

File: 66420
**MANATEE COUNTY
GOVERNMENT**

Public Works Department
stormwater
mustang
file

Lona Rd permit
G.L.

D.E.R.

June 24, 1992

JUN 29 1992

SOUTHWEST DISTRICT
TAMPA

Bob Butera
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Dear Mr. Butera:

Re: Stormwater Discharge

As notified by telephone at 9:29, on June 24, 1992, Manatee County Landfill facility is experiencing periodic stormwater discharge from the west weir into Cypress Strand Creek.

If the discharges become continuous, we will sample for bio-assay. If not, the underdrains will be tested in accordance with the permit parameters.

If you have any question regarding this matter, please contact this office.

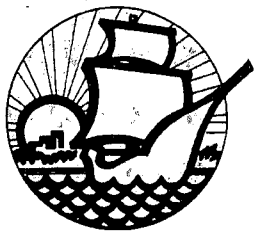
Sincerely,

Gregory F. Yekaitis
Solid Waste Technical Coordinator

GFY/bat

cc: Charles Hunsicker, Acting Director of Public Works
Daniel T. Gray, Deputy Director of Operations
Gus A. DiFonzo, Solid Waste Division Manager
E. "Bud" Bell, Landfill Operation Superintendent





MANATEE COUNTY GOVERNMENT

Public Works Department

March 29, 1991

Kim Ford
Dept. of Environmental Resources
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

D. E. R.

APR - 1 1991

SOUTHWEST DISTRICT
TAMPA

Re: **Permits**

After conversation with you last week, please find attached copies of all permits for the Landfill. The survey for as-builts on Stage III is being completed now and the Drawings should be in your office the week of 4/8/91.

If I can be any further assistance, please contact me at (813) 794-1919, extension 5660.

Sincerely,

Mark A. Ventriglia
Chief Design Engineer

MAV/lgb

c: Dan Gray

REQUEST TO ENTER INTO A
LIMITED CONSTRUCTION COMMENCEMENT AGREEMENT
PERMIT APPLICATION NO: MSW 40 3143.01

The following references apply to the commencement of site activity prior to the issuance of a permit for management and storage of surface waters. Site activity so identified must satisfy the requirements of a limited construction commencement agreement and other site specific requirements as deemed appropriate by the District:

1. The commencement of site activity shall be only as described on construction drawings and in accordance with a limited construction commencement agreement, if executed.
2. No off site impacts shall occur.
3. All site activity shall be at the Owner's risk.
4. No adverse environmental impacts on wetlands shall occur.
5. Preliminary application review by the District must indicate the project has no controversial or unusual features, and the site activity shall be consistent with a project which is apparently able to be permitted.
6. The site activity must be authorized by all other agencies with jurisdiction over the project.
7. District representatives may inspect the site activity at any and all reasonable times without prior notice to verify compliance with an Agreement.
8. In addition to the completed Permit Application, the following construction drawings and specific information are referenced to further identify the type, character and limits of construction activities to be commenced at the site, as certified by the Engineer of Record.

(Please print or type)

Lena Road Landfill Stormwater Management construction

Drawing Sheet 1 thru 13

By: *H. Wayne Roberts*
Signature of Engineer of Record

(Affix Seal)

H. Wayne Roberts, P.E.
Name

39612
Florida Registration Number

Manatee County Public Works
Company Name

315 75th Street West
Company Address

Bradenton, Florida 34209

(813) 794-1939
Telephone Number

May 14, 1990
Date

LIMITED CONSTRUCTION COMMENCEMENT AGREEMENT
PERMIT APPLICATION NO. MSW 40 3143.01

THIS LIMITED CONSTRUCTION COMMENCEMENT AGREEMENT by and between the SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, hereinafter referred to as "the District," and Manatee County Public Works Dept., hereinafter referred to as "the Owner," is made and entered into the later date of signing by the parties.

WITNESSETH:

WHEREAS, the Owner is the proprietary representative of that certain real property, hereinafter referred to as "the Project Area," described in Surface Water Permit Application No. MSW 40 3143.01 on file with the District, hereinafter referred to as "the Permit Application," and made a part hereof by reference; and

WHEREAS, the Owner intends to improve the Project Area by building a new surface water management system and related facilities, hereinafter referred to as "the Improvements;" and

WHEREAS, the Owner has applied to the District for a Surface Water Management Permit in accordance with Chapter 40D-4, Florida Administrative Code (F.A.C.), for the construction of the Improvements on the Project Area; and

WHEREAS, the District has not completed its review and evaluation of the Owner's Permit Application, and the Owner, by entering into the Agreement, has requested the District's consent to commence certain limited construction activities within the Project Area prior to the District's issuance of a Permit, if issued.

NOW, THEREFORE, in consideration of the Permit Application and fee therefore, the receipt of which is hereby acknowledged, the parties hereto mutually agree as follows:

1. The Owner has submitted a written request to the District to enter into a limited construction commencement agreement, which request shall be part of the Permit Application.
2. Upon receipt by the Owner of written notice from the District that the Permit Application is complete in accordance with Rule 40D-1.603 and Chapter 40D-4, F.A.C., the District hereby consents to the Owner's commencement of site activity within the Project Area. The completed Permit Application includes specific information to identify satisfactorily the type, character and limits of site activity to be commenced, including the requirements of Rule 40D-4.101, F.A.C., and any other information required in accordance with this Agreement.
3. For the purpose of the Agreement, "commencement of site activity" shall mean only those certain limited site construction activities which may be conducted in conjunction with the work set forth in the Permit Application, specifically: _____

Any such activities undertaken must comprise the limited construction of portions of the Improvements, all within the Project Area and in the manner depicted in the Permit Application and as more explicitly described and identified in Exhibit _____, attached hereto and incorporated herein by reference.

4. The sole purpose of this Agreement is to allow the Owner to commence site activity within the Project Area for the limited construction of portions of the Improvements prior to the District's action on the Permit Application. By executing this Agreement, the District has not in any way committed itself to issue a Permit, and has not in any way created any vested rights in favor of the Owner. The Owner hereby acknowledges that it is proceeding with the commencement of site activity pursuant to this Agreement at its own risk and expense.
5. The Owner hereby indemnifies and holds harmless the District from any and all causes of action, claims, damages, expenses, or suits that the District may incur by the Owner proceeding with the commencement of site activity prior to the issuance of a permit, if issued.
6. The Owner shall take all measures upon commencement of site activity necessary to minimize any adverse impact on fish, wildlife, natural environmental values and water quality. The Owner shall insure that adverse off-site water resource related impacts do not occur during commencement of site activity.
7. The Owner shall comply with all applicable local ordinances and regulations. Prior to commencement of site activity on the Project Area, the Owner shall obtain all required federal, state, local and special district authorizations.
8. The Owner shall allow District representatives to enter the Project Area at any and all reasonable times without prior notice to inspect the Project Area and to verify that the site activity is in compliance with this Agreement.
9. This Agreement shall terminate (1) upon issuance or denial of a Surface Water Management Permit in accordance with Chapter 40D-4, F.A.C., or (2) upon written notification to the Owner by the District that any of the terms of this Agreement have not been fulfilled, or (3) upon written notification that the District staff has determined, based on new information, that termination is necessary, or (4) ninety (90) days from the date of completion of the Permit Application, or (5) upon receipt of a petition for formal or informal proceedings which complies with Rule 40D-1.521 or 40D-1.571, F.A.C., whichever occurs first.
10. Except as otherwise herein provided, this Agreement is effective the later date of signing by the parties.
11. The Permitting Department Director's approval of this Agreement is subject to concurrence by the Governing Board at its next regularly-scheduled meeting, and failure of the Governing Board to concur herein shall render this Agreement null and void.

IN WITNESS WHEREOF, the lawful representatives of the parties hereto have set their hands and seals on the day and year below indicated.

SIA Mallana
Witness

X FOR THE OWNER

By: H. Wayne Roberts

H. Wayne Roberts, P.E.
Name (Please print or type)

County Engineer
Title

5/14/90
Date

FOR THE DISTRICT

By: _____

Witness

October 19, 1989

MEMORANDUM

TO: PETER G. HUBBELL, Executive Director

THROUGH: DARYL R. FLATT, P.E., Supervisor, Surface Water
Permitting, Venice Permitting Department

FROM: _____, Permit Reviewer

SUBJECT: MSW No. 403143.01
Project Name: Lena Road Landfill
County: Manatee
Request for Limited Construction Commencement Agreement
(LCCA)

The subject owner/applicant has requested to enter into a LCCA.
The following items are accomplished:

1. _____ A request to enter into a LCCA has been sufficiently
executed and submitted to the Department.
2. _____ The permit application has been deemed complete.
3. _____ The staff has determined that issuance of the permit
will be recommended and that the LCCA is appropriate
for this project.
4. _____ The owner/applicant has executed two original copies of
the LCCA which are now satisfactorily assembled and
attached herewith.

It is recommended that the Executive Director or his designee
approve the LCCA and that the owner/applicant be so advised by
the Processing and Records Section.

JM:jb

cc: A.ADAMS
D.R.FLATT
M.A.BARTH
File of Record



Southwest Florida Water Management District

2379 Broad Street (U.S. 41 South) Brooksville, Florida 34609-6899
Phone (904) 796-7211 or 1-800-423-1476 SUNCOM 628-4150

June 22, 1990

Michael Zagorac, Jr.
Chairman, Belleair
Walter H. Harkala
Vice Chairman, Plant City
Anne Bishopric Sager
Secretary, Venice
Roy G. Harrell, Jr.
Treasurer, St. Petersburg
William H. Wilcox, Ph.D.
Port Charlotte
Mary Ann Hogan
Brooksville
Charles A. Black
Crystal River
Joseph S. Casper
Tampa
Samuel D. Updike
Lake Wales

Peter G. Hubbell
Executive Director
Mark D. Farrell
Assistant Executive Director
Kent A. Zaiser
General Counsel
Stuart C. Anderson
Deputy Executive Director
Resource Management
William K. Hennessey
Deputy Executive Director
Community Affairs
Richard V. McLean
Deputy Executive Director
Resource Regulation
Albert L. Wyand
Deputy Executive Director
Administration and Support

H. Wayne Roberts, P.E.
Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

SUBJECT: LIMITED CONSTRUCTION COMMENCEMENT AGREEMENT

RE: Project Name: Lena Road Landfill
File No.(s): 403143.01
County: Manatee
Section(s) 1 & 2, Township 35, Range 18

Dear Sir:

Attached is your approved Limited Construction Commencement Agreement (LCCA). The authorized construction is indicated in clause No. 3 of the LCCA.

If you have any questions, please contact Scott Kamien at (813) 488-4666.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Paul Desmarais".

A. Paul Desmarais
Director, Venice Permitting Department
Resource Regulation

APD:SMK:mdf
Enclosures: LCCA
Construction Drawings

cc: File of Record
Scott Kamien
Joseph Madrak

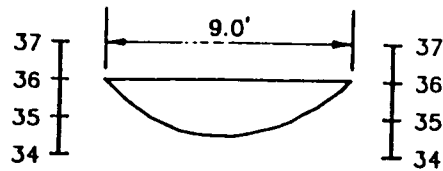
RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISION DETERMINING SUBSTANTIAL INTERESTS

PART II
FORMAL PROCEEDINGS

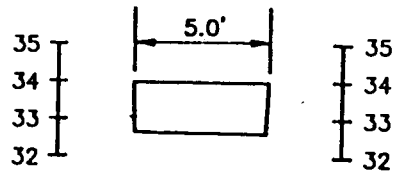
28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a 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, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (f) Other information which the petitioner contends is material.

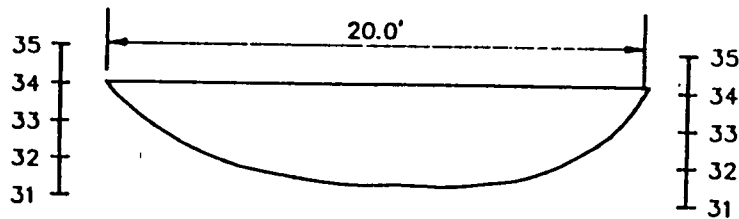
A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201(3)(a), FAC)



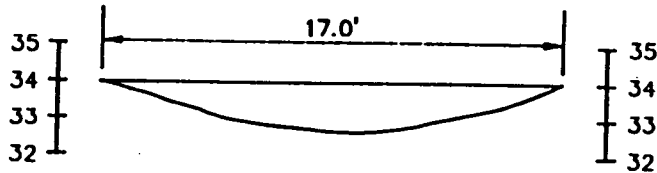
SECTION H
OUTFALL OF WETLAND #6



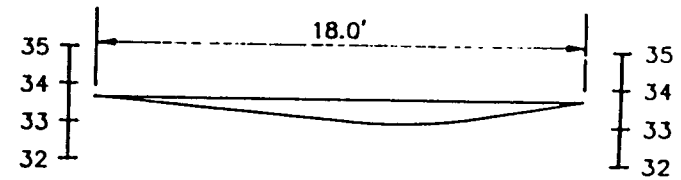
SECTION I
INLET OF WETLAND #7



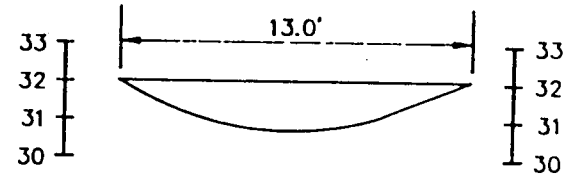
SECTION J
OUTFALL OF WETLAND #7



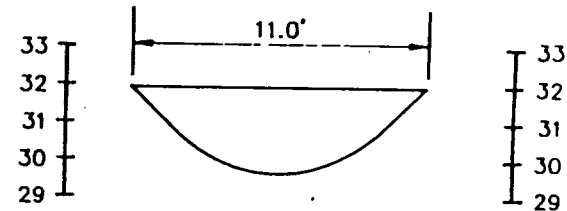
SECTION K
INLET OF WETLAND #8



SECTION L
OUTLET OF WETLAND #8



SECTION M
INLET OF WETLAND #9



SECTION N
OUTFALL OF WETLAND #9

NOTE:
ELEVATIONS IN N.G.V.D.

FIGURE 13. TYPICAL CROSS SECTIONS OF EXISTING
WETLAND DITCHES FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

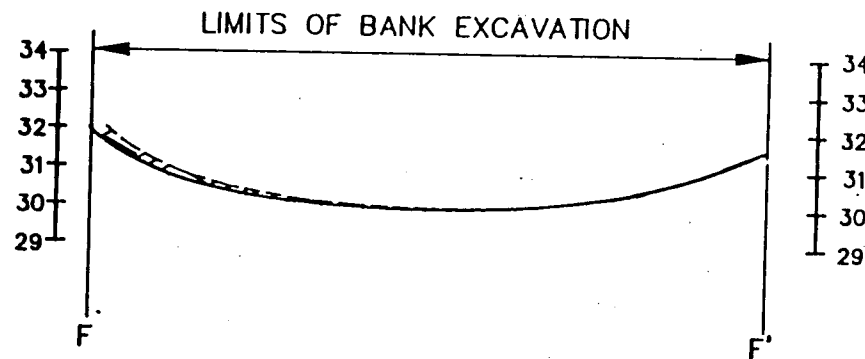
PERMIT NO. 411352349

RECEIVED OCT 14 1987

John A. [Signature]

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION F-F'

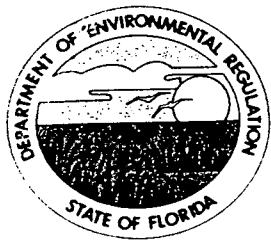
FIGURE 12. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED MITIGATION AREA #9 FOR LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352341

John. [Signature]

RECEIVED OCT 14 1987



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 12, 1990

Mr. H. Wayne Roberts, P.E.
Manatee County Public Works Department
315 75th Street West
Bradenton, Florida 34209

Dear Mr. Roberts:

Permit No. 411352349, Manatee County
Manatee County Public Utilities (Lena Road Landfill)

Your request to modify this permit has been received and reviewed by Department staff. The modifications are to increase the acreage of herbaceous wetland creation from 36.2 to 44.09 ac., to create 1.71 ac. of forested wetland, and to enhance an additional 6.15 ac. of degraded wetland. The 6.15 ac. of wetland to be enhanced consists of all of Wetland 6 and 8 and 2.35 ac. of Wetland 7 as shown on sheet 3 of 17. These areas have been over drained and invaded by exotic and nuisance vegetation. These areas will be enhanced by removing the exotic and nuisance vegetation, scraping down to improve the hydrology, and mulching the deepened areas with topsoil and muck from an adjacent wetland which is authorized to be filled by this permit. The created and enhanced wetlands will be primarily herbaceous, as originally permitted, but will now include 1.71 ac. of forested wetland.

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 modifications.

Mr. H. Wayne Roberts, P.E.
File No. 411352349
October 12, 1990
Page 2

This letter of approval does not alter the December 10, 1992 expiration date or General Conditions of the permit. Specific Conditions and monitoring requirements shall be changed as described below. This letter and accompanying drawings must be attached to the original permit.

Specific Condition 5 shall now read as follows:

5. The wetland creation and enhancement areas shall be constructed as described on Sheet 12 of 17 of the attached drawings and as illustrated on Sheets 6, 7, and 8 of 17 of the attached drawings. A wetland ecologist shall stake out the no construction area in Wetland 7, and the inner, middle and outer zones of Wetlands 1 and 2. A wetland ecologist shall approve final grading in Wetlands 6, 7, and 8 and the placement of topsoil and mulch on Wetlands 6, 7, and 8. Mulch shall not be stockpiled for longer than 72 hours.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permittee and the parties listed below must be filed within 14 days of receipt of this letter. Petitioner shall mail a copy of the petition to the permittee at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permittee's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action; or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

Mr. H. Wayne Roberts, P.E.
File No. 411352349
October 12, 1990
Page 3

- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this letter. Persons whose substantial interests will be affected by any decision of the Department with regard to the permit have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this letter has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee,

Mr. H. Wayne Roberts, P.E.
File No. 411352349
October 12, 1990
Page 4

Florida 32399-2400; and by filing a copy with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the Clerk of the Department.

Sincerely,

for *John M. Bassard*

Janet G. Llewellyn, Chief
Bureau of Wetland Resource
Management

JGL/me

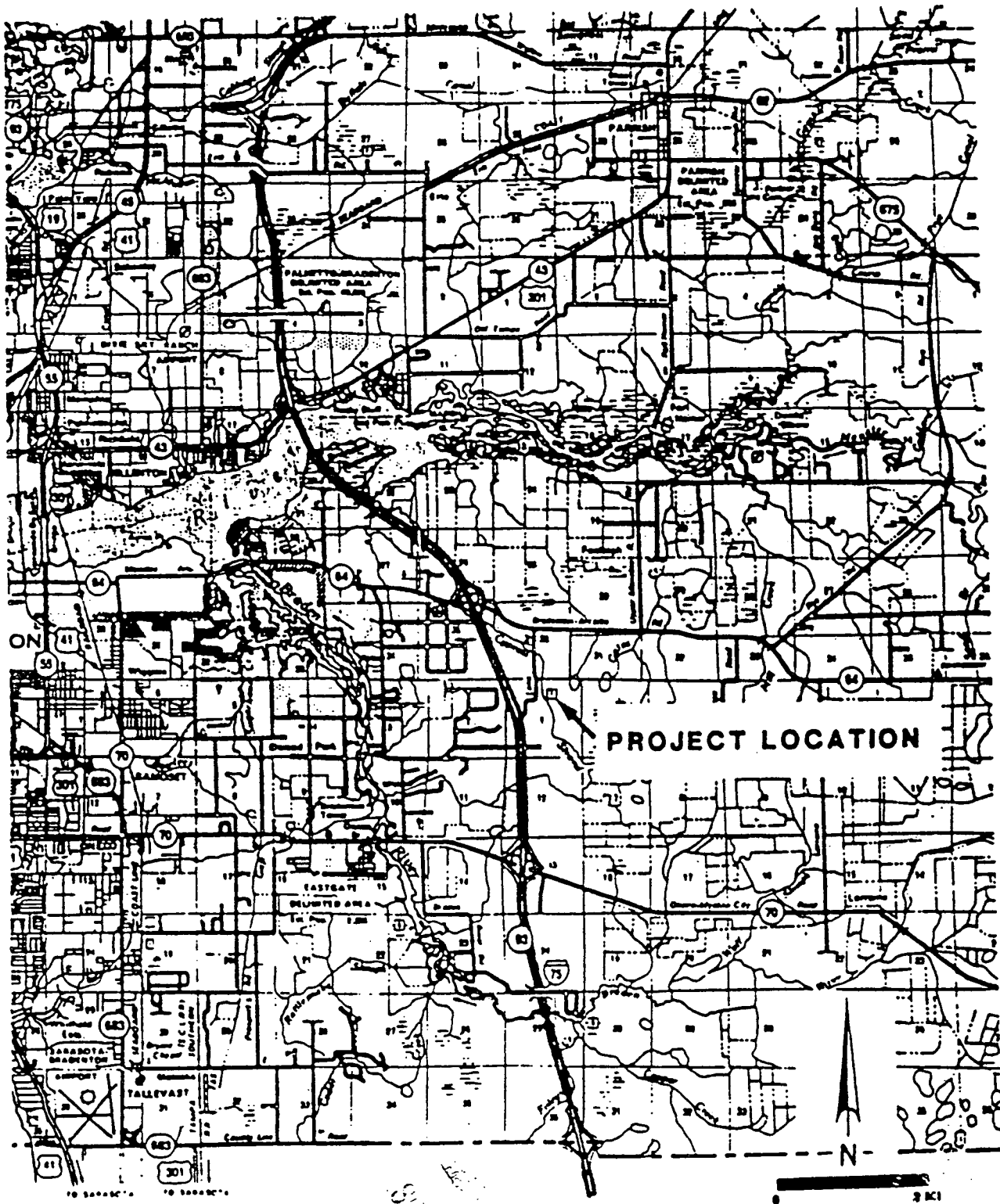
cc: Bob Stetler, DER, Southwest District
DNR, Marine Patrol
Florida Game and Fresh Water Fish Commission
U. S. Army Corps of Engineers, Jacksonville
(No. 87IPE-20551)
Leigh O'Shields, DNR, State Lands
Wetland Resource Permit File

FILING AND ACKNOWLEDGEMENT

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

Lorena Cannon - 10-15-90
Clerk Date

PERMIT NO. 411352349



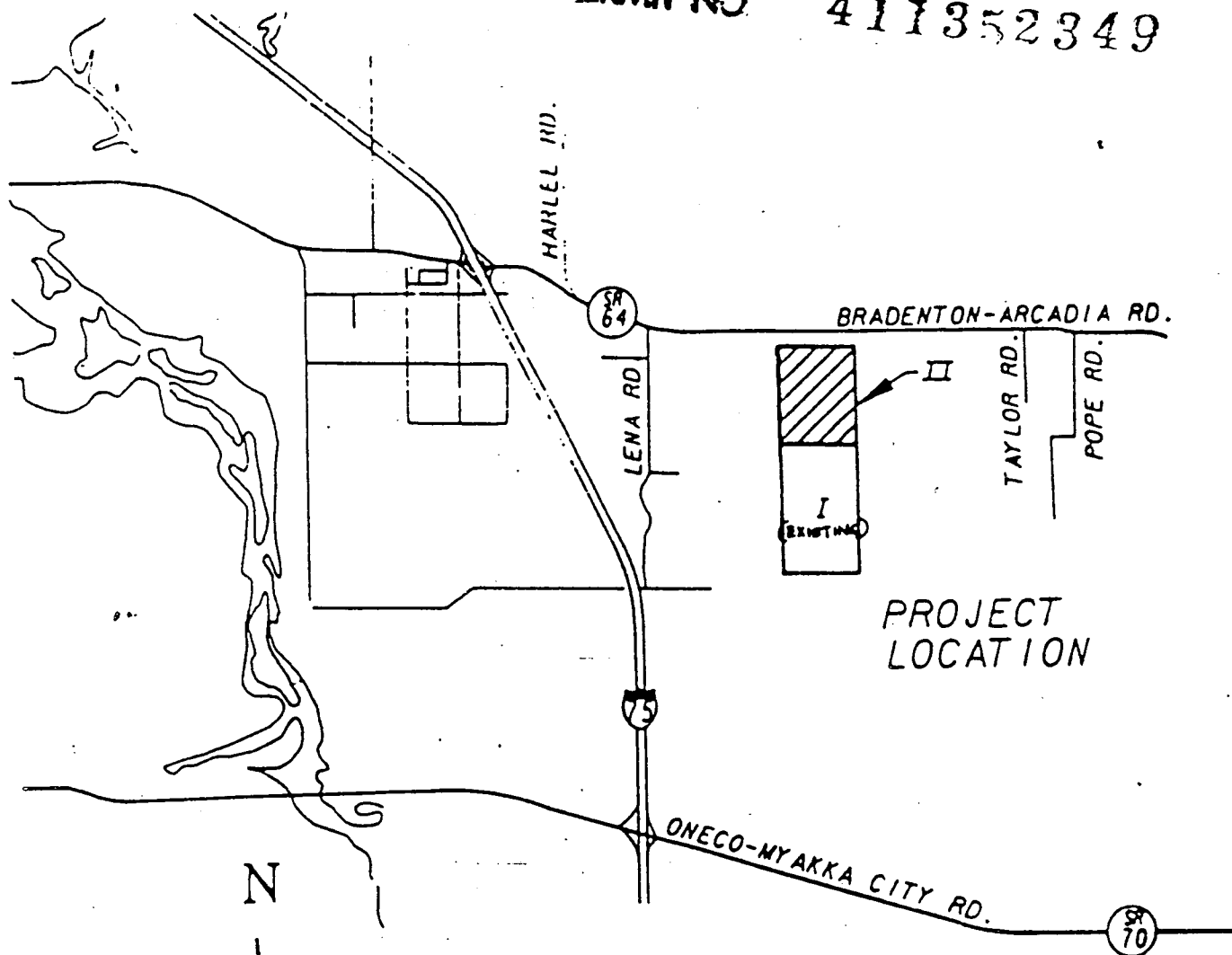
411352349 (DER)
91 IPE-20551 (U.S. CORPS)

PROJECT LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

SHEET 1 OF 17

Wayne Roberts
9/13/90

PERMIT NO 411352349



ALL DATUM SHOWN ON ALL OF
THE FOLLOWING DRAWINGS ARE NGVD

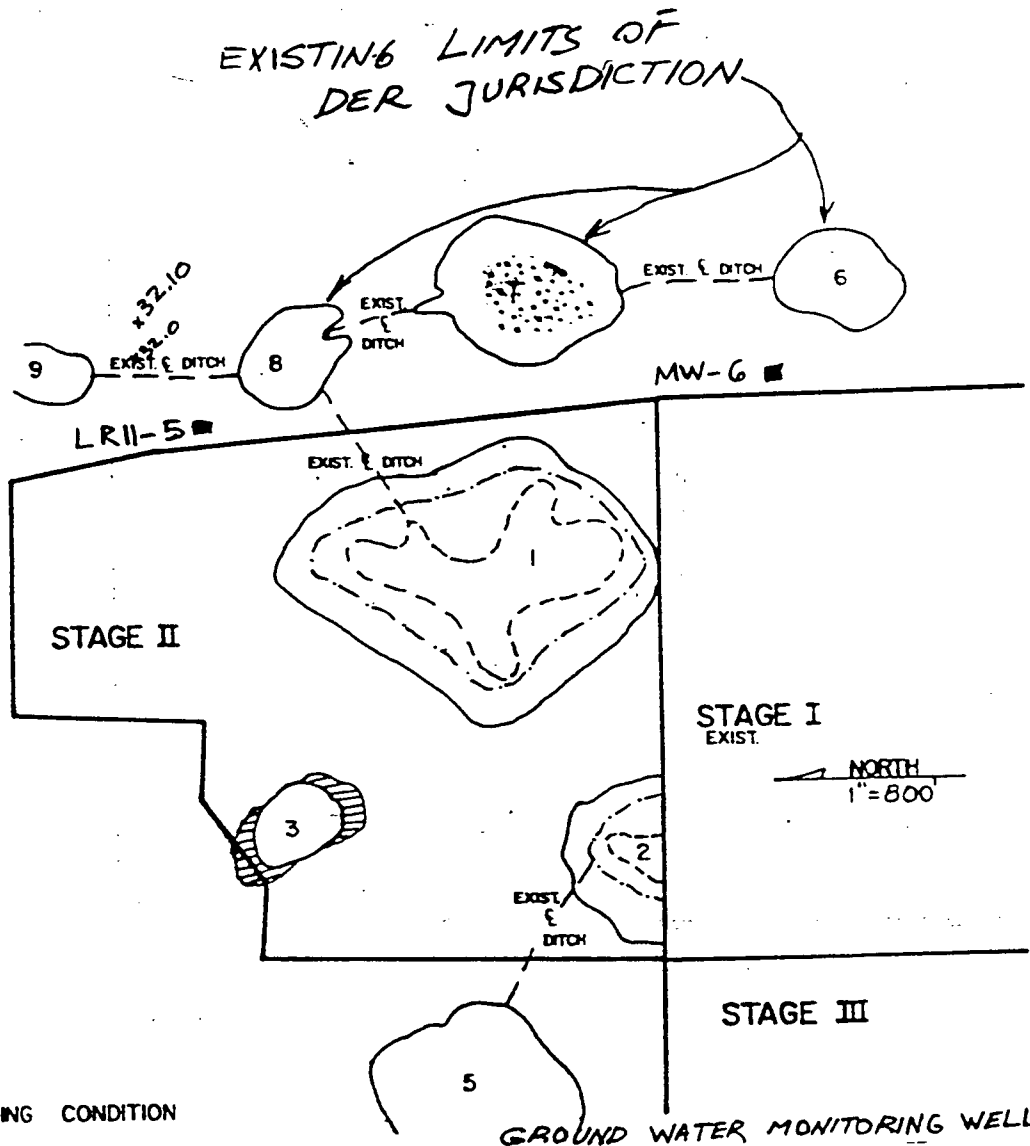
411352349 (DER)
87IPE-20551 (U.S. CORPS)

