



Jeb Bush
Governor

Department of Environmental Protection

South District Marathon Branch Office
2796 Overseas Highway, Suite 221
Marathon, Florida 33050-4276
Telephone 305/289-2310

David B. Struhs
Secretary

May 17, 1999

Mr. Rob Ueltschi, Engineer
City of Key West
P. O. Box 1409
Key West, FL 33041-1409

Re: Monroe County - ERP
File No. 44-0155987-001
Modification to Permit #442021579
Florida Keys Ecosystem Management Area

Dear Mr. Ueltschi:

Your request to modify permit No. 442021579 has been received and reviewed by Department staff. The proposed permit modification is to change the type of mooring system from a Manta Ray to Helical type system.

After thorough review by staff, the proposed modification is not expected to adversely affect water quality and will not be contrary to the public interest .

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as requested. By copy of this letter and the attached drawings, we are notifying all necessary parties of the modification.

This letter of approval does not alter the December 29, 2000, expiration date, Specific or General conditions (other than as described above), or monitoring requirements of the permit. This letter and accompanying drawings must be attached to the original permit.

This modification is hereby granted unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes, before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

Mediation is not available.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Because the administrative hearing process is designed to redetermine final agency action on the application, the filing of a petition for an administrative hearing may result in a modification of the permit modification or even a denial of the application. If a sufficient petition for an administrative hearing or request for an extension of time to file a petition is timely filed, this permit modification automatically becomes only proposed agency action on the application, subject to the result of the administrative review process. Accordingly, the applicant is advised not to commence construction or other activities under this permit until the deadlines noted below for filing a petition for an administrative hearing, or request for an extension of time have expired.

Under rule 62-110.106(4) of the Florida Administrative Code, a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

In the event that a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Any intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

In accordance with rules 28-106.111(2) and 62-110.106(3)(a)(4), petitions for an administrative hearing by the applicant or any of the parties listed below must be filed within 21

days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action; and
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301. Under sections 120.569(2)(c) and (d) of the Florida Statutes, a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

City Of Key West
File No. 44-0155987-001
Page Four

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

This permit modification constitutes an order of the Department. The applicant has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Sincerely,




Randal Grau
Environmental Manager
Submerged Lands and
Environmental Resource Program

RG/EB/jm
Enclosures

cc: U.S. Army Corps of Engineers, Miami
Monroe County Property Appraiser
Bonnie Wilson, State Lands, Tallahassee

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 20.57,
Florida Statutes, with the designated agent,
receipt of which is hereby acknowledged

 5-17-99
Clerk Date

RECEIVED

MAY 24 1999

DSL
Bureau of
Public Land Administration



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

PERMITTEE:

City of Key West
Department of Transportation
c/o Raymond Archer
Post Office Box 1078
Key West, FL 33040

Permit Number: 442021579

Date of Issue: 12/29/95

Expiration Date: 12/29/2000

County: Monroe

Project: Wetland Resource, 5
years

This permit is issued under the provisions of Chapters 373 and 403, Florida Statutes, Public Law 92-500, Title 62, and Rule 62-312, Florida Administrative Code. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

PROJECT DESCRIPTION:

To construct a 149 slip mooring area by: driving 149 Manta Ray anchor units into the substrate and installing 5 marine signal lights to mark the boundaries of the mooring area. This project is issued in conjunction with Variance VE-44-683.

PROJECT LOCATION:

The project site is located Key West Seaplane Basin, Florida Bay, City of Key West, Monroe County, Section 32, Township 67 South, Range 25 East, Class III Waters.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights,

Permittee: City of Key West
Permit No: 442021579
Page 2

nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

Permittee: City of Key West
Permit No: 442021579
Page 3

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. A description of and cause of noncompliance; and
- b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500).

Permittee: City of Key West
Permit No: 442021579
Page 4

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 1. the date, exact place, and time of sampling or measurements;
 2. the person responsible for performing the sampling or measurements;
 3. the dates analyses were performed;
 4. the person responsible for performing the analyses;
 5. the analytical techniques or methods used; and
 6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Permittee: City of Key West
Permit No: 442021579
Page 5

SPECIFIC CONDITIONS:

1. The permittee is hereby advised that Florida law states: "No person shall commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or the Department of Environmental Protection under Chapter 253, until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use." Pursuant to Florida Administrative Code Rule 18-14, if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to \$10,000 per offense.

2. 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.

3. At least 48 hours prior to commencement of work authorized by this permit, the permittee shall notify the Department of Environmental Protection, Bureau of Submerged Lands and Environmental Resources in Tallahassee, and the District office in , in writing of this commencement.

Semi-annual narrative progress reports shall be submitted to the Bureau of Submerged Lands and Environmental Resources and the Department's Water Management Program, South Florida District branch office in Marathon indicating the status of the project. The cover page shall indicate the permit number, project name and the permittee name. The report shall include the following information:

- a. Date permitted activity was begun; if work has not begun on-site, please so indicate.
- b. Brief description and extent of work completed since the previous report or since the permit was issued. Indicate on copies of the permit drawings those areas where work has been completed. Also indicate any areas in which the actual impacts were less than the scope of the permitted work.
- c. Brief description and extent of work anticipated in the next six months. Indicate on copies of the permit

drawings those areas where it is anticipated that work will be done.

- d. The reports shall include on the first page, just below the title, the certification of the following statement by the individual who supervised preparation of the report: "This report represents a true and accurate description of the activities conducted during the six month period covered by this report."

The first semi-annual progress report is due six months from the date of permit issuance.

5. The rules and regulations for the operation of the mooring field, included in Attachment A, are a part of this permit. Any changes to the rule and regulations shall require written approval from the Department. These rule and regulations shall apply for the life of the facility.

6. Before initiating any construction authorized in this permit, the permittee shall enter into a management agreement with the DEP, Division of State Lands. The management agreement applies to the mooring field and the surrounding basin as shown on sheets 10 and 11 of the attached permit drawings. The purposes of the management agreement are to bestow the responsibility of stewardship for the management area on the permittee and to require that mooring within the management area is only allowed in the mooring field authorized in this permit. Mooring is prohibited in any part of the management area outside of the mooring field. Before executing the management agreement, the permittee shall submit the agreement for review and written approval by the Bureau of Submerged Lands and Environmental Resources. The agreement shall be recorded in Monroe County no more than 30 days after its execution. The management agreement shall be implemented for the life of the facility.

7. Marine lights, also called regulatory markers, shall be installed along the perimeter of the mooring field at the locations shown on sheet 4 of the attached permit drawings. Installation of the lights shall be completed before installation of the mooring apparatus begins. The lights shall be maintained in working condition for the life of the facility.

