ORIGINAL PERMIT
AND CALCULATIONS

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

BEG. PERMIT NUMBER:

OG - GO 442 -S - 14

APPLICATION NUMBER:

GEO-91004A-20

SOUTH FLORIDA WATER MANAGEMENT DISTRICT SURFACE WATER MANAGEMENT GENERAL PERMIT NO. 06-00442-S-14

Form #0942 08/95

DATE ISSUED: June 3, 1996

PERMITTEE: MULLINAX FORD SOUTH, INC. 5401 WEST COPANS ROAD MARGATE, FL 33480

PROJECT DESCRIPTION: MODIFICATION OF A SURFACE WATER MANAGEMENT SYSTEM SERVING 29.12
ACRE(S) OF COMMERCIAL DEVELOPMENT KNOWN AS MULLINAX SHERMAN

PROJECT LOCATION: BROWARD COUNTY, SECTION 19 TWP 48S RGE 42E SECTION 30 TWP 48S RGE 42E

This is to notify you of the District's agency action concerning Permit Application No. 960419-22, dated April 19, 1996. This action is taken pursuant to Rule 40E-1.606 and Chapter 40E-40, Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and a Surface Water Management General Permit is in effect for this project subject to:

- Not receiving a filed request for a Chapter 120, Florida Statutes, administrative
- 2. the attached Standard Limiting Conditions,
- 3. the attached 8 Special Conditions, and
- the attached 7 Exhibit(s).

Should you object to these Conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on the 3rd day of June, 1996, in accordance with Section 120.60(3), Florida Statutes.

BY:

P.E.

Anthony M. Waterhouse, Director - Surface Wat - Surface Water Management West Palm Beach Service Center

Certified Mail No. Z 261 279 542

Enclosures



Form 0537 3/96

South Florida Water Management District GENERAL PERMIT NOTICE OF RIGHTS

This Notice of Rights is intended to inform the recipient of the administrative and judicial review which may be available as mandated by section 120.60(3), Florida Statutes. Be advised that elthough this notice is intended to be comprehensive, the review procedures set forth herein have been the subject of judicial construction and interpretation which may affect the administrative of judicial review available. Recipients are therefore advised to become familier with Chapters 120 and 373, Florida Statutos, and the judicial interpretation of the

- If a substantially affected person objects to the staff's recommendation, that person has the right to request an administrative hearing on the proposed agency action. The substantially affected person may request either a formal or an informal hearing, as set forth below. Failure to comply with the prescribed time periods shall constitute a waiver of the right to a hearing.
- If a substantially affected person believes a genuine issue of material fact is in dispute, that person may request a formal hearing pursuant to section 120,57(1), Florida Statutes, by filing a petition not later than:
 - a. IF NOTICE OF THE APPLICATION WAS PUBLISHED BY THE APPLICANT, within fourteen (14) days after mailing of the
 - b. IF NOTICE OF THE APPLICATION WAS NOT PUBLISHED, within fourteen (14) days after receipt of actual notice.

The request for a section 120.57(1), F.S., formal hearing must comply with the requirements of Rule 40E-1.521, Florida Administrative Code, a copy of which is attached. Petitions are deemed filed upon receipt by the District. Failure to substantially comply with the provisions of Rule 40E-1.521, Florida Administrative Code, shall constitute a waiver of the right to a 120.57(1) hearing. If a petition for administrative hearing is not timely filed, the staff's proposed agency will automatically mature into final

- If a substantially affected person believes that no issues of material fact are in dispute, that person may request an informal hearing pursuant to section 120,57(2), F.S., by filing a petition for hearing not later than:
 - a. IF NOTICE OF THE APPLICATION WAS PUBLISHED BY THE APPLICANT, within fourteen (14)days after mailing of the
 - b. IF NOTICE OF THE APPLICATION WAS NOT PUBLISHED, within fourteen (14) days after receipt of actual notice. A request for informal hearing shall be considered as a waiver of the right to request a formal section 120.57(1), F.S., hearing. A

request for a section 120.57(1) F.S., formal hearing not in substantial compliance with the provisions of rule 40E-1.521, F.A.C., may be considered by the District as a request for informal hearing. If a polition for administrative hearing is not timely filed, the staff's proposed agency action will automatically mature into final agency action.