SHEET 2 OF 17

GENERAL LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

J. Wayne Roberts
9/13/90

PERMIT NO. 411352349



EXISTING CONDITION

GROUND WATER MONITORING WELL

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5

- WETLAND INNER ZONE BOUNDARY
- - - - - WETLAND MIDDLE ZONE BOUNDARY
- x32.10 EXIST ELEV.
- [Pattern] AREA OF NO CONSTRUCTION
- EXIST. SLURRY WALL
- [Pattern] EXIST. FORESTED WETLAND
- ~~~~~ EXIST. DER JURISDICTION

REV. 7/90 SM



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

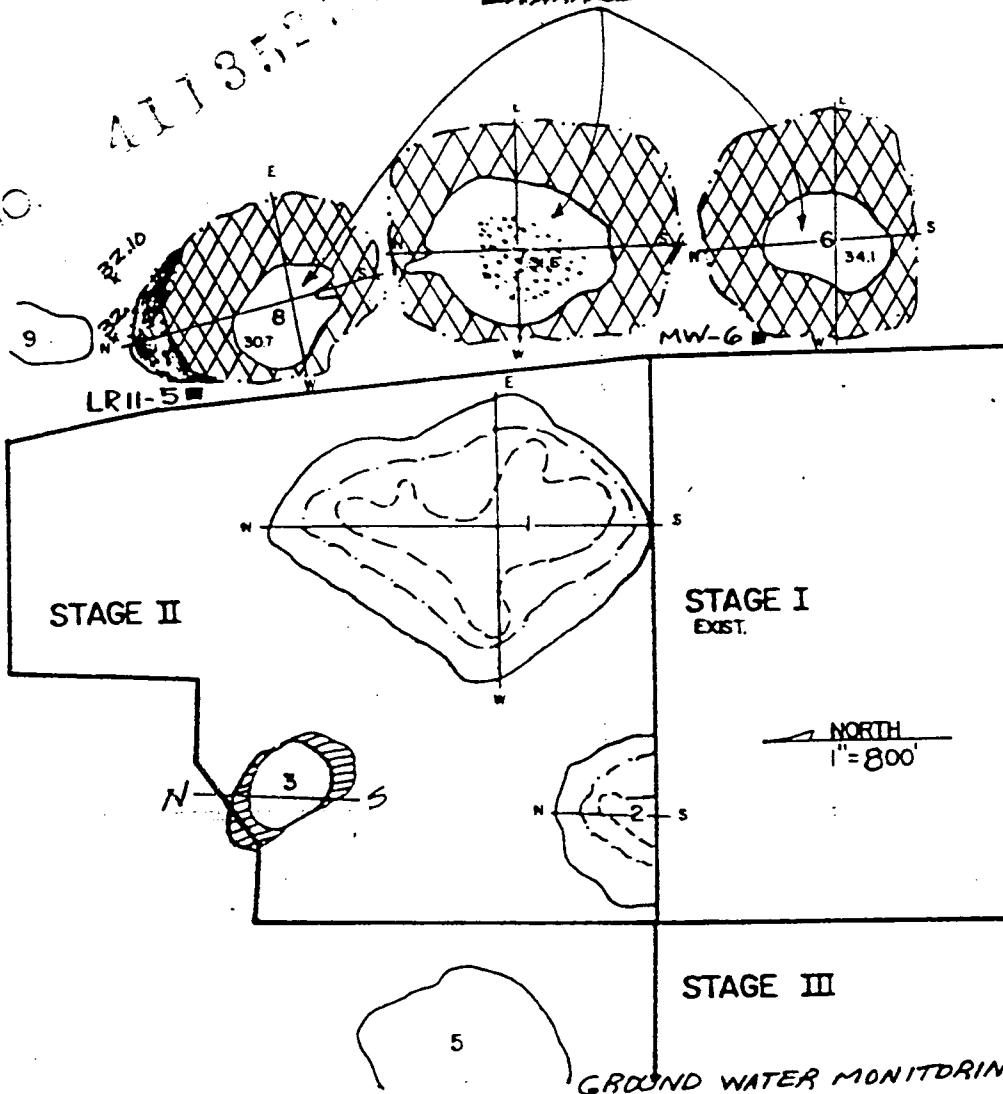
MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC	DATE: 5/90
CHKD. BY: SM	SCALE: 1"=800'
APPRVD. BY: HWR	SHEET 3 OF 17

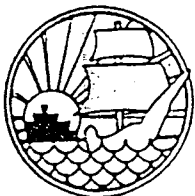
[Signature]
19/13/90

PERMIT NO. 411352349 LIMITS OF WETLAND
ENHANCEMENT



- EXIST. FORESTED WETLAND
- PROP. WETLAND CREATION
- PROP. HARDWOOD WETLAND CREATION (1.71 ACRES)
- AREA OF NO CONSTRUCTION (1.75 ACRES)
- WETLAND INNER ZONE BOUNDARY
- WETLAND MIDDLE ZONE BOUNDARY
- PROP. WETLAND CREATION OUTER ZONE BOUNDARY & PROP. DER JURISDICTION
- x.30.7 EXISTING ELEVATION
- EXIST. SLURRY WALL

GROUND WATER MONITORING WELL
SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

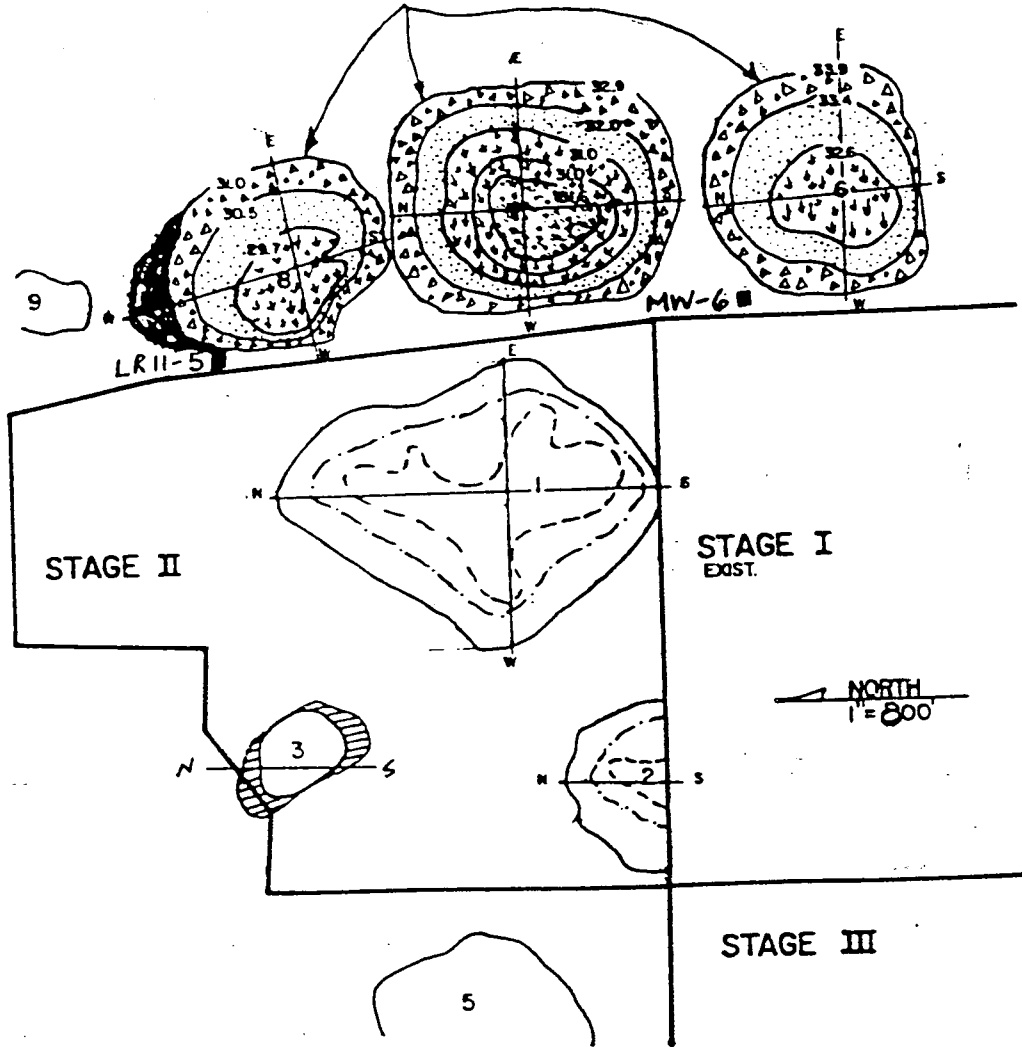
U.S. CORPS PERM. #87IPE20551

DRAWN BY: B.C.	DATE: 5/90
CHKD. BY: SM	SCALE: 1" = 800'
APPRVD. BY: HWR	SHEET 4 OF 17

J. W. Roberts
9/13/90

PERMIT NO. 411352349

PROP. DER JURISDICTION



- PROP. HARDWOOD WETLAND CREATION
- AREA OF NO CONSTRUCTION
- PROP. INNER ZONE
- PROP. MIDDLE ZONE
- PROP. OUTER ZONE
- EXIST. FORESTED WETLAND
- WETLAND INNER ZONE BOUNDARY
- WETLAND MIDDLE ZONE BOUNDARY
- PROP. WETLAND OUTER ZONE BOUNDARY
- PROP. CONTOUR LINE AND ZONE BOUNDARY
- EXIST. SLURRY WALL

GROUND WATER MONITORING WELL
SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5

REV. 7/90 SM



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 800'

APPRVD. BY: HWR

SHEET 5 OF 17

W. Robert
9/13/90

9

J. Wayne
9/13/90

RECEIVED
JES. HQ. 10/1

PERMIT NO.

411352349



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 200'

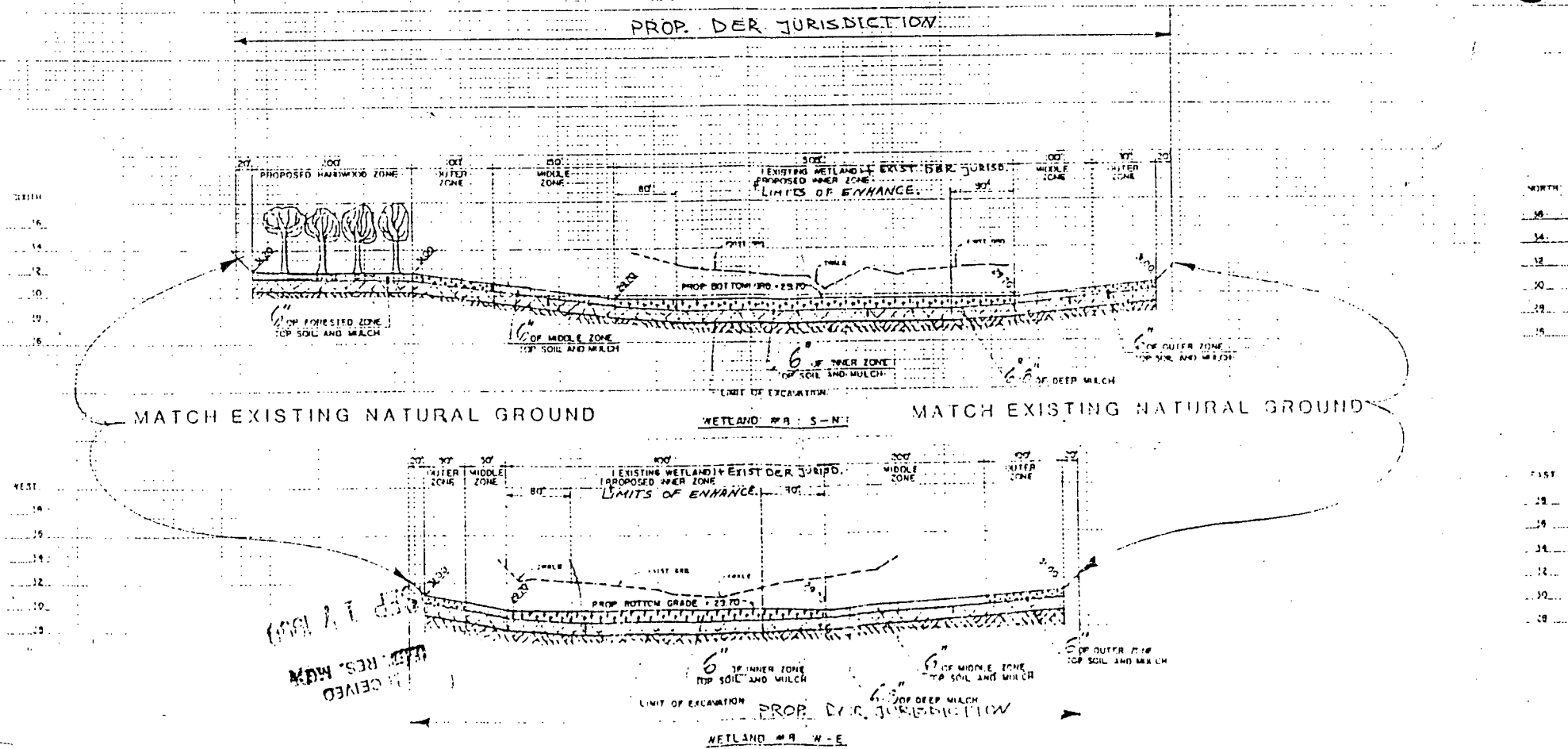
APPRVD. BY: HWR

SHEET 8 OF 17

REV. 7/90 SM

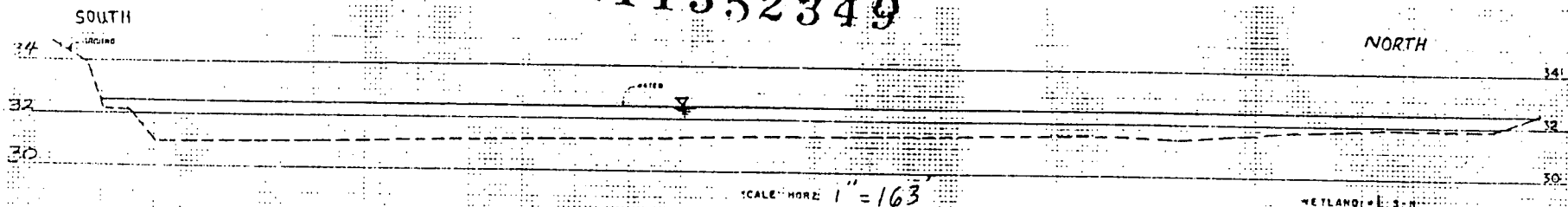
LENA ROAD LANDFILL
WETLAND CREATION

[Signature]
9/13/90

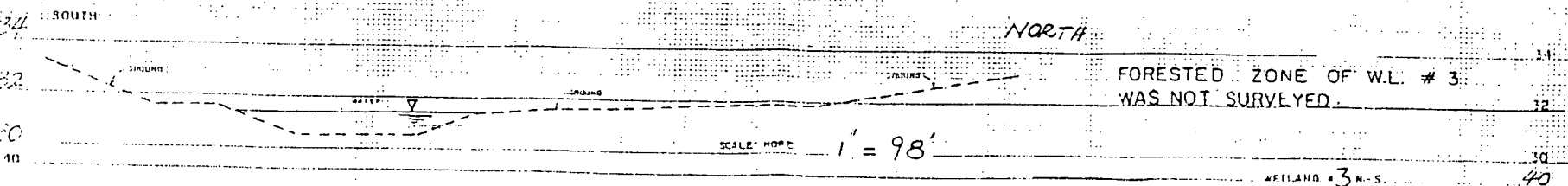
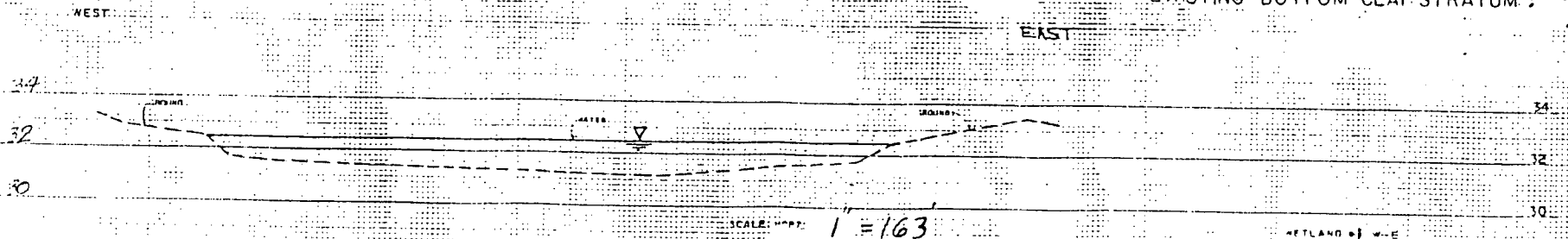


SEE SHEET 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL

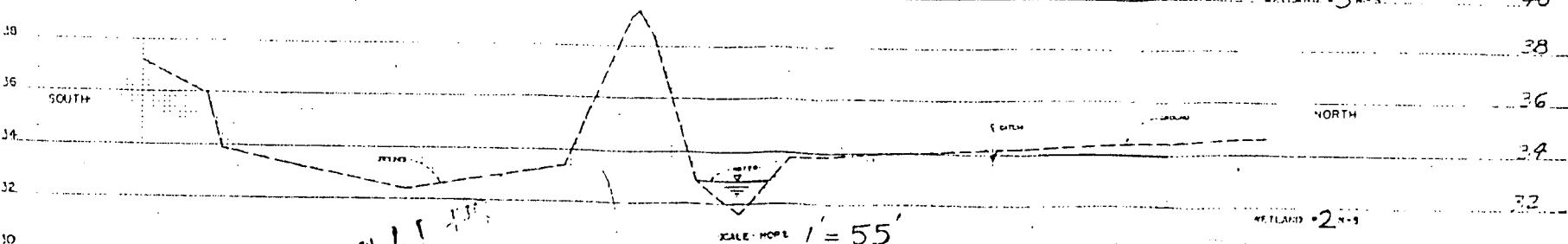
PERMIT NO. 411352349




NOTE: WATER LEVELS SHOWN ON THIS SHEET WERE APPARENT & WERE SURVEYED ON 4/18/90. THIS WATER IS CONTAINED WITHIN THE PERIMETER SLURRY WALL & THE EXISTING BOTTOM CLAY STRATUM.

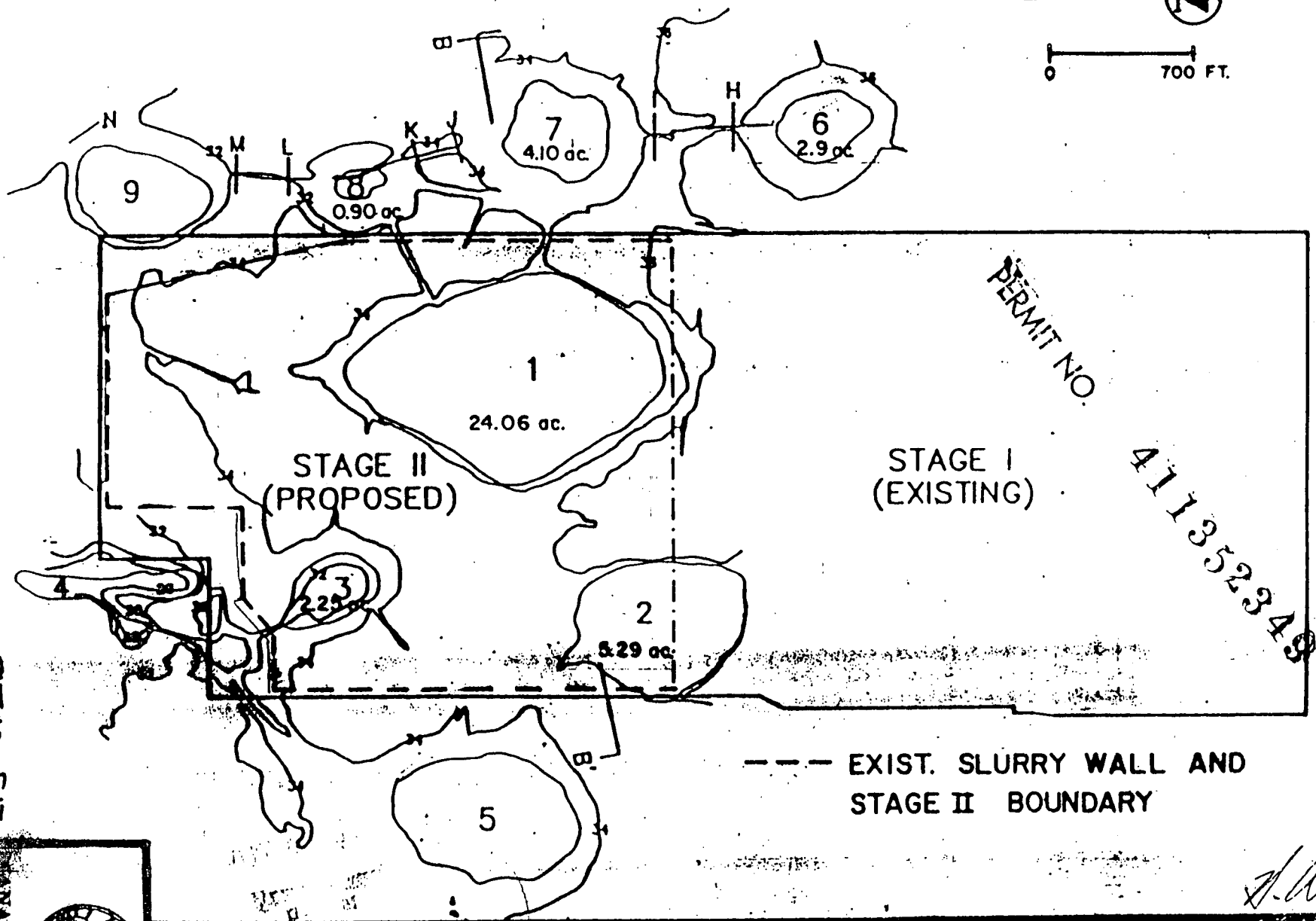
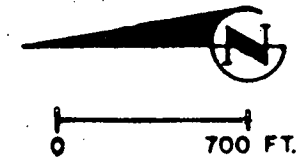


FORESTED ZONE OF W.L. # 3 WAS NOT SURVEYED.



0651 11 11
1044 11 11

 MANATEE COUNTY PUBLIC WORKS DEPARTMENT	REV. 7/90 MODIFICATION OF DER PERM. #411352349 + U.S. CORPS PERM. #87IPE20551		<i>W. Robert</i> 9/13/90
	DRAWN BY: SC	DATE: 5/90	
	CHKD. BY: SW	SCALE: 5' = 100'	
	APPROV BY: HW	SHEET: 1 OF 1	



--- EXIST. SLURRY WALL AND STAGE II BOUNDARY

PERMIT NO.

411352349

H. Wayne Roberts

9/13/90

FIGURE 6A. STAGE II EXISTING TOPOGRAPHY FOR LENA ROAD LANDFILL, MANATEE COUNTY, FL



PERMIT NO. 411352349

PROPOSED WETLAND MITIGATION

WETLAND	EXISTING ACRES **	PROPOSED WETLAND CREATION & ENHANCEMENT	NET WETLAND CREATION	ADDITIONAL WETLAND ENHANCEMENT **
#6	2.90	16.75	13.85	2.90 ACRES
#7	4.10	20.45 20.45	18.10	2.35 ACRES
#8	0.90	14.75	* 13.85	0.90 ACRES
TOTAL	7.90	51.95 51.95	45.80	6.15 ACRES

** ASSUMING NO CREDIT FOR ENHANCEMENT OF EXISTING WETLAND #6, #8 AND ONLY 2.35 ACRES OF #7. 1.75 ACRES OF EXISTING WETLAND #7 IS THE LIMITS OF NO CONSTRUCTION AREA.

* 1.71 ACRES OF ABOVE TOTAL IS THE AREA OF FORESTED WETLAND CREATION.

DATE 9/13/90 FL. REG. NO. 39612

[Signature]
COUNTY ENGINEER

LENA ROAD WETLAND MITIGATION

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT
315 - 75th. STREET WEST
BRADENTON, FLORIDA 34209

MAY 1990 SHEET 11 OF 17

WETLAND CREATION CONSTRUCTION NOTES:

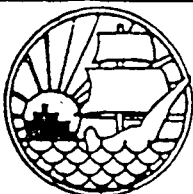
THE FOLLOWING NOTES REPRESENT A CHRONOLOGICAL PROCEDURE BY WHICH WETLANDS WILL BE REMOVED AND RECREATED IN THE PROPOSED WETLAND AREA. SHOULD ANY QUESTIONS OR PROBLEMS ARISE CONCERNING THIS PROCEDURE, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.

1. STAKE OUT THE LIMITS OF NO CONSTRUCTION ACTIVITY ON WETLAND #7. THIS SHOULD PHYSICALLY TAKE PLACE ON SITE BY THE * ENVIRONMENTAL SCIENTIST. HE OR SHE WILL ALSO BE STAKING THE THREE ZONES (INNER, MIDDLE, OUTER ZONES) ON THE DONOR WETLAND #1, 2, AND 3. EXISTING
2. EXCAVATE THE PROPOSED WETLAND #6, 7, AND 8 PRIOR TO ALL OTHER EARTH WORK ACTIVITIES. REFER TO DETAIL CROSS SECTION FOR LIMITS OF EXCAVATION ON EACH WETLAND AND MOVE IT AWAY TO THE EXISTING LANDFILL.
3. DESIGNATE THREE STOCK PILING SITE FOR THREE TOP SOIL AND MULCH ZONES OF WETLANDS CLOSE TO THE WETLAND CREATION AREA.
4. UPON THE ENVIRONMENTAL SCIENTIST APPROVING THE FINAL GRADED WETLAND AREA IN STEP 2, PROCEED WITH STRIPPING APPROXIMATELY TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM STAKED OUTER ZONES OF WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREAS IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, INNER). THIS STOCK PILING SHALL NOT EXCEED 12 HOURS.
5. STRIP OUT THE TOP 12"-24" (WHICH EVER IS APPROVED ON SITE BY ENVIRONMENTAL SCIENTIST) OF THE DEEP MULCH AND SOIL OF THE ENTIRE WETLAND #1, 2 AND MOVE IT TO THE PROPOSED WETLAND CREATION AREA OF #6, 7, AND 8. DEPOSIT THE ABOVE STRIPPED DEEP MULCH AND SOIL 12" THICK AND GRADE IT TO THE PROPOSED DETAIL CROSS SECTION SHOWN FOR #6, 7 AND 8.
6. UPON COMPLETING THE STEP 5 ABOVE AND PHYSICAL SITE INSPECTION BY ENVIRONMENTAL SCIENTIST, THE STOCK-PILED TOPSOIL AND MULCH (STEP 5) FOR EACH OF THE INNER, MIDDLE, AND OUTER ZONES TO BE MOVED AND PLACED ON ITS PROPOSED DESIGNATED ZONES SHOWN ON EACH CROSS SECTION FOR #6, 7 AND GRADE IT TO THE PROPOSED ELEVATIONS. START FROM THE INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER ZONE.
7. STRIP OUT THE TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM WETLAND #3 AND MOVE IT DIRECTLY TO WETLAND #8 AND PLACE IT ON ITS DESIGNATED ZONING SHOWN ON THE CROSS SECTION AND GRADE IT TO ITS PROPOSED ELEVATION. START FROM INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER EDGES. FILL IN THE GAP AREAS OF EACH ZONE WITH THE TOP SOIL AND MULCH ALREADY STOCKPILED IN STEP 4.
8. GRADE THE PROPOSED HARDWOOD AREA OF WETLAND #8 TO ITS FINAL GRADE USING THE OUTER ZONE TOP SOIL AND MULCH.
9. ENVIRONMENTAL SCIENTIST WILL IDENTIFY THE TREES IN WETLAND #3, AND WILL BE TRANSPLANTED TO THE NEW LOCATION, WETLAND #8. TRANSPLANTED TREES WILL BE MOVED USING A TREE SPREADER WITH A BACKHOE OF SUITABLE SIZE AND INSTALLED IN WETLAND #8 ON 30' CENTER. IN ADDITION, NURSERY GROWN WETLAND TREES SHALL BE PLANTED AT A DENSITY OF 1000 TREES PER ACRE. PLANTED TREES SHALL CONSIST OF APPROXIMATELY EQUAL NUMBERS OF: 1. POP, 2. RED-BAY, 3. BLACK CUM, AND 4. WILLOWS. 1700 100 NURSERY TREE SHALL BE ONE GALLON, 30% SHALL BE 1/2 GALLON AND 10% SHALL BE 3/4 GALLON SIZES. ALL NURSERY TREES SHALL BE ACCLIMATED TO SATURATED CONDITION FOR A PERIOD OF SIX WEEKS PRIOR TO PLANTING. NURSERY GROWN TREE SHALL BE PLANTED IN PODS OF 3 TO 6 TREES ON APPROXIMATELY 15' CENTER.

* ENVIRONMENTAL SCIENTIST SHOULD BE A TRAINED WETLAND ECOLOGIST.

PERMIT NO. 411352349

RECEIVED
MAY 11 1990



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION OF DER
PERMIT # 411352349

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: N/A

APPRVD. BY: HWR

SHEET 12 OF 17

J. Wayne Robert
5/13/90



Southwest Florida Water Management District

2379 Broad Street (U.S. 41 South) Brooksville, Florida 34609-6899
Phone (904) 796-7211 or 1-800-423-1476 SUNCOM 628-4150

August 7, 1990

Richard Wilford
Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

Subject: Final Agency Action Transmittal Letter
Individual Construction
MSSW Permit No. 403143.01
Project Name: Lena Road Landfill

Dear Mr. Roberts:

Your Permit was approved by the District Governing Board subject to all terms and conditions set forth in the approved Permit. Your acceptance of the permit constitute notice and your agreement that the District may periodically review this Permit, including making site inspections.

Your participation in the regulation process will help protect and conserve our water resource.

Please contact this office if you have any questions or concerns about your Permit.

Sincerely,

Patricia A. Coke for Annie L. Taylor

Annie L. Taylor
Manager
Processing & Records
Resource Regulation

ALT:

Enclosures: (1) Approved Permit w/Approved Construction Drawing(s)
(2) Statement of Completion
(3) Notice of Authorization to Commence Construction

cc: H. Wayne Roberts, P.E.
Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

RECEIVED

AUG 10 1990

PUBLIC WORKS
RECYCLING

MANATEE COUNTY

RECEIVED
AUG 8 1990
PUBLIC WORKS DEPT.

*Don
Pleasant*

PUBLIC WORKS

RECEIVED
AUG 14 1990
ENGINEERING

Michael Zagorac, Jr.
Chairman, Belleair
Walter H. Harkala
Vice Chairman, Plant City
Anne Bishopric Sager
Secretary, Venice
Roy G. Harrell, Jr.
Treasurer, St. Petersburg
William H. Wilcox, Ph.D.
Port Charlotte
Mary Ann Hogan
Brooksville
Charles A. Black
Crystal River
Joseph S. Casper
Tampa
Samuel D. Updike
Lake Wales

Peter G. Hubbell
Executive Director
Mark D. Farrell
Assistant Executive Director
Kent A. Zaiser
General Counsel
Stuart C. Anderson
Deputy Executive Director
Resource Management
William K. Hennessey
Deputy Executive Director
Community Affairs
Richard V. McLean
Deputy Executive Director
Resource Regulation
Albert L. Wyand
Deputy Executive Director
Administration and Support

VIP

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
INDIVIDUAL
MANAGEMENT OF SURFACE WATER PERMIT**

PERMIT GRANTED TO:

Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

PERMIT NO:

403143.01

PERMIT APPLICATION

DATE FILED: January 23, 1990

DATE AMENDED:

PERMIT GRANTED ON: August 7, 1990

PERMIT EXPIRES ON: August 7, 1993

PROJECT NAME: Lena Road Landfill

COUNTY: Manatee

LOCATION

SECTION	1,12	36	31	6,7
TOWNSHIP	35	34	34	35
RANGE	18	18	19	19

This permit is issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rule(s) 40D-4 and 40D-40. The above-named permittee is hereby authorized to perform the work or operate the facility shown by the application and approved drawing(s), plans, and other documents, attached hereto or on file with the District and made a part hereof, and specifically described as follows:

Construction of a Surface Water Management System serving a 230 acre Government Landfill project as named above.

LIMITING CONDITIONS

1. The permittee shall perform the construction authorized in a manner so as to minimize any adverse impact of the system 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 the surface waters of the state shall be submitted to the District as required. Parameters to be monitored may include those listed in Chapter 17-3. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by American Public Health Association of Methods for Chemical analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the state.
3. The permittee shall comply with all applicable local subdivision regulations and other local requirements. In addition the permittee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction or alteration of works authorized by this permit.
4. The operation phase of this permit shall not become effective until the owner or his authorized agent certifies that all facilities have been

constructed in accordance with the design permitted by the District. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the certification and notify the District that the facilities are complete. Upon completion of the surface water management system, the permittee shall request transfer of the permit to the responsible entity approved by the District. The District may inspect the system and require remedial measures as a condition of transfer of the permit.

5. All roads shall be set at or above elevations required by the applicable local governmental flood criteria.
6. All building floors shall be set at or above elevations acceptable to the applicable local government.
7. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
8. No construction authorized herein shall commence until a responsible entity acceptable to the District has been established and has agreed to operate and maintain the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized herein. Upon receipt of written evidence of the satisfaction of this condition, the District will issue an authorization to commence construction.
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 40D-4.
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 the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.
12. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation for each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application. Temporary dewatering during construction, i.e., well pointing, ditching, etc. that will not affect adjacent wetlands or off-site lands is exempt from this requirement.

STANDARD CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee

and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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 District.
3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.
6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District 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 District rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;

- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and
- d. Gathering of data and information.

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

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 notify and provide the District with the following information:

- a. A description of and cause of non-compliance; and
- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the District for penalties or revocation of this permit.

9. This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.
10. When requested by the District, 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 that relevant facts were not submitted or were incorrect in the permit application or in any report to the District, such facts or information shall be submitted or corrected promptly.
11. Drawings, plans, calculations, specifications or other information submitted by the permittee, not attached hereto, but retained on file at the District office, are made a part of this permit.
12. A copy of this permit and a set of construction drawings depicting the permitted system are required to be kept at the work site of the permitted activity during the entire period of construction or operation. The approved construction drawings are issued as a part of this permit.
13. The discharges from this system shall meet state water quality standards as set forth in Chapter 17-3 and Rule 17-4.242 for class waters equivalent to the receiving waters.
14. Any water discharged from the site during construction of the project shall meet State water quality standards at the property boundary or point of discharge to wetlands or State waters. If the discharge does not meet these standards, the discharge will be immediately stopped and the District shall be notified of corrective action taken to correct the violation. Turbidity shall not exceed 29 N.T.U. above background level. Turbidity shall be monitored at least daily during discharge, or more often as determined by the project engineer if needed, to ensure compliance.

15. The permittee and construction representatives shall assure that erosion and sediment control measures as necessary and as required by Rule 40D-4.091 shall be effectively implemented continuously from beginning of project construction until completion to prevent erosion and transport and discharge of sediment to wetlands or any property other than the project area. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project shall be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or off site.
16. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 40D-40, F.A.C.
17. All rights-of-way and easement locations necessary to construct, operate and maintain all facilities, including uplands conservation/buffer areas and wetlands, which constitute the permitted surface water management system shall be reserved for water management purposes. Prior to site occupancy the reserved areas shall be shown on any final subdivision plat and recorded in the county public records as special use areas for dedication to the responsible operation and maintenance entity.
18. Construction of the discharge control and water quality treatment facilities which are part of the permitted surface water management system shall be completed and operational prior to beneficial occupancy and use of the project development being served.
19. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.
20. Construction of all water management facilities, including wetlands compensation, grading, mulching, planting of mitigation areas, etc. must be completed prior to beneficial occupancy of the project or operation of the surface water management system.
21. The excavation of retention/detention ponds is limited to the permitted design elevation(s).

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.
2. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.
 - a. For systems utilizing effluent filtration or exfiltration, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.
3. Refer to LIMITING CONDITION No. 4 herein.

Permit Number: 403143.

Project Name: Lena Road Landfill

Page 6

4. Environmental monitoring is required for determination of:

- ☐ environmental impacts incurred by the permitted activities
- ☒ compensation success

Monitoring parameters include those identified in permit conditions plus water levels. Fixed point photographic documentation of each monitoring site shall also be submitted for each monitoring event. Following construction, monitoring reports shall be submitted by the applicant at the following intervals:

- ☒ semi-annually
- ☐ annually
- ☐ quarterly during the first year and semi-annually thereafter
- ☐ quarterly during the first year, semi-annually during the next 2 years, and annually thereafter

Environmental monitoring shall continue:

- ☐ for a period of 2 years
- ☐ for a period of 3 years
- ☒ for a period of 5 years for forested creation, and
- ☒ until success criteria are met for 2 consecutive monitoring intervals for non-forested wetland creation.

Monitoring reports shall be submitted to:

Permits Data Group
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

SPECIFIC CONDITIONS

1. The District verified wetland boundaries and buffer areas, if applicable, shall be clearly delineated on the site prior to initial clearing and grading activities. The delineation shall endure throughout the construction period and be readily discernible to construction personnel.
2. All aspects of wetlands compensation including grading, mulching and planting of mitigation areas must be completed within 60 days of initial wetland impact.
3. Environmental monitoring for compensation success shall include measurement of the parameters listed:

- ☒ macrophyte species diversity
- ☒ macrophyte species composition and relative abundance
- ☒ percent vegetation coverage
- ☒ hydroperiod and water levels

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record.

4. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. Wetlands NO. 1 and No. 3, and the central zone and transitional zones of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetland trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed until success criteria have been met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements.

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record. Commencement of construction activities is prohibited until all details of the monitoring program have been approved.

5. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. from uplands as detailed in approved plans included with the application submittal. Wetlands No. 1, and No. 3, and the central zone and transitional zone of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetlands trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands creation as mitigation for wetland impacts shall be considered successful when conditions in the created wetlands equal or exceed conditions specified below:

- (a) The created wetlands are dominated by Obligate Wetlands and Facultative Wetlands plant species (i.e. U.S. Fish and Wildlife Service/N.W.I. Classification) contained within three distinct vegetative zones;
- (b) The hydroperiod equals or exceeds ninety (90) days within the created wetlands;
- (c) Percent coverage by wetland herbs and grasses (including naturally recruited species, excluding exotic and undesirable species) equals or exceeds eighty (80) percent of the surface area within the created wetlands; and

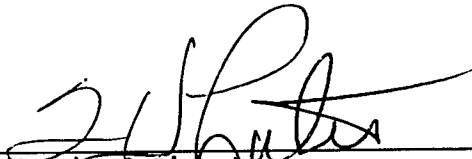
Permit Number: 403143.

Project Name: Lena Road Landfill

Page 8

- (d) Percent survival of nursery grown, planted wetland trees exceed eighty five (85) percent and percent survival of transplanted wetland trees exceeds fifty (50) percent within the created wetlands.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed at quarterly intervals during the first year and semi-annually thereafter until success criteria are met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements. Planting with wetlands vegetation may be required for created wetlands in which recruited vegetation fails to meet percent coverage requirements.



Authorized Signature
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Rev. 6/90

STATEMENT OF COMPLETION
AND REQUEST FOR TRANSFER TO OPERATION ENTITY

Within 30 days after completion of construction of the Surface Water Management system, the owner or authorized agent must SEND THE ORIGINAL PLUS ONE COPY OF THIS FORM AND TWO COMPLETE SETS OF CERTIFIED AS-BUILT DRAWINGS for the Surface Water Management system structures and appurtenances to the Southwest Florida Water Management District, 2379 Broad Street, Brooksville, Florida 34609-6899. Upon receipt, the District will review this statement of completion and may inspect the system for compliance with the approved permit and as-built drawings. Within 30 days after receipt of this statement, the District will notify the permittee whether the operation phase of the permit may commence. The operation phase of this permit is effective when the statement of completion form is signed by an authorized District representative.

(1) SURFACE WATER MANAGEMENT SYSTEM INFORMATION:

Permit No.:	403143.01	County:	Manatee
Project Name:	Lena Road Landfill		
Permittee:	Manatee County Public Works		
Address:	315 75th Street West		
City, State Zip:	Bradenton, Florida 34209		
Telephone:	(813) 794-1939		

(2) I hereby certify that all facilities have been built substantially in accordance with the approved permit design plan and that any substantial deviations (attached) will not prevent the system from functioning in compliance with the requirements of Chapter 40D-4 and 40D-40, F.A.C. This certification is verified by the attached "as-built" drawings (as-built drawings and certification must be signed and sealed by a Professional Engineer, if required by Chapter 471, F.S.).

By: _____

Signature of Engineer of Record

Name (Please Type) Florida Registration No.

Company Name

(Affix Seal)

Company Address

Phone: (____) _____ Date: _____



**MANATEE COUNTY
GOVERNMENT**
Public Works Department

July 31, 1990

Department of Environmental Regulation
Marleen K. Stern
Wetland Resource Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

Re: Modification of Permit No. 411352349
Date of Issue: 12/10/87 Expiration: 12/10/92
County: Manatee
Project: Lena Road Landfill Phase II
Wetland Creation & Enhancement

Dear Ms. Stern,

Attached you will find two (2) sets of drawings that reflect the revisions you requested over the telephone on July 21, 1990. All the changes have been made on sheets 3, 6, 7, 8, 11, and 12 of 17 as discussed. Your prompt response on this matter is appreciated.

If you have any questions or comments please contact me at (813) 794-1939.

Sincerely,

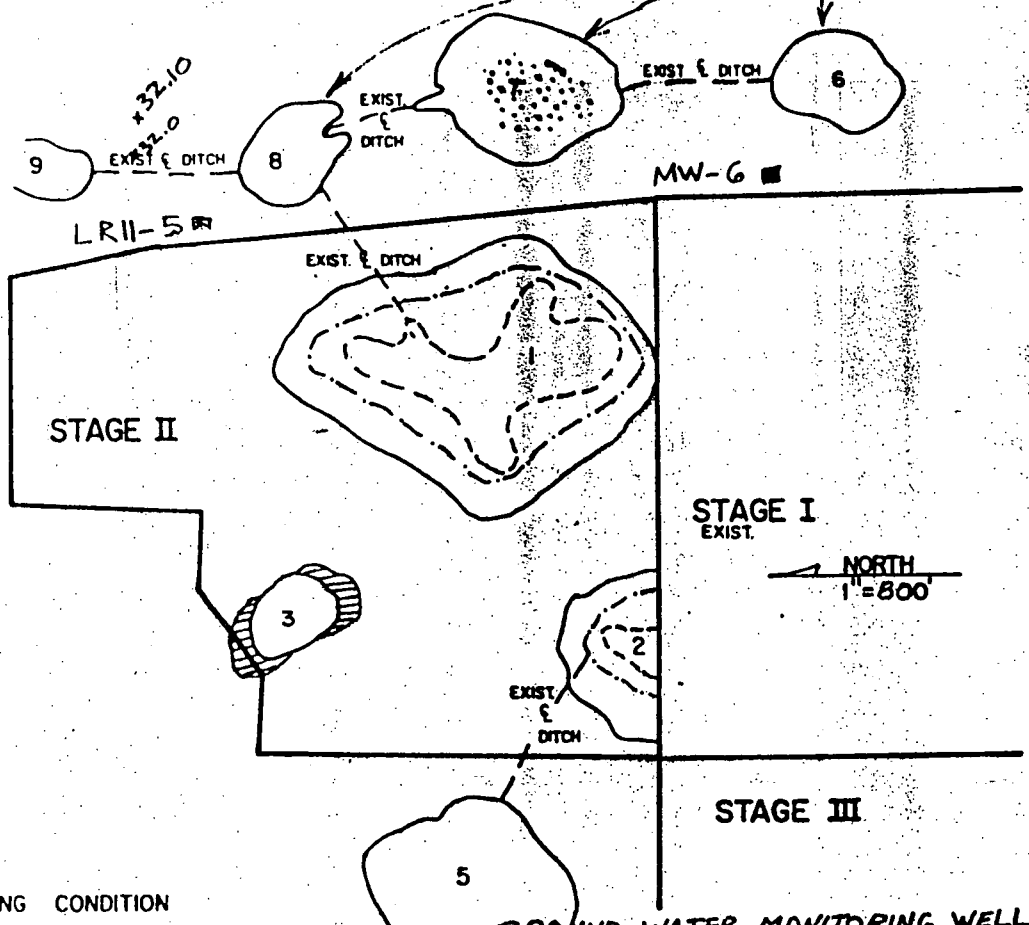
H. Wayne Roberts
H. Wayne Roberts, P.E.