8. The mooring apparatus shall be a mantra ray anchoring system with poly or nylon rope, floats and mooring buoy to prevent any substrate damage. Any replacement that may be necessary shall use this apparatus for the life of the facility. Any proposed

change in mooring system must be submitted to the Department as a minor modification request.

9. To ensure that seagrass impacts are minimized during construction the manta ray anchoring systems shall be driven into the substrate.

10. In order to ensure that manatees are not adversely affected by the construction activities authorized by this permit, the permittee shall adhere to the following conditions:

- a. The contractor instructs all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s), and shall implement appropriate precautions to ensure protection of the manatee(s).
- b. All construction personnel are advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act. The permittee and/or contractor may be held responsible for any manatee harmed, harassed, or killed as a result of construction activities.
- c. Prior to commencement of construction, the prime contractor involved in the construction activities shall construct and display at least two temporary signs (placards) concerning manatees. For all vessels, a temporary sign (at least 8 1/2" X 11") reading "Manatee Habitat/Idle Speed In Construction Area" will be placed in a prominent location visible to employees operating the vessels. In the absence of a vessel, a temporary sign (at least 2' X 2') reading "Warning: Manatee Habitat" will be posted in a location prominently visible to land based, water-related construction crews.

A second temporary sign (at least 8 1/2" X 11") reading "Warning, Manatee Habitat: Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol at 1-800-DIAL-FMP" will be located prominently adjacent to

Permittee: City of Key West
Permit No: 442021579
Page 8

the displayed issued construction permit. Temporary notices are to be removed by the permittee upon completion of construction.

- d. Siltation barriers are properly secured so that manatees cannot become entangled, and are monitored at least daily to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.
 - e. All vessels associated with the project operate at "idle speed/no wake" at all times while in the construction area and while in water where the draft of the vessel provides less than a four foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
 - f. If manatees are seen within 100 yards of the active daily construction/dredging operation all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment.
 - g. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol (1-800-DIAL-FMP) and to the Office of Protected Species Management (904) 922-4330.
 - h. The contractor maintains a log detailing sightings, collisions, or injuries to manatees should they occur during the contract period. A report summarizing incidents and sightings shall be submitted to the Florida Department of Environmental Protection, Office of Protected Species Management, Mail Station 245, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399 and to the U.S. Fish and Wildlife Service Office, 3100 University Boulevard, Jacksonville, Florida 32216. This report must be submitted annually or following the completion of the project if the contract period is less than a year.
11. The permittee shall install permanent manatee awareness signs and informational displays. The permittee shall coordinate with the DEP, Bureau of Protected Species Management (BPSM) to decide on the location and content of these signs and displays. The permittee shall notify, in writing, the Bureau of Submerged

Permittee: City of Key West
Permit No: 442021579
Page 9

Lands and Environmental Resources of the approved signs and displays by submitting an approval letter from the DEP, Bureau of Protected Species Management.

12. The permittee shall submit a plan for quantitatively monitoring the seagrasses within the mooring area to determine the impacts of construction and operation of the facility. At a minimum the plan shall include a monitoring event shortly before construction starts, a monitoring event immediately after construction is completed and monitoring seasonally for at least three years after the facility reaches 75% occupancy. Monitoring reports shall be prepared as follows: 1) A report comparing the pre- and post-construction monitoring events shall be prepared. The report shall include but not be limited to, identifying all areas of impact and determining the acreage of seagrass area that was directly impacted and the acreage of secondary impacts (as determined by reduced percent cover or similar means); 2) A report shall be prepared once a year for the three years of monitoring after occupancy. The report shall assess and differentiate between changes in the grassbeds resulting from operation of the facility and changes resulting from natural seasonal variation. In order to accomplish this, another area within the management area will have to be monitored simultaneously with the mooring field.

Construction of the facility shall not begin until the Bureau of Submerged Lands and Environmental Resources reviews and approves the monitoring plan. The monitoring plan and reporting requirements shall be included in a long-term agreement to provide assurance that the monitoring and reporting will be completed even if the permit expires before their completion.

13. Boat maintenance or repair activities requiring removal of a vessel from the water, or removal of any major portions of the vessel, including the engine, for purposes of routine repair or maintenance on site, shall be prohibited for the life of the facility, except where removal is necessitated by emergency conditions which have resulted in or can result in the sinking of a vessel. Specifically prohibited shall be any discharges or release of: oils or greases associated with engine and hydraulic repairs, and related metal based bottom paints associated with hull scraping, cleaning, and painting. Minor repairs and boat maintenance that will not cause or contribute to the release of water pollutants, and which are performed by owners or qualified marine mechanics, shall be allowed.

14. Within 30 days of permit issuance, the permittee shall enter into a binding long-term agreement with the Department, the

Permittee: City of Key West
Permit No: 442021579
Page 10

language of which is included as an appendix to this permit. This agreement shall evidence the obligation of the permittee to comply with Specific Condition Nos. 5,6,7,8,11,12, and 13 for the life of the facility, notwithstanding the fact that this permit will expire in 5 years. The agreement shall be submitted to the Bureau of Submerged Lands and Environmental Resources for final review and execution. The fully executed agreement shall be recorded by the permittee with Monroe County, and proof of its recording shall be submitted to the Bureau of Submerged Lands and Environmental Resources within 60 days of permit issuance.

Recommended by Constance Beard.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