- Pursuant to section 373.114, Florida Statutes, a party to the proceeding below may seek review of a Final Order rendered on the permit application before the Land and Water Adjudicatory Commission, as provided therein. Review under this section is initiated by filing a request for review with the Land and Water Adjudicatory Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days after rendering of the District's Order. However, when the order to be reviewed has statewide or regional significance, as determined by the Land and Water Adjudicatory Commission within 60 days after receipt of a request for review, the commission may accept a request for review from any affected person within 30 days after the rendering of the order. Soview under section 373.114, Florida Statutes, is limited solely to a determination of consistency with the provisions and purposes of Chapter 373, Florida Statutes. This review is appellate in nature and limited to the
- A party who is adversely affected by final agency action on the permit application is entitled to judicial review in the District Court of Appeal pursuant to section 120,68, Florida Statutes, as provided therein. Review under Section 120,68, Florida Statutes in the District Court of Appeal is initiated by filing a petition in the appropriate District Court of Appeal in accordance with Florida rule of appellate Procedure 9.110. The Notice of Appeal must be filed within 30 days of the final agency action.
- Section 373.617(2), Florida Statutes, provides:

Any person substantially affected by a final action of any agency with respect to a permit may seek review within 90 days of the rendering of such decision and request monetary damages and other relief in the circuit court in the judicial circuit in which the affected property is located; however, circuit court review shall be confined solely to determining whether final agency action is an unreasonable exercise of the state's police power constituting a taking without just compensation. Review of final agency action for the purpose of determining whether the action is in accordance with existing statutes or rules and based on component substantial

Please be advised that exhaustion of administrative remedies is generally a prerequisite to appeal to the District Court of Appeal or the seeking of Circuit Court review of final agency action by the District on the permit application. There are, however, exceptions to the exhaustion requirement. The applicant is advised to consult the case law as to the requirements of exhaustion exceptions.

Initiation of Formal Proceedings

- (1) Initiation of formal proceedings shall be made by potition to the District. The term potition as used herein includes any application or other document—which expresses a request for formal proceedings. Each potition should be printed, typewritten or otherwise duplicated in legible form on white paper or standard legal size. Unless printed, the impression shall be on one side of the paper only an lines shall be double-spaced and indented.
 - (2) All petitions filed under these rules shall contain:
 - (a) The name and address of the District and the District's file or identification number, if known;
 - The name and address of the petitioner or petitioners;
 - (c) An explanation of how each petitioner's substantial interests will be affected by the District's determination;
 - (d) A statement of when and how patitioner received notice of the District's decision or intent to render a decision;
 - (e) A statement of all disputed issues of material fact. If there are none, the petitioner must so indicate;
 - (f) A concise statement of the ultimate facts which petitioner believes entitle petitioner to the relief sought as well as the rules and statutes which support petitioner's claim for relief;
 - (g) A demand for the relief to which the petitioner deems himself entitled; and
 - (h) Other information which the petitioner contends is material.
- (3) Upon receipt of a petition for formal proceedings, the Office of Counsel shall review the petition for compliance with subsection (2). The Board shall accept those petitions in substantial compliance therewith, which have been timely filed, which establish that the petitioner is a substantially affected party, and which state a dispute which is within the jurisdiction of the District to resolve. If accepted, the Board shall designate the presiding efficer of the administrative hearing. The District shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefor.
- (4) If a petition is filed that does not substantially comply with the requirement of subsection (2) of this section, the District shall issue an order dismissing the potition with leave to file an amended petition complying with the requirements of this rule within the time period designated in the order. If an amended petition complying with this rule is not filed with the District Clerk within the designated time period, the petitioner's right to a processing under Section 120.57, Florida Statutes, is welved.
- (5) If a valid petition is filed, with the consent of all parties and upon a showing of good cause, Board action on the petition pursuant to Section 120.57(1)(b) shall be waived. "Good cause" shall mean a set of circumstances unforeseen and outside of the control of the person requesting the waiver.
- (6) When a valid patition for administrative hearing has been filed, the Board action shall defer consideration of the matter pending the completion of the administrative hearing and the submittal of a recommended order, and any exceptions to that order.
- (7) If the Board designates a Hearing Officer assigned by the Division of Administrative Hearings as the presiding officer, the District Clerk shall forward the petition and all relevant materials filed with the District to the Division of Administrative Hearings, and shall notify all parties of its action.

