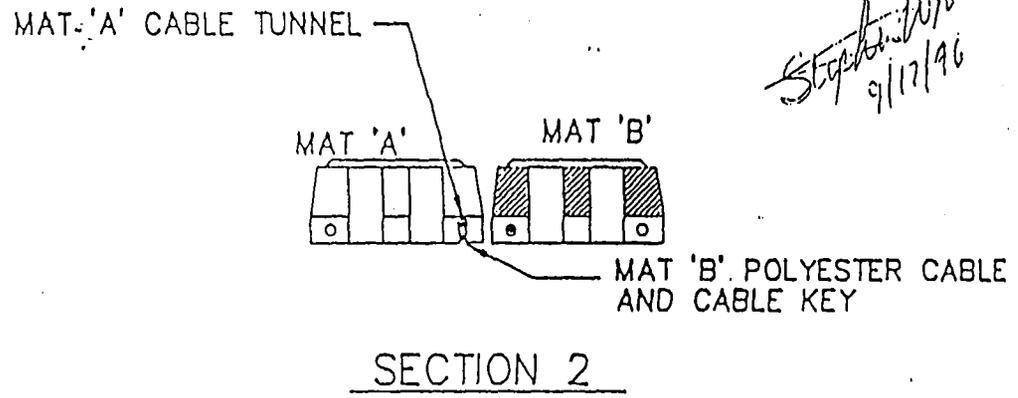
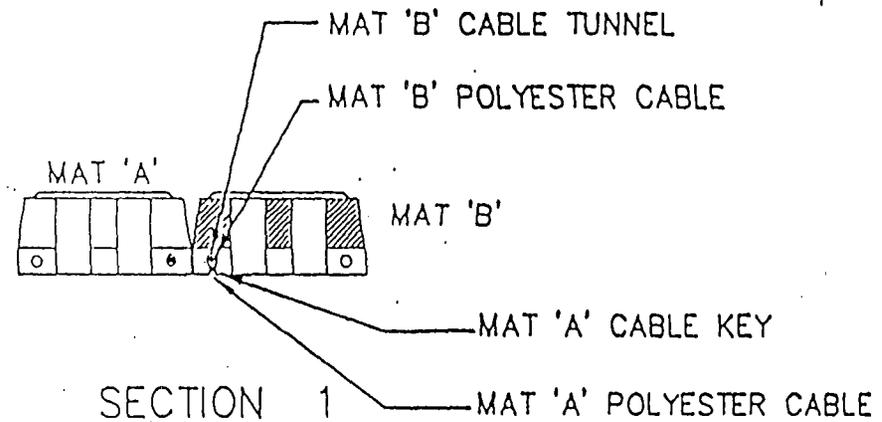
FILE:NGCONKEYR2
 DATE: 1/23/97
 BY: AKH

7-00

POLYESTER CABLE
 MAT 'A'
 MAT 'B'



PLAN VIEW



Stephen Kim
 9/17/96

MAT CONNECTION CABLE KEY DETAIL

N.T.S.

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 8 of 13 Dated 19 December 1996

00100000

SEED AND MULCH TO
LIMIT OF DISTURBED AREA

ARMORFLEX
CLASS 40

1" TOPSOIL (MAX.)