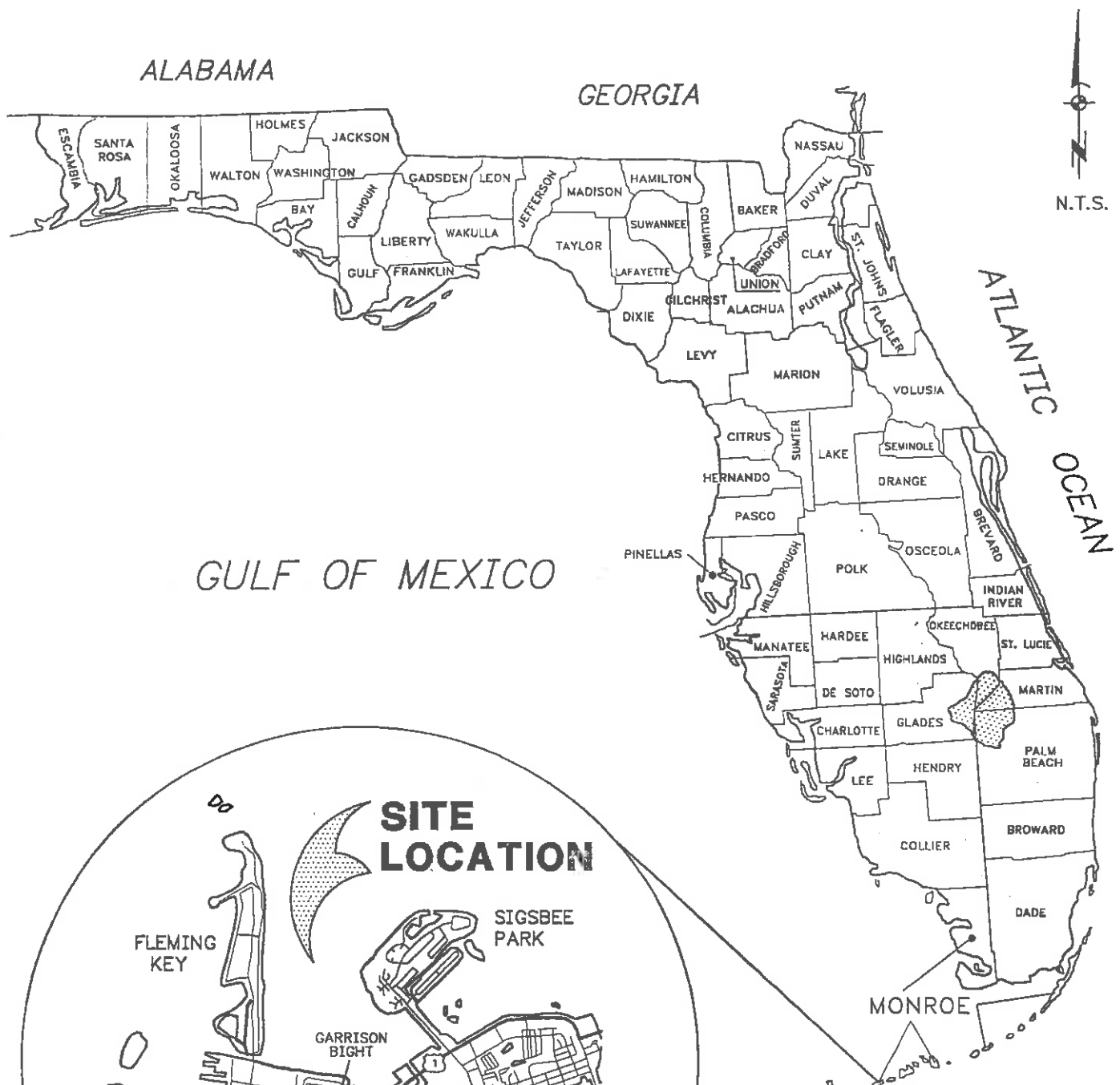
for Virginia B. Wetherell, Secretary

5 pages attached.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Camela A. Ransom 12/29/95
Clerk Date

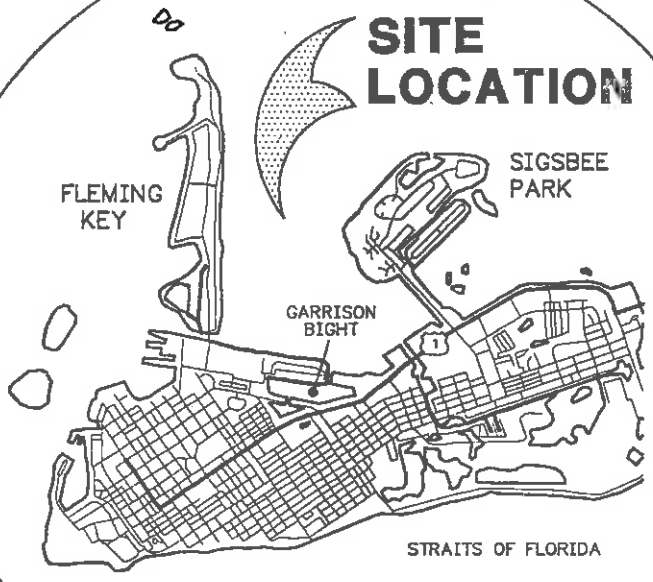


GULF OF MEXICO

ATLANTIC OCEAN

N.T.S.

SITE LOCATION



RECEIVED SEP 20 1995

GENERAL LOCATION MAP

PREPARED BY

AVIROM-HALL AND ASSOCIATES INC.

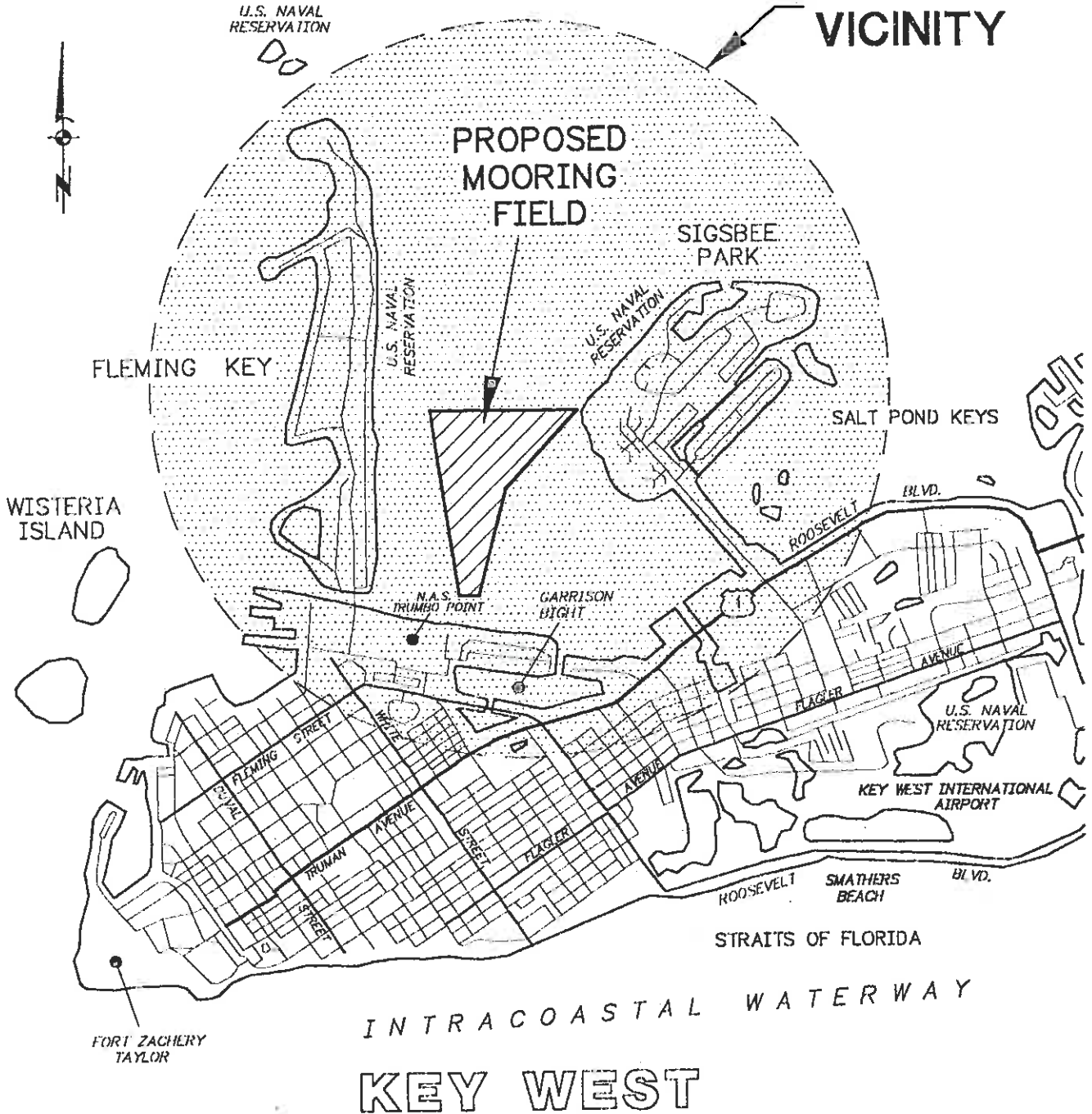
50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA. 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
 (904) 488-2427