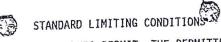
Specific Authority 120.53, 373.044, 373.113 F.S. Law Implemented 120.53(1), 120.57, 373.113 F.S. History -- new 9-3-81, formerly 16K-109.(1), 16K-1.112(1) --(3), 16K-1.12, Amended 5-11-93.



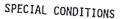
- I. THE PERMITTEE SHALL IMPLEMENT THE WORK AUTHORIZED IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACT OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES, AND WATER QUALITY. THE PERMITTEE SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES, TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
- 2. WATER QUALITY DATA FOR THE WATER DISCHARGED FROM THE PERMITTEE'S PROPERTY OR INTO SURFACE WATERS OF THE STATE WILL BE SUBMITTED TO THE DISTRICT AS REQUIRED BY SECTION 5.9, "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN SOUTH FLORIDA WATER MANAGEMENT DISTRICT MARCH, 1994."

 PARAMETERS TO BE MONITORED MAY INCLUDE THOSE LISTED IN CHAPTER 62-302, F.A.C. OF WATER QUALITY DATA IS REQUIRED, THE PERMITTEE SHALL PROVIDE DATA ON VOLUMES SAMPLING AND TOTAL MONTHLY DISCHARGES FROM THE PROPERTY OR INTO SURFACE WATERS OF THE STATE.
- 3. THIS PERMIT SHALL NOT RELIEVE THE PERMITTEE OF ANY OBLIGATION TO OBTAIN NECESSARY FEDERAL, STATE, LOCAL OR SPECIAL DISTRICT APPROVALS.
- 4. THE OPERATION PHASE OF THIS PERMIT WILL NOT BECOME EFFECTIVE UNTIL THE DISTRICT'S ACCEPTANCE OF CERTIFICATION OF THE COMPLETED SURFACE WATER WATER MANAGEMENT SYSTEM. THE PERMITTEE SHALL REQUEST TRANSFER OF THE PERMIT TO THE RESPONSIBLE OPERATIONAL ENTITY ACCEPTED BY THE DISTRICT, IF DIFFERENT FROM THE PERMITTEE. THE TRANSFER REQUEST CAN BE SUBMITTED CONCURRENTLY WITH THE CONSTRUCTION COMPLETION CERTIFICATION.
- 5. ALL ROAD ELEVATIONS SHALL BE SET IN ACCORDANCE WITH THE CRITERIA SET FORTH IN SECTION 6.5, "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN SOUTH FLORIDA WATER MANAGEMENT DISTRICT MARCH, 1994."
- 6. ALL BUILDING FLOOR ELEVATIONS SHALL BE SET IN ACCORDANCE WITH THE CRITERIA SET FORTH IN SECTION 6.4, "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN SOUTH FLORIDA WATER MANAGEMENT DISTRICT MARCH, 1994."
- 7. OFF-SITE DISCHARGES DURING CONSTRUCTION AND DEVELOPMENT WILL BE MADE ONLY THROUGH THE FACILITIES AUTHORIZED BY THIS PERMIT.
- 8. A PERMIT TRANSFER TO THE OPERATION PHASE SHALL NOT OCCUR UNTIL A RESPONSIBLE ENTITY MEETING THE REQUIREMENT IN SECTION 9.0, "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN SOUTH FLORIDA WATER MANAGEMENT DISTRICT MARCH, 1994," HAS BEEN ESTABLISHED TO OPERATE AND MAINTAIN THE SYSTEM. THE ENTITY MUST BE PROVIDED WITH SUFFICIENT OWNERSHIP OR LEGAL INTEREST SO THAT IT HAS CONTROL OVER ALL WATER MANAGEMENT FACILITIES AUTHORIZED HEREIN.
- 9. THE PERMIT DOES NOT CONVEY TO THE PERMITTEE ANY PROPERTY RIGHT NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED IN THE PERMIT AND CHAPTER 40E-4, FAC.
- 10. THE PERMITTEE SHALL HOLD AND SAVE THE DISTRICT HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE BY REASON OF THE CONSTRUCTION, OPERATION, MAINTENANCE OR USE OF ANY FACILITY AUTHORIZED BY THE PERMIT.
- 11. THIS PERMIT IS ISSUED BASED ON THE APPLICANT'S SUBMITTED INFORMATION WHICH REASONABLY DEMONSTRATES THAT ADVERSE WATER RESOURCE RELATED IMPACTS WILL NOT BE THE COMPLETED SURFACE WATER MANAGEMENT SYSTEM OCCUR, THE DISTRICT WILL REQUIRE IMPACTS CAUSED BY THE PERMITTEE TO PROVIDE APPROPRIATE MITIGATION TO THE DISTRICT WILL REQUIRE IMPACTED PARTY. THE DISTRICT WILL REQUIRE THE PERMITTEE TO MODIFY THE SURFACE WATER MANAGEMENT SYSTEM, IF NECESSARY, TO ELIMINATE THE CAUSE OF THE ADVERSE