County Engineer

sn
HWR/SM/lgb

Enclosure

c: Sia Mollanazar, P.E.

EXISTING LIMITS OF
DER JURISDICTION



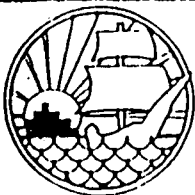
EXISTING CONDITION

GROUND WATER MONITORING WELL

SEE SHT 12 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5

- WETLAND INNER ZONE BOUNDARY
- - - WETLAND MIDDLE ZONE BOUNDARY
- x 32.10 EXIST ELEV.
- [Pattern] AREA OF NO CONSTRUCTION
- EXIST. SLURRY WALL
- [Pattern] EXIST. FORESTED WETLAND
- ~ EXIST. DER JURISDICTION

REV. 7/90 SM



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 800'

APPRVD. BY: HWR

SHEET 3 OF 17

APPROVED
[Signature]
7/13/90

LENA ROAD LANDFILL
WETLAND CREATION

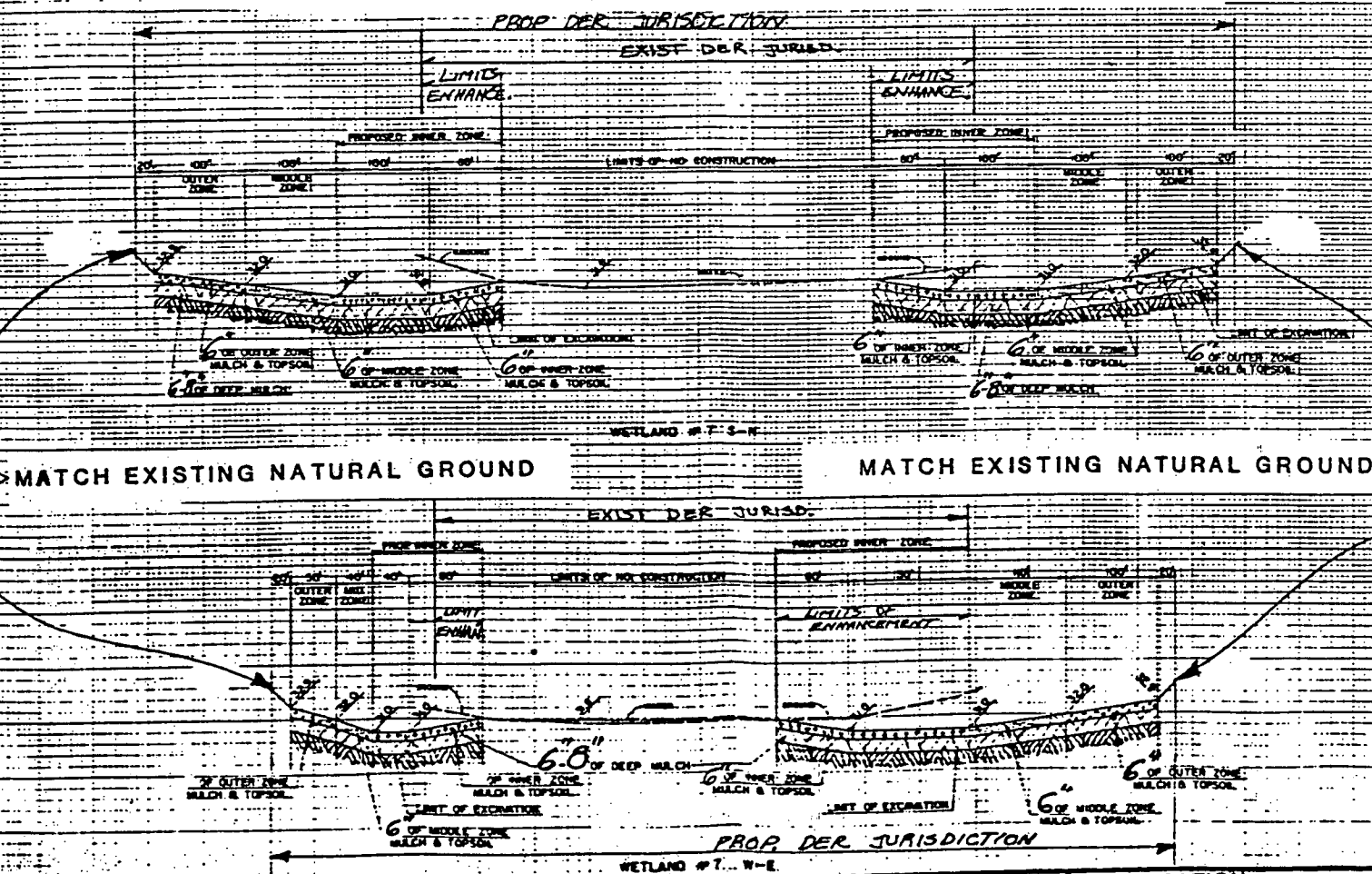


MODIFICATION OF DER PERM. #411352349 +	
U.S.CORPS PERM. #87IPE20551	
DRAWN BY: BC	DATE: 5/90
CHKD. BY: SM	SCALE: 1" = 200'
APPRVD. BY: HWR	SHEET 6 OF 17

W. J. Baker
7/13/90

NOTE: SEE SHT 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL

WATER LEVELS SHOWN WERE APPARENT & SURVEYED ON 4/18/90



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC DATE: 5/90

CHKD. BY: SM. SCALE: 1" = 200'

APPRVD. BY: MWR SHEET 2 OF 17

Mark Smith
5/15/90

**MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT**

MODIFICATION
OF DER PERM. #411352349

U.S.CORPS PERM. #871PE20551

DRAWN BY: BC

DATE: 5/90

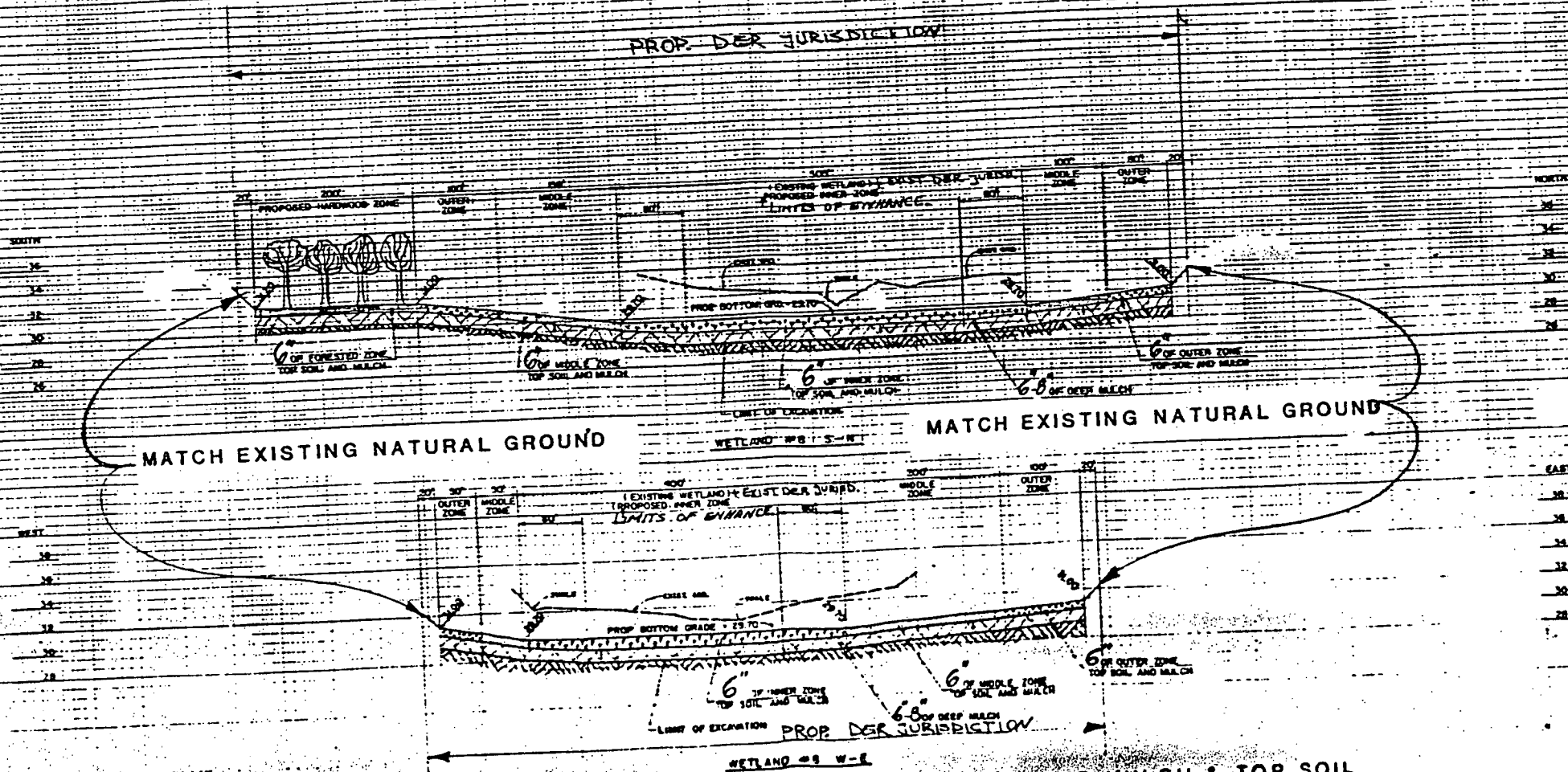
CHKD. BY: *S.M.*

SCALE: 1" = 200'

APPRVD. BY: HWR

SHEET 8 OF 17

REV. - 7/50 - S.M.



NOTE: SEE SHT 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL

PROPOSED WETLAND MITIGATION

WETLAND	EXISTING ACRES **	PROPOSED WETLAND CREATION & ENHANCEMENT	NET WETLAND CREATION	ADDITIONAL WETLAND ENHANCEMENT **
#6	2.90	16.75	13.85	2.90 ACRES
#7	4.10	20.45	18.10	2.35 ACRES
#8	0.90	14.75	* 13.85	0.90 ACRES
TOTAL	7.90	51.95	45.80	6.15 ACRES

** ASSUMING NO CREDIT FOR ENHANCEMENT OF EXISTING WETLAND #6, #8 AND ONLY 2.35 ACRES OF #7. 1.75 ACRES OF EXISTING WETLAND #7 IS THE LIMITS OF NO CONSTRUCTION AREA.

* 1.71 ACRES OF ABOVE TOTAL IS THE AREA OF FORESTED WETLAND CREATION.

DATE 9/13/90 FL. REG. NO. 39612


COUNTY ENGINEER

LENA ROAD WETLAND MITIGATION

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT
315 - 75th. STREET WEST
BRADENTON, FLORIDA 34209

MAY 1990 SHEET 11 OF 17

WETLAND CREATION CONSTRUCTION NOTES:

THE FOLLOWING NOTES REPRESENT A CHRONOLOGICAL PROCEDURE BY WHICH WETLANDS WILL BE REMOVED AND RECREATED IN THE PROPOSED WETLAND AREA. SHOULD ANY QUESTIONS OR PROBLEMS ARISE CONCERNING THIS PROCEDURE, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.

1. STAKE OUT THE LOCUS OF NO CONSTRUCTION ACTIVITY ON WETLAND #7. THIS SHOULD PHYSICALLY TAKE PLACE ON SITE BY THE ENVIRONMENTAL SCIENTIST. HE OR SHE WILL ALSO BE STAKING THE THREE ZONES (INNER, MIDDLE, OUTER ZONES) ON THE BROWN WETLAND #1, 2, AND 3. *EXISTING*
2. EXCAVATE THE PROPOSED WETLAND #6, 7, AND 8 PRIOR TO ALL OTHER EARTH WORK ACTIVITIES. REFER TO DETAIL CROSS SECTION FOR LIMITS OF EXCAVATION ON EACH WETLAND AND MOVE IT AWAY TO THE EXISTING LANDFILL.
3. DESIGNATE THREE STOCK PILING SITE FOR THREE TOP SOIL AND MULCH ZONES OF WETLANDS CLOSE TO THE WETLAND CREATION AREA.
4. UPON THE ENVIRONMENTAL SCIENTIST APPROVING THE FINAL GRADED WETLAND AREA IN STEP 2, PROCEED WITH STRIPPING APPROXIMATELY TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM STAKED-OUTER ZONES OF WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREA IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, INNER). THIS STOCK PILING SHALL NOT EXCEED 72 BODIES.
5. STRIP OUT THE TOP 12-24" (WHICH EVER IS APPROVED ON SITE BY ENVIRONMENTAL SCIENTIST) OF THE TOP SOIL AND MULCH IN THE ENTIRE WETLAND #1, 2 AND MOVE IT TO THE PROPOSED WETLAND CREATION AREA IN #6, 7 AND 8. EXCAVATE THE ABOVE STRIPPED DEEP MULCH AND SOIL 12" THICK AND GRADE IT TO THE PROPOSED DETAIL CROSS SECTION SHOWN FOR #6, 7 AND 8.
6. UPON COMPLETING THE STEP 5 ABOVE AND INSPECTION WITH INSPECTION BY ENVIRONMENTAL SCIENTIST, THE STOCK PILED TOPSOIL AND MULCH (STEP 4) FOR EACH OF THE THREE MIDDLE AND OUTER ZONES TO BE MOVED AND PLACED ON THE PROPOSED DESIGNATED ZONES SHOWN ON EACH CROSS SECTION FOR #6, 7 AND 8. GRADE IT TO THE PROPOSED ELEVATIONS. REMOTE FROM THE THREE ZONE AND WORK YOUR WAY OUT TO THE OUTER EDGE.
7. STRIP OUT THE TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM WETLAND #3 AND MOVE IT DIRECTLY TO WETLAND #6 AND PLACE IT ON THE DESIGNATED ZONES SHOWN ON THE CROSS SECTION AND GRADE IT TO THE PROPOSED ELEVATION. REMOTE FROM INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER ZONES. GRAD IN THE END AREA OF EACH ZONE WITH THE TOP SOIL AND MULCH ALREADY STOCKPILED IN STEP 5.
8. GRADE THE PROPOSED HARBOR AREA OF WETLAND #8 TO ITS FINAL GRADE USING THE OUTER ZONE TOP SOIL AND MULCH.
9. ENVIRONMENTAL SCIENTIST WILL IDENTIFY THE THREE IN WETLAND #3, AND BEING AN ENVIRONMENTAL SCIENTIST, HE OR SHE WILL BE IDENTIFYING THE THREE ZONES (INNER, MIDDLE, OUTER) ON THE BROWN WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREA IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, INNER). THIS STOCK PILING SHALL NOT EXCEED 72 BODIES.

* ENVIRONMENTAL SCIENTIST SHOULD BE A TRAINED WETLAND ECOLOGIST.



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION OF DER
PERMIT # 411352349

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: N/A

APPRVD. BY: HWR

SHEET 12 OF 12

Handwritten signature and date:
9/13/89



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
87IPE-20551

JUL 25 1990

Manatee County Government,
Public Works Department
Engineering
Attn: H. Wayne Roberts, P.E.
315 75th Street West
Bradenton, Florida 34209

Dear Mr. Roberts:

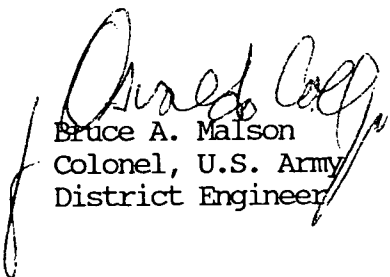
Reference is made to your letter dated May 22, 1990, in which you asked to revise the plans authorized by Department of the Army permit 87IPE-20551 issued on March 2, 1988.

The proposed modification's purpose is to increase the success of the permitted mitigation areas by lowering the elevations of the wetlands by approximately 1.5 feet. This modification would increase the originally permitted mitigation of 36.2 acres mitigation to 45.8 acres of created wetlands.

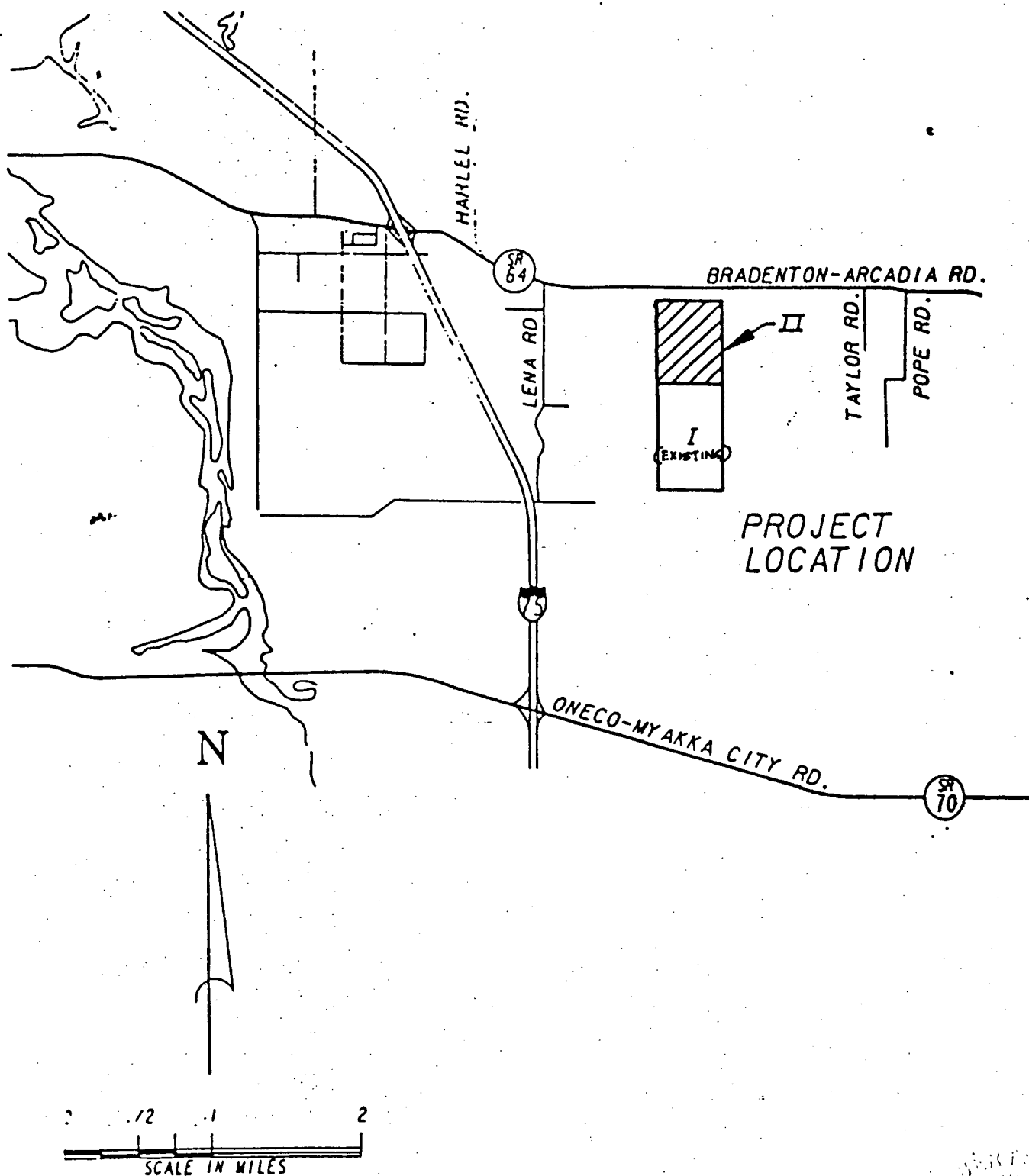
The impacts of the proposed work on navigation and the environment have been evaluated and found to be insignificant. The permit is hereby modified in accordance with your request. You should attach this letter and the enclosed revised project plans to the permit.

Thank you for your cooperation with our permit program.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:


Bruce A. Malson
Colonel, U.S. Army
District Engineer

Enclosures

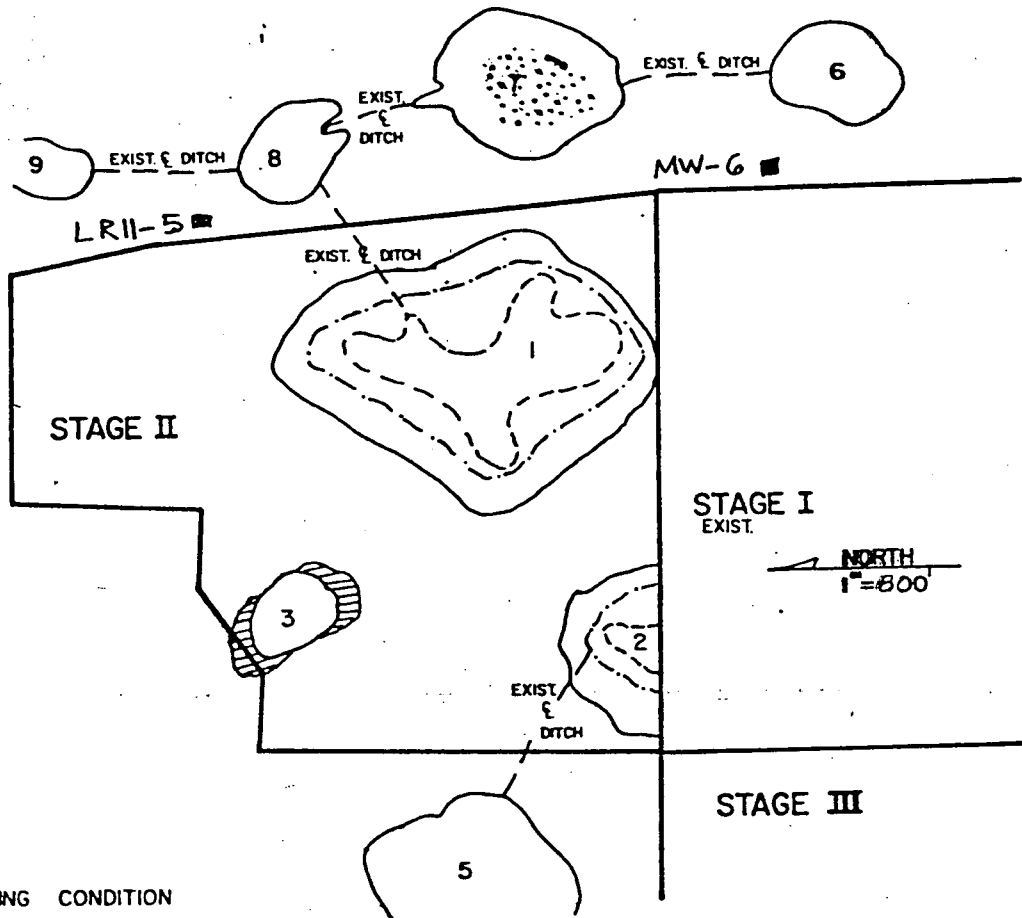


411352349 (DER)

87IPE-20551 (U.S. CORPS)



SHEET 2 OF 17 GENERAL LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

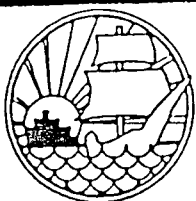
Wayne Roberts
5/22/90



EXISTING CONDITION

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5

- WETLAND INNER ZONE BOUNDARY
- WETLAND MIDDLE ZONE BOUNDARY
- PROP. WETLAND MITIGATION OUTER ZONE BOUNDARY
-  AREA OF NO CONSTRUCTION
- EXIST. SLURRY WALL
-  EXIST. FORESTED WETLAND



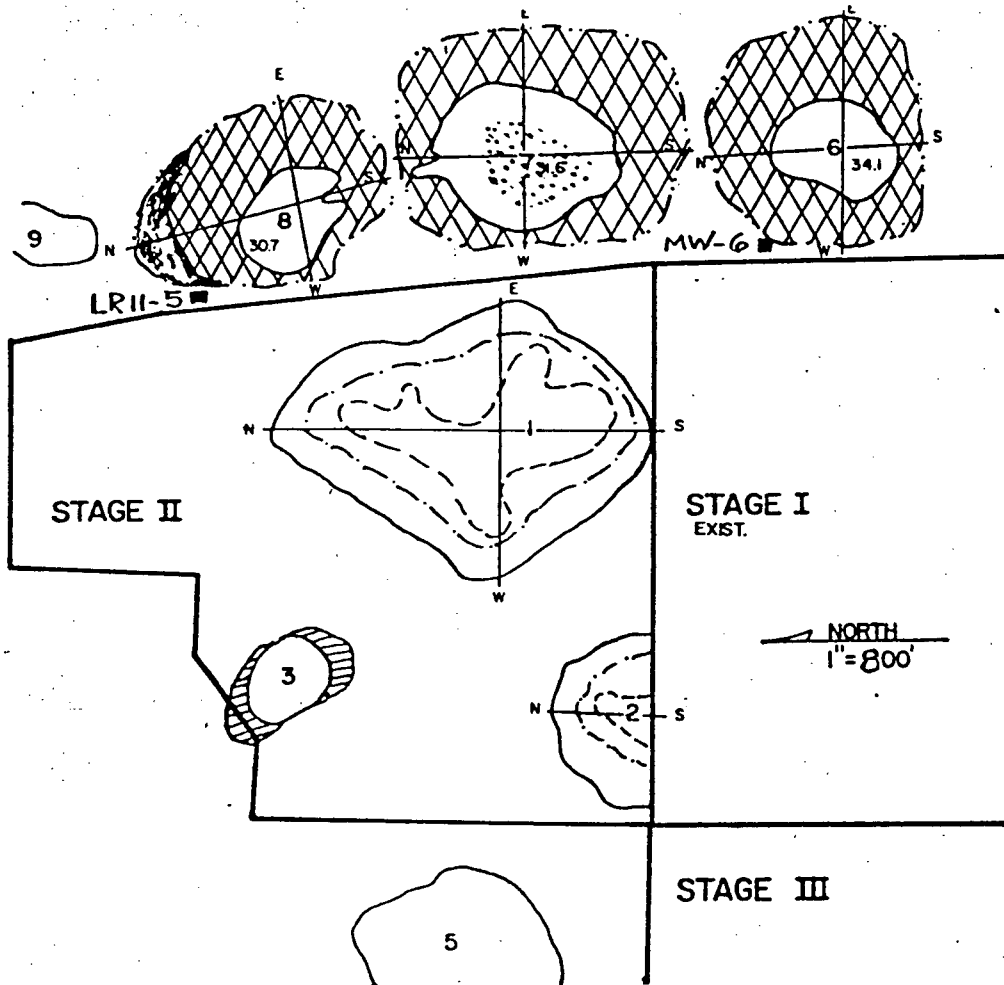
MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT






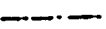



MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

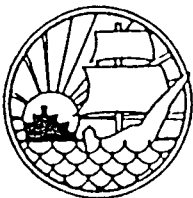
DRAWN BY: BC	DATE: 5/90
CHKD. BY: SM	SCALE: 1"=800'
APPRVD. BY: HWR	SHEET 3 OF 17

[Handwritten signature]
5/22/90



-  EXIST. FORESTED WETLAND
-  PROP. WETLAND MITIGATION
-  PROP. HARDWOOD WETLAND MITIGATION
-  AREA OF NO CONSTRUCTION
-  WETLAND INNER ZONE BOUNDARY
-  WETLAND MIDDLE ZONE BOUNDARY
-  PROP. WETLAND MITIGATION OUTER ZONE BOUNDARY
-  PROP. CONTOUR LINE AND ZONE BOUNDARY
-  EXIST. SLURRY WALL

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: B.C.

DATE: 5/90

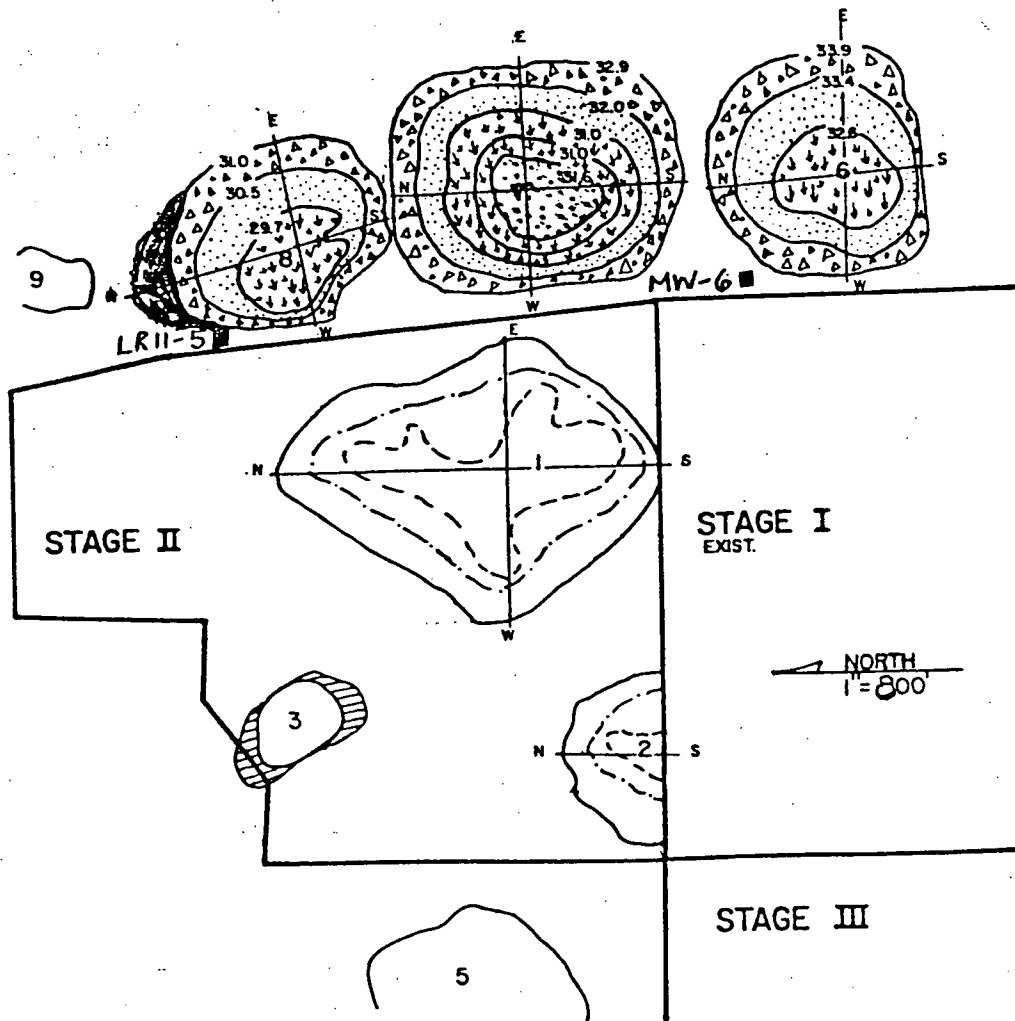
CHKD. BY: SM

SCALE: 1"=800'

APPRVD. BY: HWR

SHEET 4 OF 17

Handwritten signature and date: 5/24/90



- PROP. HARDWOOD WETLAND MITIGATION
- AREA OF NO CONSTRUCTION
- PROP. INNER ZONE
- PROP. MIDDLE ZONE
- PROP. OUTER ZONE
- EXIST. FORESTED WETLAND
- WETLAND INNER ZONE BOUNDARY
- WETLAND MIDDLE ZONE BOUNDARY
- PROP. WETLAND MITIGATION OUTER ZONE BOUNDARY
- PROP. CONTOUR LINE AND ZONE BOUNDARY
- EXIST. SLURRY WALL

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM.

SCALE: 1" = 800'

APPRVD. BY: HWR

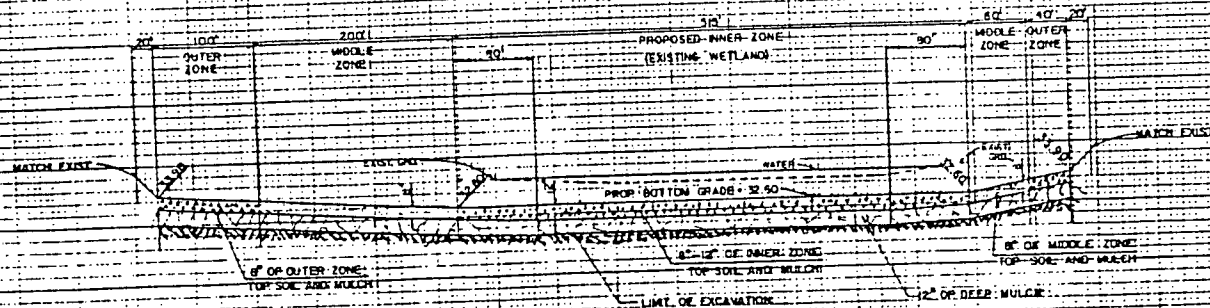
SHEET 5 OF 17



LENA ROAD LANDFILL
WETLAND CREATION

NORTH

361
344
321
301
281

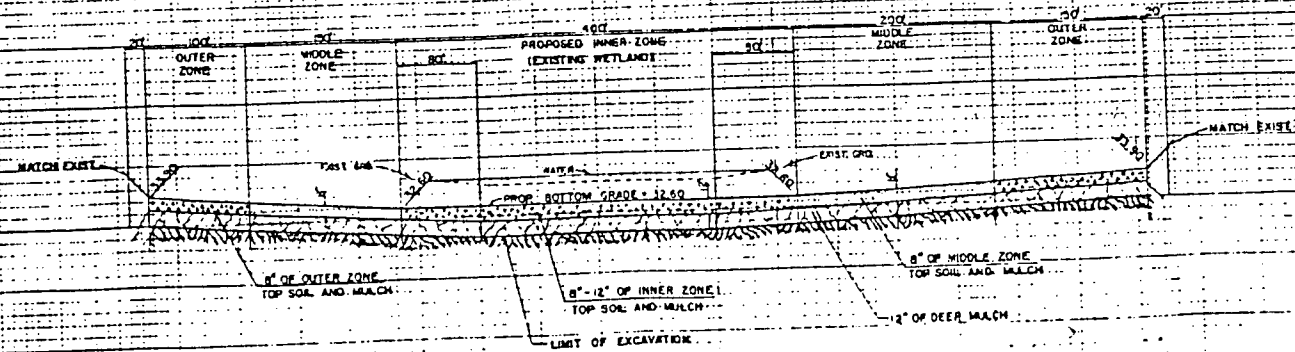


WETLAND #6 N-S

SOUTH

36
34
32
30
28

36
34
32
30
28



WETLAND #6 W-E

EAST

36
34
32
30
28



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

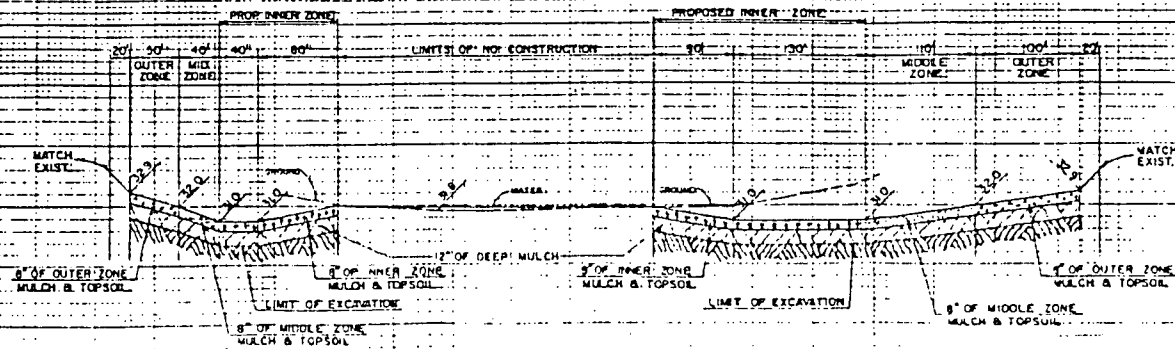
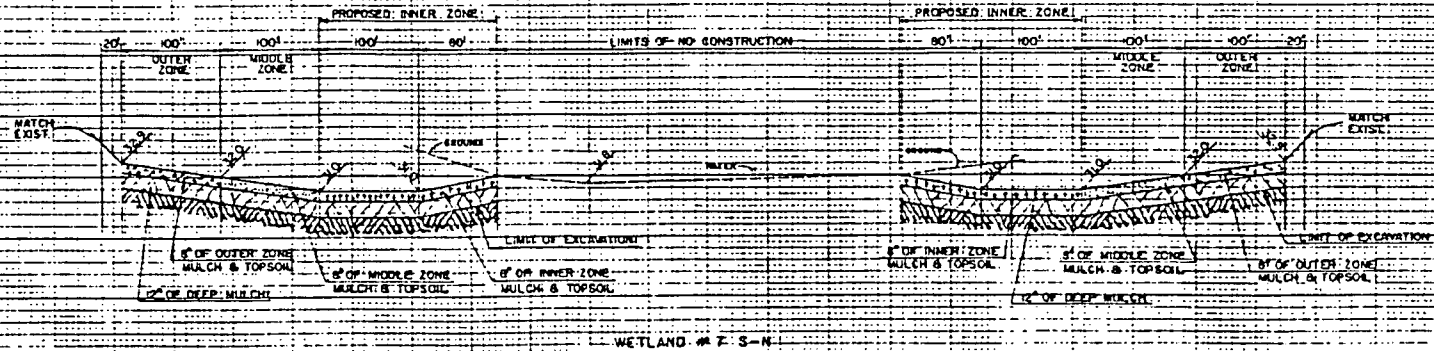
SCALE: 1" = 20'

APPRVD. BY: HWC

SHEET 2 OF 17

[Signature]
5/22/90

LENA ROAD LANDFILL
WETLAND CREATION



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1"

APPRD. BY: HWR

SHEET 2 OF 12

Handwritten signature and date:
5/22/90



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

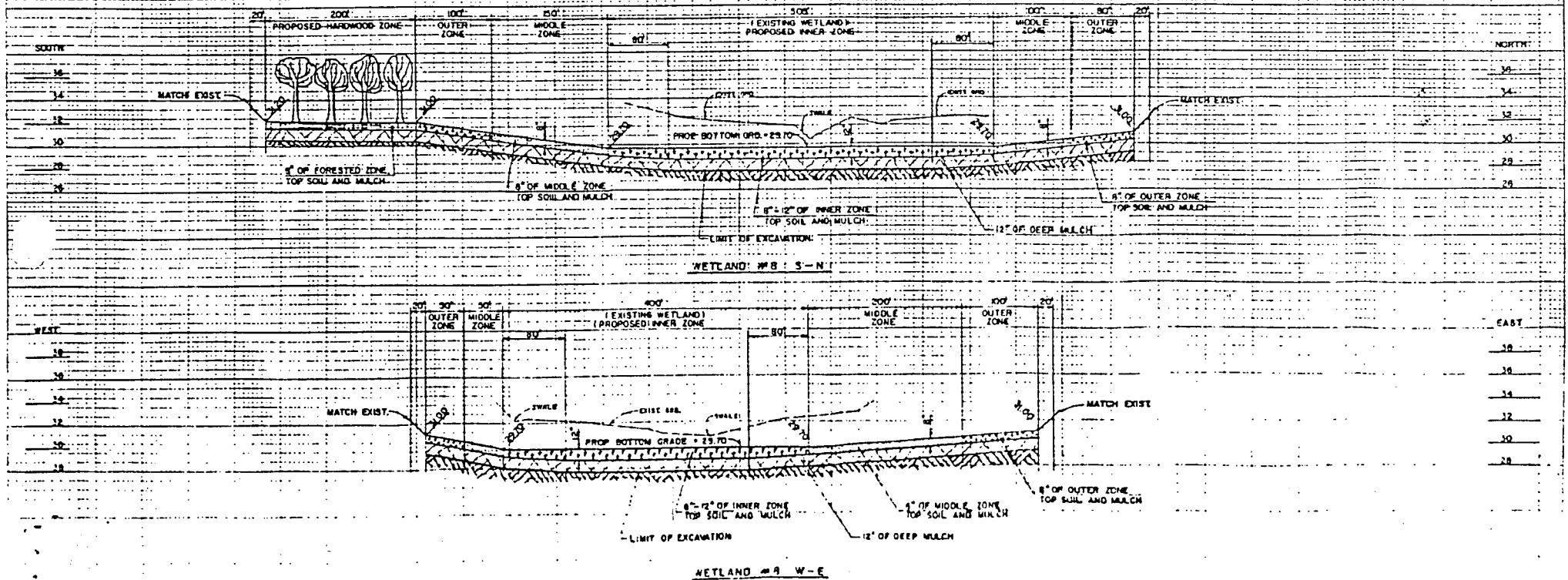
SCALE: 1" = 200'

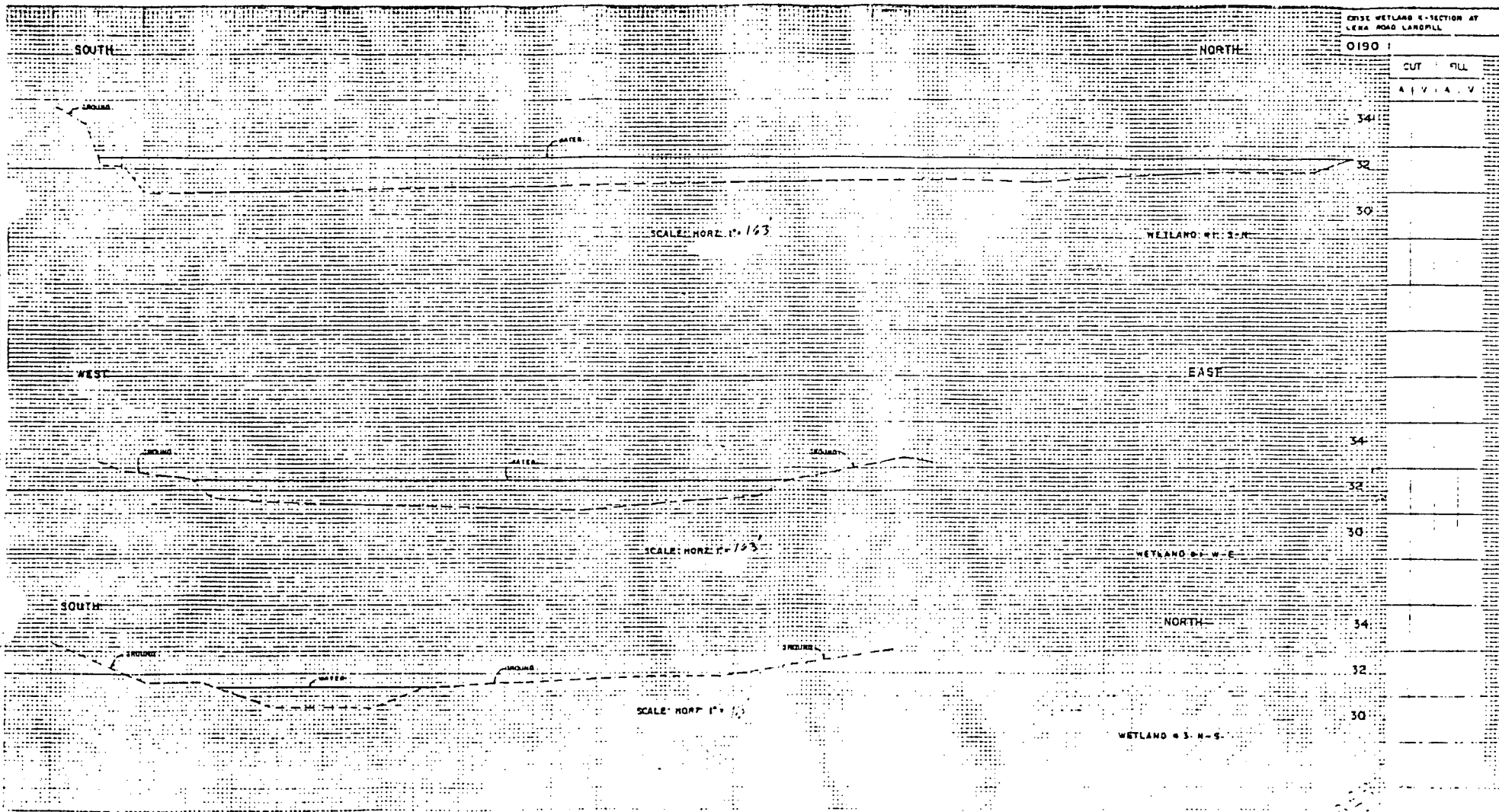
APPRVD. BY: HWR

SHEET 8 OF 17

LENA ROAD LANDFILL
WETLAND CREATION

J. Wayne Roberts
6/22/90





MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352348

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

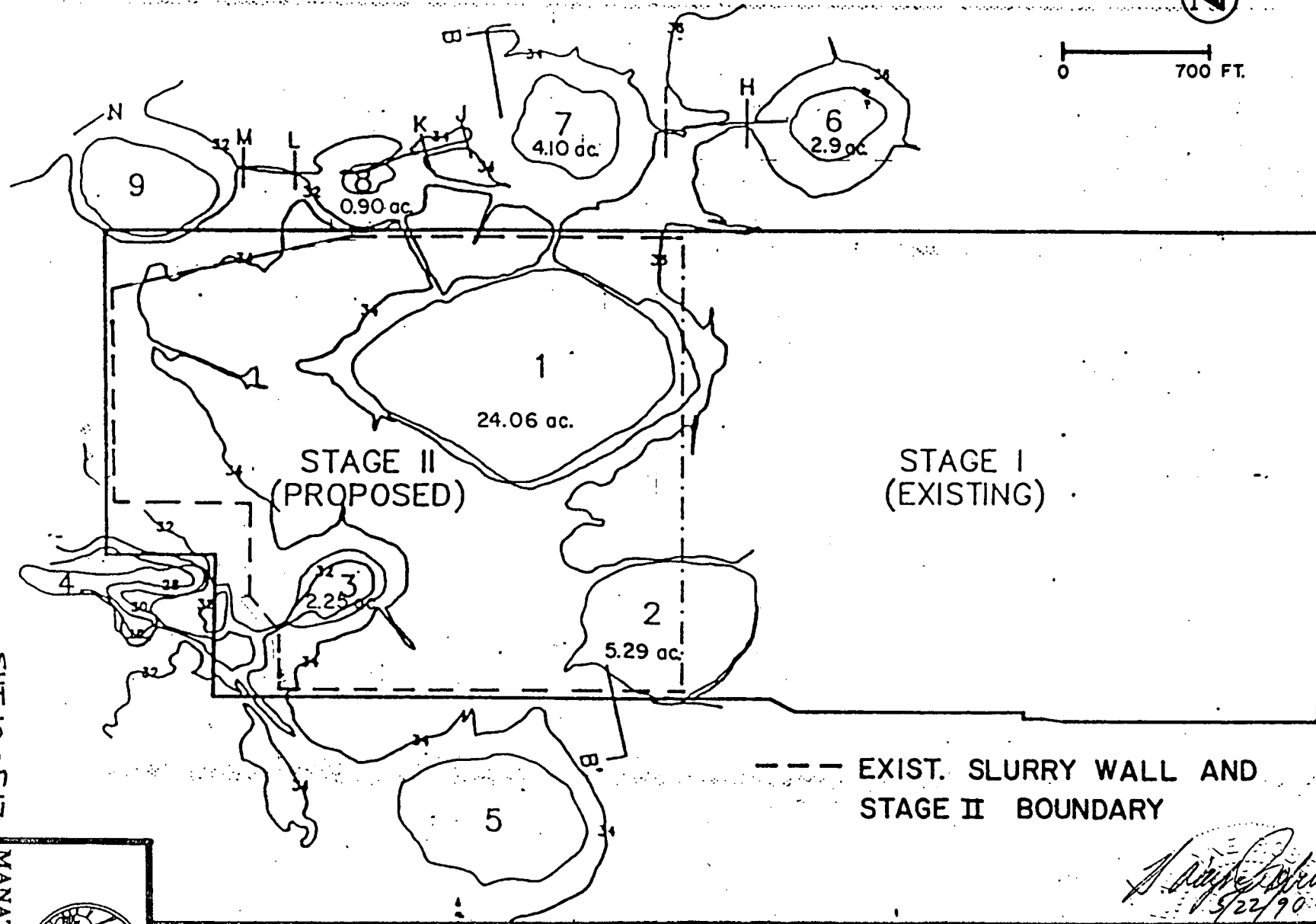
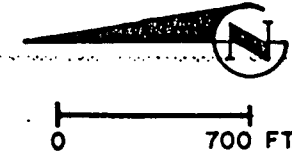
CHKD. BY: SM

SCALE:

APPRVD. BY: HWR

SHEET 1 OF 17

[Signature]
5/22/90



--- EXIST. SLURRY WALL AND
STAGE II BOUNDARY

Handwritten signature
5/22/90

FIGURE 6A. STAGE II EXISTING TOPOGRAPHY FOR LENA ROAD
LANDFILL, MANATEE COUNTY, FL

SHT 10 OF 17



EXISTING WETLAND THAT WILL BE IMPACTED

WETLAND	EXISTING ACRES *	EFFECTIVE RECREATION RATIO	PROPOSED WETLAND MITIGATION
#1	24.06	1:1.45	34.89 ACRES
#2	5.29	1:1	5.29 ACRES
#3	2.25	1:2.50	5.62 ACRES
TOTAL	31.6	1:1.45	45.80 ACRES

* EXIST. WETLAND AS SHOWN ON SHEET 4 OF 14
OF EXIST. DER PERMIT NO. 411352349
AND

U.S. ARMY CORPS OF ENGINEERS

PROPOSED WETLAND CREATION

WETLAND	EXISTING ACRES	PROPOSED WETLAND CREATION	NET WETLAND CREATION	ADDITIONAL WETLAND CREATION OR ENHANCEMENT **
#6	2.90	16.75	13.85	2.90 ACRES
#7	4.10	22.20	18.10	2.35 ACRES
#8	0.90	14.75	13.85	0.90 ACRES
TOTAL	7.90	53.70	45.80	6.15 ACRES

** ASSUMING NO CREDIT FOR ENHANCEMENT OF EXISTING
WETLAND #6, #8 AND ONLY 2.35 ACRES OF #7

DATE 5/22/90 FL. REG. NO. 39612

[Signature]
COUNTY ENGINEER

LENA ROAD WETLAND CREATION

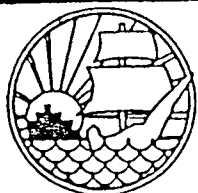
MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT
315 - 75th. STREET WEST
BRADENTON, FLORIDA 34209

MAY 1990 SHEET 11 OF 17

WETLAND CREATION CONSTRUCTION NOTES:

THE FOLLOWING NOTES REPRESENT A CHRONOLOGICAL PROCEDURE BY WHICH WETLANDS WILL BE REMOVED AND RECREATED IN THE PROPOSED WETLAND AREA. SHOULD ANY QUESTIONS OR PROBLEMS ARISE CONCERNING THIS PROCEDURE, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.

1. STAKE OUT THE LIMITS OF NO CONSTRUCTION ACTIVITY ON WETLAND #7. THIS SHOULD PHYSICALLY TAKE PLACE ON SITE BY THE ENVIRONMENTAL SCIENTIST. HE OR SHE WILL ALSO BE STAKING THE THREE ZONES (INNER, MIDDLE, OUTER ZONES) ON THE DONOR WETLAND #1, 2, AND 3.
2. EXCAVATE THE PROPOSED WETLAND #5, 7, AND 8 PRIOR TO ALL OTHER EARTH WORK ACTIVITIES. REFER TO DETAIL CROSS SECTION FOR LIMITS OF EXCAVATION ON EACH WETLAND AND MOVE IT AWAY TO THE EXISTING LANDFILL.
3. DESIGNATE THREE STOCK PILING SITE FOR THREE TOP SOIL AND MULCH ZONES OF WETLANDS CLOSE TO THE WETLAND CREATION AREA.
4. UPON THE ENVIRONMENTAL SCIENTIST APPROVING THE FINAL GRADED WETLAND AREA IN STEP 2, PROCEED WITH STRIPPING APPROXIMATELY TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM STAKED INNER ZONES OF WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREAS IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, OUTER). THIS STOCK PILING SHALL NOT EXCEED 72 HOURS.
5. STRIP OUT THE TOP 24"-36" (WHICH EVER IS APPROVED ON SITE BY ENVIRONMENTAL SCIENTIST) OF THE DEEP MULCH AND SOIL OF THE ENTIRE WETLAND #1, 2 AND MOVE IT TO THE PROPOSED WETLAND CREATION AREA OF #5, 7 AND 8. DEPOSIT THE ABOVE STRIPPED DEEP MULCH AND SOIL 12" THICK AND GRADE IT TO THE PROPOSED DETAIL CROSS SECTION SHOWN FOR #5, 7 AND 8.
6. UPON COMPLETING THE STEP 5 ABOVE AND PHYSICAL SITE INSPECTION BY ENVIRONMENTAL SCIENTIST, THE STOCK PILED TOPSOIL AND MULCH (STEP 4) FOR EACH OF THE INNER, MIDDLE, AND OUTER ZONES TO BE MOVED AND PLACED ON ITS PROPOSED DESIGNATED ZONES SHOWN ON EACH CROSS SECTION FOR #5, 7 AND GRADE IT TO THE PROPOSED ELEVATIONS. START FROM THE INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER ZONE.
7. STRIP OUT THE TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM WETLAND #3 AND MOVE IT DIRECTLY TO WETLAND #8 AND PLACE IT ON ITS DESIGNATED ZONING SHOWN ON THE CROSS SECTION AND GRADE IT TO ITS PROPOSED ELEVATION. START FROM INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER EDGES. FILL IN THE GAP AREAS OF EACH ZONE WITH THE TOP SOIL AND MULCH ALREADY STOCKPILED IN STEP 4.
8. GRADE THE PROPOSED HARDWOOD AREA OF WETLAND #8 TO ITS FINAL GRADE USING THE OUTER ZONE TOP SOIL AND MULCH.
9. FLAG THE TREE ON WETLAND #3 THAT WILL BE TRANSPLANTED TO THE NEW LOCATION ON WETLAND #8. PLANT THE TREES ON GO CENTER. IN ADDITION, TREES FROM ALCAL NURSERY SHALL BE PLANTED ON 15' CENTERS.



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: N/A

APPRVD. BY: HWIR

SHEET 12 OF 17

Handwritten signature
5/22/90



Southwest Florida Water Management District

2379 Broad Street (U.S. 41 South) Brooksville, Florida 34609-6899
Phone (904) 796-7211 or 1-800-423-1476 SUNCOM 628-4150

July 18, 1990

Manatee County Public Works
315 75th Street West
Bradenton, FL 34209

Subject: Notice of Proposed Agency Action
Individual WUP Application No. _____
Individual MSSW Application No. 403143.01
X Approval _____ Denial

Reference: 40D-1.521, Florida Administrative Code

This letter constitutes notice of proposed agency action by the Southwest Florida Water Management District on the above-referenced permit application. Please read thoroughly the enclosed copy of the proposed permit (approvals only) and the District's staff report on the permit application.

The recommendations stated in the staff report will be presented to the District Governing Board for consideration at its next meeting beginning at 1:00 p.m. on July 24, 1990 at the District Headquarters, 2379 Broad Street, Brooksville, Florida 34609-6899.

Any person who is substantially affected by the District's proposed decision on a permit application may request an administrative hearing in accordance with Section 120.57, Florida Statutes (F.S.), and Part V of Chapter 40D-1, Florida Administrative Code (F.A.C.). A request for hearing must (1) state any disputed issues of material fact; (2) explain how each petitioner's substantial interests will be affected by the District's action; and (3) otherwise comply with Rule 40D-1.521. A request for hearing must be filed with (received by) the Agency Clerk of the District at the address above within 14 days after the date of receipt of this notice. When actual receipt of notice cannot be determined, receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, F.S.

If you do not wish to request an administrative hearing but wish to address the Governing Board informally concerning the proposed decision, you may appear before the Governing Board at the time and place stated above. Such an appearance shall not provide a basis for appealing the decision of the Governing Board pursuant to Chapter 120, F.S.

If you have any questions concerning this matter, please contact me.

Sincerely,

ANNIE L. TAYLOR, Manager
Processing & Records

Enclosures: 1. Staff Report
2. Proposed Permit with Conditions (Approvals only)
3. Rule 40D-1.521, F.A.C.

NOTICE.PAA
R.10/10/89

Michael Zagorac, Jr.
Chairman, Belleair
Walter H. Harkala
Vice Chairman, Plant City
Anne Bishopric Sager
Secretary, Venice
Roy G. Harrell, Jr.
Treasurer, St. Petersburg
William H. Wilcox, Ph.D.
Port Charlotte
Mary Ann Hogan
Brooksville
Charles A. Black
Crystal River
Joseph S. Casper
Tampa
Samuel D. Updike
Lake Wales

Peter G. Hubbell
Executive Director
Mark D. Farrell
Assistant Executive Director
Kent A. Zaiser
General Counsel
Stuart C. Anderson
Deputy Executive Director
Resource Management
William K. Hennessey
Deputy Executive Director
Community Affairs
Richard V. McLean
Deputy Executive Director
Resource Regulation
Albert L. Wyand
Deputy Executive Director
Administration and Support

STAFF REPORT
SURFACE WATER PERMITTING
PERMIT APPLICATION

Application Number: 403143.01

Lena Road Landfill

I. ABSTRACT

This application is for the construction of a surface water management system designed to serve a 230 acre county landfill. The site is located approximately one mile south of S.R. 64 and one mile east of I-75 on Lena Road in Manatee County. Construction approval includes the landfill, internal roads, wetland mitigation, and the surface water management system.

The surface water management system consists of two separate drainage basins (Stage II and Stage III). Facilities for each basin consist of 25 feet wide perimeter ditches, 10" underdrain pipe, and grate inlets. Attenuation will be accomplished within the perimeter ditches through raised grate inlets. The post-development peak discharge rate will equal the pre-development rate of 350 cfs for the 25 year-24 hour rainfall event of 8.0 inches. The Department of Regulation issued a dredge and fill permit which included stormwater management for this project. The system approved by DER is an effluent filtration system designed to treat the first 0.5" of runoff with the total treatment volume recovered within the required 36 hours. This design meets the criteria as established in Chapter 40D-4 FAC.

The file of record indicates Manatee County will be responsible for the operation and maintenance of the surface water management system.

No request(s) for notice has been received at the District to date after the published notice of this application. Staff recommendation is for approval of the application subject to limited and listed standard, tracking, and specific conditions.

Six wetlands, totaling 51.8 acres, are located within the project site. The wetlands are comprised predominantly of marshes but also include approximately 1.2 acres of forested wetlands. The applicant proposed to preserve one wetland in its existing condition (7.3 acres), to restore two drained and disturbed wetlands (6.7 acres), and to permanently destroy three wetlands (37.8 acres) in constructing Phase II of the landfill. In addition to restoring 6.7 acres of wetlands, the applicant will create 39.6 acres of wetlands to compensate for the loss of fish and wildlife habitat.

II. BACKGROUND

- A. Applicant: Manatee County Public Works
- B. Date application received: January 23, 1990
- C. Date application complete: May 31, 1990
- D. Type of land use: County Landfill

E. Location of property: Sec. 1 & 12, Twp. 35 South, Rge. 18 East;
Sec. 36, Twp. 34 South, Rge. 18 East;
Sec. 31, Twp. 34 South, Rge. 19 East;
Sec. 6 & 7, Twp. 35 South, Rge 19 East
in Manatee County

III. EXISTING ADJACENT FACILITIES

The total land area owned by Manatee County is 1179 acres and the project area is 230 acres. The project site is currently split with two major uses. Approximately 170 acres have been or are being used for raising cattle. This 170 acre portion is comprised of pine flatwoods, forested and non-forested wetlands, and improved pasture. The remaining 60 acres are being utilized by Manatee County as an operational landfill. There are two borrow pits adjacent to the project area which are used for fill at the existing landfill. This has lowered the water table in this area.

Aerial photographs and U.S.G.S. quad sheets indicate the site has one major watershed. Runoff from the project area sheetflows into several existing wetlands. When these wetlands fill they discharge into Great Gate Creek and eventually north into the Manatee River. The engineer of record has submitted calculations which indicate the pre-development peak rate of discharge is 350 cfs based on TR-55 modeling.

IV. PROPOSED FACILITIES

The proposed surface water management system will be built for two separate basins. Stage II will collect the runoff from 118 acres with a 25 foot wide perimeter ditch. The collected runoff will then either filter through 1100 feet of 10" underdrain or overflow through two grate inlets.

Stage III will collect the runoff from 58 acres with a 25 foot wide perimeter ditch. The runoff then will either filter through 460 feet of 10" underdrain or overflow into a grate inlet.

All perimeter ditches for Stage II and Stage III will be elevated two to three feet above the existing grade to allow separation between the underdrain and the seasonal high water table.

V. EVALUATION

A. Water Quantity

1. Allowable Discharge

The project engineer has provided calculations and supporting documentation indicating that the post-development peak discharge rate will equal the pre-development peak rate. Attenuation will be provided within a 25 foot wide ditch which encircles the project area. Grate inlets at elevations set to detain the necessary storage volumes will discharge into an existing ditch or sheetflow to existing wetlands.

2. Flood Protection

The entire project area according to F.I.R.M. map Panel Number 120153-0352B is located in flood zone "C", therefore no adverse impacts are anticipated.

B. Water Quality

Water quality will be met by effluent filtration for each basin. In Stage II, four sets of 275 linear feet 10" underdrain will treat the first 0.5" of runoff from 118 acres. The necessary treatment volume will recover again in 25.4 hours, below the required 36 hours.

Stage III will use two sets of 230 linear feet 10" underdrain to treat the first 0.5" of runoff from 58 acres. The necessary treatment volume will recover again in 19.3 hours.

C. Environmental Considerations

The 230 acre project site is comprised of approximately 80.2 acres of pine flatwoods, 58.0 acres of wetlands and 40 acres of improved pasture. Six wetlands are located within the project area. Three of the wetlands (wetlands No. 1, No. 2, and No. 3 totaling 37.8 acres) are located within the Phase II landfill area, and three wetlands (wetlands No. 6, No. 7 and No. 8, totaling 14.0 acres) are located within the wetland mitigation area. All six of the wetlands have been classified as the landward extent of Waters of the State by the Florida Department of Environmental Regulation (FDER).

All of the wetlands, except wetland No. 3, have been adversely impacted by past agricultural activities and/or landfill activities. Hydroperiods within wetlands No. 6 and No. 8 have been severely reduced by agricultural ditching and drainage. Wetlands No. 2, No. 3 and No. 7 have been moderately impacted by agricultural ditching and drainage, but continue to provide good hydroecological functions. Approximately half of wetland No. 2 has been destroyed in constructing Phase I of the landfill. The hydrology of wetland No. 6 has also probably been adversely altered by groundwater drawdown from pumping associated with a landfill borrow pit located directly to the south of this wetland. Wetland No 3 appears to be relatively unaltered and preliminary assessment indicates that this wetland currently provides excellent hydroecological functions. A description of the plant communities comprising wetlands No. 1, No. 2 and No. 3 is provided in Table 2. These three wetlands are located within the proposed Phase II area of the landfill.

The applicant proposes to permanently destroy wetlands No. 1, No. 2 and No. 3 in constructing Phase II of the landfill. The applicant has obtained dredge and fill permits from the FDER (permit Number 411352349) and from the U.S. Army Corps of Engineers (permit number 87IPE-20551) which permits the destruction of wetlands No. 1, No. 2 and No. 3 and requires the creation of 36.2 acres of marshes around wetlands No. 6, No. 7, and No. 8.

The wetland mitigation plan specified in the FDER and USACOE permits called for (1) the preservation of the central portions of wetlands No. 6, No. 7, and No. 8, (2) the excavation of 36.2 acres to wetland grade surrounding these wetlands, and (3) mulching the excavated area with wetland topsoil from wetlands No. 1, No. 2, and No. 3. However, a recent site inspection by representatives of Manatee County, FDER, USACOE and the District revealed two potential problems with ensuring the success of the proposed wetland mitigation:

- (1) Wetlands No. 6, No. 7 and No. 8 have undergone significant reductions in hydroperiod from past agricultural ditching. Because the proposed mitigation wetlands would only be excavated to existing wetland grades, adequate hydroperiods for the mitigation wetlands would not be reasonably assured and:
- (2) The central portion of wetlands No. 6, and No. 8 are dominated by the exotic, nuisance plant species primrose willow (Ludwigia peruviana). Primrose willow is required to be removed from wetland mitigation areas as part of the routine maintenance of the created wetlands. The predominance of primrose willow in the preserved portions of wetlands No. 6 and No. 8 would provide a constant source of seeds to the adjacent mitigation wetlands, thus creating a continual maintenance problem.

Manatee County has modified the original wetland mitigation plan to (1) excavate the created wetlands below the existing wetland grade, and (2) restore, rather than preserve, wetlands No. 6 and No. 8 by removing the primrose willow and associated topsoil from these wetlands and mulching with wetland topsoil from the donor wetlands (i.e. wetlands No. 1, No. 2 and No. 3). Under the modified wetland mitigation plan, Manatee County will compensate for the loss of 37.8 acres of wetland habitat by creating 39.6 acres of wetlands and by restoring 6.7 acres of wetlands (see Tracking Condition 4 and Specific Conditions No. 2, No. 3, and No. 4). Wetlands created for mitigation will include approximately 37.9 acres of marsh and 1.7 acres of swamp. The created wetlands will be vegetated by a combination of mulching with wetland topsoil from wetlands No. 1 and No. 3 and from portions of wetland No. 2, transplanting trees from wetland No. 3 and planting with nursery-grown wetland trees.

D. Land Use Information

The project is located on land zoned for agriculture but specified as major public facility use.

E. Utilities

Southeast Subregional waste water treatment plant.

F. Systems Operations

Operation and maintenance of the surface water management system will be the responsibility of the applicant, Manatee County.

VI. REQUESTS FOR PROPOSED AGENCY ACTION

The District has received no objections to the surface water management construction permit application to date.

VII. RECOMMENDATION

Staff recommends approval of this application subject to limiting and listed standard, tracking and specific conditions.

STANDARD CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
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 District.
3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.
6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District 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 District rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:
- a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and
 - d. Gathering of data and information.

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

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 notify and provide the District with the following information:

- a. A description of and cause of non-compliance; and
- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the District for penalties or revocation of this permit.

9. This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.
10. When requested by the District, 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 that relevant facts were not submitted or were incorrect in the permit application or in any report to the District, such facts or information shall be submitted or corrected promptly.
11. Drawings, plans, calculations, specifications or other information submitted by the permittee, not attached hereto, but retained on file at the District office, are made a part of this permit.
12. A copy of this permit and a set of construction drawings depicting the permitted system are required to be kept at the work site of the permitted activity during the entire period of construction or operation. The approved construction drawings are issued as a part of this permit.

13. The discharges from this system shall meet state water quality standards as set forth in Chapter 17-3 and Rule 17-4.242 for class waters equivalent to the receiving waters.
14. Any water discharged from the site during construction of the project shall meet State water quality standards at the property boundary or point of discharge to wetlands or State waters. If the discharge does not meet these standards, the discharge will be immediately stopped and the District shall be notified of corrective action taken to correct the violation. Turbidity shall not exceed 29 N.T.U. above background level. Turbidity shall be monitored at least daily during discharge, or more often as determined by the project engineer if needed, to ensure compliance.
15. The permittee and construction representatives shall assure that erosion and sediment control measures as necessary and as required by Rule 40D-4.091 shall be effectively implemented continuously from beginning of project construction until completion to prevent erosion and transport and discharge of sediment to wetlands or any property other than the project area. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project shall be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters on or off site.
16. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 40D-40, F.A.C.
17. All rights-of-way and easement locations necessary to construct, operate and maintain all facilities, including uplands conservation/buffer areas and wetlands, which constitute the permitted surface water management system shall be reserved for water management purposes. Prior to site occupancy the reserved areas shall be shown on any final subdivision plat and recorded in the county public records as special use areas for dedication to the responsible operation and maintenance entity.
18. Construction of the discharge control and water quality treatment facilities which are part of the permitted surface water management system shall be completed and operational prior to beneficial occupancy and use of the project development being served.
19. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.
20. Construction of all water management facilities, including wetlands compensation, grading, mulching, planting of mitigation areas, etc. must be completed prior to beneficial occupancy of the project or operation of the surface water management system.

21. The excavation of retention/detention ponds is limited to the permitted design elevation(s).

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.
2. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.
 - a. For systems utilizing effluent filtration or exfiltration, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.
3. Refer to LIMITING CONDITION No. 4 herein.
4. Environmental monitoring is required for determination of:

- () environmental impacts incurred by the permitted activities
- (x) compensation success

Monitoring parameters include those identified in permit conditions plus water levels. Fixed point photographic documentation of each monitoring site shall also be submitted for each monitoring event. Following construction, monitoring reports shall be submitted by the applicant at the following intervals:

- (x) semi-annually
- () annually
- () quarterly during the first year and semi-annually thereafter
- () quarterly during the first year, semi-annually during the next 2 years, and annually thereafter

Environmental monitoring shall continue:

- () for a period of 2 years
- () for a period of 3 years
- (x) for a period of 5 years for forested creation, and
- (x) until success criteria are met for 2 consecutive monitoring intervals for non-forested wetland creation.

Monitoring reports shall be submitted to:

Permits Data Group
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

SPECIFIC CONDITIONS

1. The District verified wetland boundaries and buffer areas, if applicable, shall be clearly delineated on the site prior to initial clearing and grading activities. The delineation shall endure throughout the construction period and be readily discernible to construction personnel.
2. All aspects of wetlands compensation including grading, mulching and planting of mitigation areas must be completed within 60 days of initial wetland impact.
3. Environmental monitoring for compensation success shall include measurement of the parameters listed:
 - (x) macrophyte species diversity
 - (x) macrophyte species composition and relative abundance
 - (x) percent vegetation coverage
 - (x) hydroperiod and water levels

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record.

4. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. Wetlands NO. 1 and No. 3, and the central zone and transitional zones of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetland trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed until success criteria have been met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements.

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record. Commencement of construction activities is prohibited until all details of the monitoring program have been approved.

5. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. from uplands as detailed in approved plans included with the application submittal. Wetlands No. 1, and No. 3, and the central zone and transitional zone of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetlands trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands creation as mitigation for wetland impacts shall be considered successful when conditions in the created wetlands equal or exceed conditions specified below:

- (a) The created wetlands are dominated by Obligate Wetlands and Facultative Wetlands plant species (i.e. U.S. Fish and Wildlife Service/N.W.I. Classification) contained within three distinct vegetative zones;
- (b) The hydroperiod equals or exceeds ninety (90) days within the created wetlands;
- (c) Percent coverage by wetland herbs and grasses (including naturally recruited species, excluding exotic and undesirable species) equals or exceeds eighty (80) percent of the surface area within the created wetlands; and
- (d) Percent survival of nursery grown, planted wetland trees exceed eighty five (85) percent and percent survival of transplanted wetland trees exceeds fifty (50) percent within the created wetlands.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed at quarterly intervals during the first year and semi-annually thereafter until success criteria are met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements. Planting with wetlands vegetation may be required for created wetlands in which recruited vegetation fails to meet percent coverage requirements.

VIII. REFERENCES

None

IX. VISUAL DISPLAY(S)

Location map

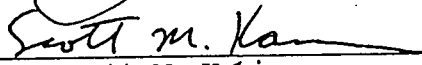
X. PROPOSED PERMIT

Attached

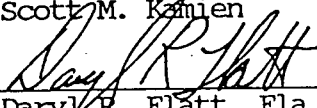
Environmental Scientist


Mark Halbach

Application Reviewed By:


Scott M. Kamin

Report Received By:


Daryl R. Flatt, Fla. P.E.
Venice Permitting Department
Resource Regulation

Date:

7/16/90

Table 1. Wetlands Report

PROJECT NAME - Lena Road Landfill

PERMIT NUMBER -	403143.01
COUNTY -	Manatee
PROPOSED LAND USE - Landfill	Government
TOTAL PROJECT ACREAGE -	230
TOTAL WETLAND ACREAGE -	51.8
WETLAND ACREAGE PRESERVED -	7.3
WETLAND ACREAGE TEMPORARILY DISTURBED -	6.7
WETLAND ACREAGE (NATURAL) PERMANENTLY DESTROYED -	37.8
WETLAND ACREAGE CREATED (MITIGATION) -	39.6
WETLAND ACREAGE NET CHANGE -	+1.8
WETLAND ACREAGE IMPROVED -	6.7
OTHER COMPENSATION ACREAGE -	0

Remarks - Create 39.6 acres isolated marsh and swamp, and restore two drained and disturbed marshes.

Rev. 6/90

Table 2. Description of the vegetative zonation and the dominant wetland plant species observed for wetlands 1, 2 and 3 at the Lena Road Landfill, Manatee county, on March 28, 1990 (plants are listed in order of decreasing dominance).

<u>Wetland #</u>	<u>Zone</u>	<u>Common Name</u>	<u>(Scientific Name)</u>
1	central	pickerel weed	(<u>Pontederia cordata</u>)
		mosquito fern	(<u>Azolla carolinana</u>)
		bladderwort	(<u>Utricularia</u> sp.)
		duckweed	(<u>Lemna</u> sp.)
		arrowhead	(<u>Sagittaria lancifolia</u>)
		willow	(<u>Salix caroliniana</u>)
	middle	maidencane	(<u>Panicum hemitomon</u>)
		pickerel weed	
		smartweed	(<u>Polygonum</u> <u>hydropiperoides</u>)
		red ludwigia	(<u>Ludwigia repens</u>)
		spike rush	(<u>Eleocharis</u> sp.)
		beak rush	(<u>Rhynchospora inundata</u>)
		bladderwort	
		mermaid weed	(<u>Proserpinaca pectinata</u>)
		pennywort	(<u>Hydrocotyle umbellata</u>)
		false bishop's weed	(<u>Ptilimnium capillaceum</u>)
		broomsedge	(<u>Andropogon virginicus</u>)
		primrose willow	(<u>Ludwigia peruviana</u>)
		red maple	(<u>Acer rubrum</u>)
	lower transitional	red ludwigia	
		spike rush	
		pennywort	
		torpedo grass	(<u>Panicum repens</u>)
		broomsedge	
		panicum grass	(<u>Panicum</u> sp.)
	upper transitional	unidentified grass	sp. #1
		wax myrtle	(<u>Myrica cerifera</u>)
		spike rush	
		rush	(<u>Juncus</u> sp.)
		beak rushes	(<u>Rhynchospora</u> spp.)
		rush fuirena	(<u>Fuirena scirpoidea</u>)
		torpedo grass	
		carpet grass	(<u>Axonopus</u> sp.)
		broomsedge	
		climbing hemprine	(<u>Mikania scandens</u>)
		pennywort	
		sedge	(<u>Carex</u> sp.)
		unidentified grass	sp. #1
		primrose willow	
2	central	smartweed	
		panicum grass	(<u>Panicum</u> sp.)

<u>Wetland #</u>	<u>Zone</u>	<u>Common Name</u>	<u>(Scientific Name)</u>
2	central	wax myrtle	*
	middle	torpedo grass	**
	transitional	wax myrtle	
		rush fuirena	
		fuirena	(<u>Fuirena squarosa</u>)
		bushy bluestem	(<u>Andropogon glomeratus</u>)
		pennywort	
3	central	coinwort	(<u>Centula asiatica</u>)
		pickerel weed	
		water lily	(<u>Nymphaea odorata</u>)
		bladderwort	
		coinwort	***
		willow	
		buttonbush	(<u>Cephalantus occidentalis</u>)
	middle	soft rush	(<u>Juncus effusus</u>)
		panicum grass	(<u>Panicum</u> sp.)
		smartweed	
		arrowhead	
		willow	
		buttonbush	
	transitional	sand cordgrass	(<u>Spartina bakeri</u>)
		red ludwigia	
		broomsedge	
		arrowhead	
		spikerush	
		laurel oak	(<u>Quercus laurifolia</u>)
		duhoon holly	(<u>Ilex cassine</u>)
		buttonbush	
		willow	
		Virginia chain fern	(<u>Woodwardia virginica</u>)
		highbush blueberry	(<u>Vaccinium corymbosum</u>)
		saw palmetto	(<u>Serenoa repens</u>)

* located on spoil from an excavated cattle pond

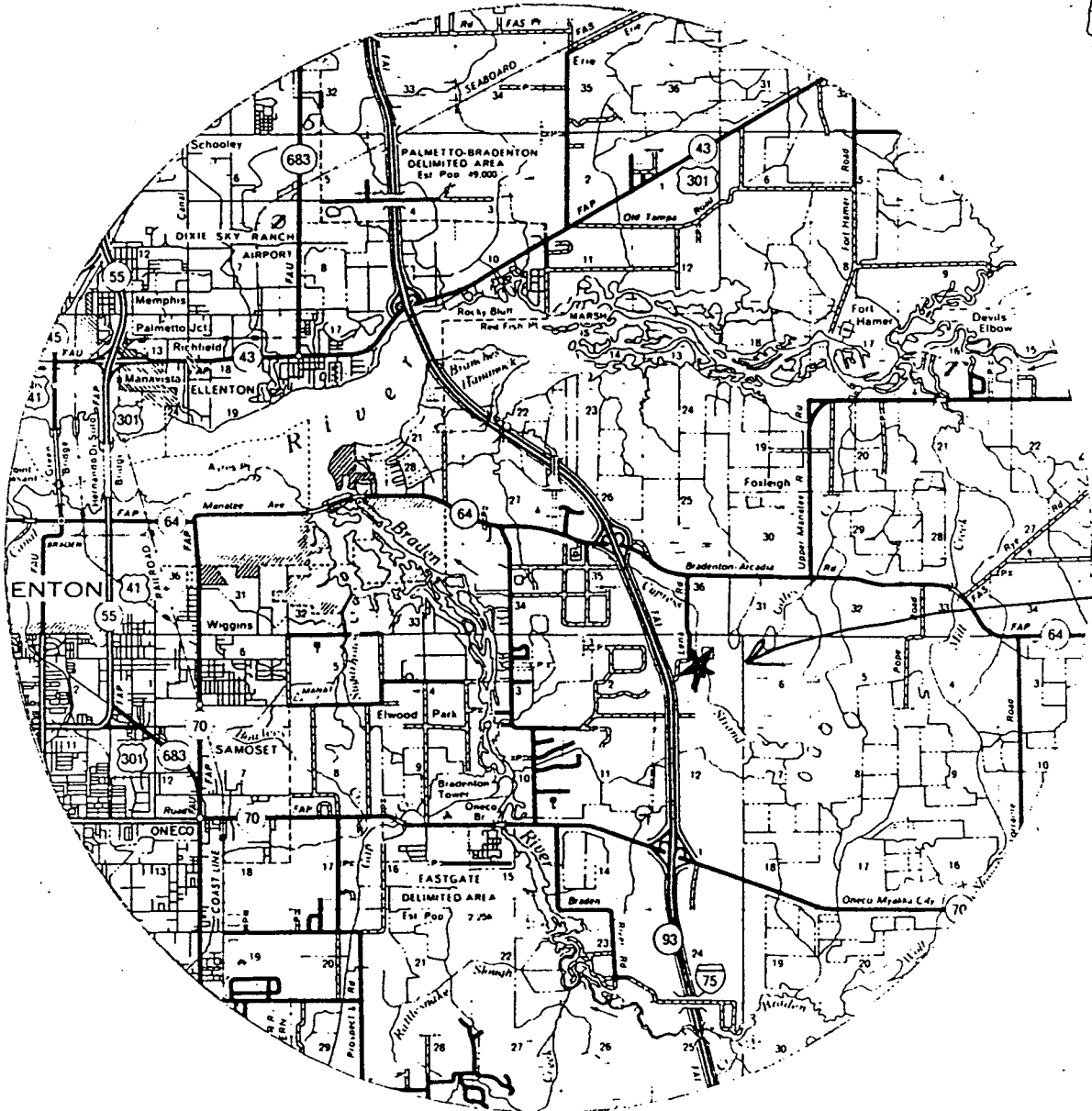
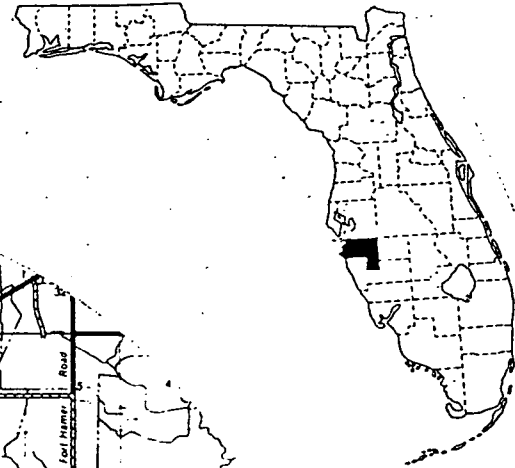
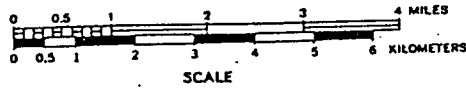
** dense monoculture

*** in a floating mat associated with bladderwort

VICINITY MAP

MANATEE COUNTY

FLORIDA



PROJECT LOCATION
MSW # 403143, 01

DRAFT

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
INDIVIDUAL
MANAGEMENT OF SURFACE WATER PERMIT**

PERMIT GRANTED TO:

Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

PERMIT NO:

403143.01

PERMIT APPLICATION

DATE FILED: January 23, 1990

DATE AMENDED:

PERMIT GRANTED ON:

PERMIT EXPIRES ON:

PROJECT NAME: Lena Road Landfill

COUNTY: Manatee

LOCATION

SECTION	1,12	36	31	6,7
TOWNSHIP	35	34	34	35
RANGE	18	18	19	19

This permit is issued under the provisions of Chapter 373, Florida Statutes, Florida Administrative Code Rule(s) 40D-4 and 40D-40. The above-named permittee is hereby authorized to perform the work or operate the facility shown by the application and approved drawing(s), plans, and other documents, attached hereto or on file with the District and made a part hereof, and specifically described as follows:

Construction of a Surface Water Management System serving a 230 acre Government Landfill project as named above.

LIMITING CONDITIONS

1. The permittee shall perform the construction authorized in a manner so as to minimize any adverse impact of the system 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 the surface waters of the state shall be submitted to the District as required. Parameters to be monitored may include those listed in Chapter 17-3. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by American Public Health Association of Methods for Chemical analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the state.
3. The permittee shall comply with all applicable local subdivision regulations and other local requirements. In addition the permittee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction or alteration of works authorized by this permit.
4. The operation phase of this permit shall not become effective until the owner or his authorized agent certifies that all facilities have been

DRAFT

constructed in accordance with the design permitted by the District. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the certification and notify the District that the facilities are complete. Upon completion of the surface water management system, the permittee shall request transfer of the permit to the responsible entity approved by the District. The District may inspect the system and require remedial measures as a condition of transfer of the permit.

5. All roads shall be set at or above elevations required by the applicable local governmental flood criteria.
6. All building floors shall be set at or above elevations acceptable to the applicable local government.
7. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
8. No construction authorized herein shall commence until a responsible entity acceptable to the District has been established and has agreed to operate and maintain the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized herein. Upon receipt of written evidence of the satisfaction of this condition, the District will issue an authorization to commence construction.
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 40D-4.
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 the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.
12. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation for each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application. Temporary dewatering during construction, i.e., well pointing, ditching, etc. that will not affect adjacent wetlands or off-site lands is exempt from this requirement.

STANDARD CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee

Permit Number: 403143...

Project Name: Lena Road Landfill

Page 3

"DRAFT"

and enforceable pursuant to the authority of Chapters 373 and 403, Florida Statutes. The permittee is hereby placed on notice that the District will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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 District.
3. The issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other District and Department of Environmental Regulation permit that may be required for other aspects of the total project which are not addressed in the 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of the permitted system, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and District and Department of Environmental Regulation rules, unless specifically authorized by any order from the District or Department.
6. The permittee shall at all times properly operate and maintain the systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with conditions of this permit, as required by District 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 District rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized District personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted; for the purposes of inspection and testing to determine compliance with this permit and District regulations, such as:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit;

"DRAFT"

- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or District rules; and
- d. Gathering of data and information.

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

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 notify and provide the District with the following information:

- a. A description of and cause of non-compliance; and
- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the District for penalties or revocation of this permit.

9. This permit is transferable only upon District approval in accordance with Florida Administrative Code rules 40D-4.351 as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the District.
10. When requested by the District, 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 that relevant facts were not submitted or were incorrect in the permit application or in any report to the District, such facts or information shall be submitted or corrected promptly.
11. Drawings, plans, calculations, specifications or other information submitted by the permittee, not attached hereto, but retained on file at the District office, are made a part of this permit.
12. A copy of this permit and a set of construction drawings depicting the permitted system are required to be kept at the work site of the permitted activity during the entire period of construction or operation. The approved construction drawings are issued as a part of this permit.
13. The discharges from this system shall meet state water quality standards as set forth in Chapter 17-3 and Rule 17-4.242 for class waters equivalent to the receiving waters.
14. Any water discharged from the site during construction of the project shall meet State water quality standards at the property boundary or point of discharge to wetlands or State waters. If the discharge does not meet these standards, the discharge will be immediately stopped and the District shall be notified of corrective action taken to correct the violation. Turbidity shall not exceed 29 N.T.U. above background level. Turbidity shall be monitored at least daily during discharge, or more often as determined by the project engineer if needed, to ensure compliance.

"DRAFT"

15. The permittee and construction representatives shall assure that erosion and sediment control measures as necessary and as required by Rule 40D-4.091 shall be effectively implemented continuously from beginning of project construction until completion to prevent erosion and transport and discharge of sediment to wetlands or any property other than the project area. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project shall be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or off site.
16. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 40D-40, F.A.C.
17. All rights-of-way and easement locations necessary to construct, operate and maintain all facilities, including uplands conservation/buffer areas and wetlands, which constitute the permitted surface water management system shall be reserved for water management purposes. Prior to site occupancy the reserved areas shall be shown on any final subdivision plat and recorded in the county public records as special use areas for dedication to the responsible operation and maintenance entity.
18. Construction of the discharge control and water quality treatment facilities which are part of the permitted surface water management system shall be completed and operational prior to beneficial occupancy and use of the project development being served.
19. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.
20. Construction of all water management facilities, including wetlands compensation, grading, mulching, planting of mitigation areas, etc. must be completed prior to beneficial occupancy of the project or operation of the surface water management system.
21. The excavation of retention/detention ponds is limited to the permitted design elevation(s).

TRACKING CONDITIONS

1. The permittee shall immediately provide written notification to the District upon beginning any construction authorized by this permit.
2. The Operation and Maintenance Entity shall submit inspection reports in the form required by the District, in accordance with the following schedule unless specified otherwise herein or in Application Information.
 - a. For systems utilizing effluent filtration or exfiltration, the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.
3. Refer to LIMITING CONDITION No. 4 herein.

"DRAFT"

4. Environmental monitoring is required for determination of:

- () environmental impacts incurred by the permitted activities
- (x) compensation success