REVISION	DATE	SCALE	N.T.S.	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC	TWP RGE
		CHECKED BY	M.D.A.	OFF. NO.	5384
DWG. NAME	DATE	6-20-95	SHEET 1 OF 11		

PROJECT VICINITY



INTRACOASTAL WATERWAY KEY WEST

CERTIFICATION:

I HEREBY CERTIFY that the attached Special Purpose Survey of the hereon described property is true and correct to the best of my knowledge and belief as surveyed in the field under my direction on June 20, 1995. I FURTHER CERTIFY that this Special Purpose Survey meets the Minimum Technical Standards set forth in Chapter 61G17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Michael D. Aviron
 MICHAEL D. AVIRON, P.L.S.
 Florida Registration No. 3268
 AVIRON - HALL & ASSOCIATES, INC.
 L.B. No. 3300

RECEIVED

VICINITY MAP

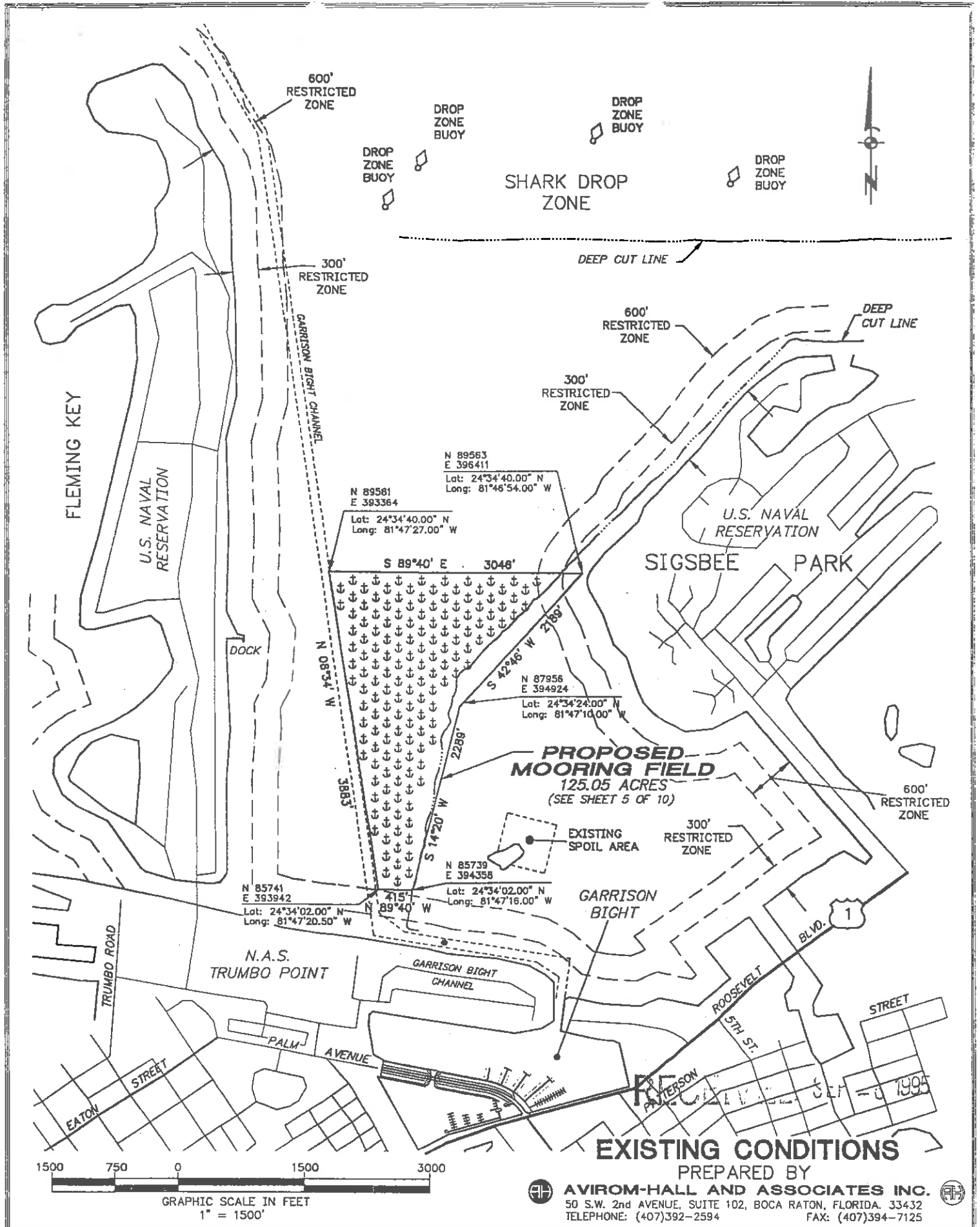
PREPARED BY

AVIRON-HALL AND ASSOCIATES INC.
 50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32309
 (904) 488-2427

REVISION	DATE	SCALE	NOT TO SCALE	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC	TWP RGE
		CHECKED BY	M.D.A.	OFF. NO.	5384
DWG. NAME	DATE	6-20-95	SHEET 2 OF 11		