PYRAMAT

ARMORFLEX
CLASS 60

BEDDING STONE

GEOTEXTILE
NICOLON 40/10
OR EQUAL

#5 FIBERGLASS REBAR
WITH CONC. DEADMAN
3000 PSI

COMPACTED FILL MATERIAL

U. S. Army Corps of Engineers
Application # 199604865 (IP-EJ)
Page 9 of 13 Dated 19 December 1996

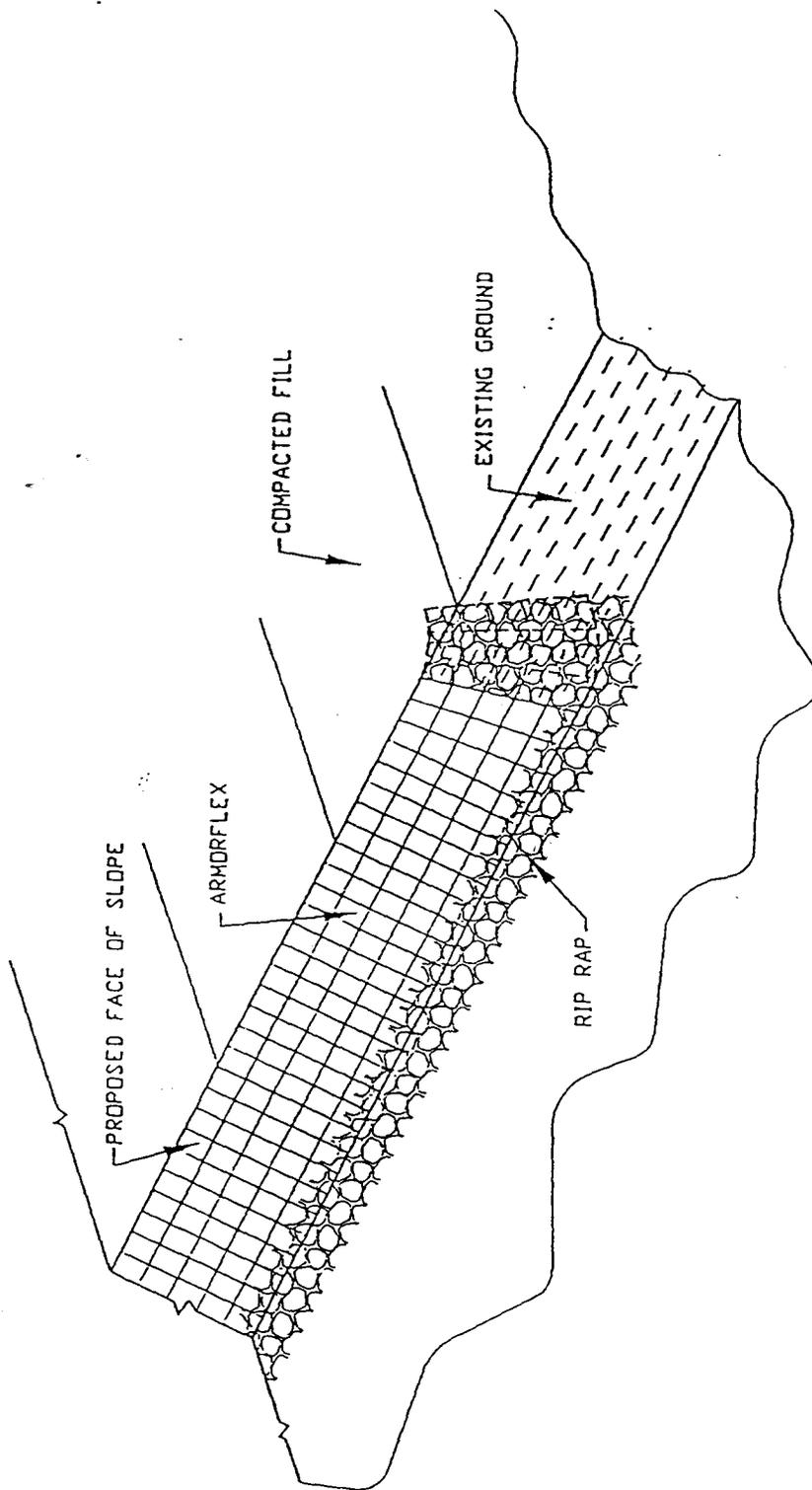
ANCHOR TRENCH DETAIL

N.T.S.

Stephen M. King
9/17/96

ATTACHMENT 6C

607000000



Supervisor
 9/17/96

ENDROLL/SCOUR PROTECTION DETAIL

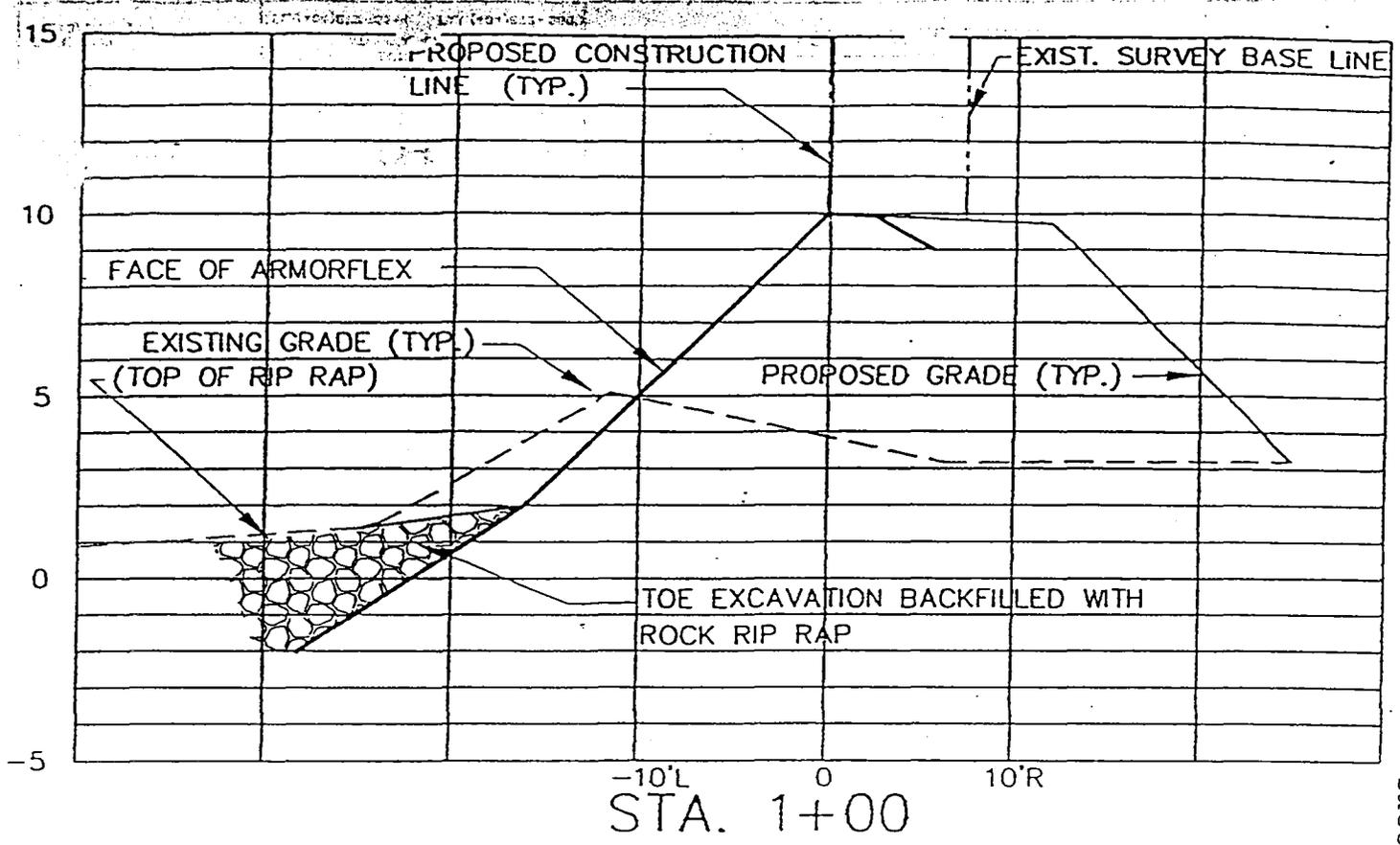
N.T.S.