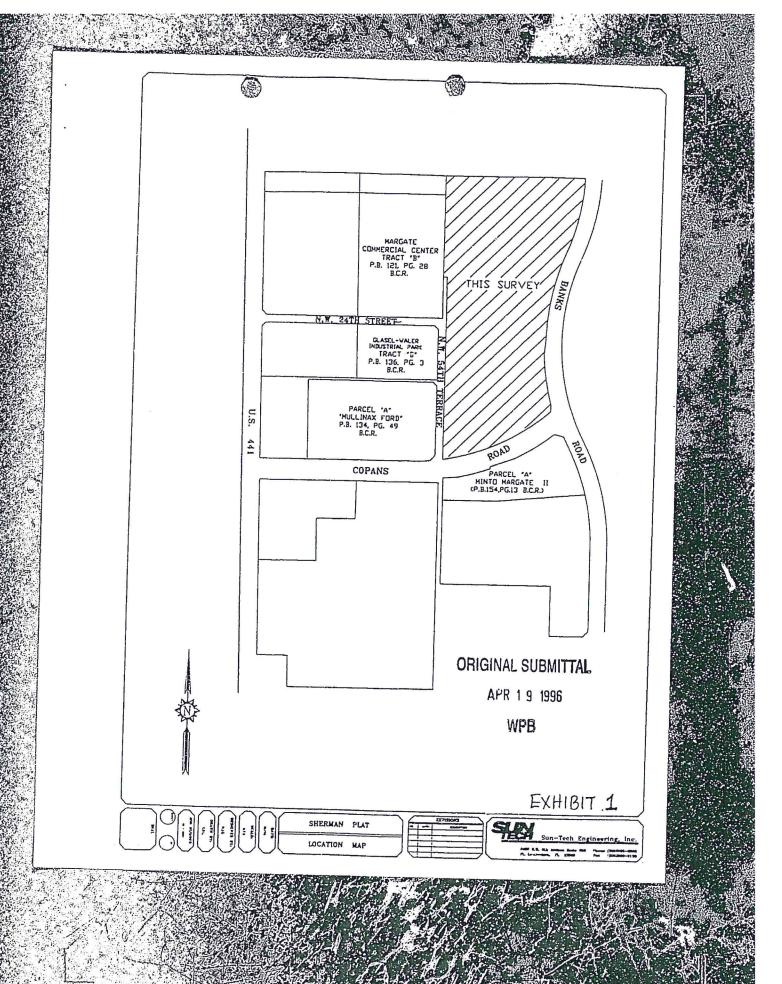
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- 12. WITHIN 30 DAYS OF ISSUANCE OF THIS PERMIT, THE PERMITTEE OR AUTHORIZED AGENT SHALL NOTIFY THE DISTRICT (VIA THE SUPPLIED CONSTRUCTION COMMENCEMENT NOTICE OR EQUIVALENT) OF THE ACTUAL OR ANTICIPATED CONSTRUCTION START DATE AND THE EXPECTED COMPLETION DATE.
- 13. WHEN THE DURATION OF CONSTRUCTION EXCEEDS ONE YEAR, THE PERMITTEE OR AUTHORIZED AGENT SHALL SUBMIT CONSTRUCTION STATUS REPORTS ON AN ANNUAL BASIS (VIA THE SUPPLIED ANNUAL STATUS REPORT OR EQUIVALENT) BEGINNING ONE YEAR AFTER THE INITIAL COMMENCEMENT OF CONSTRUCTION.
- 14. WITHIN 30 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE PERMITTF OR AUTHORIZED AGENT SHALL FILE A WRITTEN STATEMENT OF COMPLETION AND CERTIL CATION BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, COMPLETION AND THESE STATEMENTS MUST SPECIFY THE ACTUAL DATE OF CONSTRUCTION COMPLETION AND THESE STATEMENTS MUST SPECIFY THE ACTUAL DATE OF CONSTRUCTION SUBSTANTIAL MUST CERTIFY THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DISTRICT (VIA THE SUPPLIED CONSTRUCTION COMPLETION COMPLETION CONSTRUCTION OF EQUIVALENT). THE SUPPLIED CONSTRUCTION CERTIFICATION MUST INCLUDE, AT A MINIMUM, EXISTING CONSTRUCTION COMPLETION CERTIFICATION MUST INCLUDE, AT A MINIMUM, EXISTING ELEVATIONS, LOCATIONS AND DIMENSIONS OF THE COMPONENTS OF THE WATER MANAGEMENT ELEVATIONS, LOCATIONS AND DIMENSIONS OF THE COMPONENTS OF THE WATER MANAGEMENT FACILITIES. ADDITIONALLY, IF DEVIATIONS FROM THE APPROVED DRAWING ARE DISCOVERED DURING THE CERTIFICATION PROCESS, THE CERTIFICATION MUST BE DISCOVERED DURING THE CERTIFICATION PROCESS, THE CERTIFICATION MUST BE ACCOMPANIED BY A COPY OF THE APPROVED PERMIT DRAWINGS WITH DEVIATIONS NOTED.
- 15. WITHIN 30 DAYS OF ANY SATE. CONVEYANCE OR OTHER TRANSFER OF ANY OF THE LAND WHICH IS PROPOSED FOR DELEMENT UNDER THE AUTHORIZATION OF THIS PERMIT, THE PERMITTEE SHALL NOTIFY THE DISTRICT OF SUCH TRANSFER IN WRITING VIA EITHER FORM 0483, REQUEST FOR PERMIT TRANSFER; OR FORM 0920, REQUEST FOR TRANSFER OF SURFACE WATER MANAGEMENT CONSTRUCTION PHASE TO OPERATION PHASE (TO BE COMPLETED AND SUBMITTED BY THE OPERATING ENTITY), IN ACCORDANCE WITH SECTIONS 40E-1.6105 AND 40E-4.351, F.A.C.
- 16. A PRORATED SHARE OF SURFACE WATER MANAGEMENT RETENTION/DETENTION AREAS, SUFFICIENT TO PROVIDE THE REQUIRED FLOOD PROTECTION AND WATER QUALITY TREATMENT, MUST BE PROVIDED PRIOR TO OCCUPANCY-OF-ANY-BUILDING-OR-RESIDENCE.
- 17. A STABLE, PERMANENT AND ACCESSIBLE ELEVATION REFERENCE SHALL BE ESTABLISHED ON OR WITHIN ONE HUNDRED (100) FEET OF ALL PERMITTED DISCHARGE STRUCTURES NO LATER THAN THE SUBMISSION OF THE CERTIFICATION REPORT. THE LOCATION OF THE ELEVATION REFERENCE MUST BE NOTED ON OR WITH THE CERTIFICATION REPORT.
- 18. IT IS THE RESPONSIBILITY OF THE PERMITTEE TO INSURE THAT ADVERSE OFF-SITE WATER RESOURCE RELATED IMPACTS DO NOT OCCUR DURING CONSTRUCTION.
- 19. THE PERMITTEE MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING, UNLESS THE WORK QUALIFIES FOR A GENERAL PERMIT PURSUANT TO SUBSECTION 40E-20.302(4), F.A.C.