DEPT. of ENVIRONMENTAL PROTECTION
BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
 (904) 488-2427

REVISION	DATE	SCALE	AS SHOWN	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC	TWP RGE
		CHECKED BY	M.D.A.	OFF. NO.	5384
DWG. NAME	DATE	6-20-95	SHEET 3 OF 11		

FL. RED "16"

LEGEND

- ! - SOLAR POWERED NAVIGATION LIGHT
- FL - FLASHING LIGHT
- ⊙ - PROPOSED SITES FOR SOLAR POWERED (YELLOW LENS) BOUNDARY LIGHTS



FL. GREEN
13 FT. 3M "17"

DEEP
CUT LINE

FLEMING KEY

U.S. NAVAL
RESERVATION

PROPOSED
MOORING FIELD

SIGSBEE
PARK

U.S. NAVAL
RESERVATION

DOCK

GARRISON BIGHT CHANNEL

DEEP
CUT LINE

GARRISON
BIGHT

FL. RED
16 FT. 3M "18"

GREEN "19"

FL. GREEN
18 FT. 3M "21"

RED "20"

RED "22"

N.A.S.
TRUMBO POINT

GREEN "29"

RED "26"

FL. RED
BUOY "24"

GREEN "27"

GREEN "25"

FLEMING STREET

PALM AVENUE

ROOSEVELT BLVD.



NAVIGATION LIGHTS

PREPARED BY



AVIOM-HALL AND ASSOCIATES INC.

50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA 33432
TELEPHONE: (407)392-2594 FAX: (407)394-7125



GRAPHIC SCALE IN FEET
1" = 1500'



DEPT. of ENVIRONMENTAL PROTECTION
BUREAU of SURVEY and MAPPING
3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
(904) 488-2427

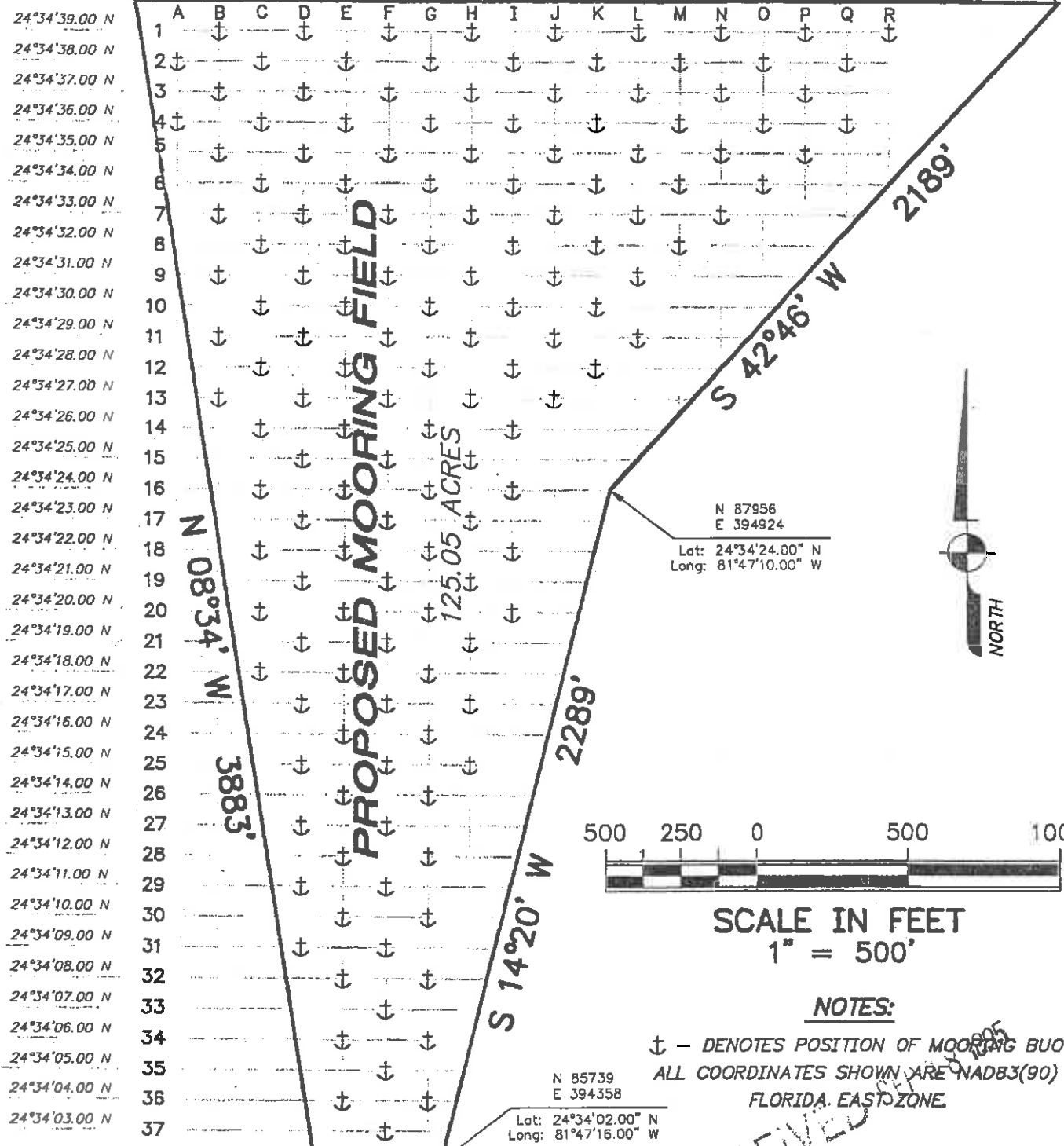
REVISION	DATE	SCALE	AS SHOWN	COUNTY	MONROE
			DRAWN BY	J.A.F.	SEC TWP RGE
			CHECKED BY	M.D.A.	OFF. NO. 5384
DWG. NAME	DATE	6-20-95	SHEET 4 OF 11		

N 89581
E 393364
Lat: 24°34'40.00" N
Long: 81°47'27.00" W

81°47'25.50" W
81°47'24.00" W
81°47'22.50" W
81°47'21.00" W
81°47'19.50" W
81°47'18.00" W
81°47'16.50" W
81°47'15.00" W
81°47'13.50" W
81°47'12.00" W
81°47'10.50" W
81°47'09.00" W
81°47'07.50" W
81°47'06.00" W
81°47'04.50" W
81°47'03.00" W
81°47'01.50" W
81°47'00.00" W

N 89563
E 396411
Lat: 24°34'40.00" N
Long: 81°46'54.00" W

S 89°40' E 3046'



N 87956
E 394924
Lat: 24°34'24.00" N
Long: 81°47'10.00" W

N 85739
E 394358
Lat: 24°34'02.00" N
Long: 81°47'16.00" W

N 85741
E 393942
Lat: 24°34'02.00" N
Long: 81°47'20.50" W

415'
N 89°40' W

NOTES:
 ⚓ - DENOTES POSITION OF MOORING BUOY
 ALL COORDINATES SHOWN ARE NAD83(90)
 FLORIDA EAST ZONE.