U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
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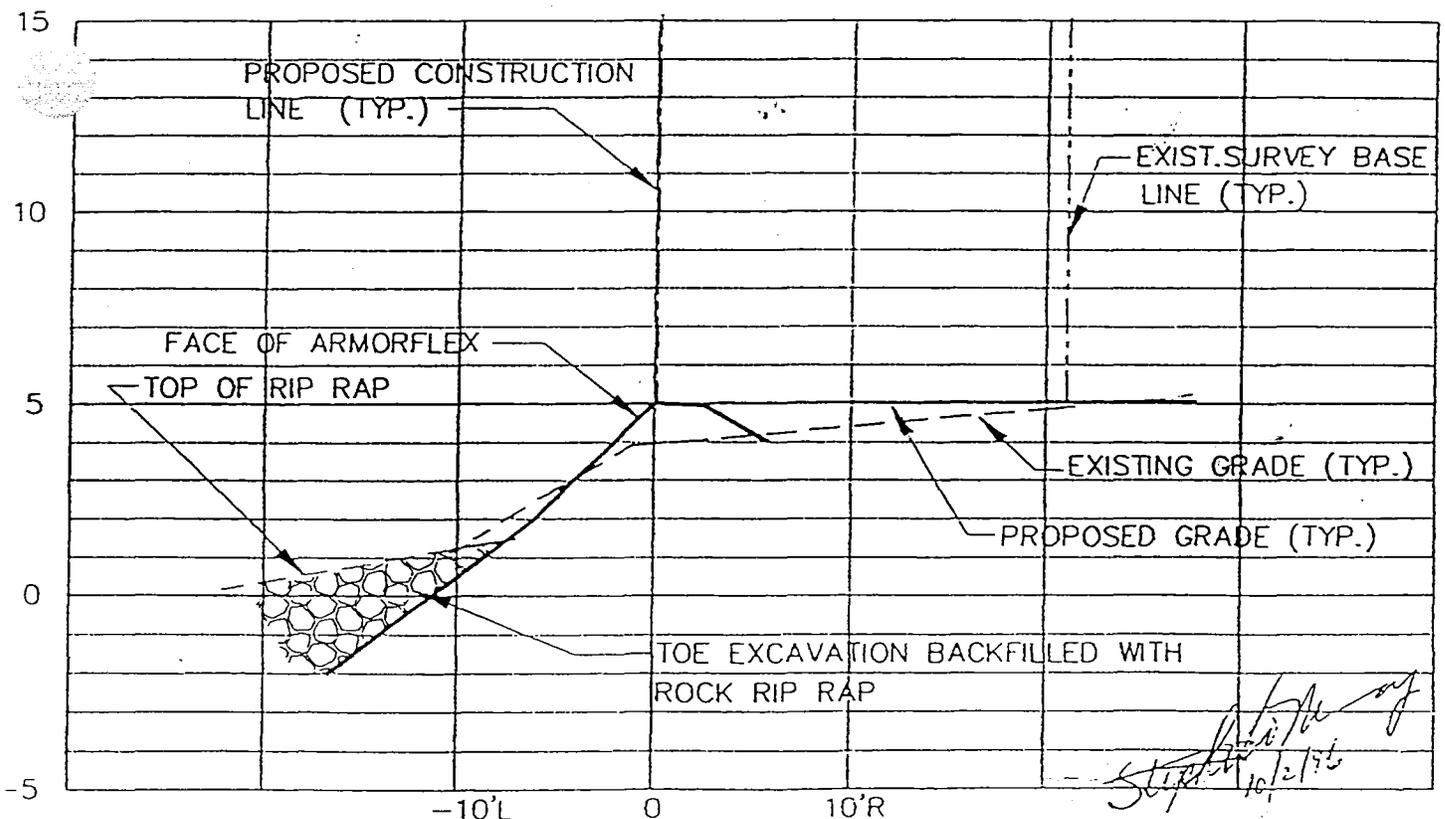
OCT 0 8 1996