- 1. MINIMUM BUILDING FLOOR ELEVATION: 14 FEET NGVD.
- DISCHARGE FACILITIES: THROUGH PREVIOUSLY PERMITTED FACILITIES.
- THE PERMITTEE SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION OR OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM.
- MEASURES SHALL BE TAKEN DURING CONSTRUCTION TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.
- THE DISTRICT RESERVES THE RIGHT TO REQUIRE THAT ADDITIONAL WATER QUALITY TREATMENT METHODS BE INCORPORATED INTO THE DRAINAGE SYSTEM IF SUCH MEASURES ARE SHOWN TO BE NECESSARY.
- LAKE SIDE SLOPES SHALL BE NO STEEPER THAN 4:1 (HORIZONTAL: VERTICAL) TO A DEPTH OF TWO FEET BELOW THE CONTROL ELEVATION. SIDE SLOPES SHALL BE NURTURED OR PLANTED FROM 2 FEET BELOW TO 1 FOOT ABOVE CONTROL ELEVATION TO INSURE VEGETATIVE
- FACILITIES OTHER THAN THOSE STATED HEREIN SHALL NOT BE CONSTRUCTED WITHOUT AN APPROVED MODIFICATION OF THIS PERMIT.
- OPERATION OF THE SURFACE WATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF MULLINAX FORD SOUTH, INC..