PROPOSED MOORING FIELD

PREPARED BY
 AVIROM-HALL AND ASSOCIATES INC.

50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
 (904) 488-2427

REVISION	DATE	SCALE 1" to 500'	COUNTY MONROE
		DRAWN BY K.M. C-A-T	SEC TWP RGE
		CHECKED BY M.D.A	OFF. NO. 5384
DWG. NAME	DATE 6-19-95	SHEET 5 OF 11	

MOORING BUOY POSITIONS

POSITION	Latitude	Longitude
A-2	24°34'38.0" N	81°47'25.5" W
A-4	24°34'36.0" N	81°47'25.5" W
B-1	24°34'39.0" N	81°47'24.0" W
B-3	24°34'37.0" N	81°47'24.0" W
B-5	24°34'35.0" N	81°47'24.0" W
B-7	24°34'33.0" N	81°47'24.0" W
B-9	24°34'31.0" N	81°47'24.0" W
B-11	24°34'29.0" N	81°47'24.0" W
B-13	24°34'27.0" N	81°47'24.0" W
C-2	24°34'38.0" N	81°47'22.5" W
C-4	24°34'36.0" N	81°47'22.5" W
C-6	24°34'34.0" N	81°47'22.5" W
C-8	24°34'32.0" N	81°47'22.5" W
C-10	24°34'30.0" N	81°47'22.5" W
C-12	24°34'28.0" N	81°47'22.5" W
C-14	24°34'26.0" N	81°47'22.5" W
C-16	24°34'24.0" N	81°47'22.5" W
C-18	24°34'22.0" N	81°47'22.5" W
C-20	24°34'20.0" N	81°47'22.5" W
C-22	24°34'18.0" N	81°47'22.5" W
D-1	24°34'39.0" N	81°47'21.0" W
D-3	24°34'37.0" N	81°47'21.0" W
D-5	24°34'35.0" N	81°47'21.0" W
D-7	24°34'33.0" N	81°47'21.0" W
D-9	24°34'31.0" N	81°47'21.0" W
D-11	24°34'29.0" N	81°47'21.0" W
D-13	24°34'27.0" N	81°47'21.0" W
D-15	24°34'25.0" N	81°47'21.0" W
D-17	24°34'23.0" N	81°47'21.0" W
D-19	24°34'21.0" N	81°47'21.0" W
D-21	24°34'19.0" N	81°47'21.0" W
D-23	24°34'17.0" N	81°47'21.0" W
D-25	24°34'15.0" N	81°47'21.0" W
D-27	24°34'13.0" N	81°47'21.0" W
D-29	24°34'11.0" N	81°47'21.0" W
D-31	24°34'09.0" N	81°47'21.0" W
E-2	24°34'38.0" N	81°47'19.5" W
E-4	24°34'36.0" N	81°47'19.5" W
E-6	24°34'34.0" N	81°47'19.5" W
E-8	24°34'32.0" N	81°47'19.5" W
E-10	24°34'30.0" N	81°47'19.5" W
E-12	24°34'28.0" N	81°47'19.5" W
E-14	24°34'26.0" N	81°47'19.5" W
E-16	24°34'24.0" N	81°47'19.5" W
E-18	24°34'22.0" N	81°47'19.5" W
E-20	24°34'20.0" N	81°47'19.5" W

POSITION	Latitude	Longitude
E-22	24°34'18.0" N	81°47'19.5" W
E-24	24°34'16.0" N	81°47'19.5" W
E-26	24°34'14.0" N	81°47'19.5" W
E-28	24°34'12.0" N	81°47'19.5" W
E-30	24°34'10.0" N	81°47'19.5" W
E-32	24°34'08.0" N	81°47'19.5" W
E-34	24°34'06.0" N	81°47'19.5" W
E-36	24°34'04.0" N	81°47'19.5" W
F-1	24°34'39.0" N	81°47'18.0" W
F-3	24°34'37.0" N	81°47'18.0" W
F-5	24°34'35.0" N	81°47'18.0" W
F-7	24°34'33.0" N	81°47'18.0" W
F-9	24°34'31.0" N	81°47'18.0" W
F-11	24°34'29.0" N	81°47'18.0" W
F-13	24°34'27.0" N	81°47'18.0" W
F-15	24°34'25.0" N	81°47'18.0" W
F-17	24°34'23.0" N	81°47'18.0" W
F-19	24°34'21.0" N	81°47'18.0" W
F-21	24°34'19.0" N	81°47'18.0" W
F-23	24°34'17.0" N	81°47'18.0" W
F-25	24°34'15.0" N	81°47'18.0" W
F-27	24°34'13.0" N	81°47'18.0" W
F-29	24°34'11.0" N	81°47'18.0" W
F-31	24°34'09.0" N	81°47'18.0" W
F-33	24°34'07.0" N	81°47'18.0" W
F-35	24°34'05.0" N	81°47'18.0" W
F-37	24°34'03.0" N	81°47'18.0" W
G-2	24°34'38.0" N	81°47'16.5" W
G-4	24°34'36.0" N	81°47'16.5" W
G-6	24°34'34.0" N	81°47'16.5" W
G-8	24°34'32.0" N	81°47'16.5" W
G-10	24°34'30.0" N	81°47'16.5" W
G-12	24°34'28.0" N	81°47'16.5" W
G-14	24°34'26.0" N	81°47'16.5" W
G-16	24°34'24.0" N	81°47'16.5" W
G-18	24°34'22.0" N	81°47'16.5" W
G-20	24°34'20.0" N	81°47'16.5" W
G-22	24°34'18.0" N	81°47'16.5" W
G-24	24°34'16.0" N	81°47'16.5" W
G-26	24°34'14.0" N	81°47'16.5" W
G-28	24°34'12.0" N	81°47'16.5" W
G-30	24°34'10.0" N	81°47'16.5" W
G-32	24°34'08.0" N	81°47'16.5" W
G-34	24°34'06.0" N	81°47'16.5" W
G-36	24°34'04.0" N	81°47'16.5" W

RECEIVED

PREPARED BY

AVIROM-HALL AND ASSOCIATES INC.
 50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32309
 (904) 488-2427