Monitoring parameters include those identified in permit conditions plus water levels. Fixed point photographic documentation of each monitoring site shall also be submitted for each monitoring event. Following construction, monitoring reports shall be submitted by the applicant at the following intervals:

- (x) semi-annually
- () annually
- () quarterly during the first year and semi-annually thereafter
- () quarterly during the first year, semi-annually during the next 2 years, and annually thereafter

Environmental monitoring shall continue:

- () for a period of 2 years
- () for a period of 3 years
- (x) for a period of 5 years for forested creation, and
- (x) until success criteria are met for 2 consecutive monitoring intervals for non-forested wetland creation.

Monitoring reports shall be submitted to:

Permits Data Group
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

SPECIFIC CONDITIONS

1. The District verified wetland boundaries and buffer areas, if applicable, shall be clearly delineated on the site prior to initial clearing and grading activities. The delineation shall endure throughout the construction period and be readily discernible to construction personnel.
2. All aspects of wetlands compensation including grading, mulching and planting of mitigation areas must be completed within 60 days of initial wetland impact.
3. Environmental monitoring for compensation success shall include measurement of the parameters listed:
 - (x) macrophyte species diversity
 - (x) macrophyte species composition and relative abundance
 - (x) percent vegetation coverage
 - (x) hydroperiod and water levels

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record.

"DRAFT"

4. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. Wetlands NO. 1 and No. 3, and the central zone and transitional zones of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetland trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed until success criteria have been met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements.

Sampling methods and locations for environmental monitoring must be approved by District staff prior to implementation of the monitoring program. Documentation detailing approved methods must be submitted by the permittee for inclusion in the permanent file of record. Commencement of construction activities is prohibited until all details of the monitoring program have been approved.

5. To compensate for wetland impacts, the permittee shall create 37.8 acres of non-forested wetlands and 1.7 acres of forested wetlands as detailed in approved plans included with the application submittal. from uplands as detailed in approved plans included with the application submittal. Wetlands No. 1, and No. 3, and the central zone and transitional zone of wetland No. 2 are approved by the District as donor sites for wetland topsoil to be used in mulching the created wetlands. The forested portions of wetland No. 3 are approved by the District as donor sites for wetlands trees which will be transplanted in the created wetlands. All other planted wetland vegetation must be nursery grown or obtained from a suitable donor site approved by the District.

Wetlands creation as mitigation for wetland impacts shall be considered successful when conditions in the created wetlands equal or exceed conditions specified below:

- (a) The created wetlands are dominated by Obligate Wetlands and Facultative Wetlands plant species (i.e. U.S. Fish and Wildlife Service/N.W.I. Classification) contained within three distinct vegetative zones;
- (b) The hydroperiod equals or exceeds ninety (90) days within the created wetlands;
- (c) Percent coverage by wetland herbs and grasses (including naturally recruited species, excluding exotic and undesirable species) equals or exceeds eighty (80) percent of the surface area within the created wetlands; and

Permit Number: 403143.

Project Name: Lena Road Landfill

Page 8

DRAFT

- (d) Percent survival of nursery grown, planted wetland trees exceed eighty five (85) percent and percent survival of transplanted wetland trees exceeds fifty (50) percent within the created wetlands.

Wetlands created as a requirement of this construction permit shall be maintained for the duration of the operation permit serving the surface water management system. Cattails and exotic plant species shall be removed at quarterly intervals during the first year and semi-annually thereafter until success criteria are met and monitoring is no longer required. Annual replanting is required for created wetlands in which planted vegetation fails to meet survivorship requirements. Planting with wetlands vegetation may be required for created wetlands in which recruited vegetation fails to meet percent coverage requirements.

Authorized Signature
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Rev. 6/90

SUBPART B - FORMAL PROCEEDINGS

40D-1.521 Initiation of Formal Proceedings

(1) Formal proceedings shall be initiated by petition to the District. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard letter size and signed by the petitioner or his representative. Unless printed, the impression shall be on one side of the paper only and 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;
- (b) 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 petitioner received Notice of the District's Proposed or Final Agency Action;
- (e) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (f) A concise statement of the ultimate facts which petitioner believes entitle him to relief sought as well as the rules and statutes which support petitioner's claim for relief;
- (g) A statement of preference of presiding officer;
- (h) A demand for the relief to which the petitioner deems himself entitled; and
- (i) Other information which the petitioner contends is material.

(3) Upon receipt of a petition for formal proceedings the District shall review the petition and shall provide a statement of compliance of the petition which the requirements of this rule to the Board and the petitioner. The Board shall accept those petitions in substantial compliance with this rule which have been timely filed and which state a dispute which is within the jurisdiction of the District to resolve. If the petition is accepted the Board shall designate the presiding office. 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 the Board designates a Hearing Officer assigned by the Division of Administrative Hearings as the presiding officer, the Agency Clerk shall forward the petition and all materials filed with the District to the Division of Administrative Hearings, and shall notify all parties of such action.

(5) Petitioners entitled to a hearing pursuant to Subsection 120.57(1), Florida Statutes, may waive their right to a formal hearing and request an informal hearing before the Board pursuant to Subsection 120.57(2), Florida Statutes, which may be granted at the option of the District.



MANATEE COUNTY GOVERNMENT

Public Works Department

July 13, 1990

Department of Environmental Regulation
Marleene K. Stern
Wetland Resource Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Re: **Modification of Permit No. 411352349**
Date of Issue: 12/10/87, Expiration 12/10/92
County: Manatee
Project: Lena Road Landfill Phase II
Wetland Creation and Enhancement

Dear Ms. Stern,

I have received your letter and comments for the propose modification of the above referenced permit. The changes that you have requested have been made and the answers to some of your questions and comments have been noted on the drawings, and the answers to the remaining of your concerns are as follows:

3.a) The changes were made as appropriate and the existing elevations are shown (Inner zone) on sheet 4 of 17 and the existing cross sections for wetlands 6, 7 and 8 are shown as in dash line on sheets 6, 7, 8 respectively, however, the zone boundaries were never established by the County Survey crew who did the entire survey in April 1990. Existing spot elevations were added at the boundaries of the proposed forested zone at wetland 8.

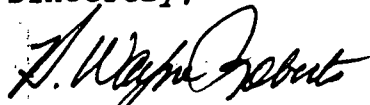
3.b,c) The existing cross section for each of wetlands 1, 2, and 3 are shown on sheet 9 of 17. The inner, middle, and outer zones were never established by the survey. The lines shown on sheet 4 of 17 are merely boundary lines, and those are not contours and those were established by physically walking all of the wetlands and the use of the latest aerial photograph on 3/28/90, by Mr. Mark Haiback, of S.W.F.W.M.D. and my staff. Currently, Manatee County is working on a Request for Proposal for an environmental scientist for this project to carry out the tasks shown on sheet 12 of 17.

5.a,f) Wetlands 1, 2, 3, 6, 7 and 8 were surveyed by Manatee County under supervision of two professional land surveyors employed by the County. All the DATUM shown is NGVD, and if there was any water present in the referenced wetlands in April 1990, the water level was shot, and was shown on drawings. There was one exception to the above in regard to wetland #6 the water level was picked up which is not a true water level elevation. On March 28, 1990, when site inspection was conducted by S.W.F.W.M.D. and my staff, it was discovered that wetland #6 was totally dry and it was suggested at that time by S.W.F.W.M.D. to pump water from the near by barrow pit to wetland #6. By the time the survey crew was able to run a transect through this wetland, it had collected almost 4 weeks of pumping water, therefore, water level were present in the wetland and the survey crew shot the elevation.

I have removed the water level mark of wetland 6 of the cross section. The true water level could be detected through the ground water monitoring well (MWG, Sheet 15 of 17) report done by Ardaman & Associates, Inc.

Should you have any questions, or wish to discuss any item(s) listed above, please call me at (813) 794-1939.

Sincerely,

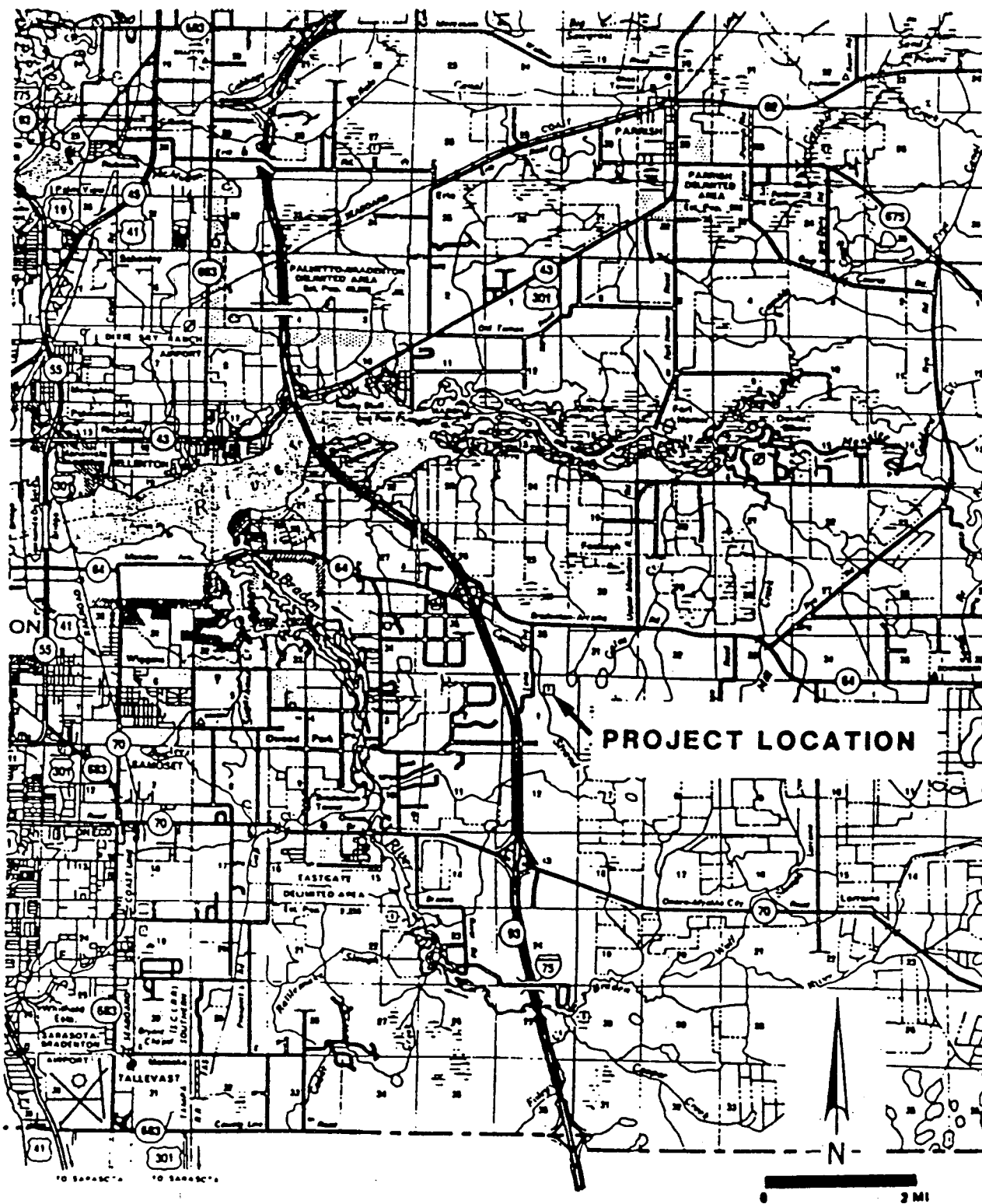


H. Wayne Roberts, P.E.
County Engineer

 SM/HWR/lgb

Enclosure: 3 Revised Plans

c: Sia Mollanazar, P.E.

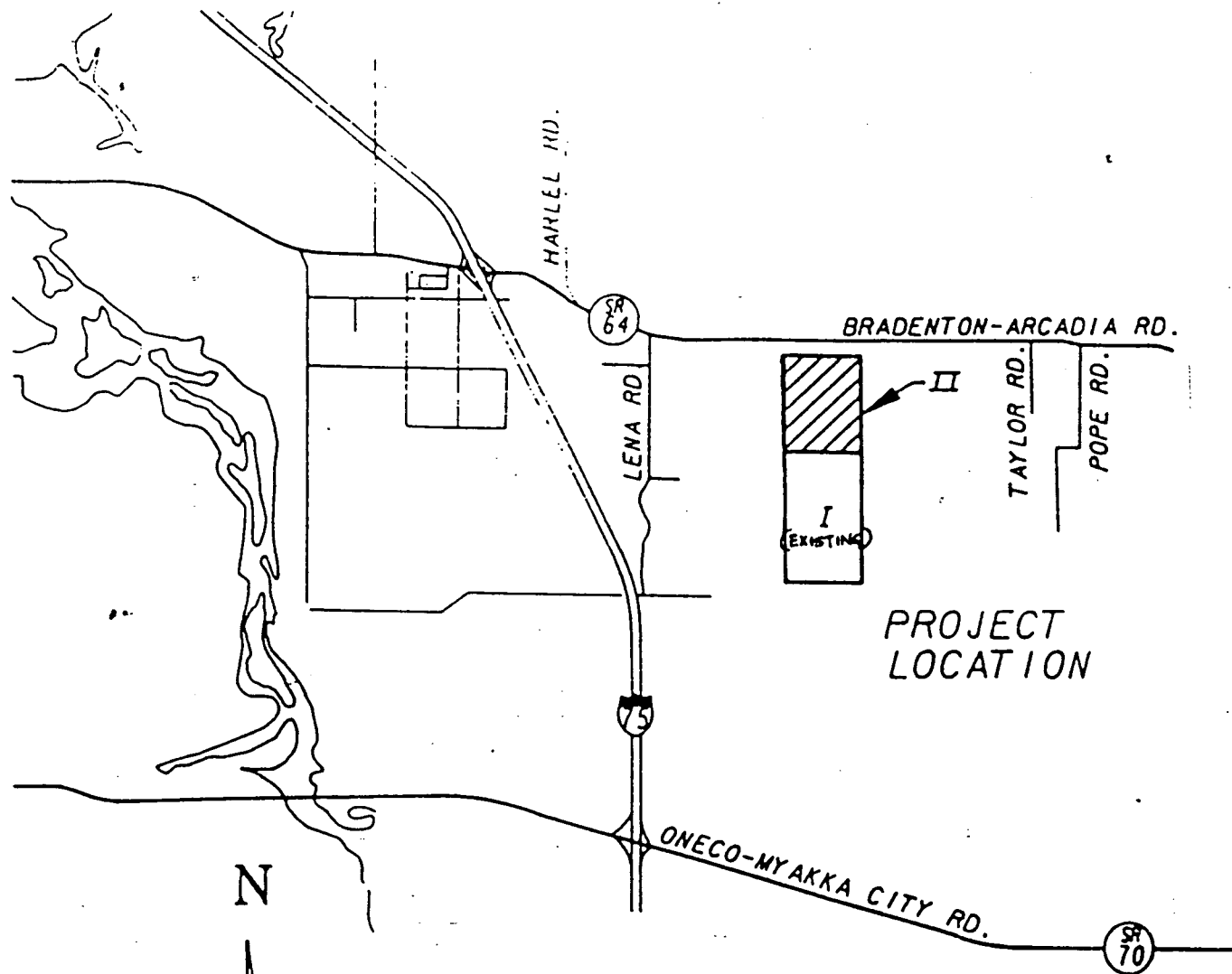


411352349 (DER)
 31 IPE-20551 (U.S. CORPS)

SHEET 1 OF 17 PROJECT LOCATION FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

REV. 7/90 SM

3



ALL DATUM SHOWN ON ALL OF
THE FOLLOWING DRAWINGS ARE NGVD

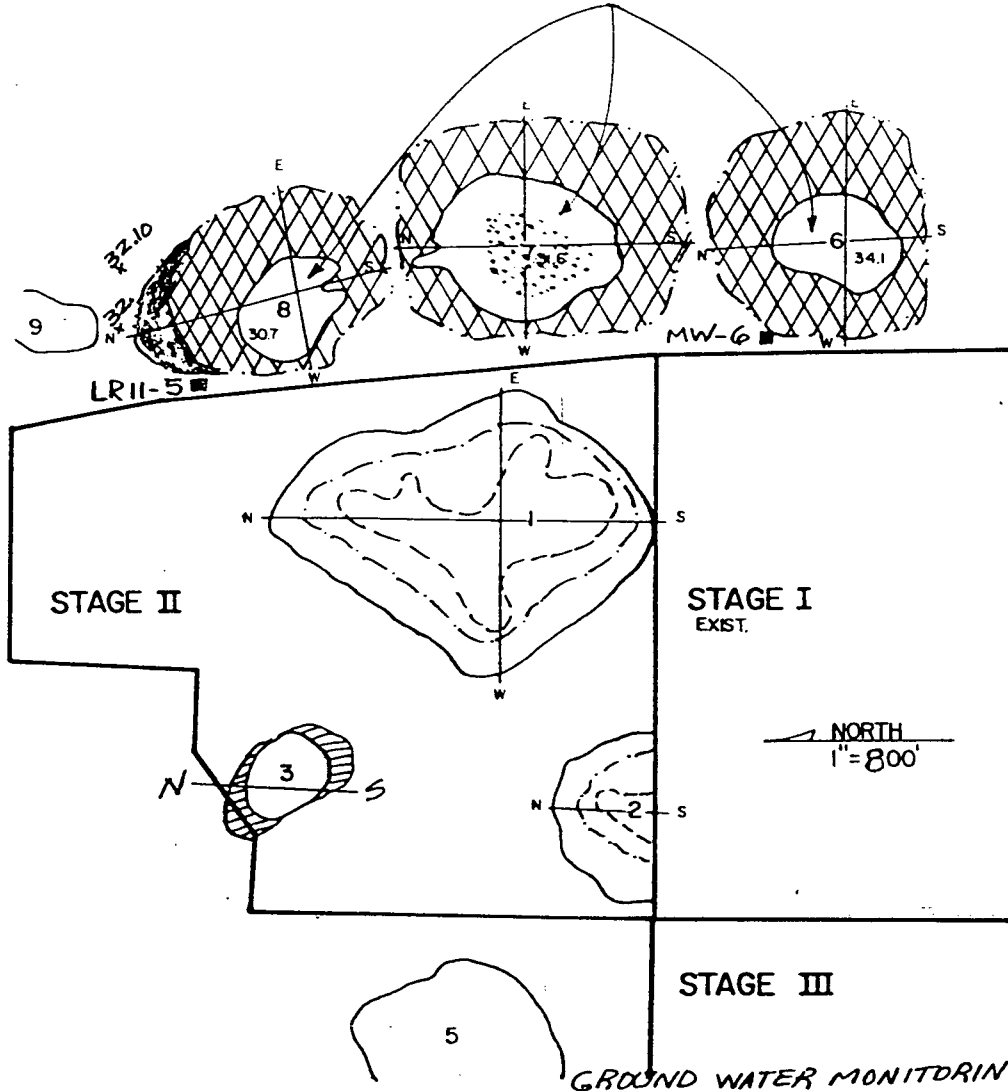


411352349 (DER)

87IPE-20551 (U.S. CORPS)

SHEET 2 OF 17 GENERAL LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

LIMITS OF WETLAND ENHANCEMENT



EXIST. FORESTED WETLAND



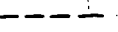
PROP. WETLAND CREATION



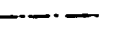
PROP. HARDWOOD WETLAND CREATION (1.71 ACRES)



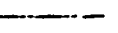
AREA OF NO CONSTRUCTION (1.75 ACRES)



WETLAND INNER ZONE BOUNDARY



WETLAND MIDDLE ZONE BOUNDARY



PROP. WETLAND CREATION OUTER ZONE BOUNDARY & PROP. DER JURISDICTION

X.30.7 EXISTING ELEVATION



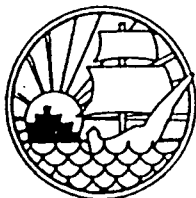
EXIST. SLURRY WALL

GROUND WATER MONITORING WELL

SEE SHT 15 OF 17 FOR MW-6

SEE SHT 16 OF 17 FOR LR11-5

REV. 7/90 SM



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: B.C.

DATE: 5/90

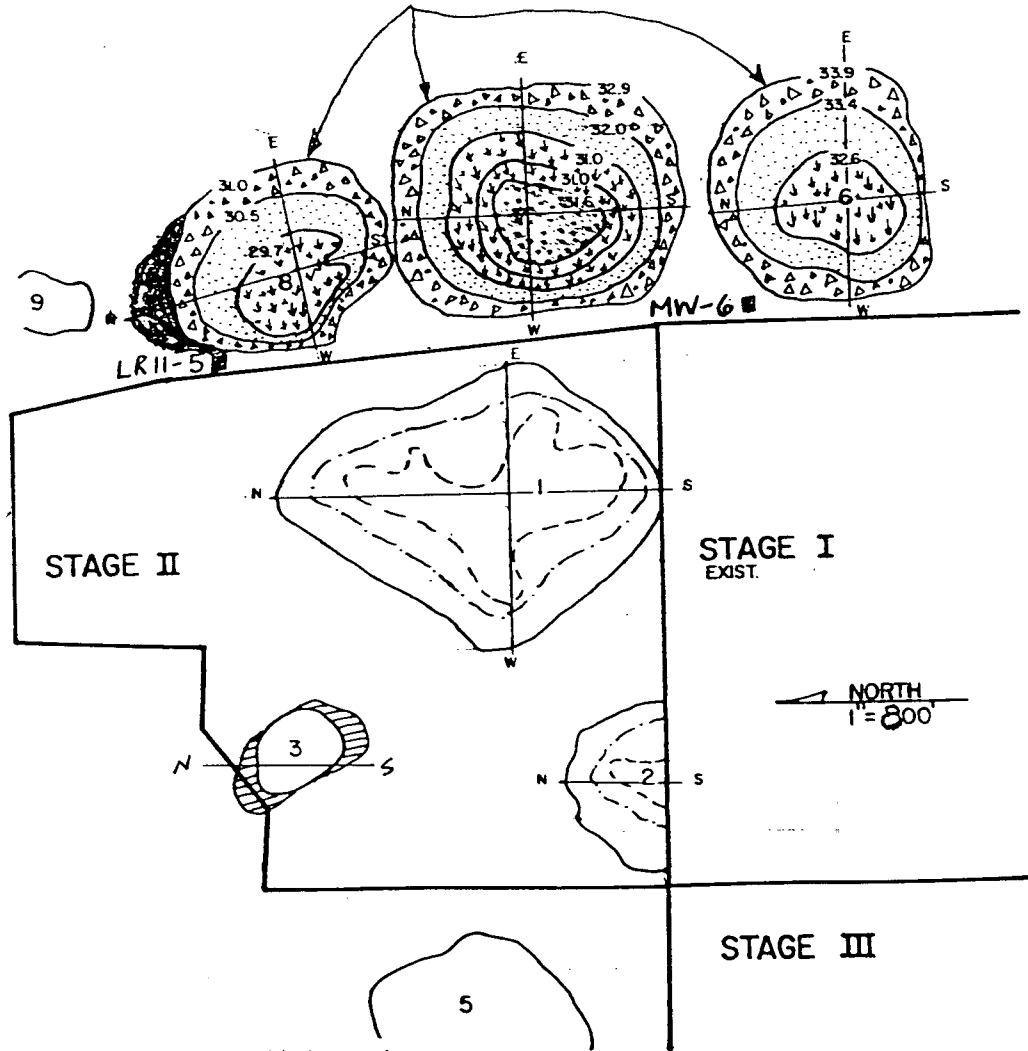
CHKD. BY: SM












SCALE: 1" = 800'

APPRVD. BY: HWR

SHEET 4 OF 17

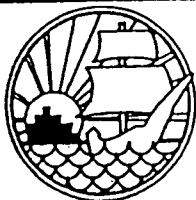
PROP. DER JURISDICTION



-  PROP. HARDWOOD WETLAND CREATION
-  AREA OF NO CONSTRUCTION
-  PROP. INNER ZONE
-  PROP. MIDDLE ZONE
-  PROP. OUTER ZONE
-  EXIST. FORESTED WETLAND
-  WETLAND INNER ZONE BOUNDARY
-  WETLAND MIDDLE ZONE BOUNDARY
-  PROP. WETLAND OUTER ZONE BOUNDARY
-  29.7 PROP. CONTOUR LINE AND ZONE BOUNDARY
-  EXIST. SLURRY WALL

GROUND WATER MONITORING WELL
SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5

REV. 7/90 SM



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 800'

APPRVD. BY: HWR

SHEET 5 OF 17

NOTE: SEE SHT 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL

LENA ROAD LANDFILL
WETLAND CREATION

MATCH EXISTING NATURAL GROUND

MATCH EXISTING NATURAL GROUND

WETLAND #5 N-S

PROP DER JURISDICTION

WETLAND #6 N-E



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349
+

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 200'

APPRVD. BY: HWR

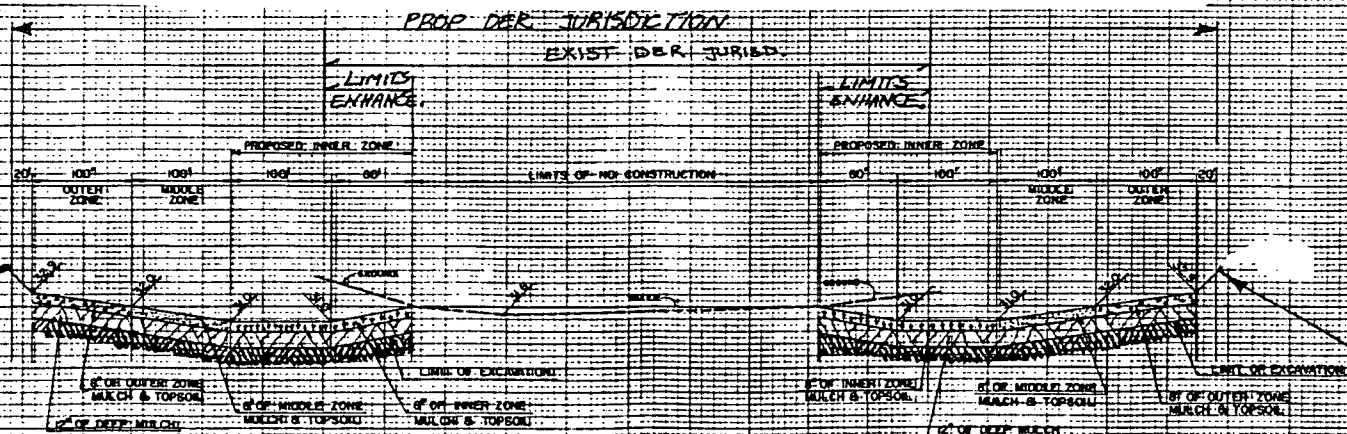
SHEET 6 OF 17

REV. 7/90: SM

NOTE: SEE SHT 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL

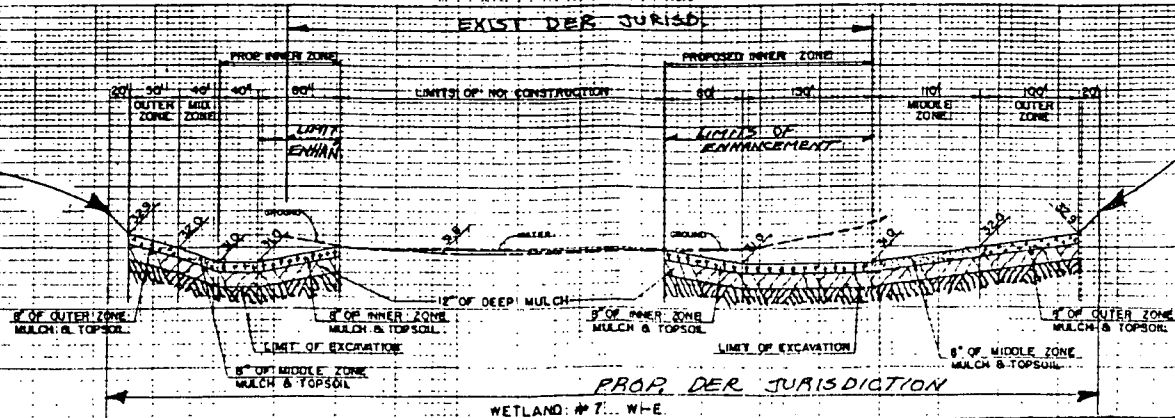
LENA ROAD LANDFILL
WETLAND CREATION

WATER LEVELS SHOWN WERE APPARENT & SURVEYED ON 4/18/90



MATCH EXISTING NATURAL GROUND

MATCH EXISTING NATURAL GROUND



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: 1" = 200'

APPRVD. BY: HWR

SHEET 2 OF 17



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

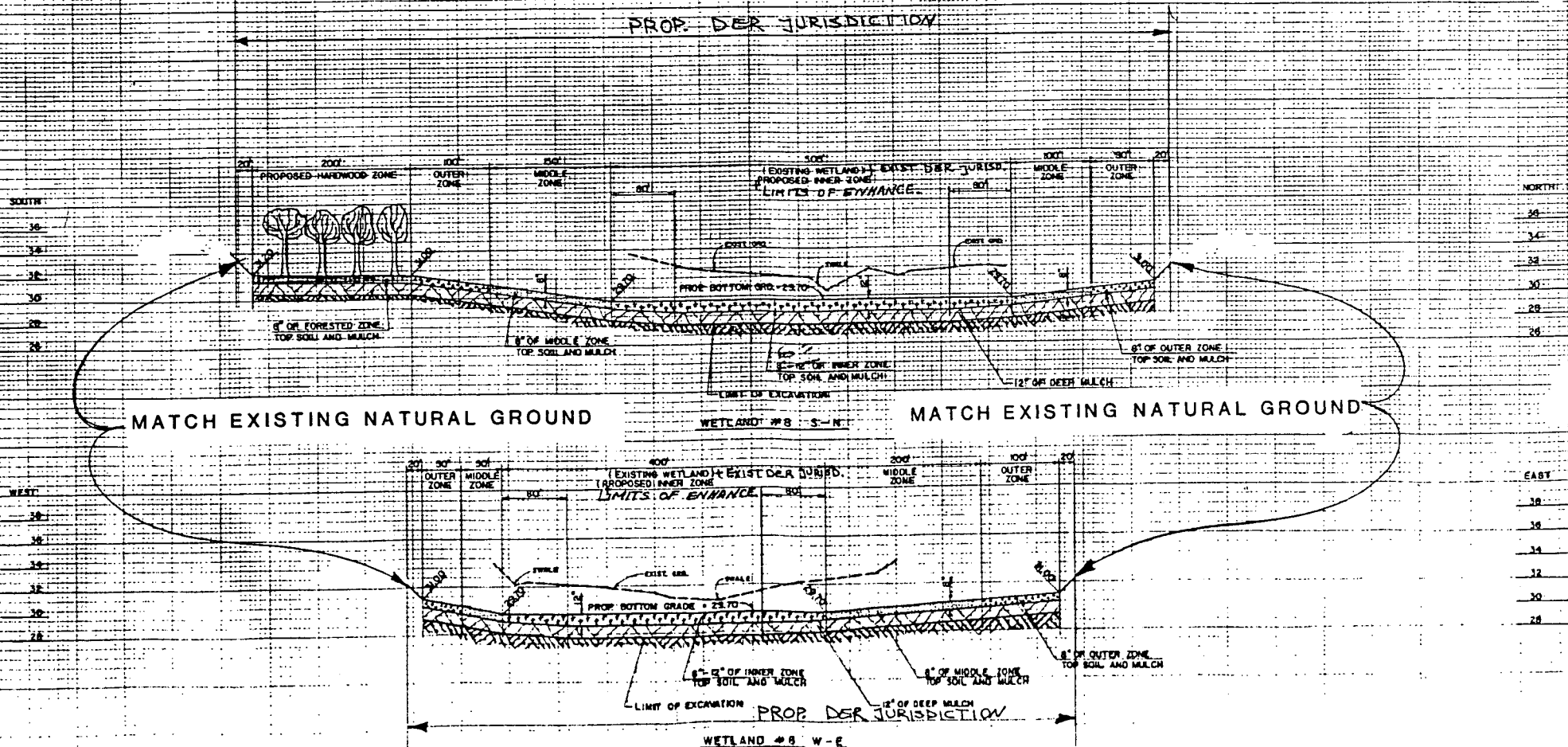
SCALE: 1" = 200'

APPRVD. BY: HWR

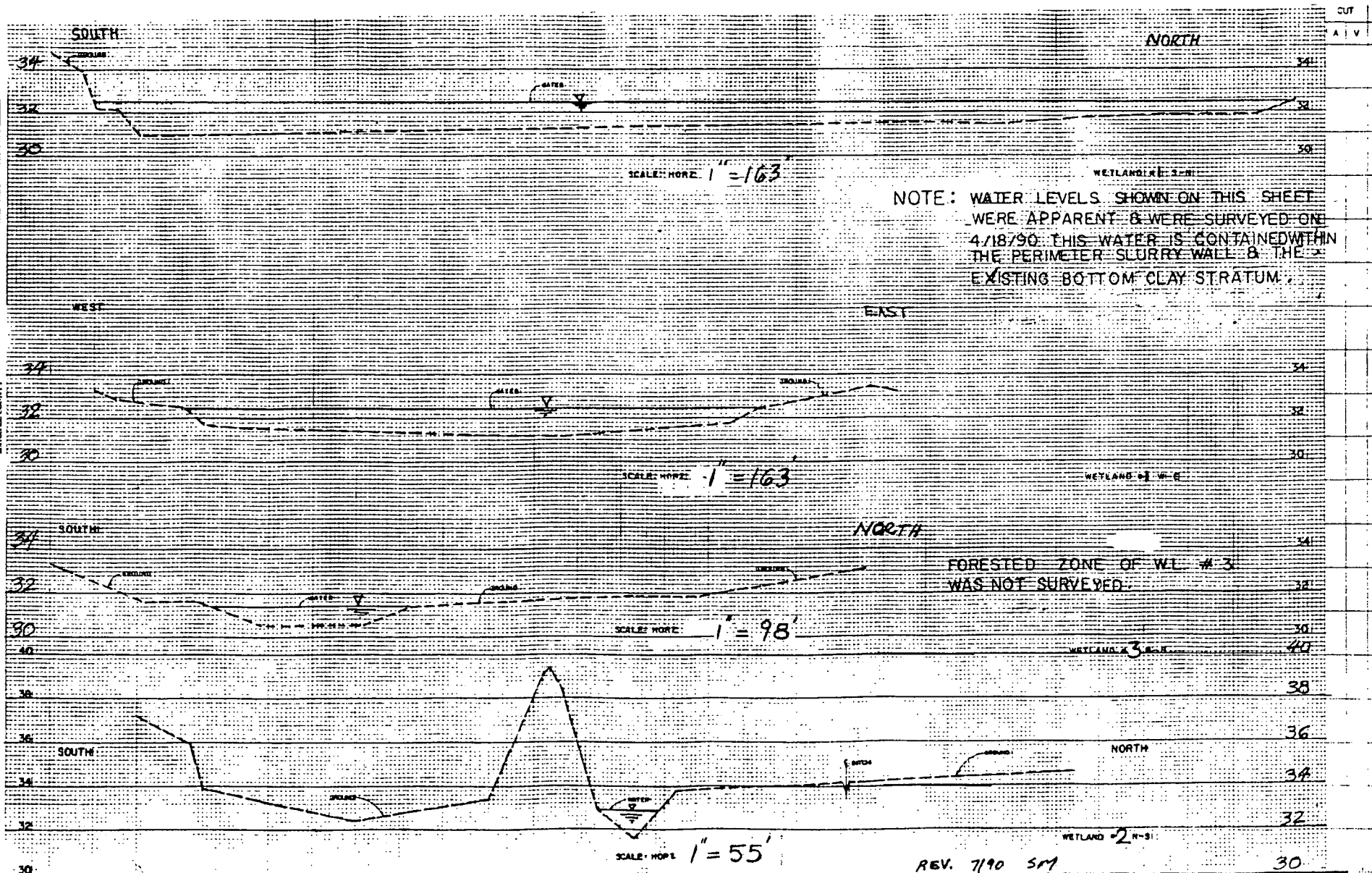
SHEET 8 OF 17

REV. 7/90 SM

PROP. DER JURISDICTION



NOTE: SEE SHT 12 OF 17 FOR THE SOURCE OF THE DEEP MULCH & TOP SOIL



MANATEE COUNTY
PUBLIC WORKS

REV. 7/90 SM

MODIFICATION
OF DER PERM. #411352349
+

U.S. CORPS PERM. #87IPE20561

DRAWN BY: BC	DATE: 5/90
CHKD. BY: SM	SCALE: SEE ABOVE

SHT 10 of 17

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

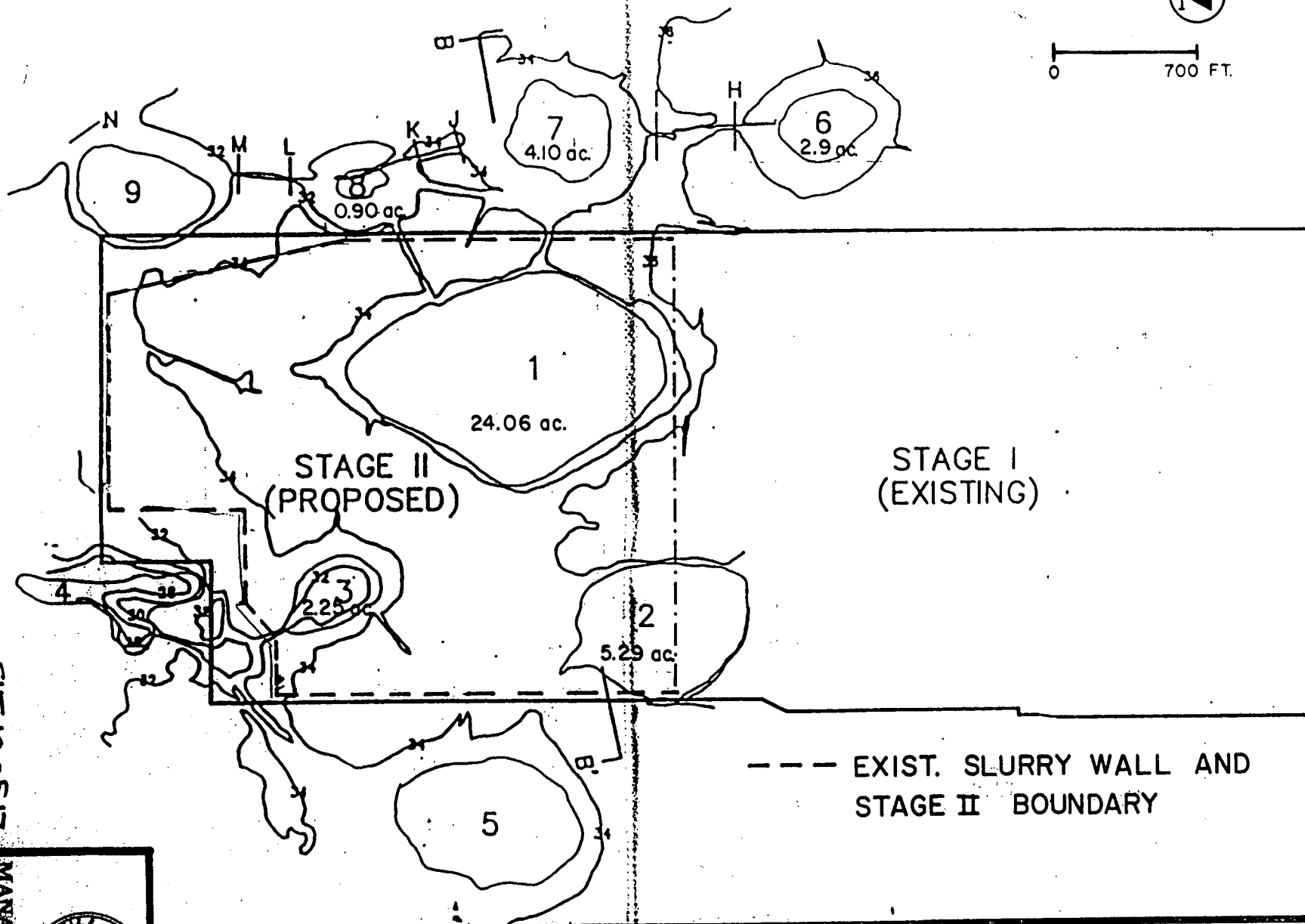


FIGURE 6A. STAGE II EXISTING TOPOGRAPHY FOR LENA ROAD LANDFILL, MANATEE COUNTY, FL

PROPOSED WETLAND MITIGATION

WETLAND	EXISTING ACRES **	PROPOSED WETLAND CREATION & ENHANCEMENT	NET WETLAND CREATION	ADDITIONAL WETLAND ENHANCEMENT **
#6	2.90	16.75	13.85	2.90 ACRES
#7	4.10	22.20	18.10	2.35 ACRES
#8	0.90	14.75	* 13.85	0.90 ACRES
TOTAL	7.90	53.70	45.80	6.15 ACRES

**

ASSUMING NO CREDIT FOR ENHANCEMENT OF EXISTING
WETLAND #6, #8 AND ONLY 2.35 ACRES OF #7.
1.75 ACRES OF EXISTING WETLAND #7 IS THE LIMITS OF
NO CONSTRUCTION AREA.

* 1.71 ACRES OF ABOVE TOTAL IS THE AREA OF FORESTED
WETLAND CREATION.

22.20 -
- 1.75 = 20.45
53.70
- 1.75 = 51.95

DATE _____ FL. REG. NO. _____

_____, COUNTY ENGINEER

LENA ROAD WETLAND MITIGATION

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT
315 - 75th. STREET WEST
BRADENTON, FLORIDA 34209
MAY 1990 SHEET // OF 17

WETLAND CREATION CONSTRUCTION NOTES:

THE FOLLOWING NOTES REPRESENT A CHRONOLOGICAL PROCEDURE BY WHICH WETLANDS WILL BE REMOVED AND RECREATED IN THE PROPOSED WETLAND AREA. SHOULD ANY QUESTIONS OR PROBLEMS ARISE CONCERNING THIS PROCEDURE, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.

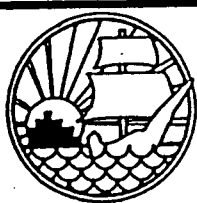
1. STAKE OUT THE LIMITS OF NO CONSTRUCTION ACTIVITY ON WETLAND #7. THIS SHOULD PHYSICALLY TAKE PLACE ON SITE BY THE ENVIRONMENTAL SCIENTIST. HE OR SHE WILL ALSO BE STAKING THE THREE ZONES (INNER, MIDDLE, OUTER ZONES) ON THE DONOR WETLAND #1, 2, AND 3.
2. EXCAVATE THE PROPOSED WETLAND #6, 7, AND 8 PRIOR TO ALL OTHER EARTH WORK ACTIVITIES. REFER TO DETAIL CROSS SECTION FOR LIMITS OF EXCAVATION ON EACH WETLAND AND MOVE IT AWAY TO THE EXISTING LANDFILL.
3. DESIGNATE THREE STOCK PILING SITE FOR THREE TOP SOIL AND MULCH ZONES OF WETLANDS CLOSE TO THE WETLAND CREATION AREA.
4. UPON THE ENVIRONMENTAL SCIENTIST APPROVING THE FINAL GRADED WETLAND AREA IN STEP 2, PROCEED WITH STRIPPING APPROXIMATELY TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM STAKED INNER ZONES OF WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREAS IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, OUTER). THIS STOCK PILING SHALL NOT EXCEED 72 HOURS.
5. STRIP OUT THE TOP 34" - 36" (WHICH EVER IS APPROVED ON SITE BY ENVIRONMENTAL SCIENTIST) OF THE DEEP MULCH AND SOIL OF THE ENTIRE WETLAND #1, 2 AND MOVE IT TO THE PROPOSED WETLAND CREATION AREA OF #6, 7 AND 8. DEPOSIT THE ABOVE STRIPPED DEEP MULCH AND SOIL 12" THICK AND GRADE IT TO THE PROPOSED DETAIL CROSS SECTION SHOWN FOR #6, 7 AND 8.
6. UPON COMPLETING THE STEP 5 ABOVE AND PHYSICAL SITE INSPECTION BY ENVIRONMENTAL SCIENTIST, THE STOCK PILED TOPSOIL AND MULCH (STEP 4) FOR EACH OF THE INNER, MIDDLE, AND OUTER ZONES TO BE MOVED AND PLACED ON ITS PROPOSED DESIGNATED ZONES SHOWN ON EACH CROSS SECTION FOR #6, 7 AND 8. GRADE IT TO THE PROPOSED ELEVATIONS. START FROM THE INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER ZONE.
7. STRIP OUT THE TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM WETLAND #3 AND MOVE IT DIRECTLY TO WETLAND #8 AND PLACE IT ON ITS DESIGNATED ZONING SHOWN ON THE CROSS SECTION AND GRADE IT TO ITS PROPOSED ELEVATION. START FROM INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER EDGES. FILL IN THE GAP AREAS OF EACH ZONE WITH THE TOP SOIL AND MULCH ALREADY STOCKPILED IN STEP 4.
8. GRADE THE PROPOSED HARDWOOD AREA OF WETLAND #8 TO ITS FINAL GRADE USING THE OUTER ZONE TOP SOIL AND MULCH.
9. ENVIRONMENTAL SCIENTIST WILL IDENTIFY THE TREES IN WETLAND #3, AND WILL BE TRANSPLANTED TO THE NEW LOCATION, WETLAND #8. TREES TO BE MOVED WILL BE MOVED USING A TREE STAKE, OR WITH A BACKHOE OF SUITABLE SIZE AND INSTALLED IN WETLAND #8 ON 30' CENTER. IN ADDITION, NURSERY CROWN WETLAND TREES SHALL BE PLANTED AT A DENSITY OF 1000 TREES PER ACRE. PLANTED TREES SHALL CONSIST OF APPROXIMATELY EQUAL NUMBERS OF: POP, ASH, RED MAPLE, BLACK OAK, AND WILLOWS. 170% OF NURSERY TREE SHALL BE ONE GALLON, 30% SHALL BE 5 GALLON AND 10% SHALL BE 30 GALLON SIZES. ALL NURSERY TREES SHALL BE ACCLIMATED TO SATURATED CONDITION FOR A PERIOD OF SIX WEEKS PRIOR TO PLANTING. NURSERY CROWN TREE SHALL BE PLANTED IN PODS OF 5 TO 6 TREES ON APPROXIMATELY 15' CENTER.

outer, MIDDLE
inner

D

TRAINED WETLAND ECOLOGIST

REV. 7/2/90



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

S. CORPS PERM. #87IPE20551

DRAWN BY: BC	DATE: 5/90
CHKD. BY: SM	SCALE: N/A
APPRVD. BY: HWR	SHEET 12 OF 17

MONITORING PROCEDURE:

SEMI-ANNUAL NARRATIVE REPORTS WILL BE SUBMITTED TO THE SOUTH WEST FLORIDA WATER MANAGEMENT DISTRICT DETAILING THE PROGRESS OF THIS CREATION. THIS REPORT WILL INCLUDE PHOTOGRAPHS TAKEN FROM THE SAME PERMANENT STATIONS A DESCRIPTION OF PROBLEMS ENCOUNTERED AND SOLUTIONS UNDERTAKEN, AND ANTICIPATED WORK FOR THE FOLLOWING SIX MONTHS. THE PERMITTEE WILL ALSO FURNISH ANNUAL STATISTICAL REPORTS OF VEGETATIONAL TRANSECTS OF THE CREATED WETLAND DONE BY THE METHODOLOGY OF DAUBENMIRE (1968), DESTING (1956) OR ANY MUTUALLY AGREED UPON METHOD.

REPORTS SHALL DESCRIBE THE PERCENT COVER OF HERBACEOUS SPECIES LISTED IN F.A.C. RULE 17-4.022 AND PERCENT COVERAGE OF CATTAIL, PRIMROSE WILLOW AND EXOTICS. DATA SHALL BE TAKEN DURING THE SUMMER GROWING SEASON. REPORTS SHALL BE SUBMITTED UNTIL A DETERMINATION OF A SUCCESSFUL CREATION HAS BEEN MADE.

WETLAND CREATION SHALL BE CONSIDERED SUCCESSFUL: 1- WHEN THE PLANT COVER IN THE CREATED MARSH IS AT LEAST 80% AND CONSIST OF WETLAND VEGETATION LISTED IN F.A.C. RULE 17.4.022 AND THE CATTAIL, PRIMROSE WILLOW AND EXOTICS SHALL BE LIMITED TO 10% OR LESS OF TOTAL COVER. IF THESE SPECIES EXCEED 10% OF THE TOTAL COVER THEIR DENSITY MUST BE DECLINING OVER SEVERAL YEARS..

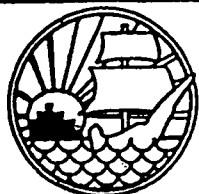
2. FOR THE FORESTED WETLAND, A 50% SURVIVAL FOR TRANSPLANTED TREES, AND 80% SURVIVAL FOR NURSERY GROWN TREE IS OBTAINED AFTER FIVE YEARS.

IF THE DATA INDICATED THAT THE CREATION EFFORT IS NOT SUCCESSFUL, AS DEFINED ABOVE, THE PERMITTEE WILL PRESENT METHOD AND PROPOSAL SUCH AS CONSTRUCTION OF WEIR AT EACH WETLANDS OUTFALL TO BE REVIEWED AND APPROVED BY THE DEPARTMENT TO ENSURE SUCCESS OF THE CREATION EFFORT.

MAINTENANCE PROCEDURE:

1. PERFORM QUARTERLY FOR THE FIRST YEAR AND SEMI-ANNUALLY THEREAFTER UNTIL SUCCESS IS ACHIEVED.

2. DURING EACH MAINTENANCE EVENT NUISANCE, AND EXOTIC VEGETATION INCLUDING: CATTAILS, PRIMROSE WILLOW, BRAZILIAN PEPPER, AND PUNK TREES WILL BE REMOVED.



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION OF DER
PERMIT #411352349

DRAWN BY: *BS*

DATE: *7/90*

CHKD. BY: *SM*

SCALE: *N/A*

APPRVD. BY: *HWR*

SHEET *2A* OF *17*

**Lena Road Landfill Responses
to FDER Letter on Revised
Groundwater Monitoring Plan**



Ardaman & Associates, Inc.

OFFICES

Orlando, 8008 S. Orange Avenue, Orlando, Florida 32859-3003, Phone (407) 855-3860
Bartow, 1987 S. Holland Parkway, Bartow, Florida 33830, Phone (813) 533-0858
Bradenton, 209 A 6th Avenue East, Bradenton, Florida 33508, Phone (813) 748-3971
Cocoa, 1300 N. Cocoa Blvd., Cocoa, Florida 32924, Phone (407) 632-2503
Fort Myers, 2508 Rockfill Road, Fort Myers, Florida 33916, Phone (813) 337-1288
Miami, 2608 W. 84th Street, Hialeah, Florida 33016, Phone (305) 825-2683
Port St. Lucie, 1017 S.E. Holbrook Ct., Port St. Lucie, Florida 34985, Phone (407) 337-1200
Sarasota, 2500 Bee Ridge Road, Sarasota, Florida 34277, Phone (813) 922-3526
Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (904) 576-6131
Tampa, 105 N. Faulkenburg Road, Suite D, Brandon, Florida 34209-1506, Phone (813) 654-2336
West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (407) 687-8200

MEMBERS:

American Concrete Institute
American Society for Testing and Materials
American Consulting Engineers Council
Association of Soil and Foundation Engineers
Florida Institute of Consulting Engineers
American Council of Independent Laboratories

SHT 13 OF 17

Table 1

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
Artesian Aquifer Wells				
SA-1		03-20-89	21.02	
		04-24-89	26.00	
		08-07-89	18.25	
		12-12-89	17.60	
SA-3		03-16-89	24.25	
		04-24-89	27.00	
		08-07-89	22.58	
		12-12-89	47.75	
SA-4	31.28	03-09-89	22.00	9.28
		04-25-89	25.00	6.28
		08-08-89	19.08	12.20
		12-13-89	18.58	12.70
SA-5	37.92	03-06-89	26.16	11.76
		04-26-89	29.50	8.42
		08-08-89	23.58	14.34
		12-12-89	21.80	16.12
SA-6	36.04	03-06-89	23.50	12.54
		04-26-89	25.08	10.96
		08-09-89	25.00	11.04
		12-14-89	21.50	14.54
SA-7	33.27	03-06-89	23.12	10.15
		05-01-89	28.50	4.77
		08-09-89	28.17	5.10
		12-14-89	21.33	11.94
SA-8	34.48	03-08-89	24.30	10.18
		05-01-89	28.25	6.23
		08-09-89	24.75	9.73
		12-14-89	21.79	12.69
SMR-2	36.10	03-16-89	20.63	15.47
		04-27-89	24.88	11.22
		08-10-89	24.30	11.80
		12-18-89	35.00	1.10

Table 1
(continued)

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
Surficial Aquifer Wells				
SMR-1	36.48	03-16-89	6.58	29.90
		04-27-89	7.92	28.56
		08-10-89	5.40	31.08
		12-18-89	5.58	30.90
MW-1	38.93	03-09-89	6.08	32.85
		04-27-89	6.71	32.22
		08-10-89	2.58	36.35
		12-11-89	8.75	30.18
MW-2	39.77	03-07-89	9.08	30.69
		04-25-89	9.29	30.48
		08-11-89	9.75	30.02
		12-11-89	8.82	30.95
MW-3		03-07-89	7.92	
		04-25-89	9.29	
		08-11-89	7.67	
		12-11-89	7.50	
MW-6 (New)	39.32	03-09-89	6.08	33.24
		04-26-89	7.67	31.65
		08-07-89	6.33	32.99
		12-11-89	5.82	33.50
LRII-1	38.02	03-06-89	4.12	33.90
		04-26-89	5.96	32.06
		08-08-89	5.25	32.77
		12-12-89	5.00	33.02
LRII-2	36.53	03-06-89	6.50	30.03
		04-26-89	8.17	28.36
		08-09-89	6.25	30.28
		12-14-89	5.75	30.78

Table 1
(continued)

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
LRII-3	33.51	03-06-89	6.13	27.38
		05-01-89	7.83	25.68
		08-09-89	5.67	27.84
		12-14-89	6.67	26.84
LRII-4	33.90	03-08-89	5.83	28.07
		05-01-89	7.38	26.52
		08-09-89	5.50	28.40
		12-14-89	6.63	27.27
LRII-5	36.78	03-08-89	6.33	30.45
		04-26-89	7.67	29.11
		08-11-89	5.00	31.78
		12-18-89	8.83	27.95
GC-1	31.36	03-09-89	4.33	27.03
		04-25-89	5.00	26.36
		08-08-89	5.16	26.20
		12-13-89	5.00	26.36
GC-2	38.23	03-20-89	4.83	33.40
		04-24-89	5.63	32.60
		08-07-89	8.08	30.15
		12-12-89	17.33	20.90
GC-3	35.08	03-08-89	4.00	31.08
		04-24-89	5.67	29.41
		08-07-89	7.17	27.91
		12-12-89	4.75	30.33
GC-4	33.98	03-07-89	5.08	28.90
		04-24-89	6.50	27.48
		08-07-89	5.00	28.98
		12-13-89	6.25	27.73
GC-5	36.52	03-07-89	7.50	29.02
		04-25-89	8.00	28.52
		08-08-89	7.50	29.02
		12-13-89	7.83	28.69

Table 1
(continued)

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
GC-6	39.10	03-07-89	8.33	30.77
		04-25-89	8.00	31.10
		08-08-89	7.75	31.35
		12-13-89	8.17	30.93
CW-3		03-20-89	5.88	
		05-01-89	6.42	
		08-08-89	6.50	
		12-18-89	7.83	
CW-4		03-20-89	6.71	
		04-27-89	6.58	
		08-10-89	4.63	
		12-11-89	5.00	
CW-5		03-09-89	6.00	
		04-27-89	7.83	
		08-10-89	3.54	
		12-11-89	4.00	

NOTE: TOC - Top of Casing



Southwest Florida Water Management District

2379 Broad Street (U.S. 41 South) Brooksville, Florida 34609-6899
Phone (904) 796-7211 or 1-800-423-1476 SUNCOM 628-4150

June 22, 1990

Michael Zagorac, Jr.
Chairman, Belleair
Walter H. Harkala
Vice Chairman, Plant City
Anne Bishopric Sager
Secretary, Venice
Roy G. Harrell, Jr.
Treasurer, St. Petersburg
William H. Wilcox, Ph.D.
Port Charlotte
Mary Ann Hogan
Brooksville
Charles A. Black
Crystal River
Joseph S. Casper
Tampa
Samuel D. Uddike