ict

Attachment 1



STA. 1+00



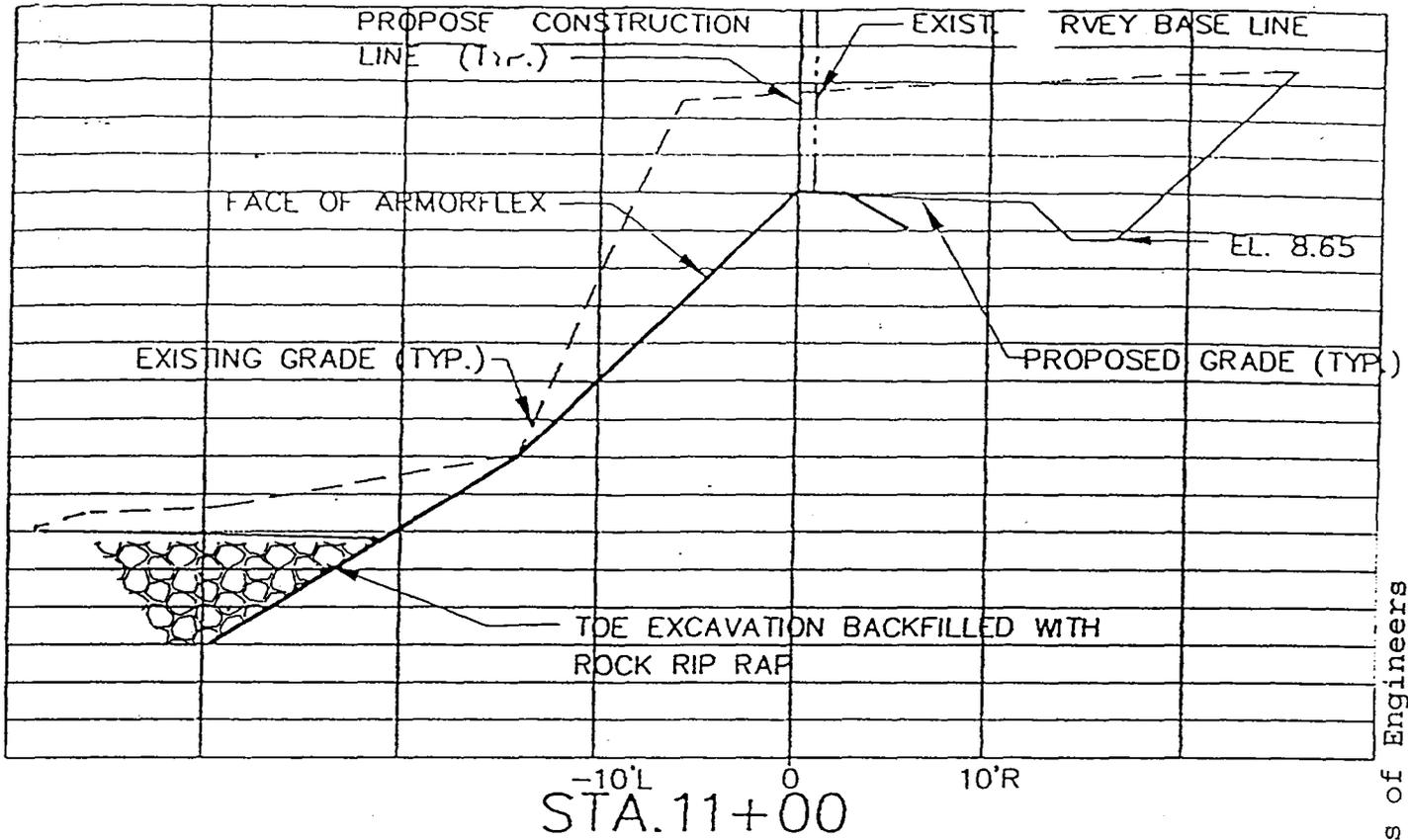
STA. 0+00

OCT 0 8 1993

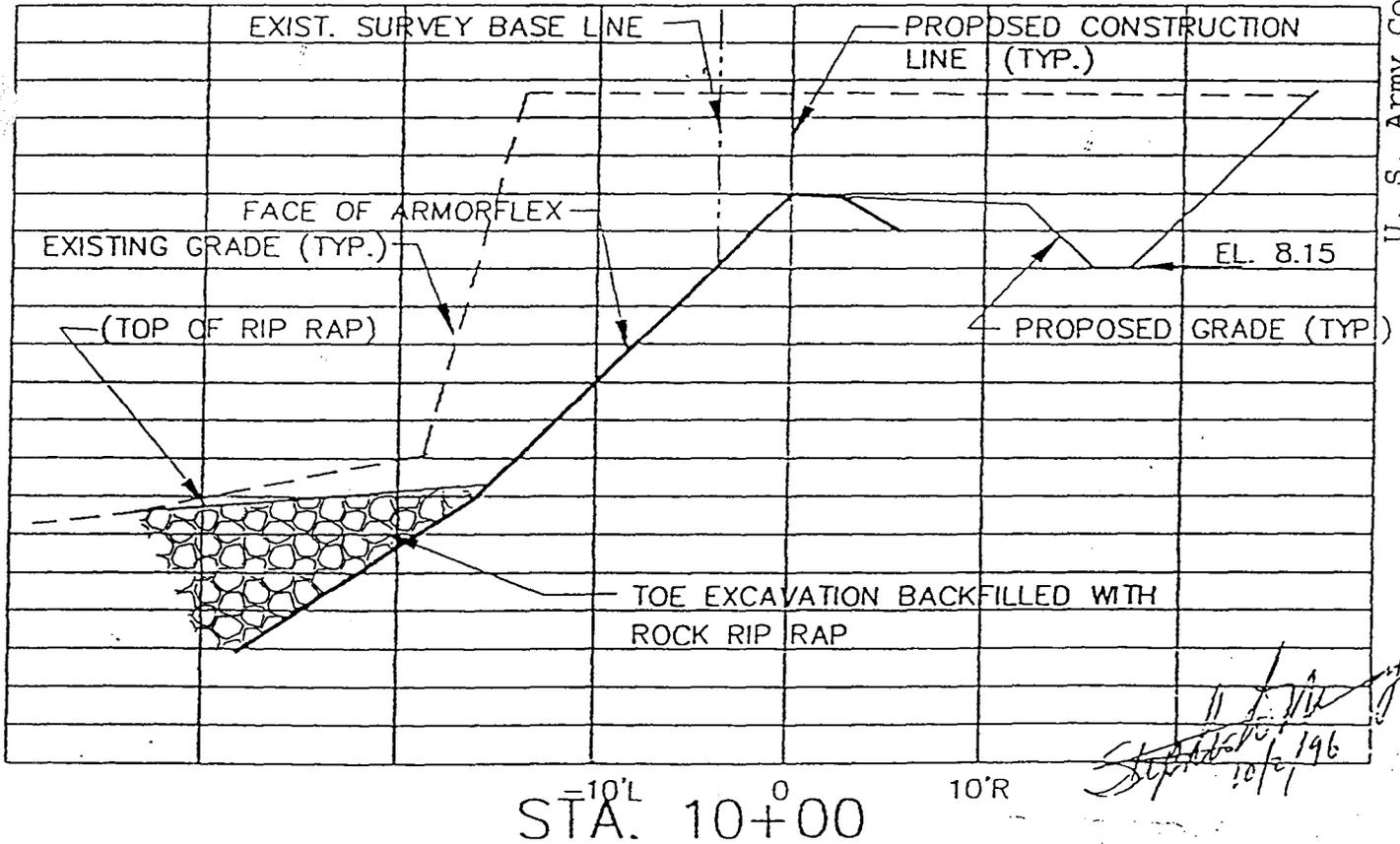
U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 11 of 13 Dated 19 December 1996

DESIGNER'S PROJECT NO.: 0990 DRAWN BY: M.S. ISSUE DATE: 09/13/96	<p style="text-align: center;">DHA</p> <p style="text-align: center;">DELON HAMPTON & ASSOCIATES</p> <p style="text-align: center;">600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-5514 FAX: (404) 872-5863</p>	DRAWING TITLE: <p style="text-align: center;">ATTACHMENT 8.1</p> <p style="text-align: center;">SCALE: 1"=10' H , 1"=5' V</p> <p style="text-align: center;">KEY WEST NAVAL STATION</p>	SKETCH NO.:
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15