REVISION	DATE	SCALE	1" TO 500'	COUNTY	MONROE
		DRAWN BY	K.M. C-A-T	SEC	TWP RGE
		CHECKED BY		OFF. NO.	5384
DWG. NAME		DATE	6-19-95	SHEET	6 OF 11

MOORING BUOY POSITIONS

POSITION	Latitude	Longitude
H-1	24°34'39.0" N	81°47'15.0" W
H-3	24°34'37.0" N	81°47'15.0" W
H-5	24°34'35.0" N	81°47'15.0" W
H-7	24°34'33.0" N	81°47'15.0" W
H-9	24°34'31.0" N	81°47'15.0" W
H-11	24°34'29.0" N	81°47'15.0" W
H-13	24°34'27.0" N	81°47'15.0" W
H-15	24°34'25.0" N	81°47'15.0" W
H-17	24°34'23.0" N	81°47'15.0" W
H-19	24°34'21.0" N	81°47'15.0" W
H-21	24°34'19.0" N	81°47'15.0" W
H-23	24°34'17.0" N	81°47'15.0" W
H-25	24°34'15.0" N	81°47'15.0" W
I-2	24°34'38.0" N	81°47'13.5" W
I-4	24°34'36.0" N	81°47'13.5" W
I-6	24°34'34.0" N	81°47'13.5" W
I-8	24°34'32.0" N	81°47'13.5" W
I-10	24°34'30.0" N	81°47'13.5" W
I-12	24°34'28.0" N	81°47'13.5" W
I-14	24°34'26.0" N	81°47'13.5" W
I-16	24°34'24.0" N	81°47'13.5" W
I-18	24°34'22.0" N	81°47'13.5" W
I-20	24°34'20.0" N	81°47'13.5" W
J-1	24°34'39.0" N	81°47'12.0" W
J-3	24°34'37.0" N	81°47'12.0" W
J-5	24°34'35.0" N	81°47'12.0" W
J-7	24°34'33.0" N	81°47'12.0" W
J-9	24°34'31.0" N	81°47'12.0" W
J-11	24°34'29.0" N	81°47'12.0" W
J-13	24°34'27.0" N	81°47'12.0" W

POSITION	Latitude	Longitude
K-2	24°34'38.0" N	81°47'10.5" W
K-4	24°34'36.0" N	81°47'10.5" W
K-6	24°34'34.0" N	81°47'10.5" W
K-8	24°34'32.0" N	81°47'10.5" W
K-10	24°34'30.0" N	81°47'10.5" W
K-12	24°34'28.0" N	81°47'10.5" W
L-1	24°34'39.0" N	81°47'09.0" W
L-3	24°34'37.0" N	81°47'09.0" W
L-5	24°34'35.0" N	81°47'09.0" W
L-7	24°34'33.0" N	81°47'09.0" W
L-9	24°34'31.0" N	81°47'09.0" W
L-11	24°34'29.0" N	81°47'09.0" W
M-2	24°34'38.0" N	81°47'07.5" W
M-4	24°34'36.0" N	81°47'07.5" W
M-6	24°34'34.0" N	81°47'07.5" W
M-8	24°34'32.0" N	81°47'07.5" W
N-1	24°34'39.0" N	81°47'06.0" W
N-3	24°34'37.0" N	81°47'06.0" W
N-5	24°34'35.0" N	81°47'06.0" W
N-7	24°34'33.0" N	81°47'06.0" W
O-2	24°34'38.0" N	81°47'04.5" W
O-4	24°34'36.0" N	81°47'04.5" W
O-6	24°34'34.0" N	81°47'04.5" W
P-1	24°34'39.0" N	81°47'03.0" W
P-3	24°34'37.0" N	81°47'03.0" W
P-5	24°34'35.0" N	81°47'03.0" W
Q-2	24°34'38.0" N	81°47'01.5" W
Q-4	24°34'36.0" N	81°47'01.5" W
R-1	24°34'39.0" N	81°47'00.0" W

RECEIVED SEP 18 1995

PREPARED BY


AVIROM-HALL AND ASSOCIATES INC.

 50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32309
 (904) 488-2427

REVISION	DATE	SCALE	1" TO 500'	COUNTY	MONROE
				SEC	TWP RGE
				OFF. NO.	5384
DWG. NAME	DATE	6-19-95		SHEET	7 OF 11

N 89581
E 393364

Lat: 24°34'40.00" N
Long: 81°47'27.00" W

N 89563
E 396411

Lat: 24°34'40.00" N
Long: 81°46'54.00" W

S 89°40' E

3046'

N 08°34' W

2189'

N 87956
E 394924

Lat: 24°34'24.00" N
Long: 81°47'10.00" W



SCALE IN FEET
1" = 500'

NOTES:

- DENOTES THALASSIA SEAGRASS
- DENOTES SYRINGODIUM SEAGRASS
- DENOTES THALASSIA & SYRINGODIUM SEAGRASS
- DENOTES POSITION OF MOORING BUOY

SEAGRASS BEDS WAS DIGITIZED FROM DWG:44130804 BY D.E.P.
ALL COORDINATES SHOWN ARE NAD83(90) FLORIDA EAST ZONE.

N 85739
E 394358

Lat: 24°34'02.00" N
Long: 81°47'16.00" W

N 85741
E 393942

Lat: 24°34'02.00" N
Long: 81°47'20.50" W

415'
N 89°40' W

3883'

2289'

S 14°20' W

RECEIVED 10/18/05

SEAGRASS MAP

PREPARED BY

AVIROM-HALL AND ASSOCIATES INC.
50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
BUREAU of SURVEY and MAPPING
3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
(904) 488-2427

REVISION	DATE	SCALE	1" TO 500'	COUNTY	MONROE
		DRAWN BY	K.M. C-A-T	SEC	TWP RGE
		CHECKED BY	M.D.A	OFF. NO.	5384
		DATE	6-19-95	SHEET	8 OF 11

N.A.S. ANNEX
TRUMBO POINT

GARRISON BIGHT CHANNEL

GARRISON BIGHT MARINA

OIL SKIMMER

FIRE BOAT

DINGY DOCK (50)

DOLPHIN PIER

SAILFISH PIER

MARLIN PIER

TARPON PIER

PALM AVENUE

DOCKMASTER

DUMPSTER

ROOSEVELT BLVD.
1

ROOSEVELT BLVD.