Lake Wales

Peter G. Hubbell
Executive Director
Mark D. Farrell
Assistant Executive Director
Kent A. Zaiser
General Counsel
Stuart C. Anderson
Deputy Executive Director
Resource Management
William K. Hennessey
Deputy Executive Director
Community Affairs
Richard V. McLean
Deputy Executive Director
Resource Regulation
Albert L. Wyand
Deputy Executive Director
Administration and Support

H. Wayne Roberts, P.E.
Manatee County Public Works
315 75th Street West
Bradenton, Florida 34209

SUBJECT: LIMITED CONSTRUCTION COMMENCEMENT AGREEMENT

RE: Project Name: Lena Road Landfill
File No.(s): 403143.01
County: Manatee
Section(s) 1 & 2, Township 35, Range 18

Dear Sir:

Attached is your approved Limited Construction Commencement Agreement (LCCA). The authorized construction is indicated in clause No. 3 of the LCCA.

If you have any questions, please contact Scott Kamien at (813) 488-4666.

Sincerely,

A. Paul Desmarais
Director, Venice Permitting Department
Resource Regulation

APD:SMK:mdf

Enclosures: LCCA
Construction Drawings

cc: File of Record
Scott Kamien
Joseph Madrak

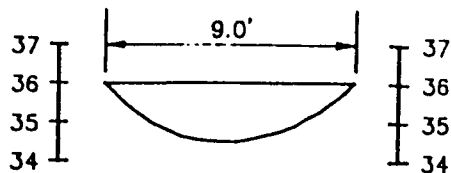
RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISION DETERMINING SUBSTANTIAL INTERESTS

PART II
FORMAL PROCEEDINGS

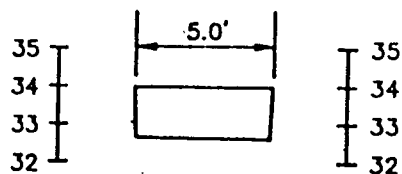
28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a 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, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (f) Other information which the petitioner contends is material.

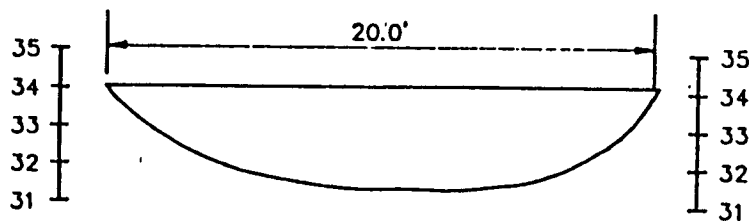
A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201(3)(a), FAC)



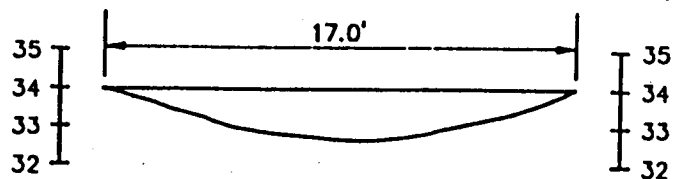
SECTION H
OUTFALL OF WETLAND #6



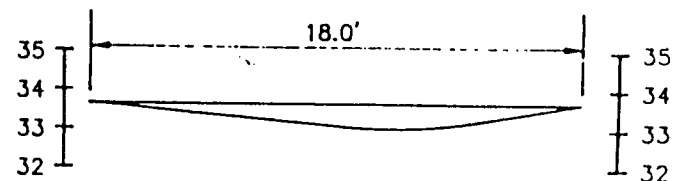
SECTION I
INLET OF WETLAND #7



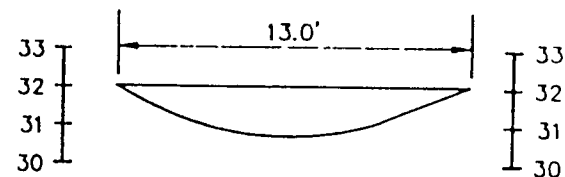
SECTION J
OUTFALL OF WETLAND #7



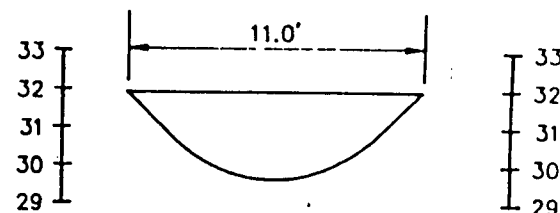
SECTION K
INLET OF WETLAND #8



SECTION L
OUTLET OF WETLAND #8



SECTION M
INLET OF WETLAND #9



SECTION N
OUTFALL OF WETLAND #9

NOTE:
ELEVATIONS IN N.G.V.D.

FIGURE 13. TYPICAL CROSS SECTIONS OF EXISTING
WETLAND DITCHES FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

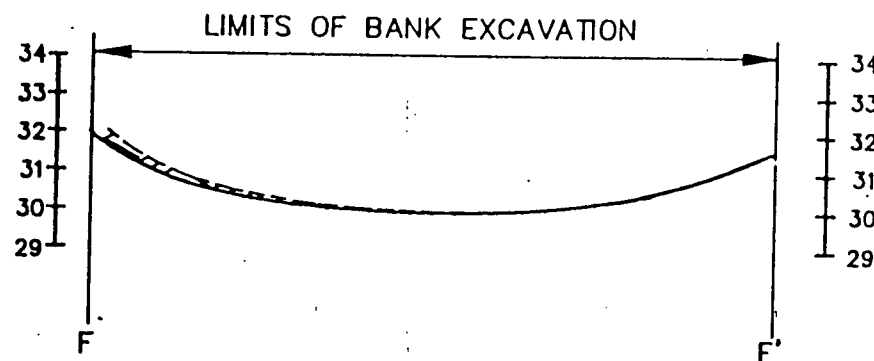
PERMIT NO. 411352349

RECEIVED OCT 14 1987

John C. [Signature]

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION F-F'

FIGURE 12. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #9 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352341

N. Lee

REC'D OCT 14 1987



MANATEE COUNTY GOVERNMENT

Public Works Department

May 22, 1990

Department of Army Corps of Engineers
Jacksonville District
Dianne Rosensweig
P.O. Box 19247
Tampa, Florida 33686

Re: Modification of Permit No. 87IPE-2055
Project: Lena Road Landfill Phase II
Wetland Creation & Enhancement
Manatee County Public Works

Dear Ms. Rosensweig,

This is the letter of modification for wetland mitigation proposal of above referenced project. As you recall from your site visit of May 9, 1990 and the conference that took place afterwards between you and my staff, the existing wetlands #6, 7, and 8 of above permitted project have been changed, and it was the Southwest Florida Water Management District's concern about the rate of success of the existing permitted wetland creation proposals.

It was my staff's understanding from the site conference, that your department has the same concern and would like to see and review an alternative proposal. Please see attached drawings and notes in that regard.

The impacted wetlands are the same as it was shown in the above subject permit, which calls out a dredging of 408,000 cubic yards of material from 31.6 acres of wetlands and depositing 1,600,000 cubic yards of material in the wetlands over the life of the proposed landfill.

The attached drawing basically proposes (as it was discussed at site conference) a lowering of existing wetland #8 bottom from 31.2± to elevation 29.7, and lowering wetland #6 bottom from 34.1± to elevation 32.6. Center of wetland #7 is a no construction zone which will be staked out by environmental scientist, and the outer zones will be lowered 0.6 foot.

Page 2
5/22/90

Manatee County is also proposing to create 45.80 acres, rather than the permitted 36.2 acres of herbaceous wetlands, and we are not looking for any entitled credits, as you had mentioned in your visit, for recreation or enhancement of existing wetland #6, 8, and parts of #7. Attached drawings and proposals to be used in connection with U.S. Corps of Engineers permit number 87IPE-20551 and all provisions and requirements of said permit should apply.

Please contact my office if you have any questions or concerns.

Sincerely,

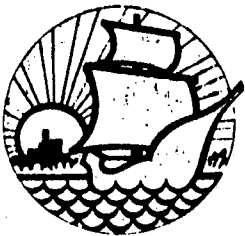


H. Wayne Roberts, P.E.
County Engineer

Enclosure: Proposed Plans and supporting documents

SM/HWR/lgb

c: Sia Mollanazar, P.E., Engineer Supervisor III
Mark A. Ventriglia, Engineer Supervisor III
Dan Gray, Solid Waste Division Manager
Greg Detaitis, Solid Waste Technician Coordinator



MANATEE COUNTY GOVERNMENT

Public Works Department

May 22, 1990

Department of Environmental Regulation
Marleene K. Stern
Wetland Resource Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Re: **Modification of Permit No. 411352349**
Date of Issue: 12/10/87 Expiration Date: 12/10/92
County: Manatee
Project: Lena Road Landfill Phase II
Wetland Creation & Enhancement

Dear Ms. Stern,

This is the letter of modification for wetland mitigation proposal of above referenced project. As you recall from your site visit of May 9, 1990 and the conference that took place afterwards between you and my staff, the existing wetlands #6, 7, and 8 of above permitted project have been changed, and it was the Southwest Florida Water Management District's concern about the rate of success of the existing permitted wetland creation proposals.

It was my staff's understanding from the site conference, that your department has the same concern and would like to see and review an alternative proposal. Please see attached drawings and notes in that regard.

The impacted wetlands are the same as it was shown in the above subject permit, which calls out a dredging of 408,000 cubic yards of material from 31.6 acres of wetlands and depositing 1,600,000 cubic yards of material in the wetlands over the life of the proposed landfill.

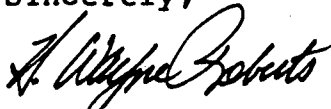
The attached drawing basically proposes (as it was discussed at site conference) a lowering of existing wetland #8 bottom from 31.2 \pm to elevation 29.7, and lowering wetland #6 bottom from 34.1 \pm to elevation 32.6. Center of wetland #7 is a no construction zone which will be staked out by environmental scientist, and the outer zones will be lowered 0.6 foot.

Page 2
5/22/90
Permit 411352349

Manatee County is also proposing to create 45.80 acres, rather than the permitted 36.2 acres of herbaceous wetlands, and we are not looking for any entitled credits, as you had mentioned in your visit, for recreation or enhancement of existing wetland #6, 8, and parts of #7. Attached drawings and proposals to be used in connection with DER permit number 41352349 and all provisions and requirements of said permit should apply.

Please contact my office if you have any questions or concerns.

Sincerely,

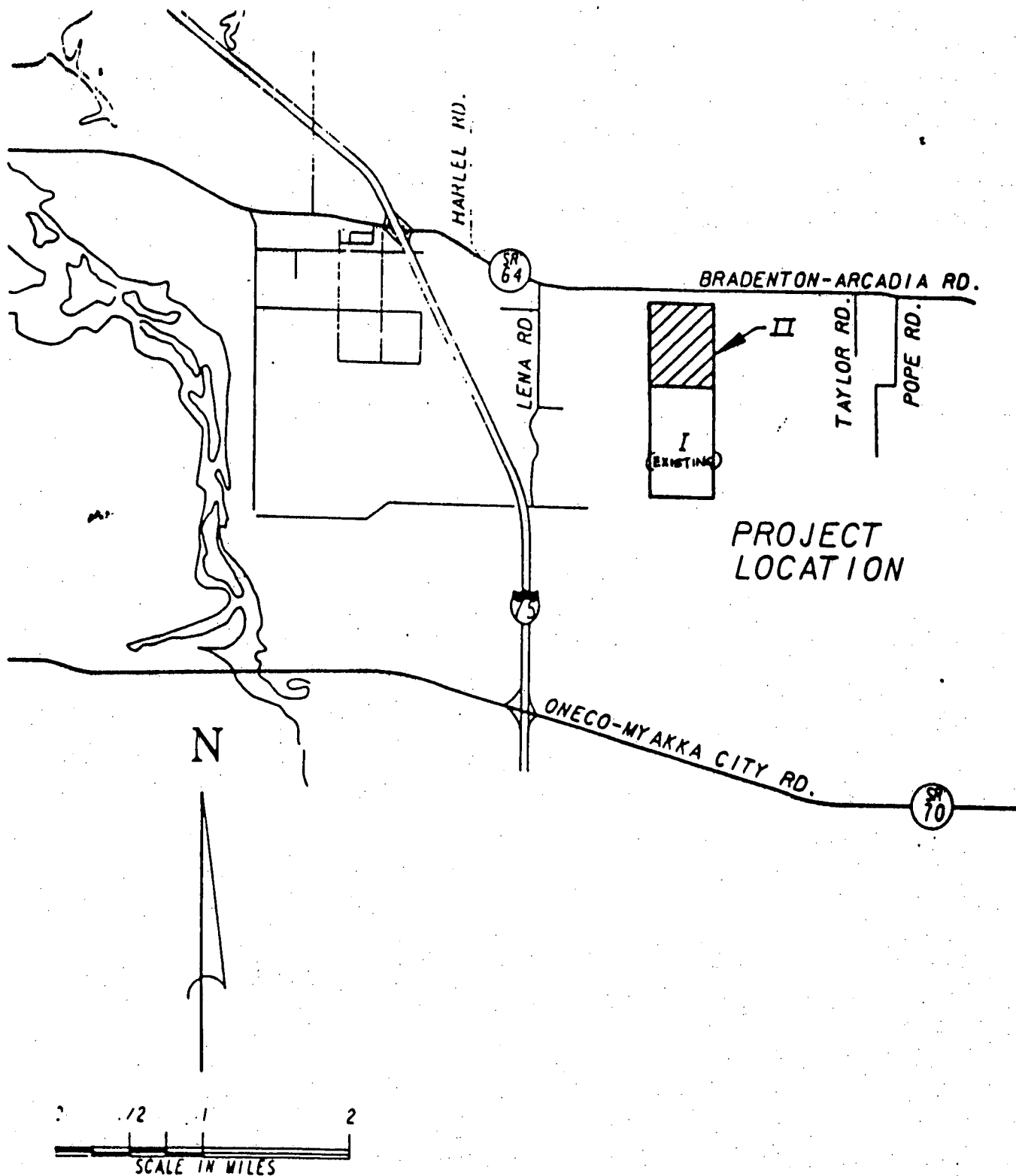


H. Wayne Roberts, P.E.
County Engineer

Enclosure: Proposed Plans and supporting documents

SM/HWR/lgb

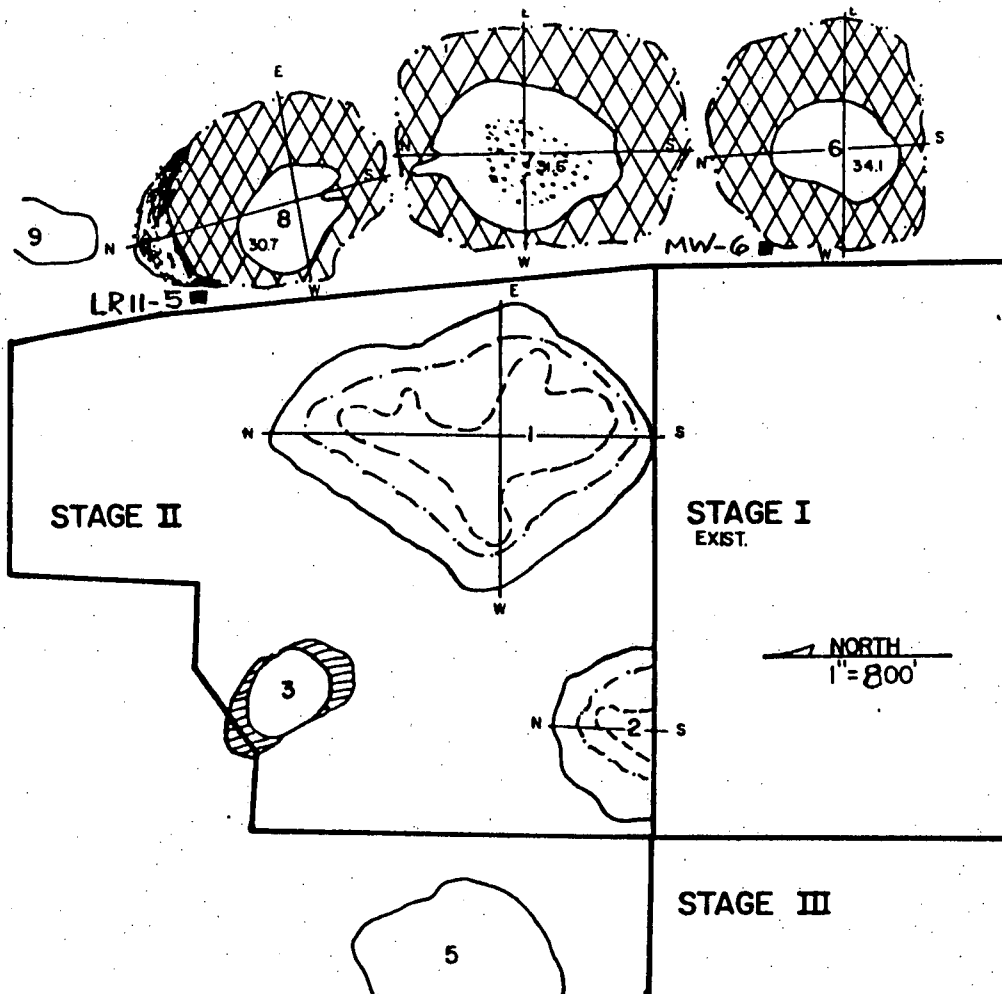
c: Sia Mollanazar, P.E., Engineer Supervisor III
Mark A. Ventriglia, Engineer Supervisor III
Dan Gray, Solid Waste Division Manager
Greg Detaitis, Solid Waste Technician Coordinator



411352349 (DER)
 87IPE-20551 (U.S. CORPS)

Handwritten signature
 5/22/90

SHEET 2 OF 17 GENERAL LOCATION FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA



EXIST. FORESTED WETLAND



PROP. WETLAND MITIGATION



PROP. HARDWOOD WETLAND MITIGATION



AREA OF NO CONSTRUCTION



WETLAND INNER ZONE BOUNDARY



WETLAND MIDDLE ZONE BOUNDARY



PROP. WETLAND MITIGATION OUTER ZONE BOUNDARY

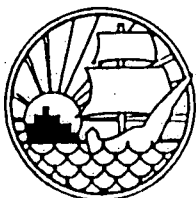


PROP. CONTOUR LINE AND ZONE BOUNDARY



EXIST. SLURRY WALL

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

U.S. CORPS PERM. #87IPE20551

DRAWN BY: B.C.

DATE: 5/90

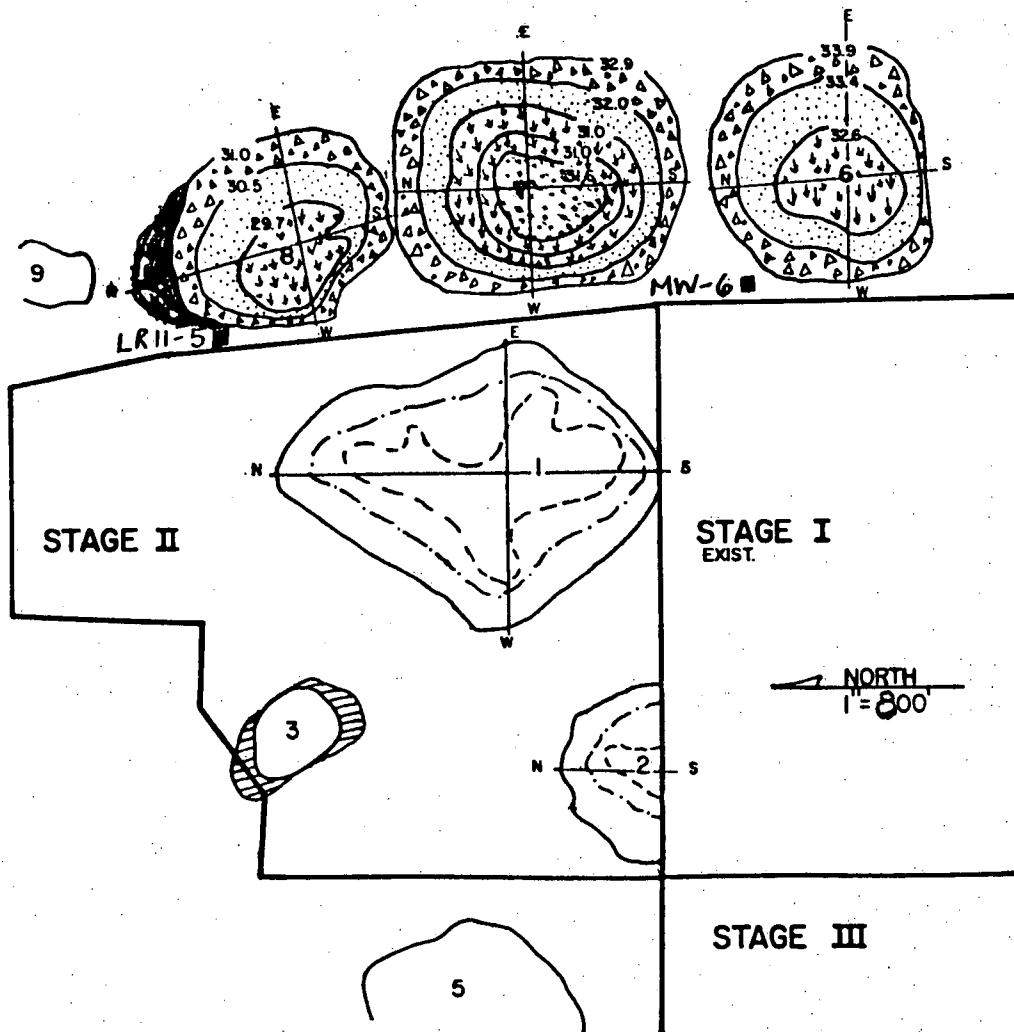
CHKD. BY: SM

SCALE: 1"=800'

APPRVD. BY: HWR

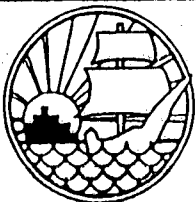
SHEET 4 OF 17

J. Wayne Roberts
5/22/90



- PROP. HARDWOOD WETLAND MITIGATION
- AREA OF NO CONSTRUCTION
- PROP. INNER ZONE
- PROP. MIDDLE ZONE
- PROP. OUTER ZONE
- EXIST. FORESTED WETLAND
- WETLAND INNER ZONE BOUNDARY
- WETLAND MIDDLE ZONE BOUNDARY
- PROP. WETLAND MITIGATION OUTER ZONE BOUNDARY
- 29.7 PROP. CONTOUR LINE AND ZONE BOUNDARY
- EXIST. SLURRY WALL

SEE SHT 15 OF 17 FOR MW-6
SEE SHT 16 OF 17 FOR LR11-5



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

+

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

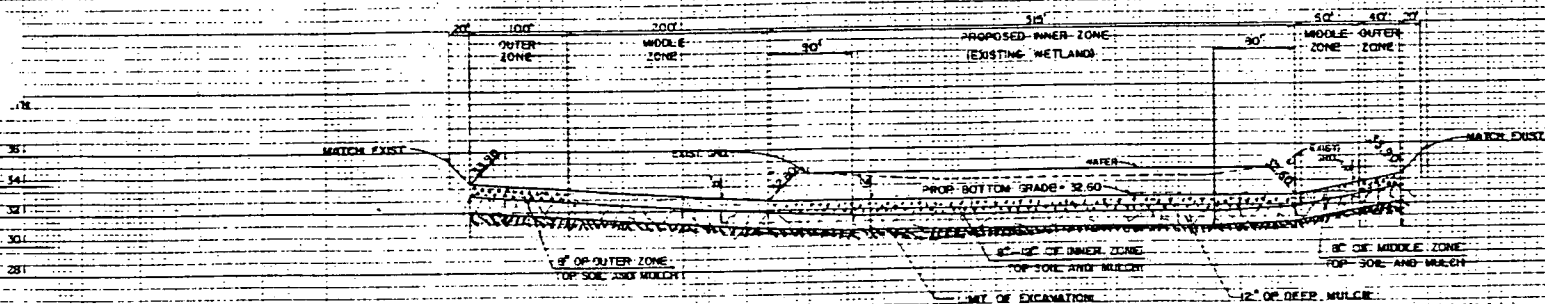
CHKD. BY: SM.

SCALE: 1" = 800'

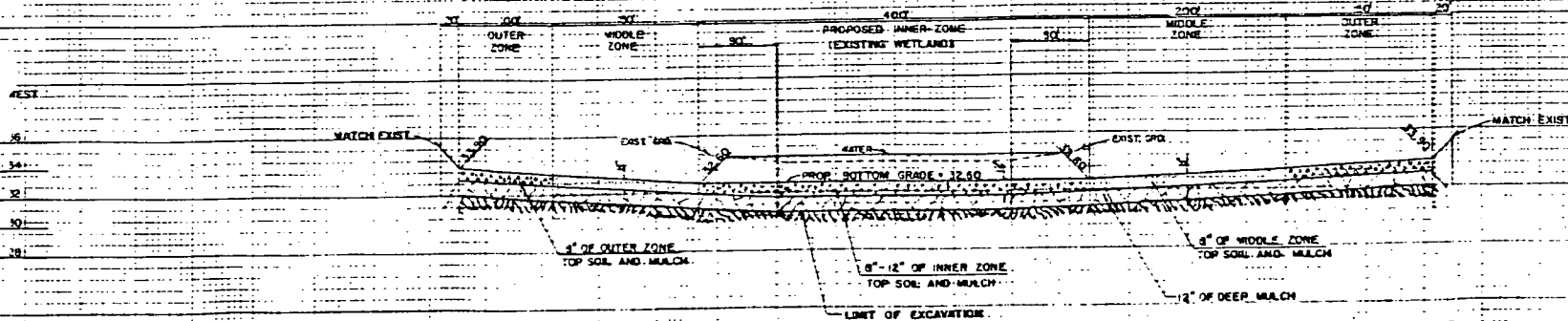
APPRVD. BY: HWR

SHEET 5 OF 17

J. A. Roberts
5/22/90



WETLAND #4 N-S



WETLAND #6 W-E



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

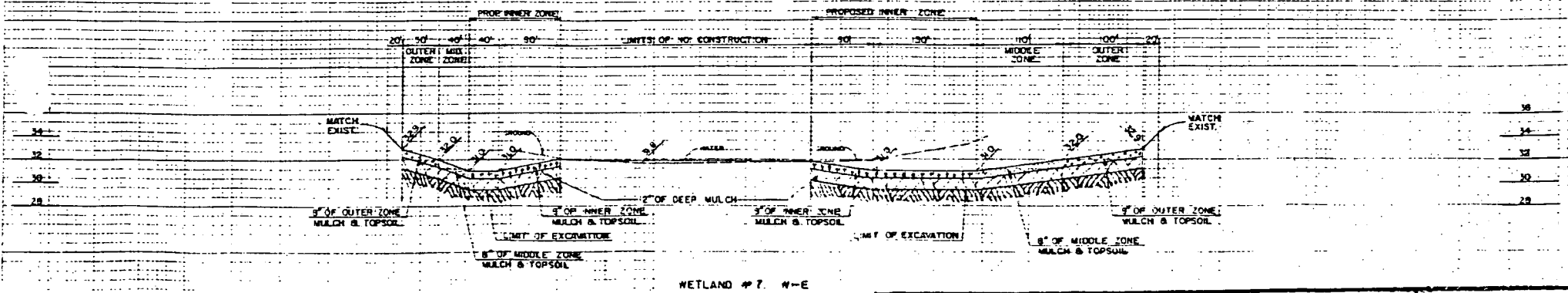
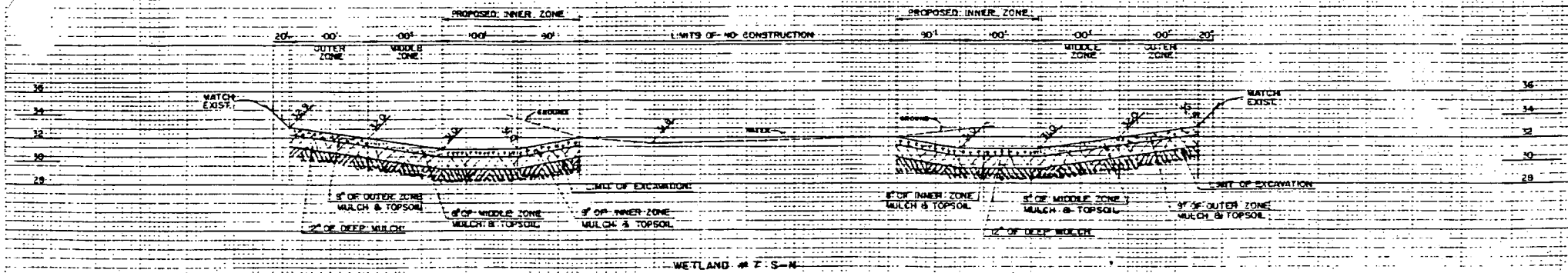
U.S. CORPS PERM. #87IPE20551


DRAWN BY: BC DATE: 5/90

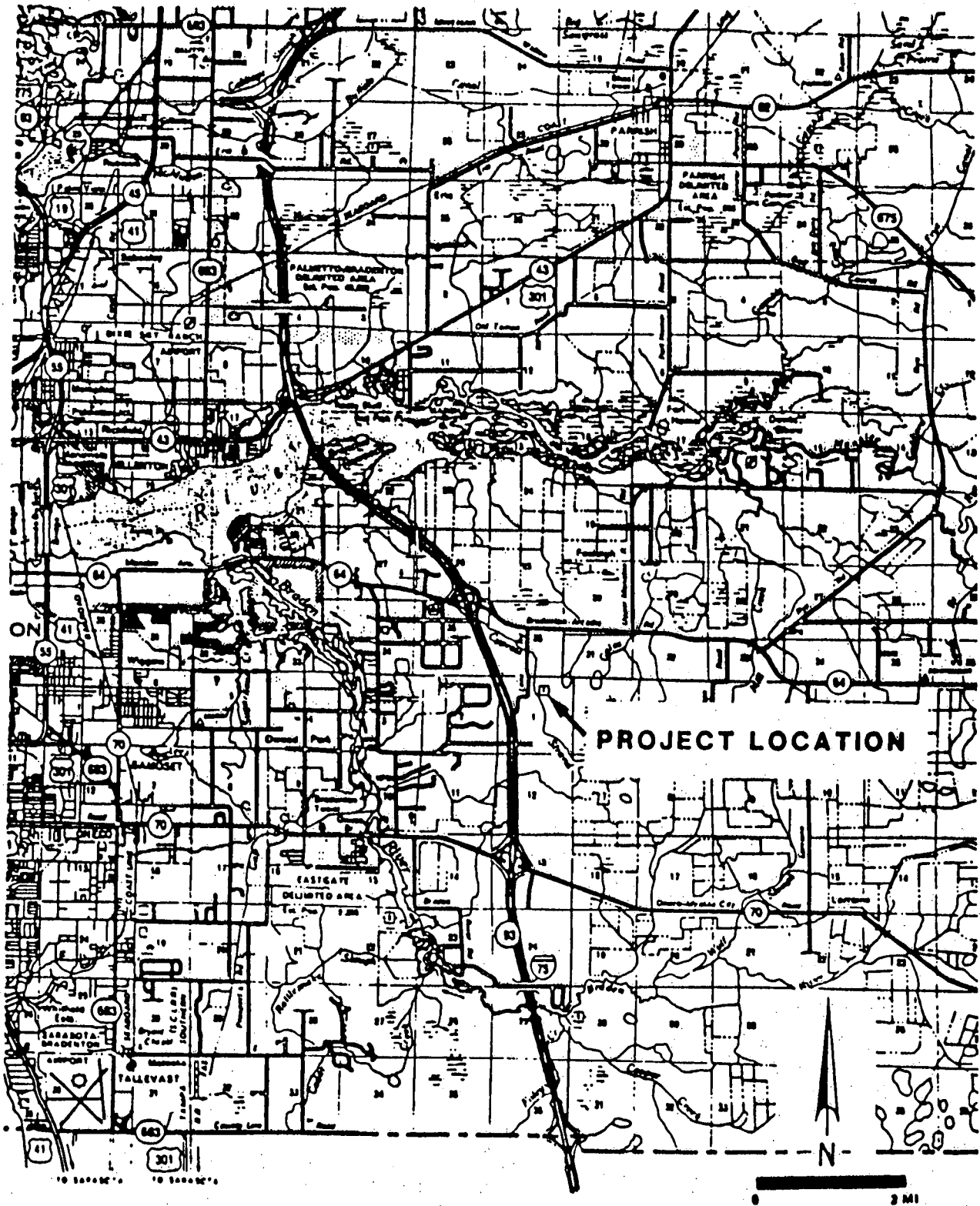
CHKD. BY: SM SCALE:

APPRD. BY: HWA SHEET 2 OF 17

Handwritten signature and date:
5/22/90



 MANATEE COUNTY PUBLIC WORKS DEPARTMENT	MODIFICATION OF DER PERM. #411352349 + U.S. CORPS PERM. #87IPE20551		<i>Wayne Robert</i> 5/22/90
	DRAWN BY: BC	DATE: 5/90	
	CHKD. BY: SM	SCALE:	
	APPRVD BY: AWR	SHEET 2 OF 17	



411352349 (DER)
 07 IPE-20551 (U.S. CORPS)

SHEET 1 OF 17

PROJECT LOCATION FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

[Handwritten signature]
 5/22/90



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352348
+

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

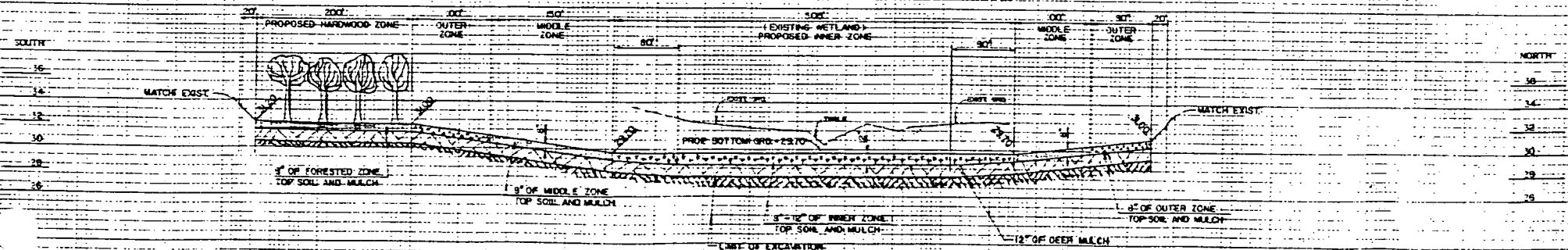
CHKD. BY: SM

SCALE: 1" = 200'

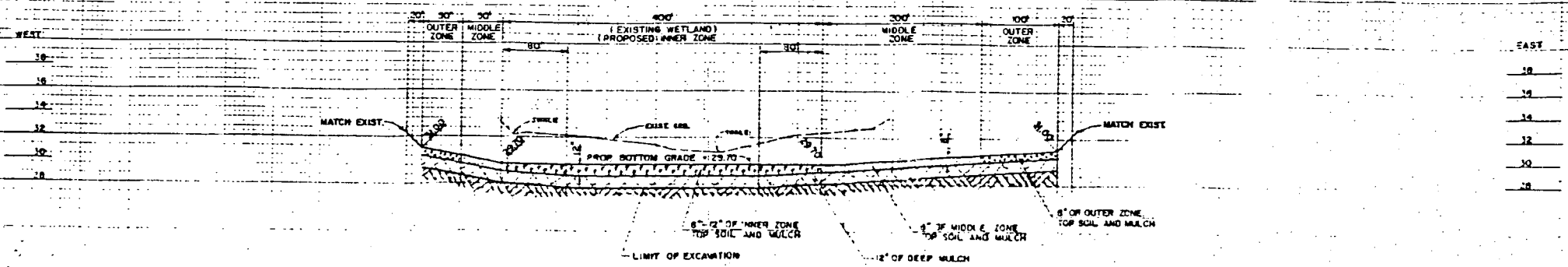
APPRVD. BY: HWR

SHEET 8 OF 17

Handwritten signature and date:
5/22/90



WETLAND #8 S-N



WETLAND #9 W-E

EXIST WETLAND E-SECTION AT
LENA ROAD LANDFILL

0190

OUT IN

A / A /

NORTH

SOUTH

34

32

30

SCALE: HORIZ. 1" = 163'

WETLAND #1 S-N

EAST

34

32

30

SCALE: HORIZ. 1" = 163'

WETLAND #2 N-E

NORTH

SOUTH

34

32

30

SCALE: HORIZ. 1" = 163'

WETLAND #3 N-S



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

MODIFICATION
OF DER PERM. #411352349

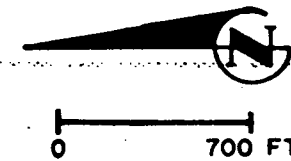
U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC DATE: 5/90

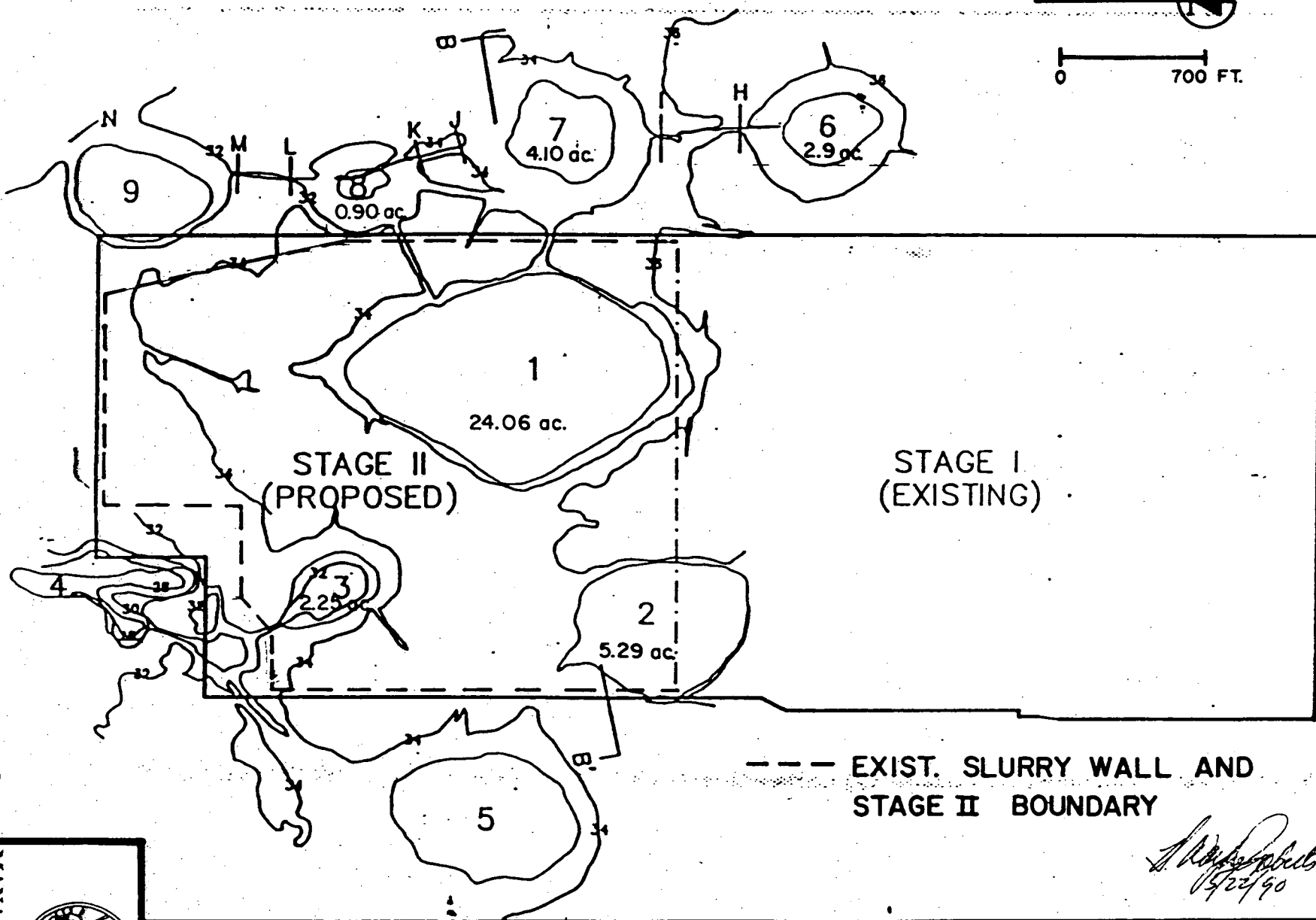
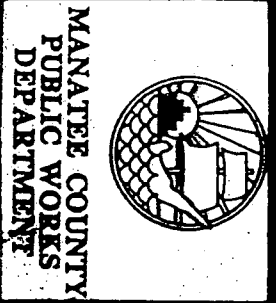
CHKD. BY: SM SCALE:

APPRVD. BY: HWA SHEET 2 OF 17

Wayne
5/22/90



SHT 10 of 17



[Signature]
5/22/90

FIGURE 6A. STAGE II EXISTING TOPOGRAPHY FOR LENA ROAD LANDFILL, MANATEE COUNTY, FL

EXISTING WETLAND THAT WILL BE IMPACTED

WETLAND	EXISTING ACRES *	EFFECTIVE RECREATION RATIO	PROPOSED WETLAND MITIGATION
#1	24.06	1:1.45	34.89 ACRES
#2	5.29	1:1	5.29 ACRES
#3	2.25	1:2.50	5.62 ACRES
TOTAL	31.6	1:1.45	45.80 ACRES

* EXIST. WETLAND AS SHOWN ON SHEET 4 OF 14
OF EXIST. DER PERMIT NO. 411352349
AND
U.S. ARMY CORPS OF ENGINEERS

PROPOSED WETLAND CREATION

WETLAND	EXISTING ACRES	PROPOSED WETLAND CREATION	NET WETLAND CREATION	ADDITIONAL WETLAND CREATION OR ENHANCEMENT **
#6	2.90	16.75	13.85	2.90 ACRES
#7	4.10	22.20	18.10	2.35 ACRES
#8	0.90	14.75	13.85	0.90 ACRES
TOTAL	7.90	53.70	45.80	6.15 ACRES

** ASSUMING NO CREDIT FOR ENHANCEMENT OF EXISTING
WETLAND #6, #8 AND ONLY 2.35 ACRES OF #7

DATE 5/22/90 FL. REG. NO. 39612 D. W. Spelt
COUNTY ENGINEER

LENA ROAD WETLAND CREATION

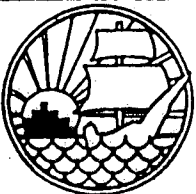
MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT
315 - 75th. STREET WEST
BRADENTON, FLORIDA 34209

MAY 1990 SHEET 11 OF 17

WETLAND CREATION CONSTRUCTION NOTES:

THE FOLLOWING NOTES REPRESENT A CHRONOLOGICAL PROCEDURE BY WHICH WETLANDS WILL BE REMOVED AND RECREATED IN THE PROPOSED WETLAND AREA. SHOULD ANY QUESTIONS OR PROBLEMS ARISE CONCERNING THIS PROCEDURE, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.

1. STAKE OUT THE LIMITS OF NO CONSTRUCTION ACTIVITY ON WETLAND #7. THIS SHOULD PHYSICALLY TAKE PLACE ON SITE BY THE ENVIRONMENTAL SCIENTIST. HE OR SHE WILL ALSO BE STAKING THE THREE ZONES (INNER, MIDDLE, OUTER ZONES) ON THE DONOR WETLAND #1, 2, AND 3.
2. EXCAVATE THE PROPOSED WETLAND #6, 7, AND 8 PRIOR TO ALL OTHER EARTH WORK ACTIVITIES. REFER TO DETAIL CROSS SECTION FOR LIMITS OF EXCAVATION ON EACH WETLAND AND MOVE IT AWAY TO THE EXISTING LANDFILL.
3. DESIGNATE THREE STOCK PILING SITE FOR THREE TOP SOIL AND MULCH ZONES OF WETLANDS CLOSE TO THE WETLAND CREATION AREA.
4. UPON THE ENVIRONMENTAL SCIENTIST APPROVING THE FINAL GRADED WETLAND AREA IN STEP 2, PROCEED WITH STRIPPING APPROXIMATELY TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM STAKED INNER ZONES OF WETLAND #1, 2 AND STOCK PILE IT AT THE DESIGNATED AREAS IN STEP 3. PROCEED THE ABOVE PROCEDURE WITH THE OTHER TWO ZONES (MIDDLE, OUTER). THIS STOCK PILING SHALL NOT EXCEED 72 HOURS.
5. STRIP OUT THE TOP 24"-36" (WHICH EVER IS APPROVED ON SITE BY ENVIRONMENTAL SCIENTIST) OF THE DEEP MULCH AND SOIL OF THE ENTIRE WETLAND #1, 2 AND MOVE IT TO THE PROPOSED WETLAND CREATION AREA OF #6, 7 AND 8. DEPOSIT THE ABOVE STRIPPED DEEP MULCH AND SOIL 12" THICK AND GRADE IT TO THE PROPOSED DETAIL CROSS SECTION SHOWN FOR #6, 7 AND 8.
6. UPON COMPLETING THE STEP 5 ABOVE AND PHYSICAL SITE INSPECTION BY ENVIRONMENTAL SCIENTIST, THE STOCK-PILED TOPSOIL AND MULCH (STEP 4) FOR EACH OF THE INNER, MIDDLE, AND OUTER ZONES TO BE MOVED AND PLACED ON ITS PROPOSED DESIGNATED ZONES SHOWN ON EACH CROSS SECTION FOR #6, 7 AND GRADE IT TO THE PROPOSED ELEVATIONS. START FROM THE INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER ZONE.
7. STRIP OUT THE TOP 12" OF THE NATIVE SOILS AND VEGETATION FROM WETLAND #3 AND MOVE IT DIRECTLY TO WETLAND #8 AND PLACE IT ON ITS DESIGNATED ZONING SHOWN ON THE CROSS SECTION AND GRADE IT TO ITS PROPOSED ELEVATION. START FROM INNER ZONE AND WORK YOUR WAY OUT TO THE OUTER EDGES. FILL IN THE GAP AREAS OF EACH ZONE WITH THE TOP SOIL AND MULCH ALREADY STOCKPILED IN STEP 4.
8. GRADE THE PROPOSED HARDWOOD AREA OF WETLAND #8 TO ITS FINAL GRADE USING THE OUTER ZONE TOP SOIL AND MULCH.
9. FLAG THE TREE ON WETLAND #3 THAT WILL BE TRANSPLANTED TO THE NEW LOCATION ON WETLAND #8. PLANT THE TREES ON 60' CENTER. IN ADDITION, TREES FROM LOCAL NURSERY SHALL BE PLANTED ON 15' CENTERS.



**MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT**

**MODIFICATION
OF DER PERM. #411352349**

+

U.S. CORPS PERM. #87IPE20551

DRAWN BY: BC

DATE: 5/90

CHKD. BY: SM

SCALE: N/A

APPRVD. BY: HW12

SHEET 12 OF 17

*Handwritten signature: J. W. [unclear]
5/22/90*

**Lena Road Landfill Responses
to FDER Letter on Revised
Groundwater Monitoring Plan**



Ardaman & Associates, Inc.

OFFICES

Orlando, 8008 S. Orange Avenue, Orlando, Florida 32819-3003, Phone (407) 855-3860
Bartow, 1987 S. Holland Parkway, Bartow, Florida 33830, Phone (813) 533-0858
Bradenton, 209 A 6th Avenue East, Bradenton, Florida 34508, Phone (813) 748-3971
Cocoa, 1300 N. Cocoa Blvd., Cocoa, Florida 32924, Phone (407) 632-2503
Fort Myers, 2508 Rockfill Road, Fort Myers, Florida 33916, Phone (813) 337-1288
Miami, 2608 W. 84th Street, Hialeah, Florida 33016, Phone (305) 825-2683
Port St. Lucie, 1017 S.E. Holbrook Ct., Port St. Lucie, Florida 34985, Phone (407) 337-1200
Sarasota, 2500 Bee Ridge Road, Sarasota, Florida 34277, Phone (813) 922-3526
Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (904) 576-6131
Tampa, 105 N. Faulkenburg Road, Suite D, Brandon, Florida 34299-1506, Phone (813) 654-2336
West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (407) 687-8200

MEMBERS:

American Concrete Institute
American Society for Testing and Materials
American Consulting Engineers Council
Association of Soil and Foundation Engineers
Florida Institute of Consulting Engineers
American Council of Independent Laboratories

Table 1

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
Artesian Aquifer Wells				
SA-1		03-20-89	21.02	
		04-24-89	26.00	
		08-07-89	18.25	
		12-12-89	17.60	
SA-3		03-16-89	24.25	
		04-24-89	27.00	
		08-07-89	22.58	
		12-12-89	47.75	
SA-4	31.28	03-09-89	22.00	9.28
		04-25-89	25.00	6.28
		08-08-89	19.08	12.20
		12-13-89	18.58	12.70
SA-5	37.92	03-06-89	26.16	11.76
		04-26-89	29.50	8.42
		08-08-89	23.58	14.34
		12-12-89	21.80	16.12
SA-6	36.04	03-06-89	23.50	12.54
		04-26-89	25.08	10.96
		08-09-89	25.00	11.04
		12-14-89	21.50	14.54
SA-7	33.27	03-06-89	23.12	10.15
		05-01-89	28.50	4.77
		08-09-89	28.17	5.10
		12-14-89	21.33	11.94
SA-8	34.48	03-08-89	24.30	10.18
		05-01-89	28.25	6.23
		08-09-89	24.75	9.73
		12-14-89	21.79	12.69
SMR-2	36.10	03-16-89	20.63	15.47
		04-27-89	24.88	11.22
		08-10-89	24.30	11.80
		12-18-89	35.00	1.10

Table 1
(continued)

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
Surficial Aquifer Wells				
SMR-1	36.48	03-16-89	6.58	29.90
		04-27-89	7.92	28.56
		08-10-89	5.40	31.08
		12-18-89	5.58	30.90
MW-1	38.93	03-09-89	6.08	32.85
		04-27-89	6.71	32.22
		08-10-89	2.58	36.35
		12-11-89	8.75	30.18
MW-2	39.77	03-07-89	9.08	30.69
		04-25-89	9.29	30.48
		08-11-89	9.75	30.02
		12-11-89	8.82	30.95
MW-3		03-07-89	7.92	
		04-25-89	9.29	
		08-11-89	7.67	
		12-11-89	7.50	
MW-6 (New)	39.32	03-09-89	6.08	33.24
		04-26-89	7.67	31.65
		08-07-89	6.33	32.99
		12-11-89	5.82	33.50
LRII-1	38.02	03-06-89	4.12	33.90
		04-26-89	5.96	32.06
		08-08-89	5.25	32.77
		12-12-89	5.00	33.02
LRII-2	36.53	03-06-89	6.50	30.03
		04-26-89	8.17	28.36
		08-09-89	6.25	30.28
		12-14-89	5.75	30.78

Table 1
(continued)

1989 WELL WATER LEVEL DATA

Location	Elevation TOC (ft, NGVD)	Date	Depth to Water from TOC (ft)	Water Level Elevation (ft, NGVD)
LRII-3	33.51	03-06-89	6.13	27.38
		05-01-89	7.83	25.68
		08-09-89	5.67	27.84
		12-14-89	6.67	26.84
LRII-4	33.90	03-08-89	5.83	28.07
		05-01-89	7.38	26.52
		08-09-89	5.50	28.40
		12-14-89	6.63	27.27
LRII-5	36.78	03-08-89	6.33	30.45
		04-26-89	7.67	29.11
		08-11-89	5.00	31.78
		12-18-89	8.83	27.95
GC-1	31.36	03-09-89	4.33	27.03
		04-25-89	5.00	26.36
		08-08-89	5.16	26.20
		12-13-89	5.00	26.36
GC-2	38.23	03-20-89	4.83	33.40
		04-24-89	5.63	32.60
		08-07-89	8.08	30.15
		12-12-89	17.33	20.90
GC-3	35.08	03-08-89	4.00	31.08
		04-24-89	5.67	29.41
		08-07-89	7.17	27.91
		12-12-89	4.75	30.33
GC-4	33.98	03-07-89	5.08	28.90
		04-24-89	6.50	27.48
		08-07-89	5.00	28.98
		12-13-89	6.25	27.73
GC-5	36.52	03-07-89	7.50	29.02
		04-25-89	8.00	28.52
		08-08-89	7.50	29.02
		12-13-89	7.83	28.69

Table 1
(continued)

1989 WELL WATER LEVEL DATA

<u>Location</u>	<u>Elevation TOC (ft, NGVD)</u>	<u>Date</u>	<u>Depth to Water from TOC (ft)</u>	<u>Water Level Elevation (ft, NGVD)</u>
GC-6	39.10	03-07-89	8.33	30.77
		04-25-89	8.00	31.10
		08-08-89	7.75	31.35
		12-13-89	8.17	30.93
CW-3		03-20-89	5.88	
		05-01-89	6.42	
		08-08-89	6.50	
		12-18-89	7.83	
CW-4		03-20-89	6.71	
		04-27-89	6.58	
		08-10-89	4.63	
		12-11-89	5.00	
CW-5		03-09-89	6.00	
		04-27-89	7.83	
		08-10-89	3.54	
		12-11-89	4.00	

NOTE: TOC - Top of Casing



MANATEE COUNTY GOVERNMENT

Public Works Department

MEMORANDUM

DATE: March 6, 1989

TO: Robert T. Hall, P.E.

FROM: Thomas J. Zink, P.E.

RE: Lena Road Landfill Permits - Stage II
Stormwater System - Stage III (Gun Club)

For Stage II of the landfill, we currently have the following permits:

<u>Description</u>	<u>Permit Number</u>	<u>Expiration</u>
DER Construction Permit, Stage II	SC41-095658	Jan. 1, 1992
SWFWMD Surface Water Permit, Slurry Wall Construction	403143	July 11, 1991
U.S. Army Corps of Engineers, Stage II Construction	87IPE-20551	No Date
DER Dredge, Fill, Stormwater Stage II Construction	411352349	Dec. 10, 1992

A SWFWMD Surface Water Permit will be required for Stage II. We have a Design Report for Stage II, dated November, 1984, by Briley, Wild & Associates which has some information on storm-water runoff from this section of the landfill.

The Briley, Wild & Associates' Design Report for Stage III (Gun Club) indicates a perimeter stormwater ditch with a bottom elevation at 35.0 with an overflow weir elevation of 38.5. The top of the ditch would probably be set at elevation 40.5 with the exception of the weir section. It would be virtually impossible to build at these elevations looking at the existing topo unless vast amounts of fill were brought to the site. It would also cause problems with the landfill access road and road to the treatment plant. Assuming the SWFWMD permit for Stage III (Gun Club) reflects the elevations given in the Design Report, modifications will have to be made to the proposed perimeter ditch for this system to operate properly.

TZ:ef



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
87IPE-20551

MAR 2 1988

Mr. Robert Garren
Environmental Services and
Permitting, Incorporated
Post Office Box 5489
Gainesville, Florida 32602-5489

RECEIVED ENVIRONMENTAL SERVICES & PERMITTING, INC. MAR - 3 1988 FILE 263-87-01 NOTE
--

Dear Mr. Garren:

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 Area Engineer as representative of the District Engineer must be notified of:

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

Area Engineer addresses and telephone numbers are shown on the enclosed map. The Area Engineer 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
John F. Adams
Chief, Regulatory Division

Enclosures

Copy Furnished:

Mr. Terry J. Ried
Solid Waste Division Manager
Manatee County Government
Caller Service 25010
Bradenton, Florida 34206-9999

DEPARTMENT OF THE ARMY PERMIT

Permittee MANATEE COUNTY PUBLIC UTILITIES DEPARTMENT

Permit No. 87IPE-20551

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:

The project is to discharge approximately 1,600,000 cubic yards of material over 31.6 acres of herbaceous marsh. The purpose of the project is to construct Phase II of an existing sanitary landfill.

The work described above is shown on the attached plans numbered 87IPE-20551 in 14 sheets; 1 through 3, 5, and 14; dated 20 July 1987; sheet 4 dated 20 July 1987, and revised October 1987; sheets 6 through 13 dated October 1987.

Project Location:

The project is located in wetlands adjacent to Cypress Strand, south of the intersection of State Road 64 and Lena Road, in Section 31, Township 34 South, Range 19 East, in the city of Bradenton, Manatee County, Florida.

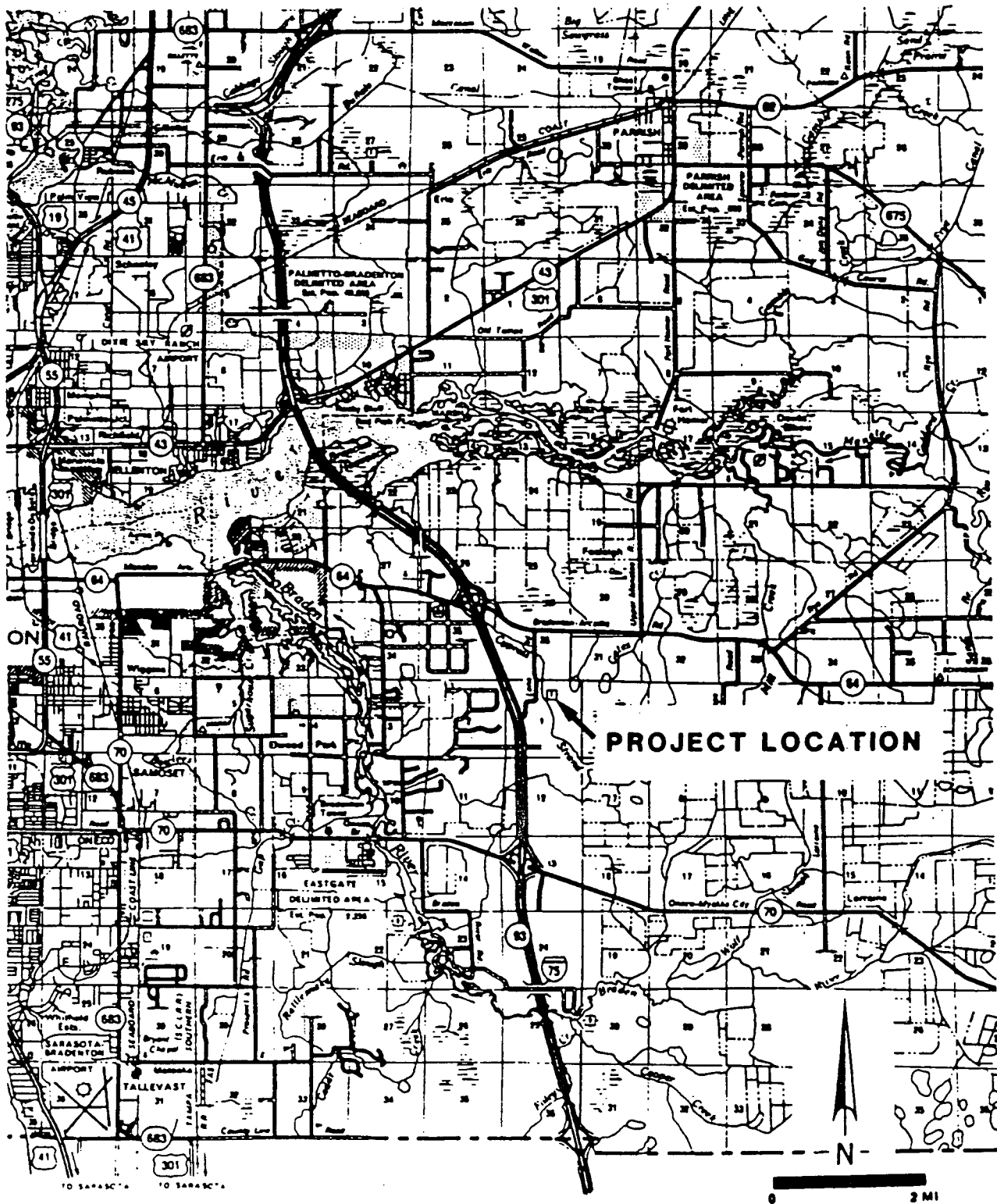
Permit Conditions:

General Conditions:

MAR 2 1993

MAR 2 1993

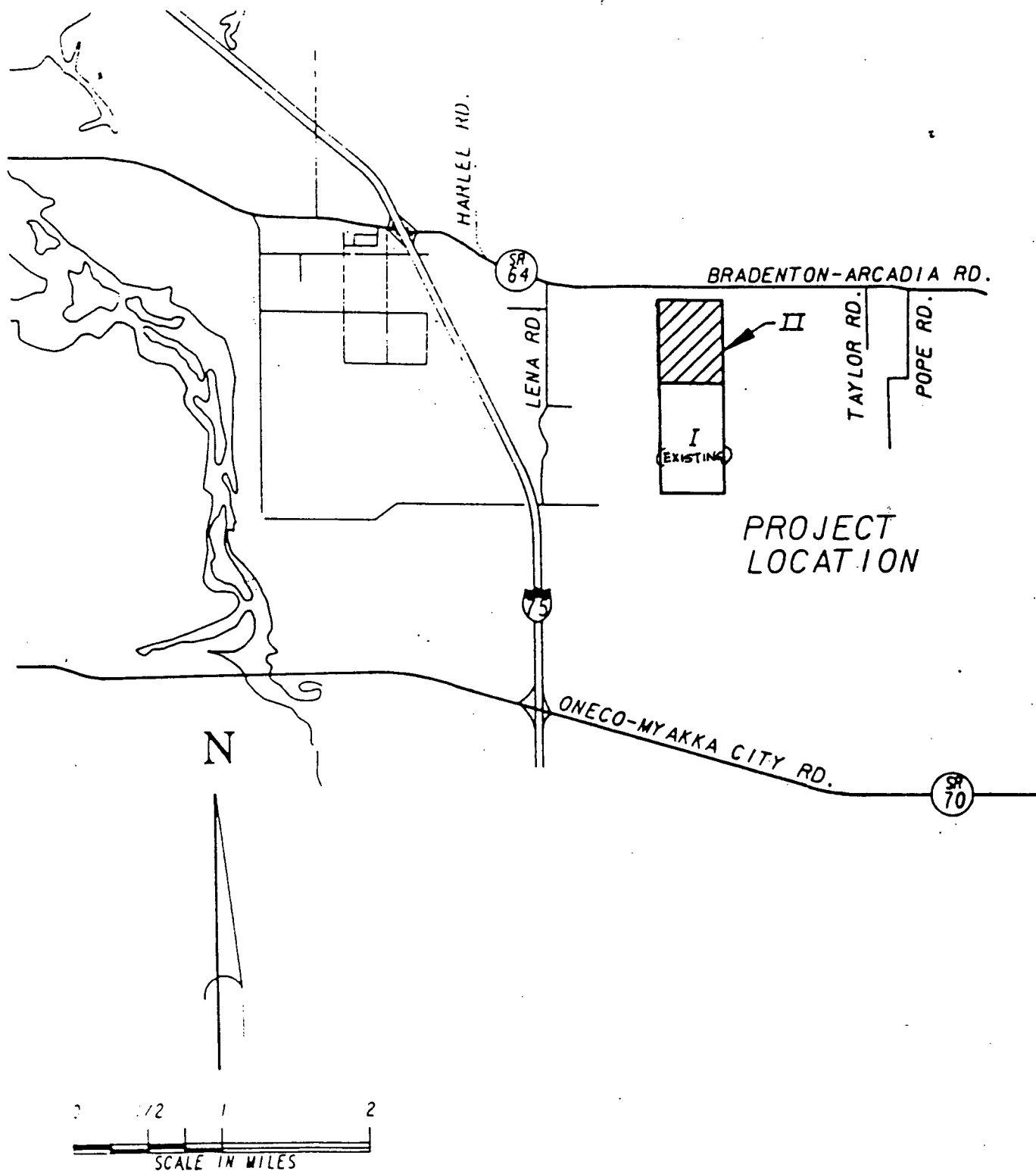
1. The time limit for completing the work authorized ends on _____. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity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



87IPE-20551
JULY 20, 1987
SHEET 1 OF 14

PROJECT LOCATION FOR LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA

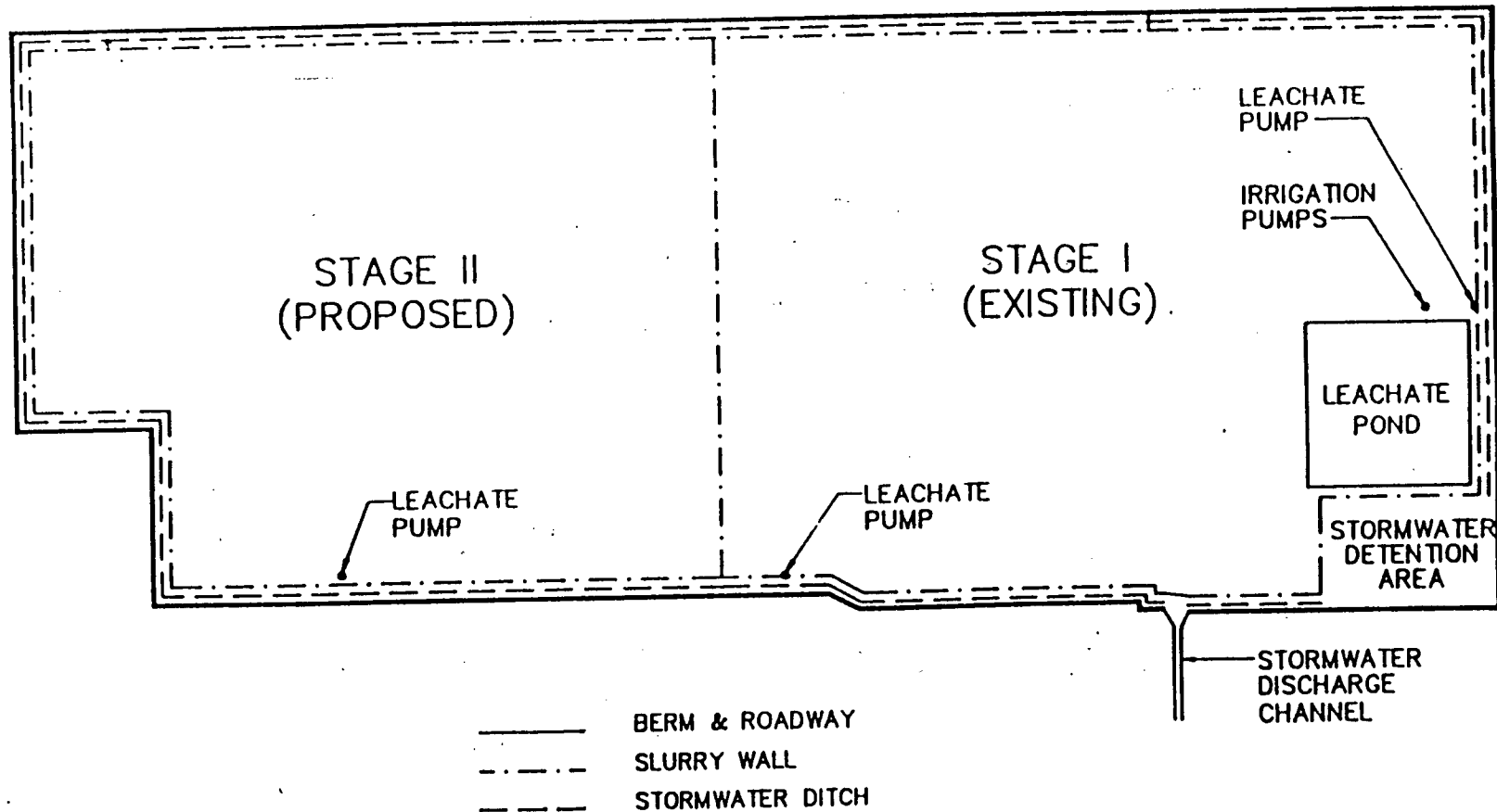
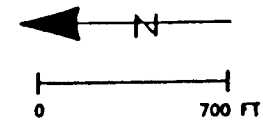
PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 5/87
TAKEN FROM FOOT ROAD MAP



87IPE-20551
JULY 20, 1987
SHEET 2 OF 14

GENERAL LOCATION FOR LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 5/87



PLAN VIEW OF LENA ROAD LANDFILL, MANATEE COUNTY, FL.

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
JULY 20, 1987
SHEET 3 OF 14

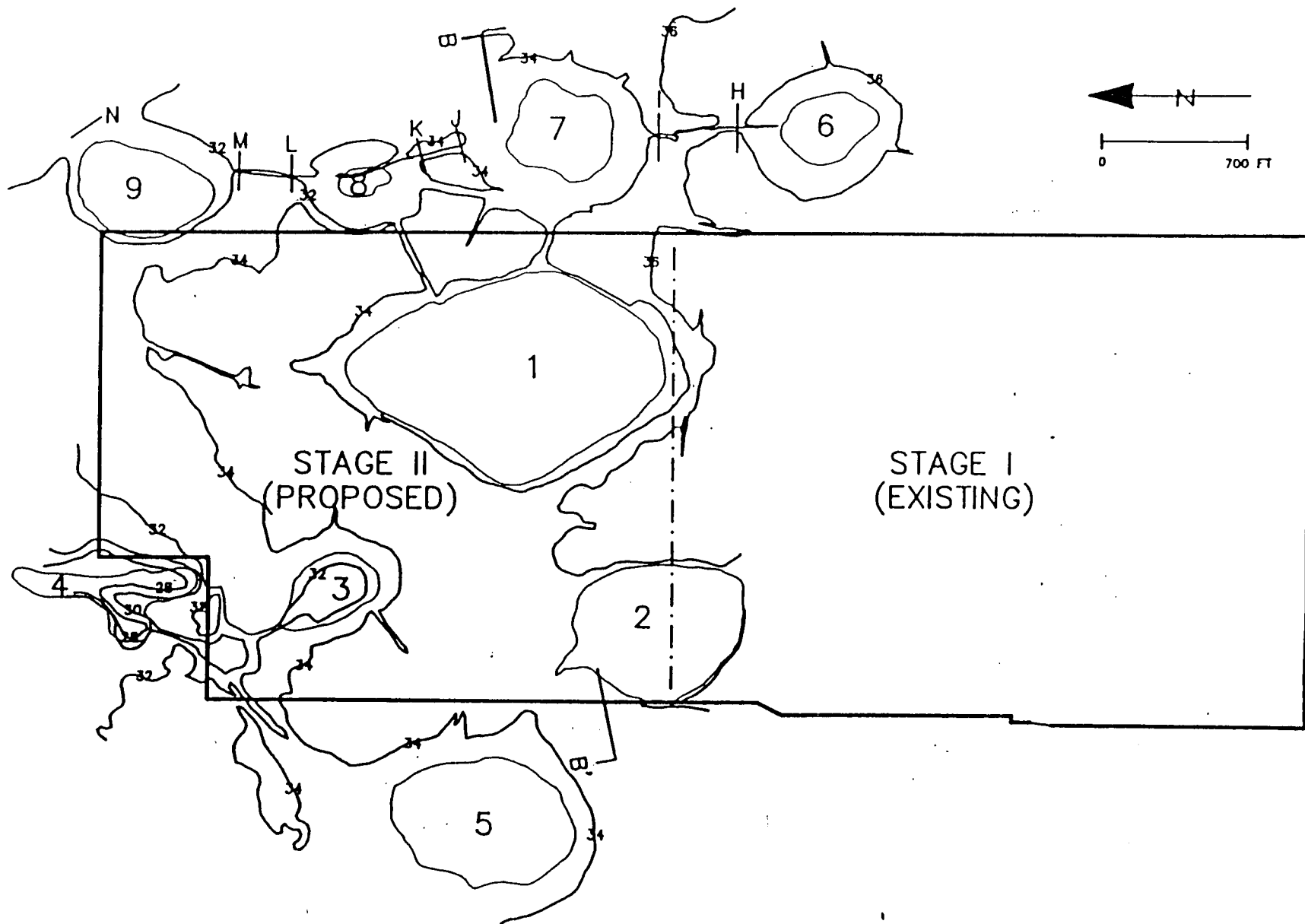


FIGURE 6A. STAGE II EXISTING TOPOGRAPHY FOR LENA ROAD
LANDFILL, MANATEE COUNTY, FL

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352349

John W. L...

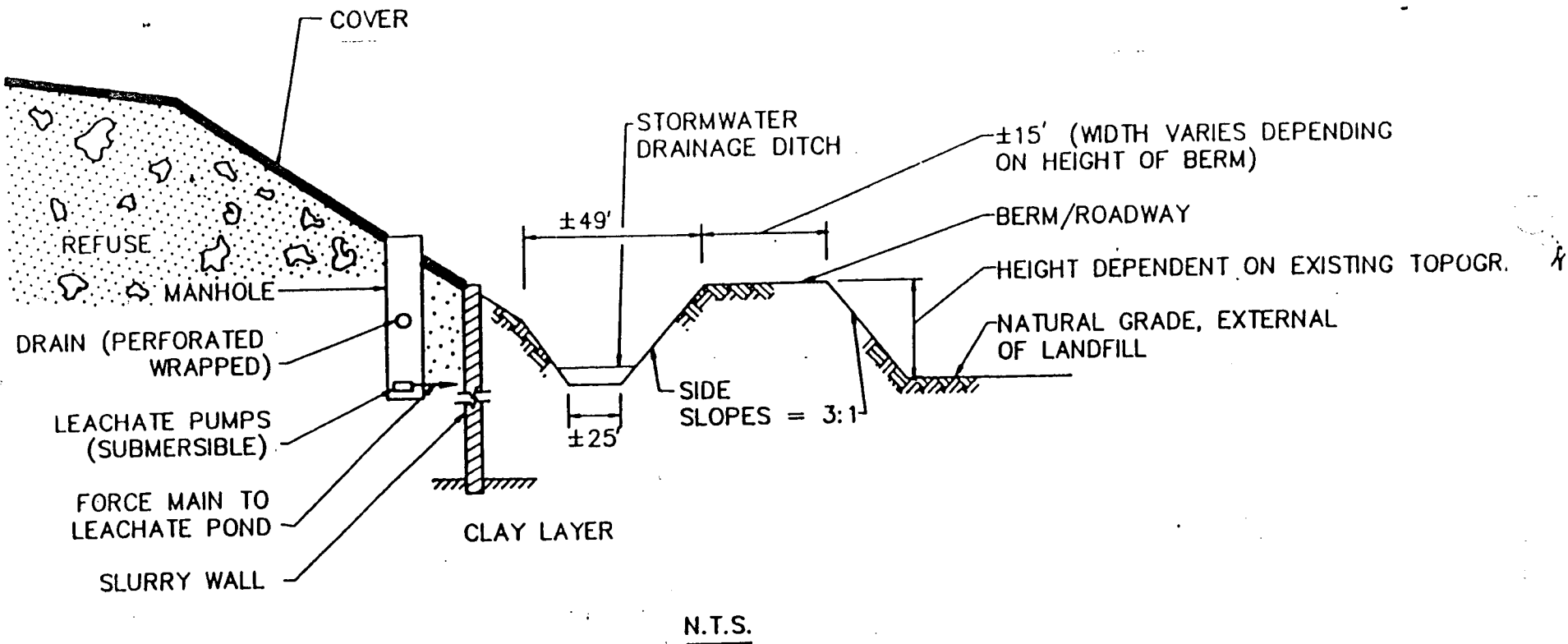
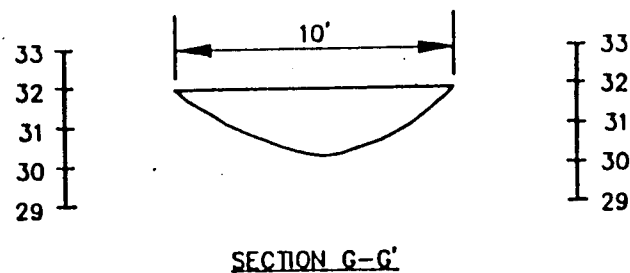


FIGURE 4. TYPICAL SECTION THROUGH EDGE OF LANDFILL SHOWING LEACHATE PUMP ARRANGEMENT



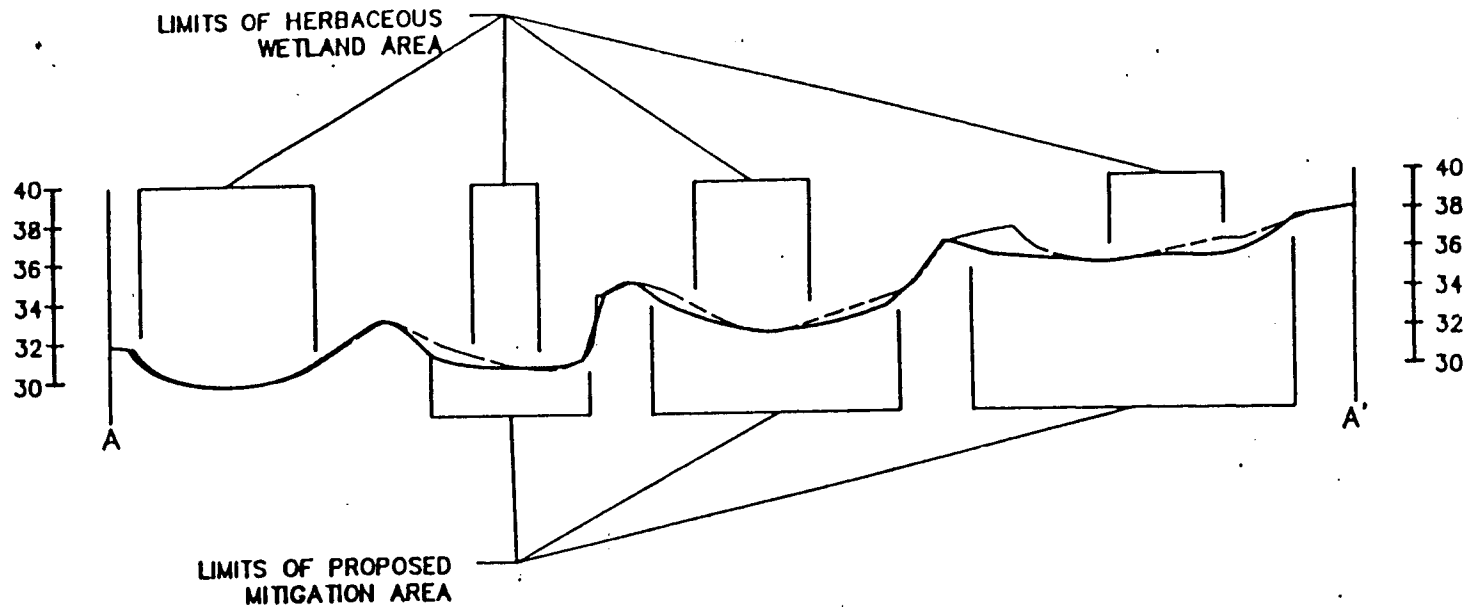
CROSS SECTION OF REROUTED OUTFALL
DITCH FROM WETLAND #5 FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
SHEET 6 OF 14
OCTOBER 1987

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



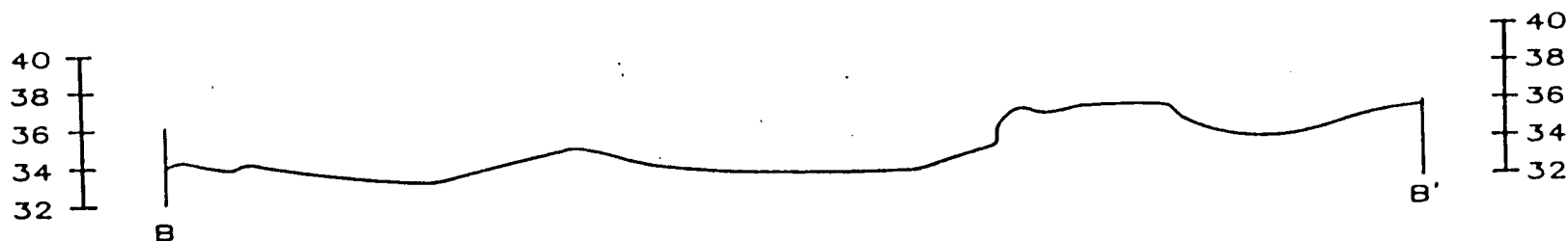
NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 700'
 VERT. SCALE: 1" = 1'

SECTION A-A'

PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA FOR LENA ROAD 'LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
 SHEET 7 OF 14
 OCTOBER 1987



NOTE:
ELEVATIONS IN N.G.V.D.
HORZ. SCALE: 1" = 500'
VERT. SCALE: 1" = 1'

SECTION B-B'

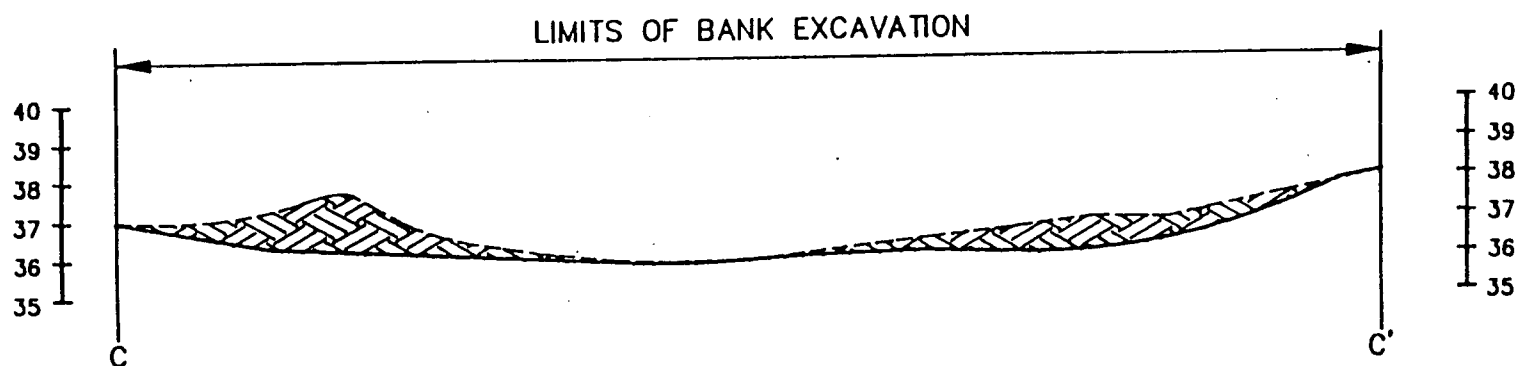
CROSS SECTION OF EXISTING TOPOGRAPHY FOR
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