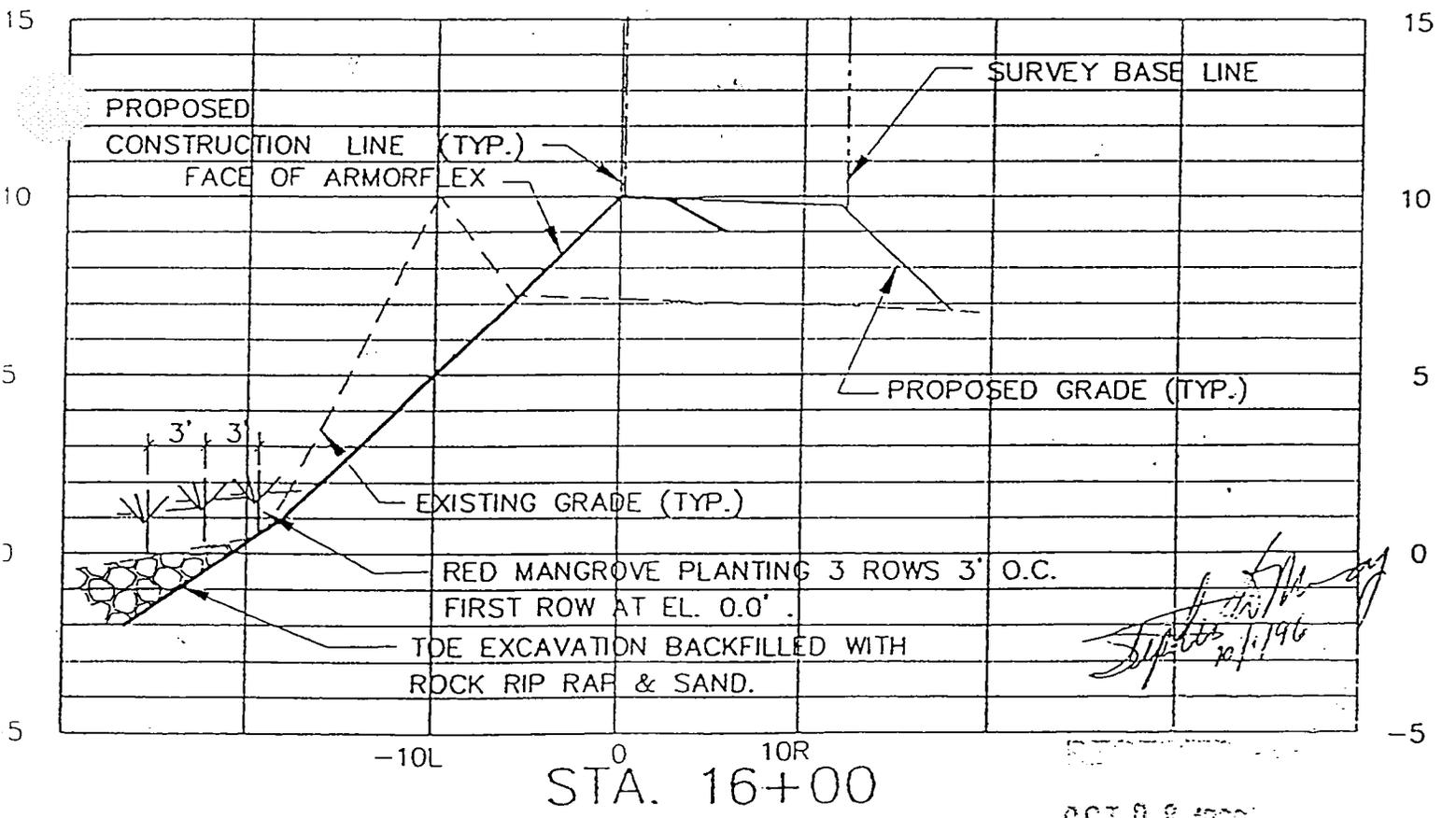
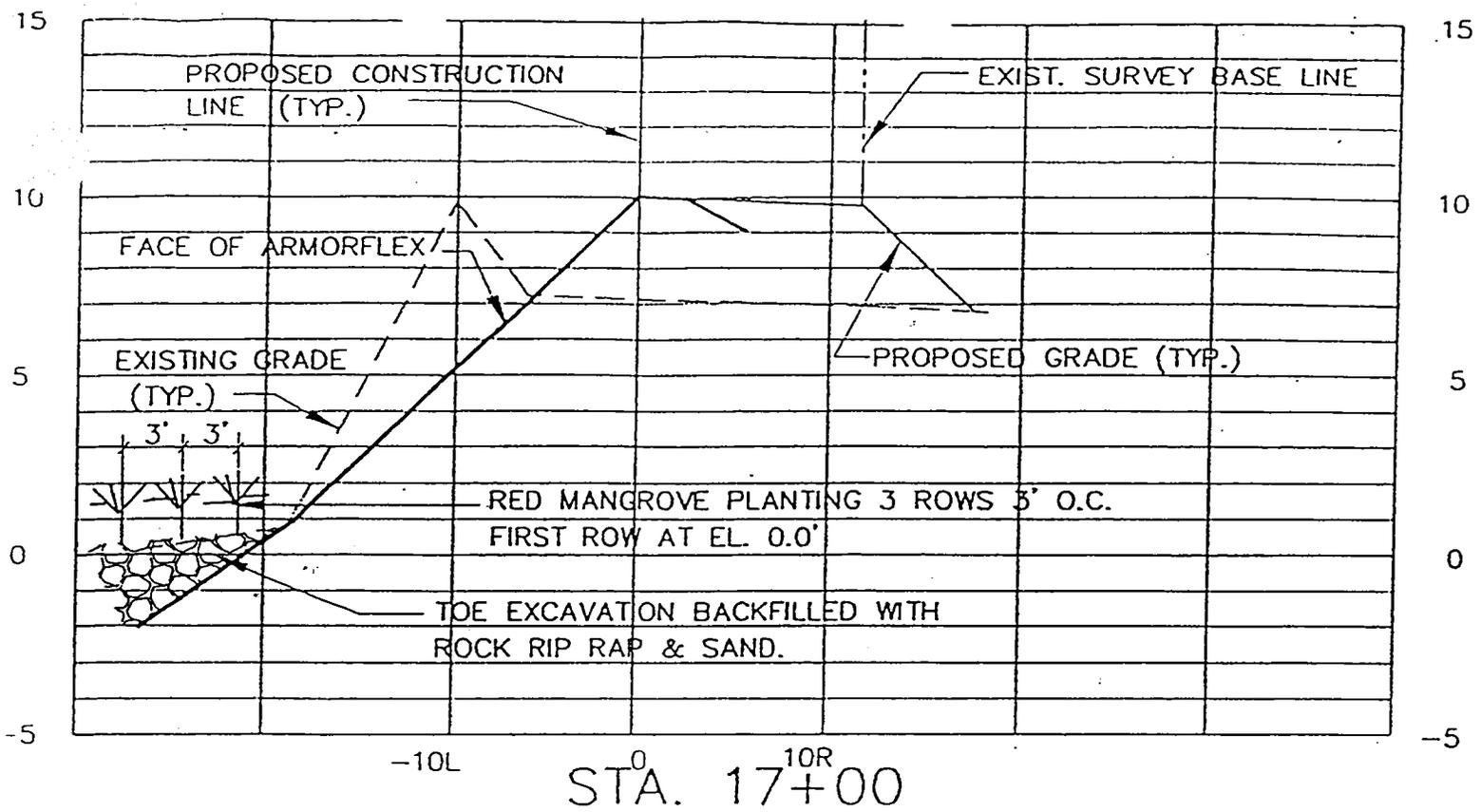