RESTROOMS & SHOWERS

BUS STOP

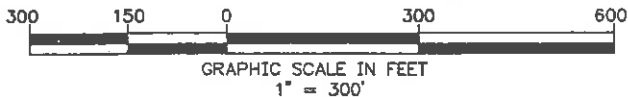
PARKING

1ST STREET
JUL 4 3 1995

**GARRISON BIGHT MARINA
AUXILIARY SERVICE AREA**

PREPARED BY

AVIROM-HALL AND ASSOCIATES INC.
50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
BUREAU of SURVEY and MAPPING
3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
(904) 488-2427

REVISION	DATE	SCALE	AS SHOWN	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC	TWP RGE
		CHECKED BY	M.D.A.	OFF. NO.	5384
DWG. NAME	DATE	6-20-95		SHEET 9 OF 11	

MANAGEMENT AGREEMENT AREA

LAND DESCRIPTION:

A portion of Sections 28, 29, 30, 31 and 32, Township 67 South, Range 25 East, known as the Seaplane Basin -- Key West, Monroe County, Florida, bounded as follows:



Being bounded on the Southeast by the apparent Northwest shore line and North right-of-way line of Roosevelt Boulevard (U.S. Highway No. 1), on the South by the apparent North shore line of the Naval Air Station at Trumbo Point Annex, on the West by the apparent East shore line of Fleming Key, and on the North by the Shark Drop Zone deep cut line and its westerly extension, on the East by the Easterly limits of the Shark Drop Zone deep cut line and the apparent Northerly, Westerly & Southwesterly shore line of Sigsbee Park U.S. Naval Reservation & Dredger Key Road.

Said lands lying and situate in the City of Key West, Monroe County, Florida.

RECEIVED SEP 29 1995

MANAGEMENT AGREEMENT AREA

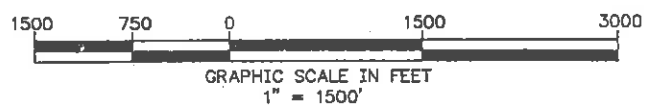
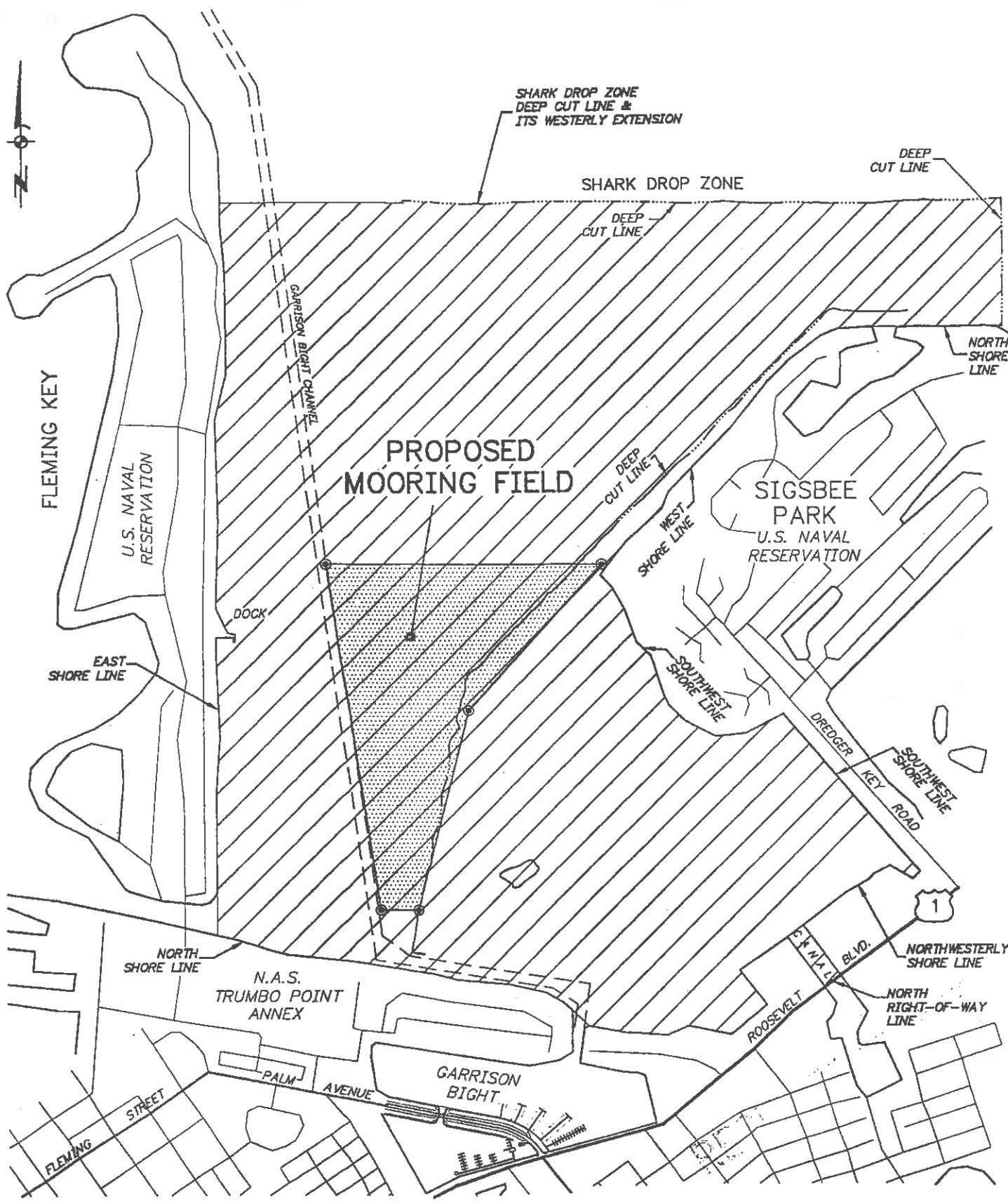
PREPARED BY

 **AVIROM-HALL AND ASSOCIATES INC.** 
 50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
 (904) 488-2427

REVISION	DATE	SCALE	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC TWP RGE
		CHECKED BY	M.D.A.	OFF. NO. 5384
DWG. NAME	DATE	9-06-95	SHEET	10 OF 11



MANAGEMENT AGREEMENT AREA

PREPARED BY
AVIROM-HALL AND ASSOCIATES INC.
 50 S.W. 2nd AVENUE, SUITE 102, BOCA RATON, FLORIDA, 33432
 TELEPHONE: (407)392-2594 FAX: (407)394-7125



DEPT. of ENVIRONMENTAL PROTECTION
 BUREAU of SURVEY and MAPPING
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
 (904) 488-2427

REVISION	DATE	SCALE	AS SHOWN	COUNTY	MONROE
		DRAWN BY	J.A.F.	SEC	TWP RGE
		CHECKED BY	M.D.A.	OFF. NO.	5384
DWG. NAME	DATE	9-06-95	SHEET	11 OF	11