MULLINAX SHERMAN PARCEL PERMIT SUMMARY SHEET

APPLICATION NUMBER: 960419-22

PERMIT MODIFICATION NO.: 06-00442-S

LOCATION: BROWARD COUNTY,

S19/T48S/R42E S30/T48S/R42E

OWNER: MULLINAX FORD SOUTH, INC.

PROJECT AREA:

29.12 ACRES DRAINAGE AREA:

29.12 ACRES

PROJECT USE: COMMERCIAL

FACILITIES:

1. PROPOSED: This application is a request to modify Permit No. 06-00442-S for connstruction and operation of a surface water management system to serve a 29.12 acre commercial parcel located within the Cocomar Water Control District (Margate Fastern Tier). A system of inlets and culverts will direct runoff from the site to dry retention swales and exfiltration trench for water quality pretreatment. Overflow is to a 4.0 acre lake which will be incororated into the Margate Fastern Tier master water management system. Staff Margate Eastern Tier master water management system. Staff recommends approval with conditions.

PROJECT LEVEL:

DRAINAGE BASIN: C-14

RECEIVING BODY: EXISTING SYSTEM

WATER QUALITY:

Dry pre-treatment of the first 1/2 inch of runoff for this site will be provided in retention swales and exfiltration trench.

Water quality for the entire Margate Eastern Tier basin is provided within the Cocomar Water Control Disrtict canal system.

ENVIRONMENTAL ASSESSMENT:

Exhibit 2a



PERMIT SUMMARY SHEET

EXISTING ON SITE UPLAND COMMUNITIES:

ID NO	TOTAL ACREAGE	BIOLOGICAL CONDITION	COMMUNITY Type	COMMUNITY
1	29.12	N/A	ROW CROPS	ACREAGE 29.12

TOTAL ON SITE UPLAND ACREAGE:

29.12

ENVIRONMENTAL SUMMARY:

The project site currently consists of remnant agricultural fields with Brazilian pepper along the existing ditches. There are no wetlands on the site and there are no wetland protection or mitigation requirements in the permit for this parcel.

Adverse impacts to wetlands are not anticipated as a result of the proposed construction.

PERMITTED	THIS PHASE 29.12 4.80 15.12 3.50 5.70	acres acres acres acres
	PERMITTED	29.12 4.80 15.12 3.50

DIVISIONAL APPROVAL:

SURFACE WATER MANAGEMENT

Carlos A. de Rojas, P.E.

NATURAL RESOURCE MANAGEMENT

Robert M. Brown

DATE: 5/28/96

Exhibit 2b

MULLINAX FORD SHERMAN PARCEL Storm Water Management Calculations April, 1996

1) Landuse Breakdown

Total Site	=	20.124.0
Building	=	29.12AC + 1.52AC (off-site) = 30.64 3.50 AC
Grass	=	
Lake	=	5.70AC + 0.55AC (off-site) = 6.24
Asphalt	=	4.00AC + 0.97AC (off-site) = 4.97
Dry Retention	=	0.80AC

2) Soil Storage

3) Required Detention

According to the existing master permit, the project must provide 15% of lake area. This criteria will be met by 4.0 acres on-site and 0.97 acres of off-site per the attached agreement Exhibit "J", equating to 16.2%