15



U. S. Army Corps of Engineers
 Application # 199604865 (IP-EJ)
 Page 12 of 13 Dated 10 December 1996

PROJECT NO.: DRAWN BY: M.S. ISSUE DATE: 09/13/96	DHA DELON HAMPTON & ASSOCIATES 600 WEST PEACHTREE ST. N.W. SUITE 1470 ATLANTA, GA 30308 TEL: (404) 872-3314 FAX: (404) 872-5803	DRAWING TITLE: ATTACHMENT 8.2	SKETCH NO.:
		SCALE: 1"=10' H, 1"=5' V	
		KEY WEST NAVAL STATION	



DESIGNER'S PROJECT NO.: C953	DHA DELON HAMPTON & ASSOCIATES	DRAWING TITLE: ATTACHMENT 8.3	SKETCH NO.:
DRAWN BY: M.S.	U. S. Army Corps of Engineers Application # 199604865 (IP-EJ)	SCALE: 1"=10' H , 1"=5' V	
ISSUE [00/13] Page 13 of 13 Dated 19 December 1996		Y WEST NAVAL STATION	

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


RON A. DEMES
(PERMITTEE) ENGINEERING DIRECTOR

4 MARCH 1997
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


(DISTRICT ENGINEER)
TERRY L. RICE
Colonel, U.S. Army

4 MAR 97
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE-SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

copy CESAJ-CO-RE if spec cond

**This notice of authorization must be conspicuously
displayed at the site of work**

United States Army Corps of Engineers

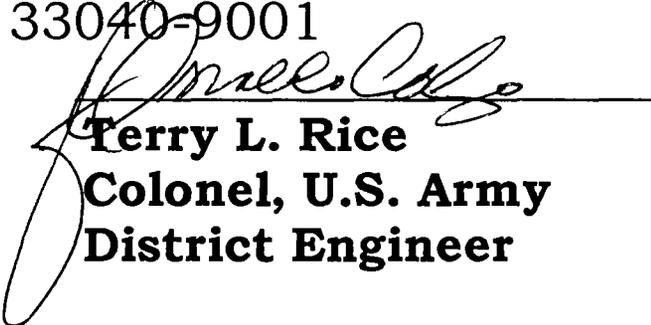
March 5, 1997

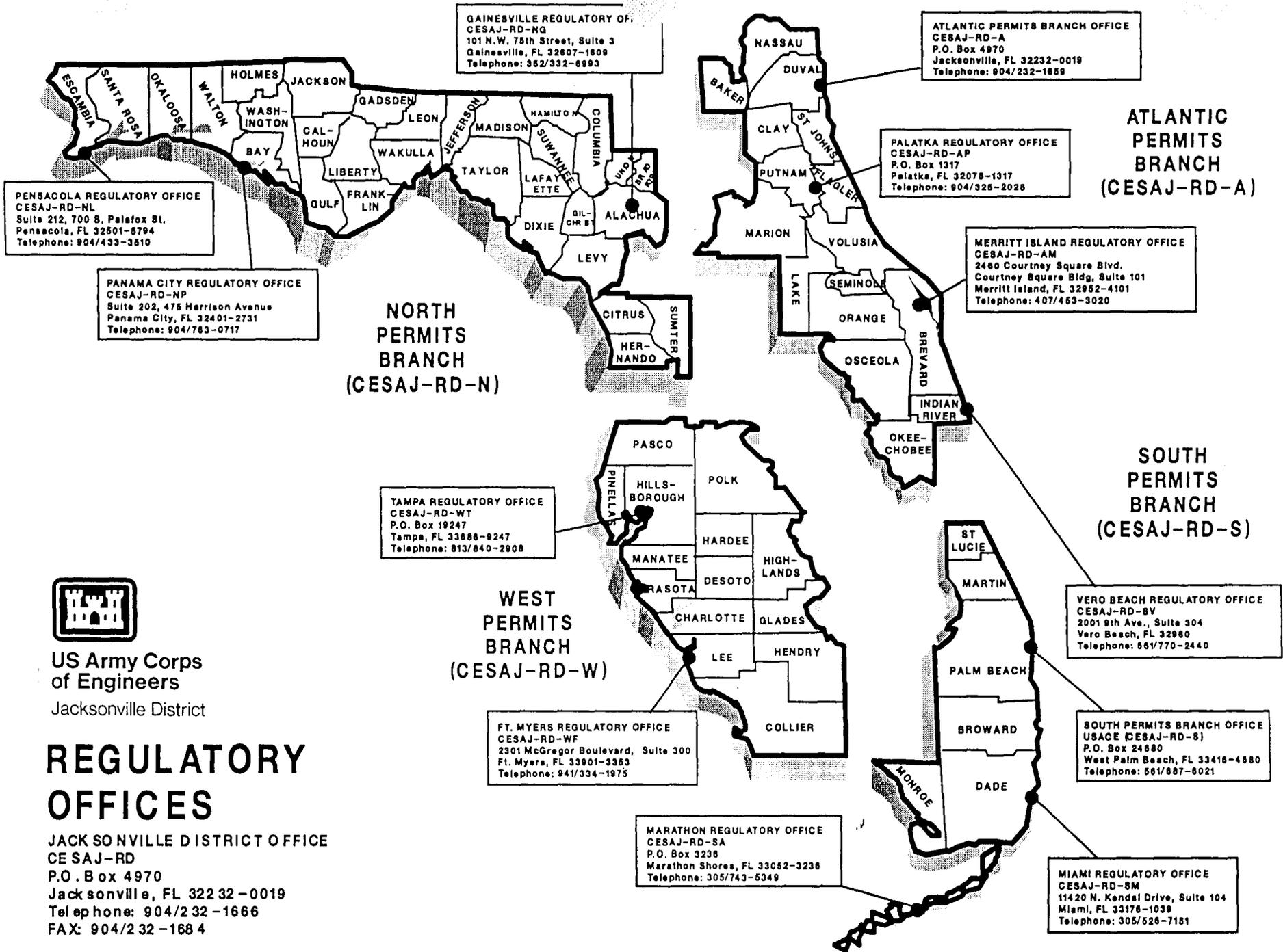
A permit to remove existing riprap and construct
1,800 linear feet of shoreline revetment impacting
0.3-acre of wetlands.

at Bay of Florida, Mustin Road, in Section 31,
Township 67 South, Range 25 East, Fleming Key, Monroe
County, Florida. Latitude 24°34'20"N., Longitude 81°47'58"W.
has been issued to Naval Air Station, Key West, Florida
on February 28, 1997

Address of Permittee: P. O. Box 9007, Naval Air Station,
Key West, Florida 33040-9001

199604865(IP-EJ)


Terry L. Rice
Colonel, U.S. Army
District Engineer



US Army Corps
of Engineers
Jacksonville District

REGULATORY OFFICES

JACKSONVILLE DISTRICT OFFICE
CESAJ-RD
P.O. Box 4970
Jacksonville, FL 32232-0019
Telephone: 904/232-1666
FAX: 904/232-1684