4) Pretreatment

A. Areas to be handled by exfiltration trench

死

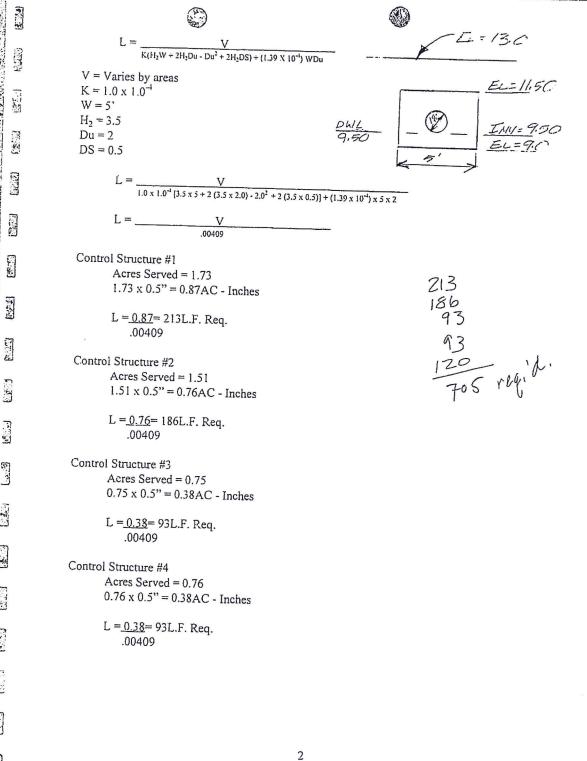
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是一个人,然后,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人, 第一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也





Control Structure #5 Acres Served = 0.98 0.98×0.5 " = 0.49AC - Inches L = 0.49 = 120L.F. Req..00409 Pre-treatment in Dry Retention areas Total Site = 29.12AC Lakes = (4.00)AC Bldgs. = (3.50)ACAreas handled by trench = (5.73)ACTotal Served by Dry Retention 15.89AC 7.50ac. buildings + lake Total Bottom area Dry Retention = 0.80 Total Volume Required $L = \underline{15.89 \times 0.5^{\circ}} = 0.66 \text{ AC - FT}$ Volume stored at EL 11.45 Bottoms $0.7' \times 0.80 = 0.56 \text{ AC - FT}$ Banks $0.7' \times 2.8 \times 2 = 1.96 \text{ C.F./L.F.}$ 2600 L.F. x 1.96 C.F. = 0.12 AC - FT 43,560 TOTAL PROVIDED + 0.68 AC - FT 3

$$100yr - 3day = 20$$
"

Runoff Q

$$\frac{Q = (P - 0.2S)^2}{P + 0.8S} = \frac{(20 - .30)^2}{20 + 1.18}$$

$$Q = 396.41 = 18.72$$
"
21.'8

$$\frac{18.72$$
° X 30.64AC = 47.80AC - FT

From stage vs. storage this results in a stage of 14.11 minumum FF = 14.75

6) Check Minimum Road EL

$$\frac{Q = (P - 0.2S)^2}{P + 0.8S} = \frac{(10 - .30)^2}{10 + 1.18}$$

$$Q = 94.17 = 8.42$$
"
 11.18

$$8.42$$
" x 30.64AC = 21.50AC - FT

From stage vs. storage this results in a stage of 12.42 min. RD EL = 12.75

).						
		@	Stage =====	- Stor		putations
	Stage Feet NGVD	4.97 ac lake Storage ac-ft	.8 ac ret Storage ac-ft	15.12 ac pav't Storage ac-ft	6.24 ac grass Storage ac-ft	Total Storage ac-ft
		***** **** ***** ***** 9.5	***** ***** ***** 10.7	* 14. ** *** **** ****	** *** ***	
	9.50 10.00 10.50 11.50 12.00 12.50 13.50 14.00 14.50 15.00	0.00 2.48 4.97 7.46 9.94 12.42 14.91 17.39 19.88 22.37 24.85 27.34	0.00 0.00 0.00 0.20 0.60 1.00 1.40 1.80 2.20 2.60 3.00 3.40	0.00 0.00 0.00 0.00 0.00 0.00 0.27 2.43 6.75 13.23 20.79	0.00 0.16 0.66 1.48 2.63 4.11 5.91 8.05 10.51 13.30 16.38 19.50	0.00 2.64 5.63 9.14 13.17 17.53 22.22 27.51 35.02 45.02 57.46 71.03