SHEET 8 OF 14
OCTOBER 1987

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

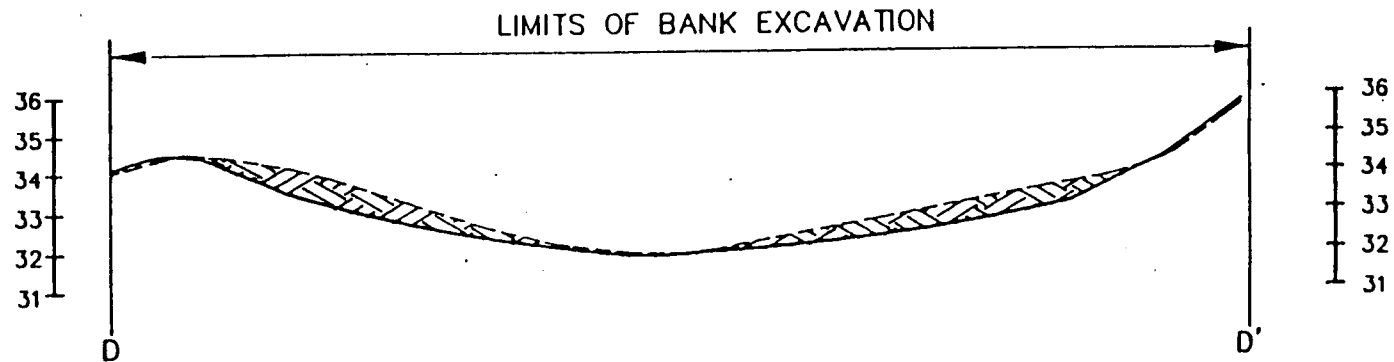
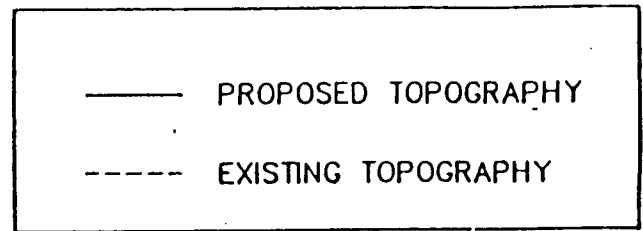
SECTION C-C'

PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #6 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
 SHEET 9 OF 14
 OCTOBER 1987

LEGEND



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION D-D'

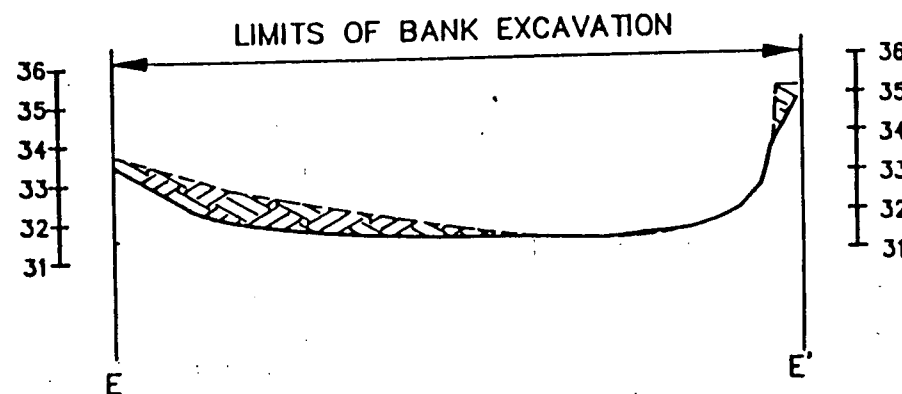
PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #7 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

B7IPE-20551
 SHEET 10 OF 14
 OCTOBER 1987

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION E-E'

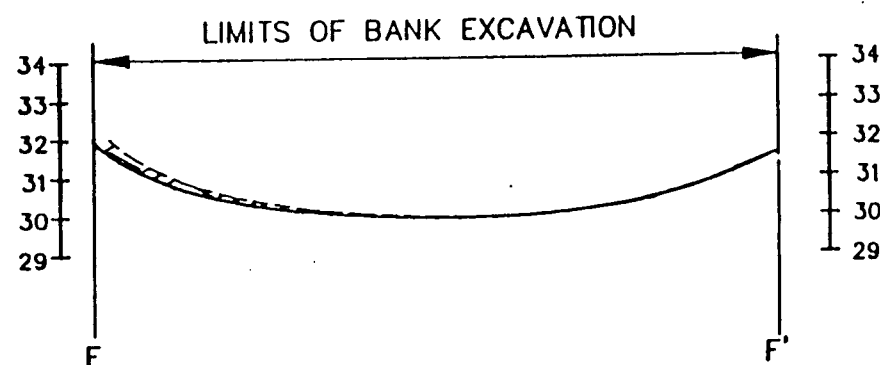
PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #8 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
 SHEET 11 OF 14
 OCTOBER 1987

LEGEND

—— PROPOSED TOPOGRAPHY
 ----- EXISTING TOPOGRAPHY



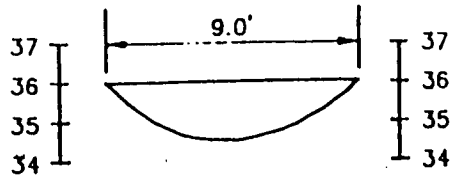
NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION F-F'

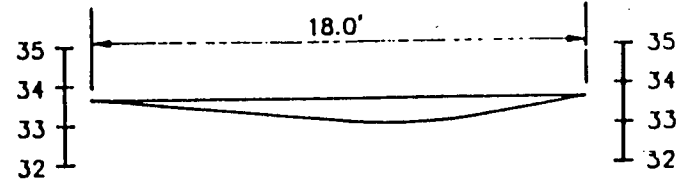
PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #9 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

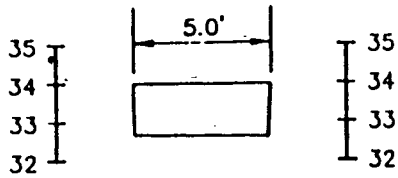
87IPE-20551
 SHEET 12 OF 14
 OCTOBER 1987



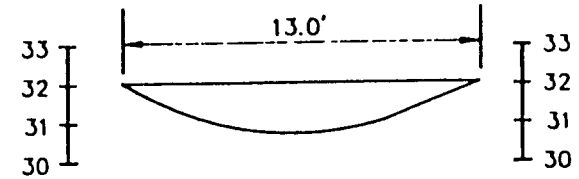
SECTION H
OUTFALL OF WETLAND #6



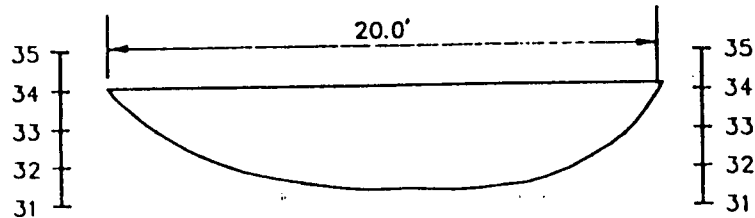
SECTION I
OUTLET OF WETLAND #8



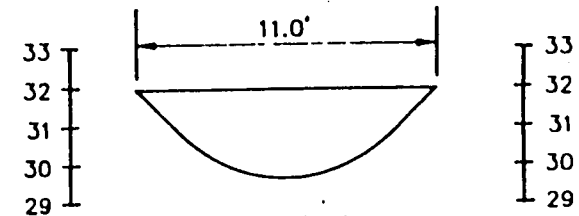
SECTION J
INLET OF WETLAND #7



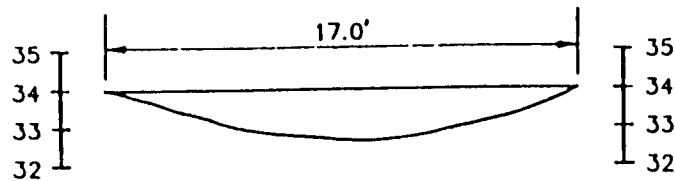
SECTION M
INLET OF WETLAND #9



SECTION J
OUTFALL OF WETLAND #7



SECTION N
OUTFALL OF WETLAND #9



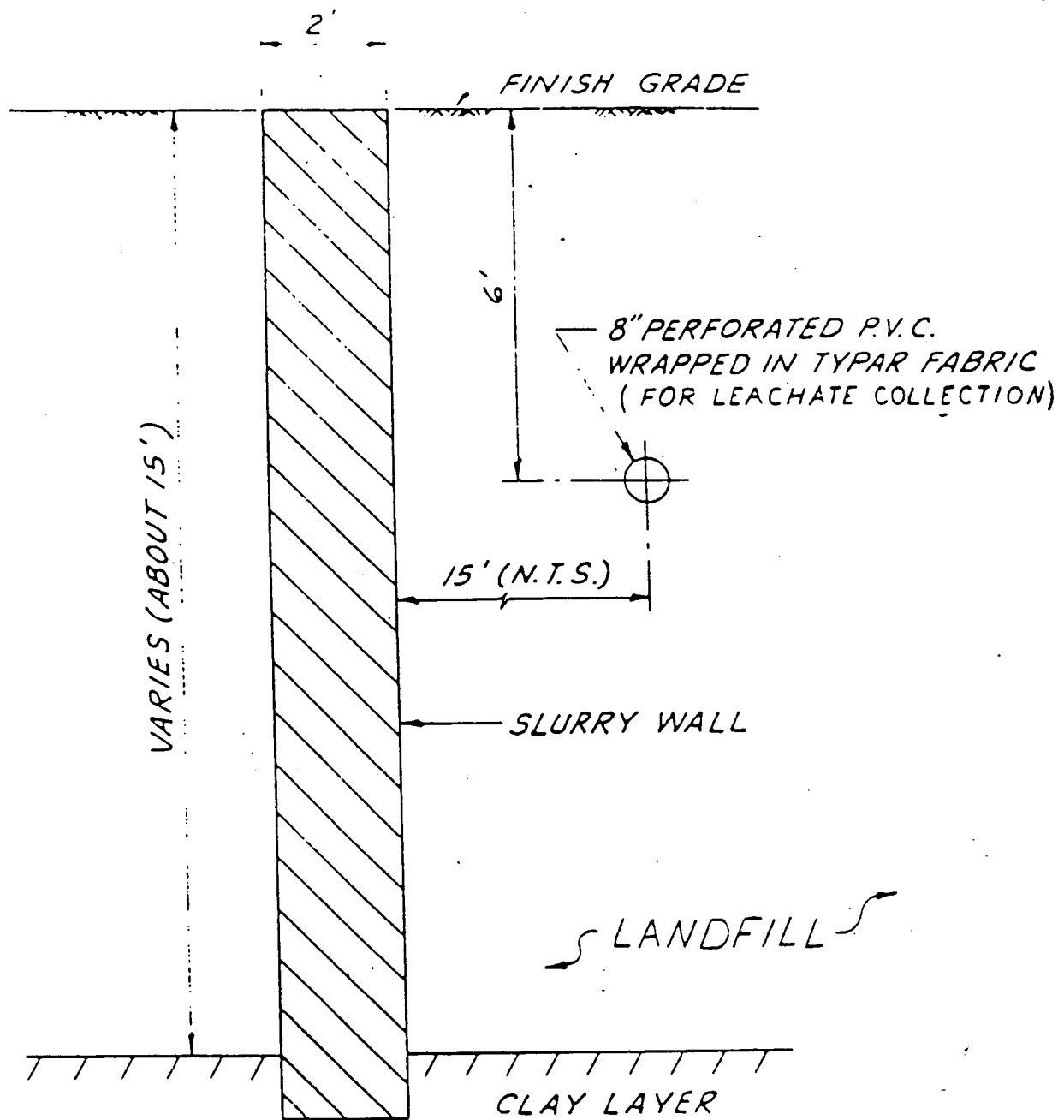
SECTION K
INLET OF WETLAND #8

NOTE:
ELEVATIONS IN N.G.V.D.

TYPICAL CROSS SECTIONS OF EXISTING WETLAND DITCHES FOR LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

87IPE-20551
SHEET 13 OF 14
OCTOBER 1987



SLURRY WALL DETAIL

SCALE: $\frac{3}{8}" = 1'-0"$

TYPICAL DETAIL FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

87IPE-20551
SHEET 14 OF 14

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 5 '87 JULY 20, 1987

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 to 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.

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

Charles A. Hunsicker

(PERMITTEE)

February 25, 1988

2-25-88

(DATE)

Charles A. Hunsicker, Deputy Director
Manatee County Public Works Department

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

John R. Hally

(DISTRICT ENGINEER)

3/2/88

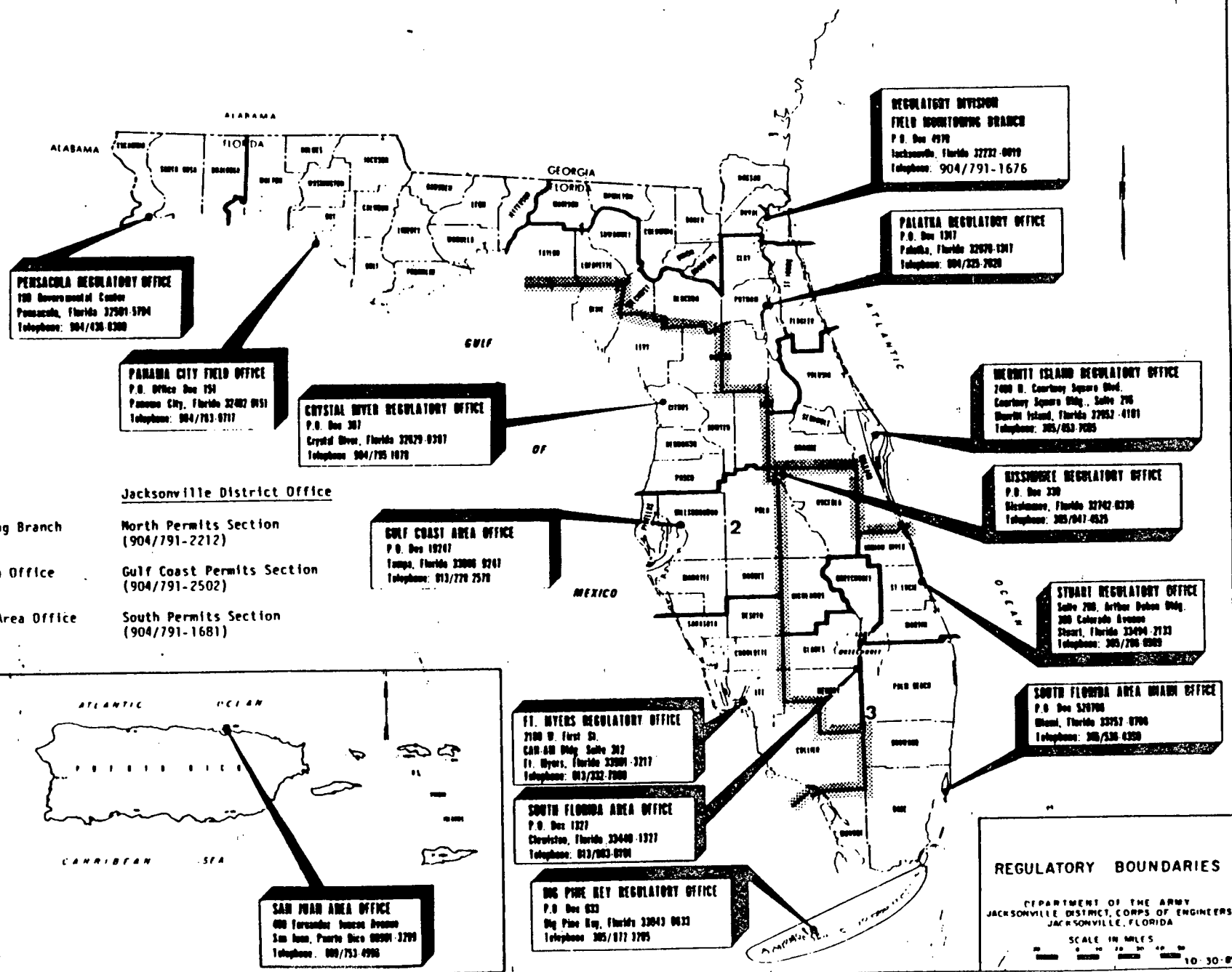
(DATE)

Robert L. Herndon
Colonel, Corps of Engineers

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)

(DATE)





Southwest Florida Water Management District

MICHAEL ZAGORAC, JR., Chairman, Belleair WALTER H. HARKALA, Vice Chairman, Plant
ANNE M. BISHOPRIC, Secretary, Sarasota HORACE F. HERNDON, Treasurer, Lake Wales
ROY G. HARRELL, JR., St. Petersburg ROBERT T. BRAMSON, M.D., Tampa
WILLIAM H. WILCOX, Ph.D., Port Charlotte MARY ANN HOGAN, Brooksville CHARLES A. BRACK, Crystal River

GARY W. KUHL, Executive Director DANIEL P. FERNANDEZ, General Counsel
WILLIAM K. HENNESSEY, PETER G. HUBBELL, JERRY I. SIMPSON, Deputy Executive Directors

JUL 19 1988
ENGINEERING

July 11, 1988

Richard A. Wilford
Manatee County Public Works
6615 Cortez Road, West
Bradenton, Florida 34207

Subject: General Permit Transmittal Letter - Final Agency Action
Project Name: Lena Road Landfill
Permit No.(s): 403143
County: Manatee

Your Permit(s) has been approved contingent on no objections being received within 14 days after receipt of this notice of Final Agency Action. Your acceptance of the permit(s) constitutes notice and your agreement that the District may periodically review this Permit, including making site inspections.

Please be advised that any person who is substantially affected by the District's Final Agency Action concerning a Permit may challenge this Permit by requesting an Administrative Hearing in accordance with Section 120.57, Florida Statutes (F.S.), and Part V of Chapter 40D-1, Florida Administrative Code (F.A.C.). A request for hearing must be filed with (received by) the Agency Clerk of the District at the address below within 14 days after the date of receipt of this notice of Final Agency Action. When actual receipt of notice cannot be determined, receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, F.S.

Your participation in the regulation process will help protect and conserve our water resource.

Please contact this office if you have any questions or concerns about your Permit.


ANNIE L. TAYLOR, Manager
Processing & Records Section

Enclosures: Approved Permit

cc: Robert T. Hall, P.E., Manatee County Public Works, 315 75th Street, West,
Bradenton, FL 34209
J. Frauen



Southwest Florida Water Management District

MICHAEL ZAGORAC, JR., Chairman, Belleair WALTER H. HARKALA, Vice Chairman, Plant City
ANNE M. BISHOPRIC, Secretary, Sarasota HORACE F. HERNDON, Treasurer, Lake Wales
ROY G. HARRELL, JR., St. Petersburg ROBERT T. BRAMSON, M.D., Tampa
WILLIAM H. WILCOX, Ph.D., Port Charlotte MARY ANN HOGAN, Brooksville CHARLES A. BLACK, Crystal River
GARY W. KUHL, Executive Director DANIEL P. FERNANDEZ, General Counsel
WILLIAM K. HENNESSEY, PETER G. HUBBELL, JERRY I. SIMPSON, Deputy Executive Directors

MANAGEMENT OF SURFACE WATER PERMIT

Permittee:
Manatee County Public Works
6615 Cortez Road, West
Bradenton, Florida 34207

Permit No. 403143
Date Issued: July 11, 1988
Expiration Date: June 11, 1991
County: Manatee
Project: Lena Road Landfill
Sec/Town/Rge: 1/35/18

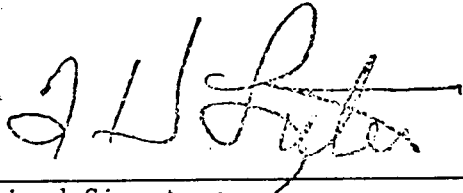
This Permit is issued under the provisions of Chapter 373, Florida Statutes, and Florida Administrative Code Rule(s) 40D-4, 40D-40. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the District and made a part hereof and specifically described as follows:

Construction of a Surface Water Management System serving a 7.6 acre government project as named above.

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 the adverse off-site water resource related impacts will not be caused by the completed permit activity. It is also the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.
12. Prior to dewatering, plans shall be submitted to the District for approval. Information shall include as a minimum; pump sizes, locations and hours of operation or each pump. If off-site discharge is proposed, or off-site adverse impacts are evident, an individual water use permit may be required. The permittee is cautioned that several months may be required for consideration of the water use permit application.

SPECIAL CONDITIONS

1. This permit is required to be kept at the work site of the permitted activity during the entire period of construction.
2. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 17-25, F.A.C.
3. The permittee shall assure that erosion and sediment control measures required by Rule 17-25.025(7) shall be effectively implemented continuously from beginning of project construction until completion. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project should be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters or offsite.
4. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed water well contractor in accordance with Chapter 40D-3 and Rule 17-21.10(4), F.A.C.4.
5. An existing fuel storage tanks and fuel pumps on this site shall be removed at the beginning of project construction in accordance with Rule 17-61.05(3)(c), F.A.C.
6. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.



Authorized Signature
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STAFF REPORT

GENERAL SURFACE WATER MANAGEMENT PERMIT APPLICATION NO.: 403143

PROJECT NAME: Lena Road Landfill Slurry Wall

OWNER'S NAME: Manatee County Public Works Department

LOCATION: Manatee County

(See Map) SECTION(S) 1 ; TOWNSHIP(S) 35 ; RANGE(S) 18

ABSTRACT

This application is for construction of a new surface water management system serving a 7.6 acre county landfill project as named above.

The staff recommendation is for construction permit approval with standard permitting conditions and specific conditions as listed.

I. BACKGROUND

A. Date Received: 3-28-88

Date Completed: 5-16-88

B. Type and Description of Land Use: County landfill

C. Purpose of Application and Staff Review:

- (x) New Construction
- () Transfer Permit No.
- () Modification of Permit No.
- () Other:

II. EXISTING ADJACENT FACILITIES:

Does the file information indicate that the applicant's development proposal has been designed to consider off-site runoff contribution?

(x) YES () NO

III. PROPOSED FACILITIES ON SITE:

A. Description:

- () Detention () Retention
- () Excavated Ponds () Existing Pits () Diked Ponds
- () On-Site Wetlands () Swales or Ditches () Pipes
- (x) Other: Construction of underground slurry wall only.
- () Pumped Discharge

B. Receiving Waterbody: Existing on-site drainage features.

Receiving waterbody's owner or maintenance entity, and whether natural or manmade: Manatee County, natural areas

IV. EVALUATION:A. Water Quantity:

1. Allowable Discharge: Does the applicant's engineer indicate that the post-development downstream discharge rate will not adversely exceed nor reduce the pre-development discharge rate during a 25-year, 24-hour rainfall event?

(x) YES () NO

2. Flood Protection: Does the applicant's engineer indicate that the proposed development will not create adverse impacts due to encroachment into the 100-year floodplain, and that provision has been made to replace or otherwise mitigate the loss of historic basin storage provided by the project site?

(x) YES () NO

- B. Water Quality: Does the applicant's engineer indicate project compliance with Chapter 17-25, F.A.C.?

(x) YES

() NO

- C. Environmental Considerations: Does the file information indicate avoidance or mitigation of adverse impacts to significant wetlands and other unique hydrologic features by the proposed development?

(x) YES () NO Wetlands will be protected by erosion control measures installed prior to construction.

- D. Land Use Information: Does the file information indicate that the proposed development is compatible with approved zoning?

(x) YES () NO

- E. Utilities: Does the file indicate suitable water and wastewater facilities are being provided for the project?

(x) YES () NO

- F. System Operation: Does the file information indicate a person or entity responsible for system maintenance and operation?


(x) YES () NO

V. RECOMMENDATIONS:


Staff recommends approval of Construction Permit, with standard permitting conditions and listed specific conditions.

VI. SPECIFIC CONDITIONS:

1. This permit is required to be kept at the work site of the permitted activity during the entire period of construction.
2. Except as authorized by this Permit, any further land development, wetlands disturbance or other construction within the total land area of this site will require additional permitting in accordance with Chapters 40D-4 and 17-25, F.A.C.
3. The permittee shall assure that erosion and sediment control measures required by Rule 17-25.025 (7) shall be effectively implemented continuously from beginning of project construction until completion. Project detention/retention ponds and discharge control structures which are to be constructed as part of the project should be initially built and maintained continuously during project construction to avoid adverse impact to receiving waters on or off site.
4. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed water well contractor in accordance with Chapter 40D-3 and Rule 17-21.10 (4), F.A.C.
5. Any existing fuel storage tanks and fuel pumps on this site shall be abandoned at the beginning of project construction in accordance with Rule 17-61.05 (3) (c), F.A.C.
6. By issuance of this permit the District, its employees and representatives assume no responsibility and/or liability in regard to either the design, construction or performance of the permitted facilities.

Environmental Scientist: 

M. ANDREW BARTH

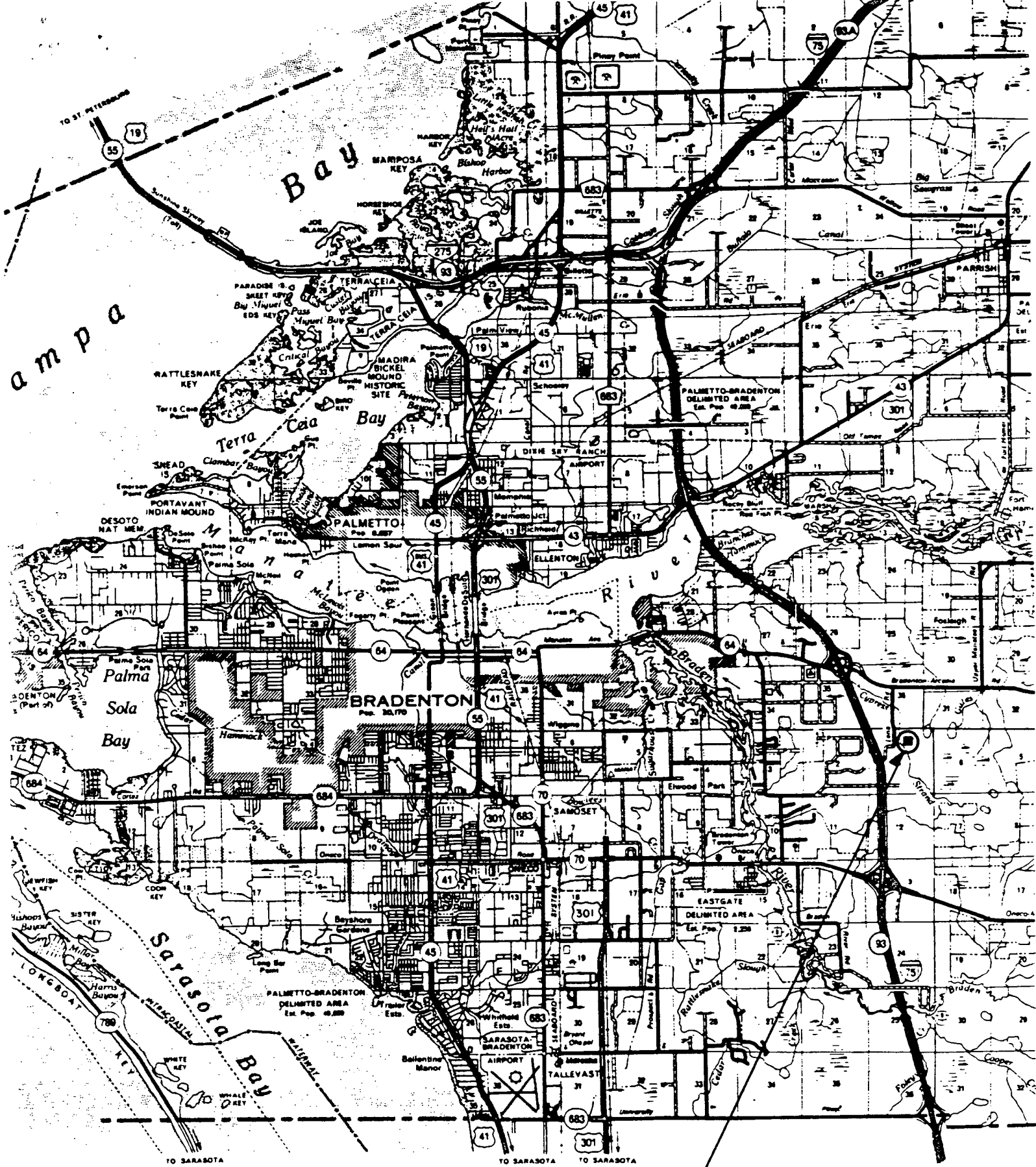
Application Reviewed By: 

JAMES R. FRAUEN

Report Received By: 

DARREL R. FLATT, FL. P.E., NO. 37646
Surface Water Permitting
Resource Regulation Department

Attachments: Location Map
Proposed Permit



S A R A S O T A

Project location MSW No. 403143




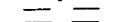
-  HIGHWAY WITH FULL CC
-  HIGHWAY INTERCHANGE
-  PROPOSED CONTROLLEE
-  DIVIDED HIGHWAY

Table ____ . Wetlands Report

Project Name -	LENA ROAD LANDFILL SLURRY WALL
Permit Number -	403143
County -	MANATEE
Proposed Land Use -	LANDFILL
Total Project Acreage -	7.6 AC.
Total Wetland Acreage -	0.003
Wetland Acreage Preserved -	0.0
Wetland Acreage Temporarily Disturbed -	0.003
Wetland Acreage (natural) Permanently Destroyed -	0.0
Wetland Acreage (man-made) Permanently Destroyed -	0.0
Wetland Acreage Created (Mitigation) -	0.0
Wetland Acreage Net Change -	0.0
Other Compensation Acreage -	0.0

Remarks - WETLANDS WILL ONLY BE TEMPORARILY DISTURBED.



**MANATEE COUNTY
GOVERNMENT**
Public Works Department

May 11, 1988

Mr. James R. Frauen
Southwest Florida Water Management District
Venice Division
7601 North U.S. Highway 301
Tampa, Florida 33637-9551

Re: Lena Road Land Fill - MSW: 403143

Dear Mr. Frauen:

Attached please find all the information requested in your letter dated April 27, 1988.

ITEM NO. - APPLICATION:

1. See attached Sheet 2 of 5.
2. The project limits is 25' wide times the length of the project, which is 13,394.40
Therefore: $13,394.40 \times 25 \div 3560 = 7.69 \text{ AC} \pm$
3. The wetland boundaries were flagged by Andy of your office and the wall has been positioned a minimum of 100' from all wetland areas.

SITE INFORMATION

1. The off-site contributing areas are not applicable because the existing contours will be maintained.
2. Project is not in a floodway or in the 100 year flood plain.
3. Refer to Item 3 (Application). The section adjacent is Section C-C, Sheet 5 of 5.
4. The slurry wall has been relocated to miss the oak hammock as shown on the drawings.

Mr. James R. Frauen
Page Two
May 11, 1988

Re: Lena Road Land Fill - MSW: 403143

ITEM NO. - SITE INFORMATION (cont'd)

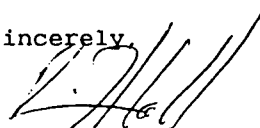
5. No wetland impact will occur because the slurry wall is being placed where an existing shell road is.
6. The mud and silt-laden run-off will be pumped to a location which is upland to all wetlands and is located on the site plan.
7. With the relocation of the wall, the ditch will remain in its present location.
8. Shown on plan sheets.

LEGAL AND INSTITUTIONAL INFORMATION:

1. See plan sheets.

Thank you for your cooperation in this matter.

Sincerely,


Robert T. Hall, P.E.

MAV/ef

Attachment: Your letter of 4/27/88

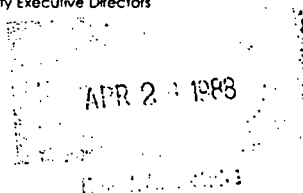
cc: Charles A. Hunsicker
Mark Ventriglia
Terry Reid
Dan Gray
CF-Permits-Lena Rd.



Southwest Florida Water Management District

MICHAEL ZAGORAC, JR., Chairman, Belleair WALTER H. HARKALA, Vice Chairman, Plant City
ANNE M. BISHOP, Secretary, Sarasota HORACE F. HERNDON, Treasurer, Lake Wales
ROY G. HARRELL, JR., St. Petersburg ROBERT I. BRAMSON, M.D., Tampa
WILLIAM H. WILCOX, Ph.D., Port Charlotte MARY ANN HOGAN, Brooksville CHARLES A. BLACK, Crystal River
GARY W. KUHL, Executive Director DANIEL P. FERNANDEZ, General Counsel
WILLIAM K. HENNESSEY, PETER G. HUBBELL, JERRY I. SIMPSON, Deputy Executive Directors

April 27, 1988



Mr. Robert T. Hall, P.E.
Manatee County Public Works
315 75th Street, West
Bradenton, Florida 34209

Subject: Request for Additional Information
Project Name: Lena Road Land Fill Slurry Wall
Appl. No.(s): MSW: 403143
County: Manatee

Re: Chapters 40D-4 and 17-25, F.A.C.
Rule 40D-4.101, 40D-1.603(6), F.A.C.

Dear Mr. Hall:

Your permit application is currently being reviewed. However, the additional information indicated on the enclosed checklist is needed before we can complete our review.

To expedite the processing of your application, please furnish us with four copies of all requested information within 90 days from the date of this request.

If I may be of further assistance, please contact me at (813) 985-7481, Ext. 2052.

Sincerely,

JAMES R. FRAUEN
Venice Permitting Division
Resource Regulation Department

JRF:dkh

Enclosure: Checklist

cc: Mr. Richard A. Wilford, Manatee County Public Works, 6615 Cortez Rd., West,
Bradenton, FL 34207
Dr. W. H. Wilcox
A. Adams
A. Barth
T. Goodson
P & R

PROJECT INFORMATION REVIEW LIST
CONCEPTUAL, INDIVIDUAL AND GENERAL
SURFACE WATER MANAGEMENT PERMIT APPLICATIONS

PROJECT NAME: Lena Road Landfill Slurry Wall

DATE APPL. RECEIVED: 3-28-88

30 DAY DEADLINE: 4-27-88

MSW NUMBER: 403143

CONCEPTUAL ()

INDIVIDUAL ()

GENERAL (X)

In order to provide evidence that reasonable assurance is given for those "Conditions for Issuance of Permits" found in subsection 40D-4.301(1)(a-1), the following additional information is required as indicated. The items requested are extracted from Sections 40D-4.101 and 40D-4.112, "Content of Application," 40D-4.091 "Basis of Review," and 40D-0.201 "Permit Processing Fee".

CATEGORY

40D-4.101(1) - APPLICATION:

1. Please provide the total contiguous land area owned by the applicant.
2. Please identify how the project area was determined and also identify the limits of construction, (which should be included in the project area) on the construction plans.
3. Please provide full scale drawings of the entire stage II and stage III project site which include all construction details, cross sections, boundary surveys, topography, wetland limits, etc. identified in the following information requests.

CATEGORY

40D-4.101(2)(a) - SITE INFORMATION:

1. Please submit a topographic map of the site and adjacent hydrologically related areas, which shall include location and description of bench marks. Map should clearly identify: existing elevations, contours and land features, site boundaries, off-site contributing areas, etc.
2. If the project is in the know floodway of a stream, or other watercourse, the floodway should be identified and approximate flooding elevations determined. The 100 year flood plain elevation and limits should be identified, if applicable.
3. Please identify all wetland areas on, and adjacent to, the project site on your site plan. Identify minimum setback distances of the slurry wall from the wetland. Be certain to include the section adjacent to the wastewater treatment plant.

4. Please identify wetland impacts associated with the slurry wall installation in the hammock located in the northeast corner of the project site. Please indicate proposed compensation for wetland impacts to this area. If impacts are restricted to the ditch crossings, please identify these locations on the site plan and outline the restoration proposals.
5. Please indicate if any wetland impacts will be associated with the slurry wall installation on the western boundary adjacent to the wastewater treatment plant.
6. Please outline construction details for the proposed slurry wall. Will dewatering be required? It is anticipated that the proposed activities will generate large quantities of mud and silt-laden run-off. How will you prevent these materials from entering the wetlands?
7. Is the rerouting of the ditch from wetland #5 proposed in this permit application? If so, please provide all construction details for the proposed ditch including all flow line elevations. Also, provide mitigation for any wetland impacts associated with the ditch relocation.
8. Please indicate the descriptions of measures to be implemented during the construction period to mitigate adverse quantity and quality impacts off site on the actual construction drawings, which must be made available to the contractor for implementation.

CATEGORY

40D-4.101(2)(d) - LEGAL AND INSTITUTIONAL INFORMATION:

1. Please provide a copy of the legal description for the total land area owned and a boundary survey for the proposed project area which identifies the precise location of the slurry wall.

403143.MSW



MANATEE COUNTY GOVERNMENT

Public Works Department

March 17, 1988

Mr. James Frauen
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 343609-6899

Re: Lena Road Landfill Summary

Dear Mr. Frauen:

As discussed between members of Manatee County Public Works Department and members of the Southwest Florida Water Management District, the sole purpose of this permit is to construct a slurry wall around the perimeter of what is known as Stage II and Stage III of the Lena Road Landfill (see attached map). Manatee County understands that any further development of the landfill (Stage II or III) will require a surface water permit. During construction of the slurry wall, final design engineering drawings will be prepared for Stage II Operation. These plans will have incorporated with them a complete surface water system.

The construction of the slurry wall was required by the State Department of Environmental Regulation after leachate was detected in some of the monitoring wells surrounding the Stage I and Stage III landfills. The Stage III DER construction permit was issued approximately two years ago.

An Intent To Issue a Construction Permit for the Stage II slurry wall was issued on January 31, 1986. A request for an administrative hearing was submitted by the affected property owners adjacent to and in the vicinity of the landfill. A negotiated settlement was reached between Manatee County, DER and the plaintiffs on April 27, 1987. The settlement fixed certain boundaries for the construction of the slurry wall and wetland mitigation areas. On December 10, 1987, DER issued the construction permit for construction of the Stage II landfill and slurry wall and the dredge & fill permit regarding the wetland mitigation work. The construction permit conditions, boundary of the approved slurry wall construction and the dredge & fill permit requirements are consistent with the conditions of the settlement agreement.

Lena Road Landfill Summary
March 17, 1988
Page Two

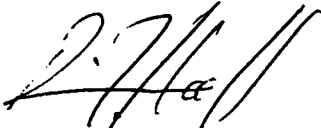
Attached for your review is the following information regarding our application for the necessary Southwest Florida Water Management District permit:

1. Statement regarding As-built Statement of Completion and On-Site Construction Inspection.
2. Statement by Applicant/Property Owner Intending to Retain Whole Ownership of the Permitted Project Regarding Operation and Maintenance Responsibility.
3. SWFWMD Form MSW 25.3 - 15.2 - 9/87.
4. Section "A-A", View Through Slurry Wall.
5. Section "B-B", View Through Slurry Wall Under Swale.
6. Section "C-C", View Through Typical Slurry Wall (South Wall of Stage III).
7. Plan view of areas that require baled hay or straw.
8. Baled Hay or Straw Barriers and Silt Fence Detail Sheet.
9. Alignment Survey of Slurry Wall.
10. Existing Site Plan showing slurry wall alignment.
11. Department of Army Permit.
12. DER Dredge and Fill Permit regarding wetland mitigation.
13. DER Stage II Construction Permit.
14. DER Stage III Construction Permit.
15. Stipulation for Settlement between DER, Manatee County and Plaintiffs.

Lena Road Landfill Summary
March 17, 1988
Page Three

Manatee County would like to thank the staff of SWFWMD for their cooperation in this matter. If you have any questions or need additional information, feel free to contact us.

Sincerely,

A handwritten signature in dark ink, appearing to read "R. T. Hall", with a stylized flourish at the end.

Robert T. Hall, P.E.
Engineering Section

gbp

Attachments

cc: Charles Hunsicker
Terry Ried
Dan Gray
Mark Ventriglia



MANATEE COUNTY GOVERNMENT

Public Works Department


March 16, 1988

Surface Water Permitting
Resource Regulation Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

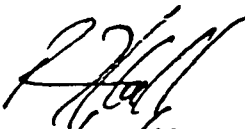
Re: Statement by Applicant Regarding As-built Statement of
Completion and On-Site Construction Inspection
Project Name: Lena Road Landfill, County: Manatee

To Whom it may concern:

In compliance with Rules 40D-4.351, 40D-4.381(2)(d) and 40D-4.091, Part B, Section 3.1.7, the undersigned Owner/Applicant or Authorized Agent* understands that within 30 days after completion of construction of a permitted Surface Water Management System and prior issuance of the operation authorization or any transfer of Operation and Maintenance responsibility, the Owner or Authorized Agent and Engineer must submit to the District, the Statement of Completion in the form provided and certified as-built drawings to verify that the system was constructed as permitted. Therefore, the undersigned agrees to retain the design Engineer of Record, or other Professional Engineer registered in Florida as named below, to supervise on-site observations of construction and assist with the Statement of Completion and as-built certification requirements for this project.


Signature of the Owner/Applicant
or Authorized Agent*

Richard A. Wilford, Director
Typed Name and Title


3/16/88
Robert T. Hall, P.E.
Engineer's Name (Typed)
Florida Reg. No. 27417

Lena Road Landfill
Manatee County
March 16, 1988
Page 2

Manatee County Public Works

6615 Cortez Rd. W.
Address

Bradenton, FL 34207

Phone: (813) 792-8811

Manatee County Public Works
Company Name

315 75th St. W.
Company Address

Bradenton, FL 34209

Phone: (813) 794-1939

*Attach a letter of authorization, except for corporate officers.



MANATEE COUNTY GOVERNMENT

Public Works Department

March 16, 1988

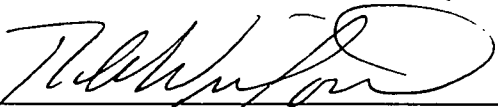
Surface Water Permitting
Resource Regulation Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

Re: Statement by Applicant/Property Owners Intending to Retain
Whole Ownership of Their Permitted Project Regarding
Operation and Maintenance Responsibility
Project Name: Lena Road Landfill, County: Manatee

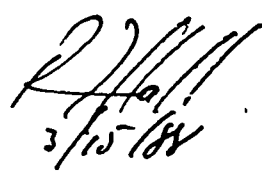
To Whom it may concern:

In compliance with Rule 40D-4.091, Part B, Section 3.1.6, the undersigned Property Owner or Authorized Agent* states that the property referenced in the permit application is wholly owned by the applicant/permittee and ownership is intended to be retained; or otherwise, ownership of the property is to be retained by the application/permittee and either leased or rented to third parties. The undersigned applicant further agrees to operate and maintain the Surface Water Management System for the above-named project in compliance with any permit issued and the provisions of Chapter 40D-4, F.A.C..

Responsibility for operation and maintenance may be transferred to another entity upon written notice to the District, from the undersigned and from the entity responsible, certifying that the transfer of responsibility for operation and maintenance in compliance with Rule 40D-4.351 has been accepted.


Signature of the Owner/Applicant
or Authorized Agent*

Richard A. Wilford, Director
Typed Name and Title


Robert T. Hall, P.E.
Engineer's Name (Typed)

Florida Reg. No. 27417

Lena Road Landfill
Manatee County
March 16, 1988
Page 2

Manatee County Public Works

6615 Cortez Rd. W.
Address

Bradenton, FL 34207

Phone: (813) 792-8811

Manatee County Public Works
Company Name

315 75th St. W.

Company Address

Bradenton, FL 34209

Phone: (813) 794-1939

*Attach a letter of authorization, except for corporate officers.

APPLICATION TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
SURFACE WATER MANAGEMENT PERMIT

TO: SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 Broad Street
Brooksville, Florida 34609-6899
Telephone: (904) 796-7211

(For Use By SWFWMD Only)
Date Rec'd: _____
App. No.: _____

GENERAL INSTRUCTIONS: Please provide complete information below. Attach additional information if necessary. A processing fee of \$10.00 is required with this application. Please submit four (4) copies of application, drawings, calculations, etc. Note: Project may also require State or Federal permits.

Please check appropriate box.

APPLICATION FOR: () CONCEPTUAL APPROVAL PERMIT
(X) CONSTRUCTION/~~CONSTRUCTION PERMIT~~
() MODIFICATION OF EXISTING PERMIT, NO.: _____

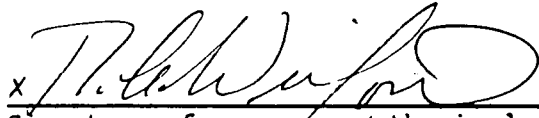
Owner(s) of land upon which surface water management system will be constructed/operated:

NAME: Manatee County Public Works Dept.

ADDRESS: 315 75th St. W.

Bradenton, FL 34209

TELEPHONE: (813) 794-1939


Signature of owner or authorized agent

Description of Land: Total Land Area (acres): 7.60 Acres

County: Manatee

Section: 1 Township: 35 Range: 18

Person who prepared the plans and specifications of construction:

Name: Manatee County Public Works Department (Engineering Section)

Address: 315 75th St. W.

Bradenton, FL 34209

Telephone: (813) 794-1939

Construction Plans and Specifications: Submit drawings, calculations and engineering details sufficient to define the nature, scope, intent and functioning of work proposed. Reference Rule 40D-4/40D-40.

Person who will construct the proposed work:

Name: Project to be advertised for competitive bid,

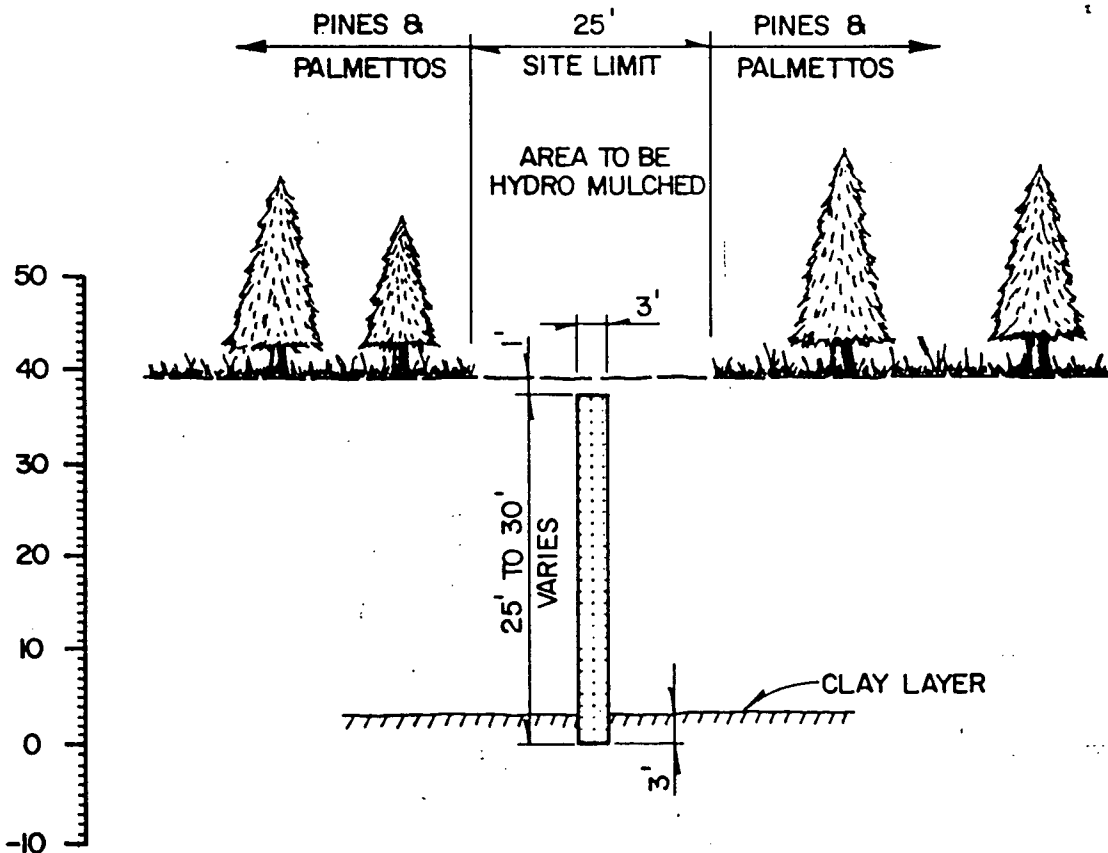
Address: _____

Telephone: ()

General purpose of proposed work:

Project Name: Lena Road Landfill Slurry Wall

Project Size (acres): 7.60 Acres Zoning: A-1
(if different from total land area)



NOTE: SLURRY WALL TO BE KEYED
MIN. 3' INTO CLAY LAYER

SECTION "A"—"A"

VIEW THROUGH TYPICAL SLURRY WALL

SCALE: 1" = 20'

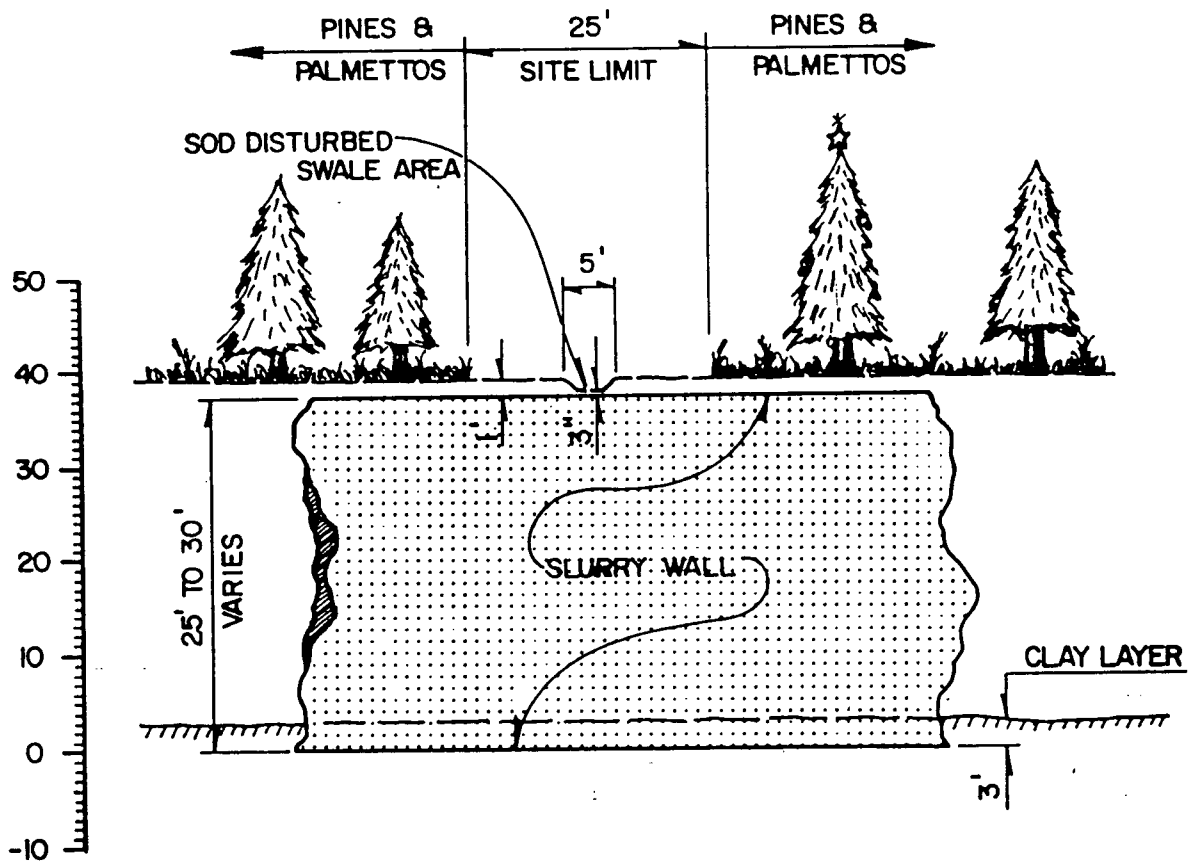


27/6/11
3/15/11

**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

REV BY DATE

SHEET 1 OF 3



NOTE: SLURRY WALL TO BE KEYED
MIN. 3' INTO CLAY LAYER.

SECTION "B"—"B"

VIEW THROUGH TYPICAL
SLURRY WALL UNDER SWALE

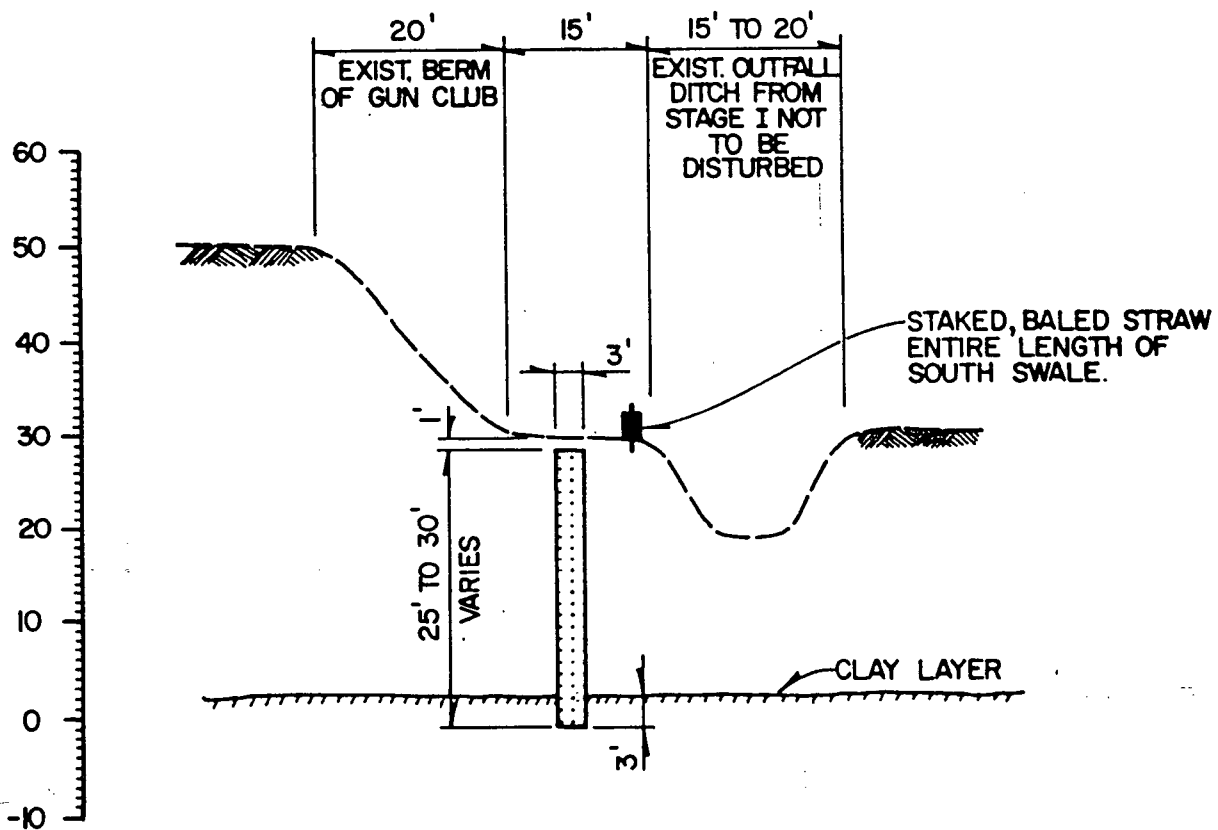
SCALE: 1" = 20'



R. Hall
3/15/17

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV BY DATE



NOTE: SLURRY WALL TO BE KEYED MIN. 3' INTO CLAY LAYER

SECTION "C"—"C"

VIEW THROUGH TYPICAL SLURRY WALL (SOUTH WALL OF STAGE III)

SCALE: 1" = 20'

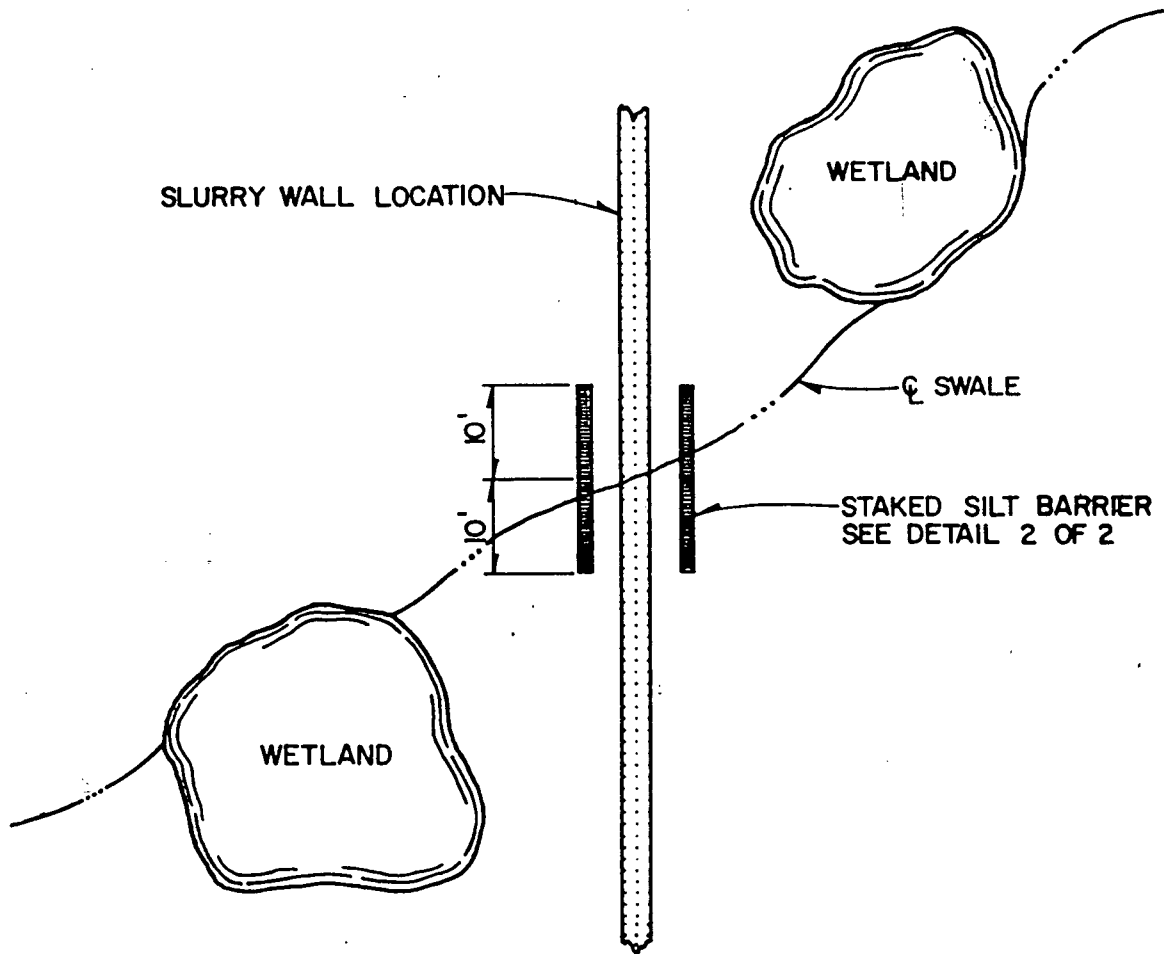


27/11
3/15/11

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV. BY DATE

SHEET 3 OF 3



NOTE: DRAWING NOT TO SCALE.

PLAN VIEW OF AREAS THAT
REQUIRE BALED HAY OR STRAW

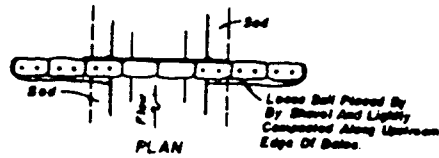
27/6/11
3/15/12

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV BY DATE

dup 81

SHEET 1 OF 2

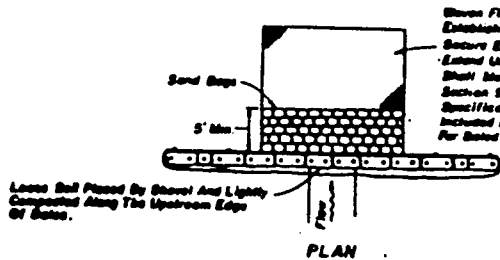


Anchor Bales With 2-2"x2"x4' Stakes Per Bale.

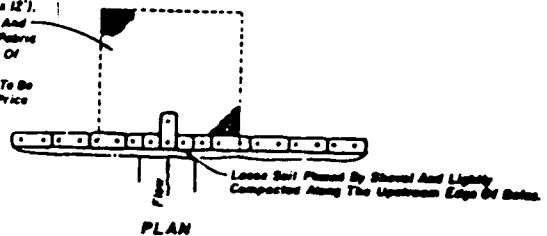


Sealing: Bole barriers for paved ditches should be sealed in accordance with Chart I, Sheet 1 of 3, Index No. 102.

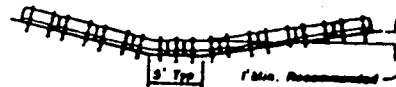
BARRIER FOR PAVED DITCH



When Filter Fabric In Absence Of Established Grass (Approx. 12" x 12"), Secure Edges By Entrenching And Extend Under Bags And Bales. Fabric Shall Meet The Requirements Of Section 905 Of The Standard Specifications. Cost Of Fabric To Be Included In The Contract Unit Price For Bales Hay Or Straw, TN.



Anchor Lower Bales With 2-2"x2"x4' Stakes Per Bale.
Anchor Top Bales With 2-2"x2"x4' Stakes Per Bale.



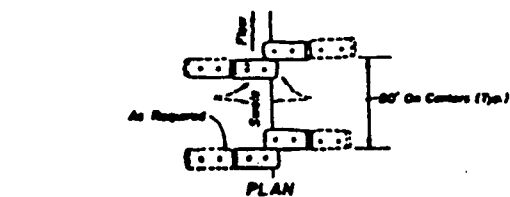
Anchor Bales With 2-2"x2"x4' Stakes Per Bale

TYPE II

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102.

TYPE I

BARRIER FOR UNPAVED DITCHES



Anchor Bales With 2-2"x2"x4' Stakes Per Bale.



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



Loose Soil Placed By Shovel And Lighty Compacted Along The Upstream Edge Of Bales.



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF THE SLOPE

BARRIERS FOR FILL SLOPES

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

REVIEW DATE	

SHEET 2 OF 2

BALED HAY OR STRAW BARRIERS AND SILT FENCES

REVIEW DATE	REVIEWED BY	APPROVED BY

P.W.D. Approved: 10/17/00

[Handwritten signature]
3/15/11



MANATEE COUNTY GOVERNMENT

Public Works Department

March 16, 1988

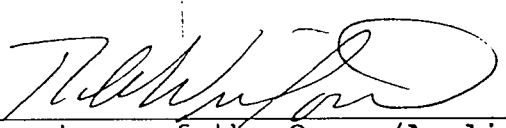
Surface Water Permitting
Resource Regulation Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

Re: Statement by Applicant/Property Owners Intending to Retain
Whole Ownership of Their Permitted Project Regarding
Operation and Maintenance Responsibility
Project Name: Lena Road Landfill, County: Manatee

To Whom it may concern:

In compliance with Rule 40D-4.091, Part B, Section 3.1.6, the undersigned Property Owner or Authorized Agent* states that the property referenced in the permit application is wholly owned by the applicant/permittee and ownership is intended to be retained; or otherwise, ownership of the property is to be retained by the application/permittee and either leased or rented to third parties. The undersigned applicant further agrees to operate and maintain the Surface Water Management System for the above-named project in compliance with any permit issued and the provisions of Chapter 40D-4, F.A.C..

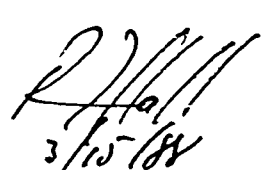
Responsibility for operation and maintenance may be transferred to another entity upon written notice to the District, from the undersigned and from the entity responsible, certifying that the transfer of responsibility for operation and maintenance in compliance with Rule 40D-4.351 has been accepted.



Signature of the Owner/Applicant
or Authorized Agent*

Richard A. Wilford, Director

Typed Name and Title



Robert T. Hall, P.E.
Engineer's Name (Typed)

Florida Reg. No. 27417

Lena Road Landfill
Manatee County
March 16, 1988
Page 2

Manatee County Public Works

6615 Cortez Rd. W.
Address

Bradenton, FL 34207

Phone: (813) 792-8811

Manatee County Public Works
Company Name

315 75th St. W.
Company Address

Bradenton, FL 34209

Phone: (813) 794-1939

*Attach a letter of authorization, except for corporate officers.

APPLICATION TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
SURFACE WATER MANAGEMENT PERMIT

TO: SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 Broad Street
Brooksville, Florida 34609-6899
Telephone: (904) 796-7211

(For Use By SWFWMD Only)
Date Rec'd: _____
App. No.: _____

GENERAL INSTRUCTIONS: Please provide complete information below. Attach additional information if necessary. A processing fee of \$10.00 is required with this application. Please submit four (4) copies of application, drawings, calculations, etc.
Note: Project may also require State or Federal permits.

Please check appropriate box.

APPLICATION FOR: () CONCEPTUAL APPROVAL PERMIT
(X) CONSTRUCTION/~~CONSTRUCTION/RECONSTRUCTION~~
() MODIFICATION OF EXISTING PERMIT, NO.: _____

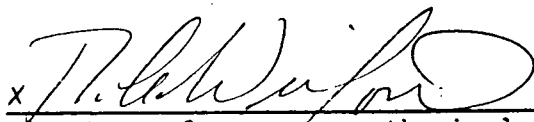
Owner(s) of land upon which surface water management system will be constructed/
operated:

NAME: Manatee County Public Works Dept.

ADDRESS: 315 75th St. W.

Bradenton, FL 34209

TELEPHONE: (813) 794-1939


Signature of owner or authorized agent

Description of Land: Total Land Area (acres): 7.60 Acres
County: Manatee
Section: 1 Township: 35 Range: 18

Person who prepared the plans and specifications of construction:

Name: Manatee County Public Works Department (Engineering Section)

Address: 315 75th St. W.

Bradenton, FL 34209

Telephone: (813) 794-1939

Construction Plans and Specifications: Submit drawings, calculations and engineering details sufficient to define the nature, scope, intent and functioning of work proposed. Reference Rule 40D-4/40D-40.

Person who will construct the proposed work:

Name: Project to be advertised for competitive bid.

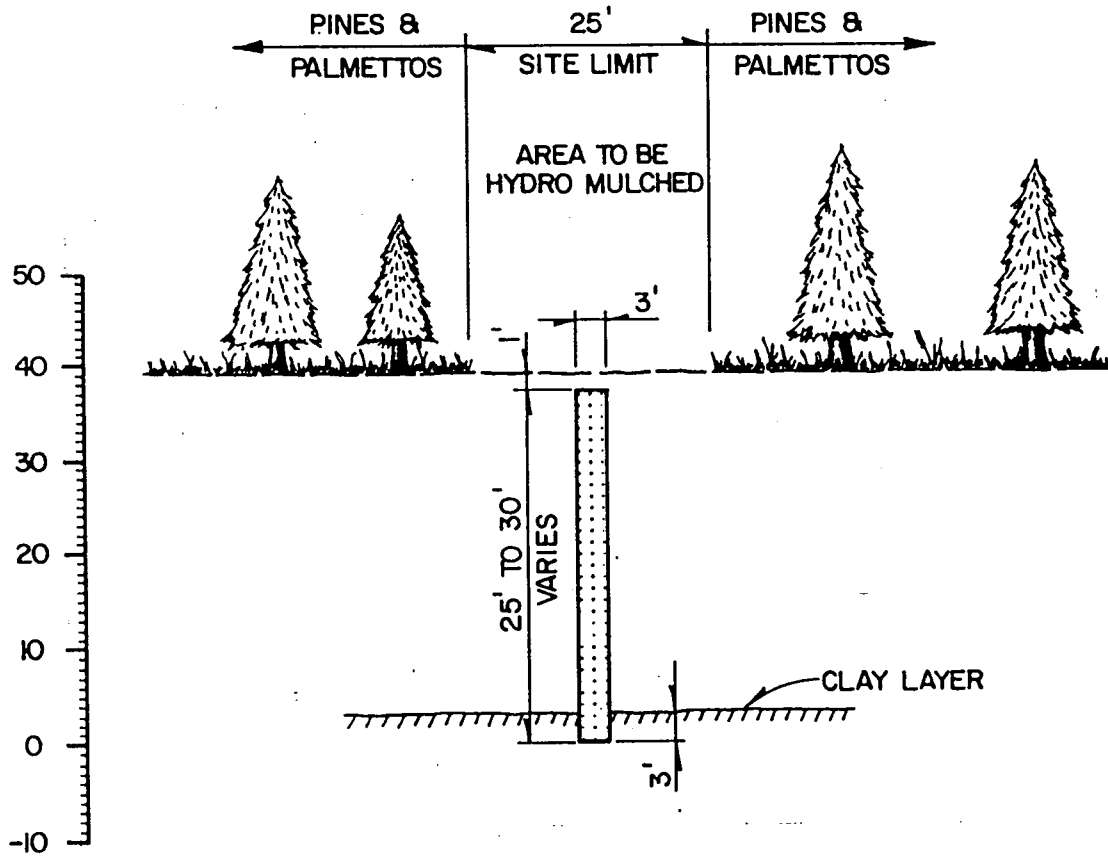
Address: _____

Telephone: ()

General purpose of proposed work:

Project Name: Lena Road Landfill Slurry Wall

Project Size (acres): 7.60 Acres Zoning: A-1
(if different from total land area)



NOTE: SLURRY WALL TO BE KEYED
MIN. 3' INTO CLAY LAYER

SECTION "A"—"A"

VIEW THROUGH TYPICAL SLURRY WALL

SCALE: 1" = 20'



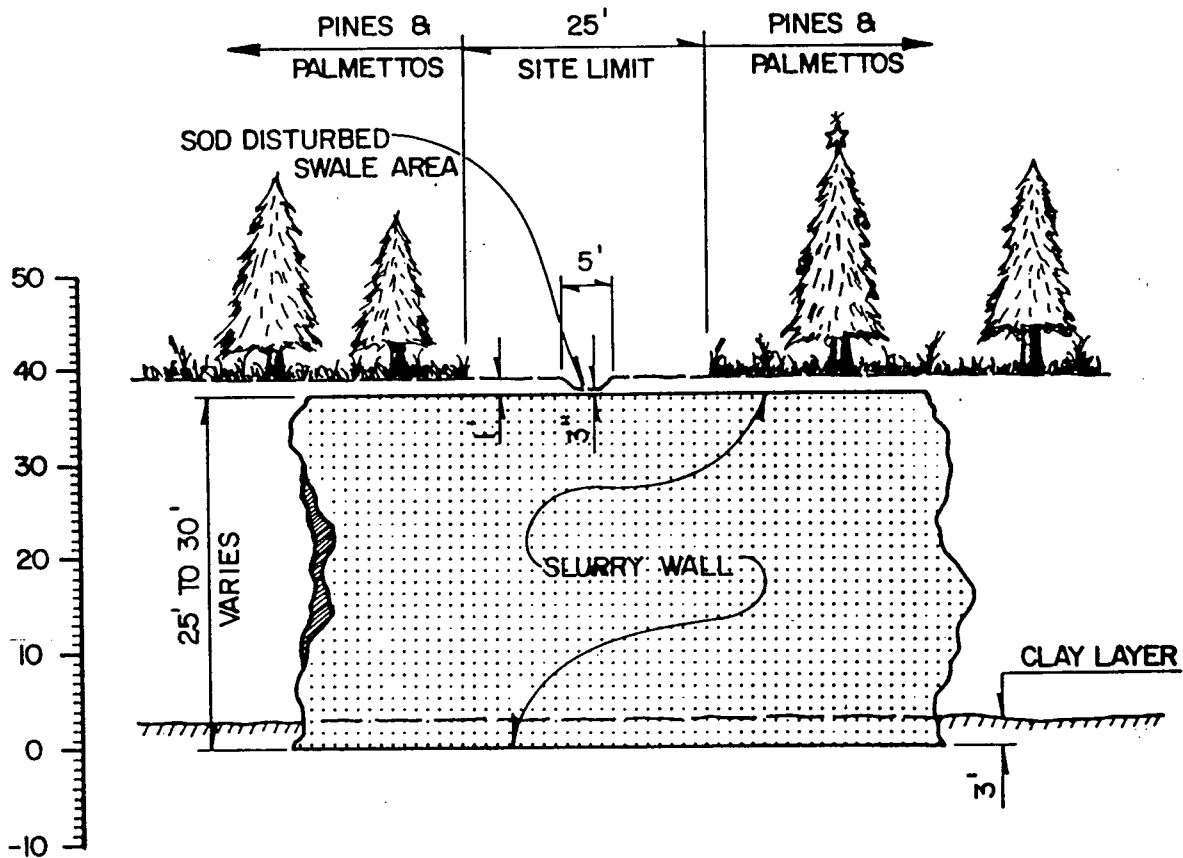
27/6/11
3/15/18

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV BY DATE

4/10/18

SHEET 1 OF 3



NOTE: SLURRY WALL TO BE KEYED
MIN. 3' INTO CLAY LAYER.

SECTION "B"—"B"

VIEW THROUGH TYPICAL
SLURRY WALL UNDER SWALE

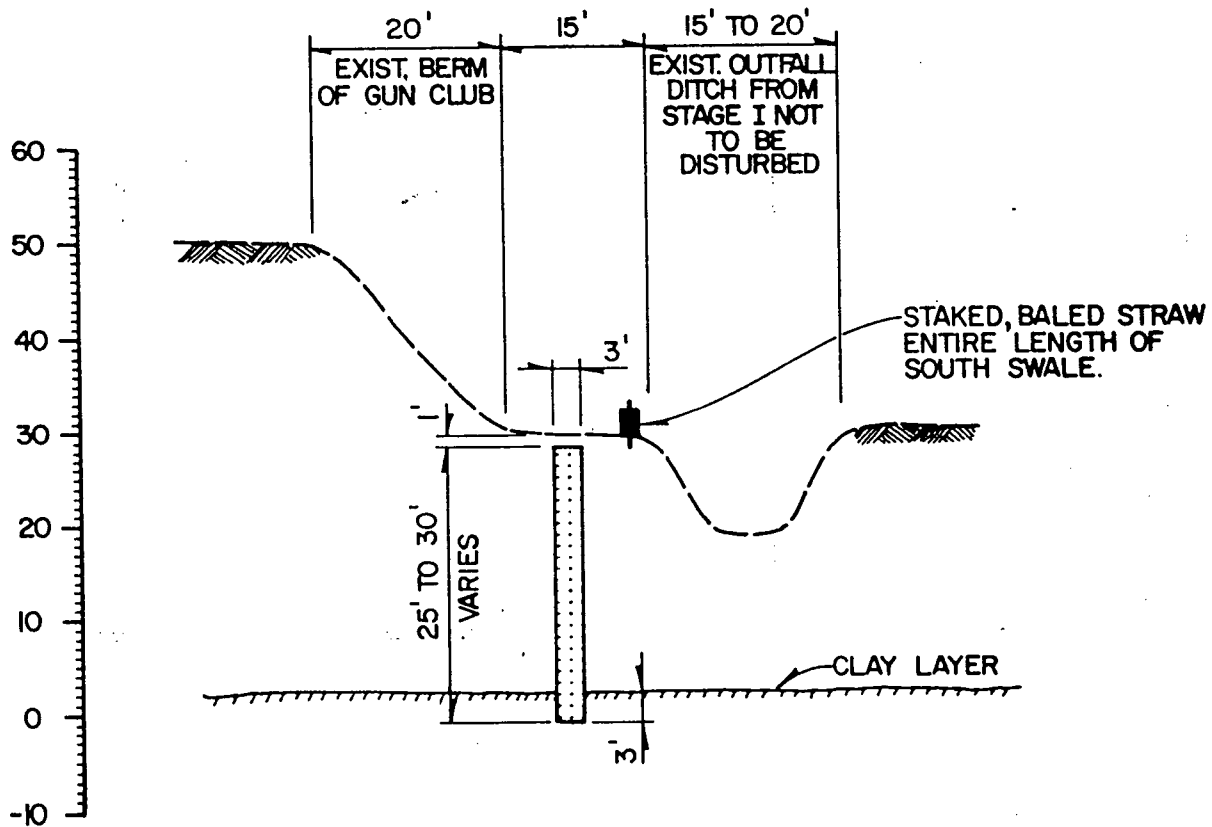
SCALE: 1"=20'



R. Hall
3/15/07

**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

REV BY DATE



NOTE: SLURRY WALL TO BE KEYED
MIN. 3' INTO CLAY LAYER

SECTION "C"—"C"

VIEW THROUGH TYPICAL SLURRY
WALL (SOUTH WALL OF STAGE III)

SCALE: 1" = 20'

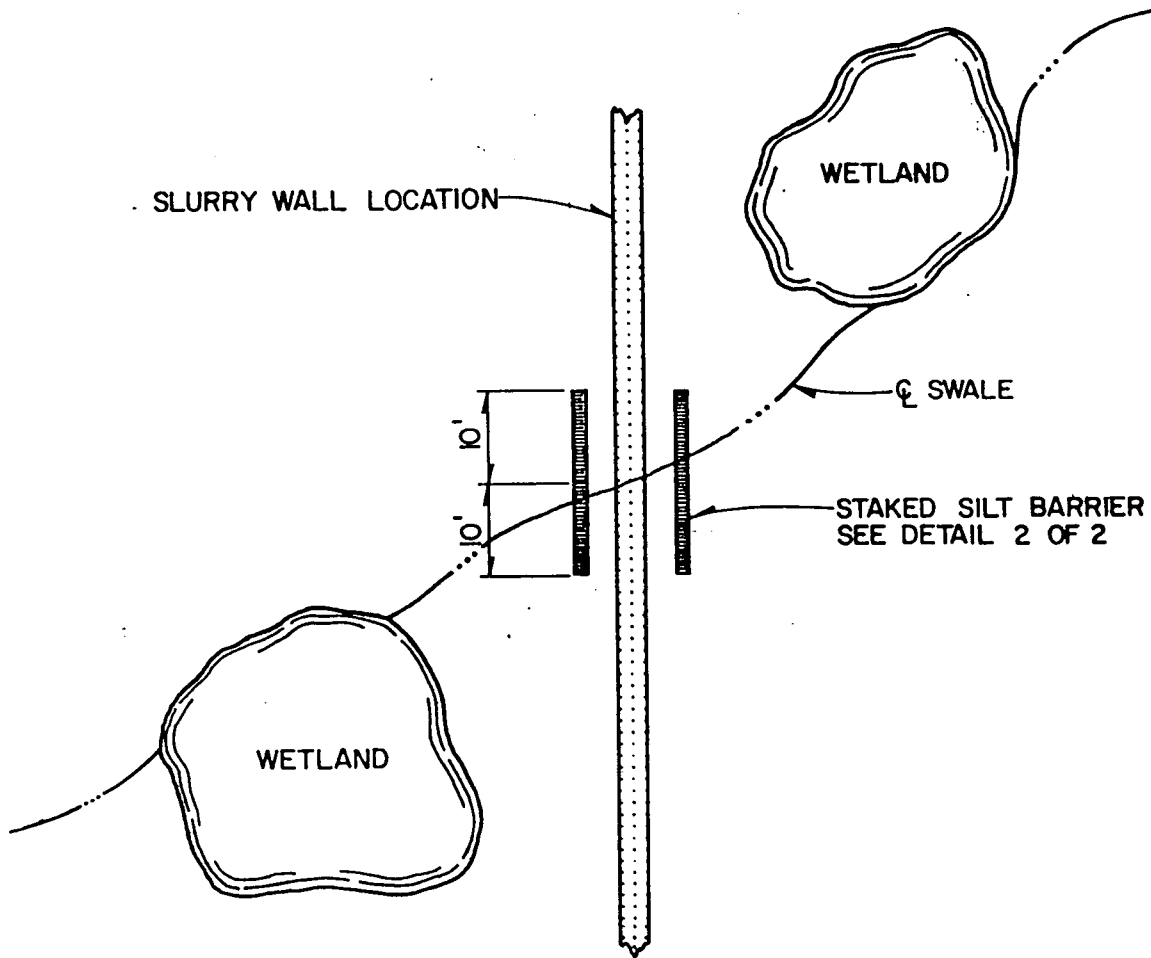


27/11/11
3/15/11

**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

REV BY DATE

SHEET 3 OF 3



NOTE: DRAWING NOT TO SCALE.

PLAN VIEW OF AREAS THAT
REQUIRE BALED HAY OR STRAW

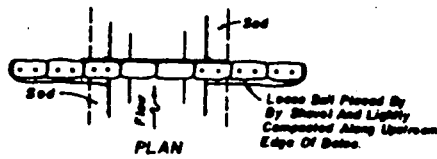
27/6/11
3/15/88

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV BY DATE

SHEET 1 OF 2

dlp 81

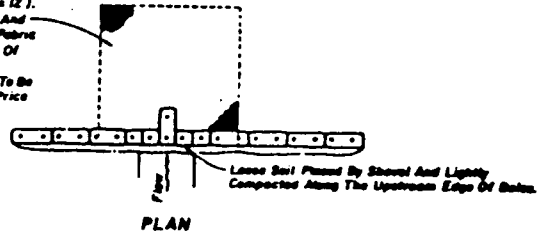
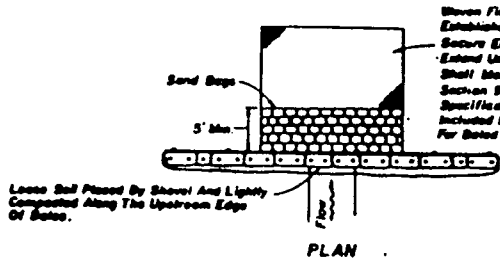


Anchor Bales With 2-2"x2"x4' Stakes Per Bale.

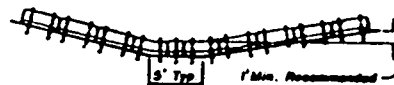


ELEVATION
Spacing: Bale barriers for paved ditches should be spaced in accordance with Chart I, Sheet 1 of 3, Index No. 102.

BARRIER FOR PAVED DITCH



Anchor Lower Bales With 2-2"x2"x4' Stakes Per Bale.
Anchor Top Bales To Lower Bales With 2-2"x2"x4' Stakes Per Bale.



Anchor Bales With 2-2"x2"x4' Stakes Per Bale.

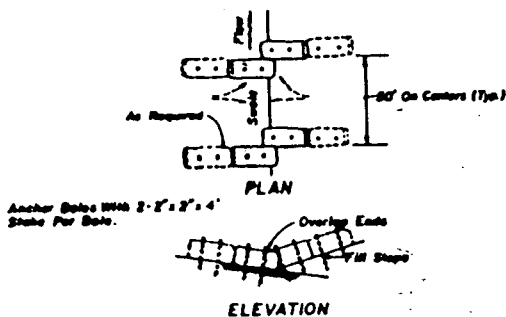
ELEVATION

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102.

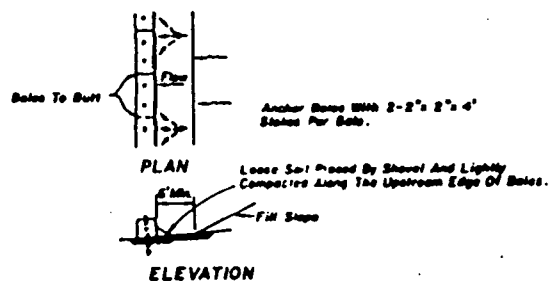
TYPE II

TYPE I

BARRIER FOR UNPAVED DITCHES



TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF THE SLOPE

BARRIERS FOR FILL SLOPES

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

BALED HAY OR STRAW BARRIERS
AND SILT FENCES

REV	DATE

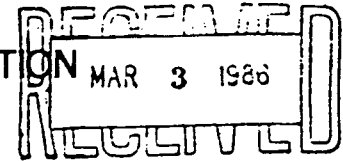
SHEET 2 OF 2

Designed By	Checked By	Approved By
Drawn By		
Installed By		
F.H.W.B. Approved: 10/7/00		

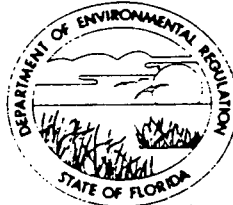
[Handwritten signature]
3/5/04

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

PUBLIC UTILITIES DEPT.
BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARYDR. RICHARD D. GARRITY
DISTRICT MANAGER

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610813-985-7402
SunCom - 570-8000

February 27, 1986

NOTICE OF PERMIT

Richard A. Wilford, Director
Manatee County Public Utilities Department
Caller Service 25010
Bradenton, FL 33506

Re: Manatee County
SC41-095667
Lena Road Landfill-Stage III

Dear Mr. Wilford:

Enclosed is Permit Number SC41-095667 to construct a Class I landfill, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition for an administrative determination of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32301, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Andrew S. Berry
Andrew S. Berry
Environmental Specialist

ASB/lgb

cc: Gardner Strasser, DER-Tampa
John Reese, DER-Tallahassee
Rodney DeHan, DER-Tallahassee
William Priesmeyer, Manatee County
John Cummings, Briley, Wild & Associates, Inc.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/28/86 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(10), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Linda Bratton 2/28/86
Clerk Date

RULES OF THE ADMINISTRATION COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a 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, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (g) Other information which the petitioner contends is material.

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201 (3) (a), FAC).

**Administrative Hearing: Right of Right
to Administrative Proceeding.**

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action may file a petition for administrative proceeding. A petition shall be in the form required by this Chapter and Chapter 28-5, FAC, and shall be filed (received) in the Office of General Counsel of the Department within fourteen (14) days of receipt of notice of proposed agency action or within fourteen (14) days of receipt of notice of

agency action whenever there is no public notice of proposed agency action. In addition to the requirements of Rule 28-5.201, FAC, the Petition must specify the county in which the project is or will be located.

(b) Failure to file a petition within fourteen (14) days of receipt of notice of agency action or fourteen (14) days of receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver of any right to request an administrative proceeding under Chapter 120, F.S.

(c) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 17-103.150, FAC, a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inquiry within fourteen (14) days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 17-103.150, FAC. Failure of the person to make inquiry with the Department within fourteen (14) days after obtaining such knowledge may estop the person from obtaining an administrative proceeding on the agency action.

agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(3) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal should be limited to:

(a) the application, and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit.

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

(4) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.

(5) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by

the applicant of the Department's notification, pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S. Law

Implemented: 120.53, F.S.

History: New 9-20-79, Amended 4-28-81, Transferred from 17-1.62 and Amended 6-1-84.

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

RECEIVED
ENVIRONMENTAL SERVICES
& PERMITTING, INC.
DEC 14 1987
FILE 263-87-01
ROUTE

Protecting Florida and Your Quality of Life

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this Notice of Permit and all copies were mailed before the close of business on the 11th day of December, 1987, to the listed persons.

Clerk Stamp

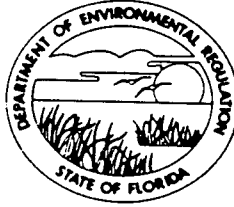
FILING AND ACKNOWLEDGEMENT

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

Patricia Gray 12-11-87
Clerk Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

PERMITTEE:

Manatee County Public Utilities
c/o Environmental Services
& Permitting, Inc.
Post Office Box 5489
Gainesville, Florida 32602

Permit Number: 411352349
Date of Issue: December 10, 1987
Expiration Date: December 10, 1992
County: Manatee
Project: Dredge, Fill,
Stormwater, 5 years

This permit is issued under the provisions of Chapter 403, Florida Statutes, Public Law 92-500, and Florida Administrative Code Rules 17-12 and 17-25. 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 expand an existing landfill facility with an additional 143 acre unit by: dredging 408,000 cu. yds. of material from 31.6 ac. of wetlands and depositing 1,600,000 cu. yds. of material in the wetlands over the life of the landfill; constructing a stormwater treatment system; creating 36.2 ac. of herbaceous wetland; rerouting a ditch by excavating 340 cu. yds. of material.

LOCATION:

Bradenton, Manatee County, Section 31, Township 34 South, Range 19 East, not in an aquatic preserve, Class III waters.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
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), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute 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 the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement 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, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, 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.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

a. Having access to and copying any records that must be kept under the conditions of the permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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 notify and provide the department with the following information:

a. a description of and cause of non-compliance; and
b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

GENERAL CONDITIONS:

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

GENERAL CONDITIONS:

b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- 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 that 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 submitted or corrected promptly.

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 Natural Resources 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 16Q-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.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

SPECIFIC CONDITIONS:

2. If historical or archeological 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 Archives, History and Records Management, R. A. Gray Building, Tallahassee, Florida 32301.

3. A stormwater treatment system plan in accordance with the criteria of Florida Administrative Code Rule 17-25 shall be submitted to the Bureau of Permitting in Tallahassee for review. Written approval of the plan from the Bureau of Permitting must be received prior to beginning any dredge and fill activity authorized by this permit.

4. Erosion control measures, such as staked hay bales, shall be utilized during the construction of the berm/roadway and the stormwater ditch.

5. The wetland creation area of 36.2 ac. shall be constructed in the following manner: the uplands shall be scraped to the elevations shown in Fig. 8 of this permit. The muck material, including seeds and plant fragments, from the donor areas on-site (the wetlands to be filled) shall be transferred to the area and disked into the soil to serve as an inoculum. The donor areas shall be identified and approved by a field biologist from the Tampa district office prior to use in order to avoid transfer of undesirable plant species. If the muck material is not transferred directly from the fill site to the mitigation site, then it shall be stockpiled for no longer than one week before applying to the mitigation site.

6. The mitigation area shall be surveyed after grading and a topographic map, showing one ft. intervals and signed by a registered land surveyor, shall be submitted to the Bureau of Permitting in Tallahassee within 60 days of grading of the mitigation area.

7. Herbaceous wetland creation shall be considered successful when the following conditions are met:

- a. Plant cover in the created marsh is at least 80% and consists of wetland vegetation listed in Florida Administrative Code Rule 17-4.022, and;

Permittee: Manatee County Public Utilities
Permit Number: 411352349

SPECIFIC CONDITIONS:

b. Cattail, primrose willow and exotics are limited to 10% or less of the total cover. If these species exceed 10% of the total cover, their density must be declining over several years, which would be considered a positive indication that they are under control.

8. The permittee recognizes that it has a continuing obligation to continue monitoring the creation project and to correct any unsuccessful creation attempts beyond the expiration date of the permit. If the creation project is not deemed to be successful six months prior to the permit expiration date, the permittee shall, prior to the permit expiration date, execute an agreement with the Department evidencing that obligation.

9. DER may release from permittee from further obligation and monitoring of the created wetlands after a visual evaluation, notwithstanding that the annual statistical reports required by the monitoring section of this permit indicate that the criteria in Specific Condition No. 7 are not being met. If the DER's field evaluation determines that the wetland creation has not been successful, the permittee may provide statistical reports other than those required by this permit (made at the permittee's expense) to show that the success criteria have been met.

MONITORING REQUIRED:

Semi-annual narrative reports shall be submitted to the Bureau of Permitting detailing the progress of this creation program. The reports shall include: photographs taken from the same permanent stations (some of which must be located along the vegetation transects), a description of problems encountered and solutions undertaken, and anticipated work for the following six months. The permittee shall furnish to the Bureau of Permitting and the Southwest District Office annual statistical reports of vegetational transects of the created wetlands done by the methodology of Daubenmire (1968), Oosting (1956), or any mutually agreed upon method. Reports shall describe the percent cover of herbaceous species listed in F.A.C. Rule 17-4.022 and the percent coverage of cattail, primrose willow and exotics. Data shall be taken during the summer growing season. Reports shall be submitted until a determination of a successful creation has been made. If the data indicate that the creation effort is not successful pursuant to Specific Condition No. 7 above, the applicant shall present methods and proposals to be reviewed and approved by the Department to ensure success of the creation effort.

Permittee: Manatee County Public Utilities
Permit Number: 411352349

Recommended by Constance Benson.

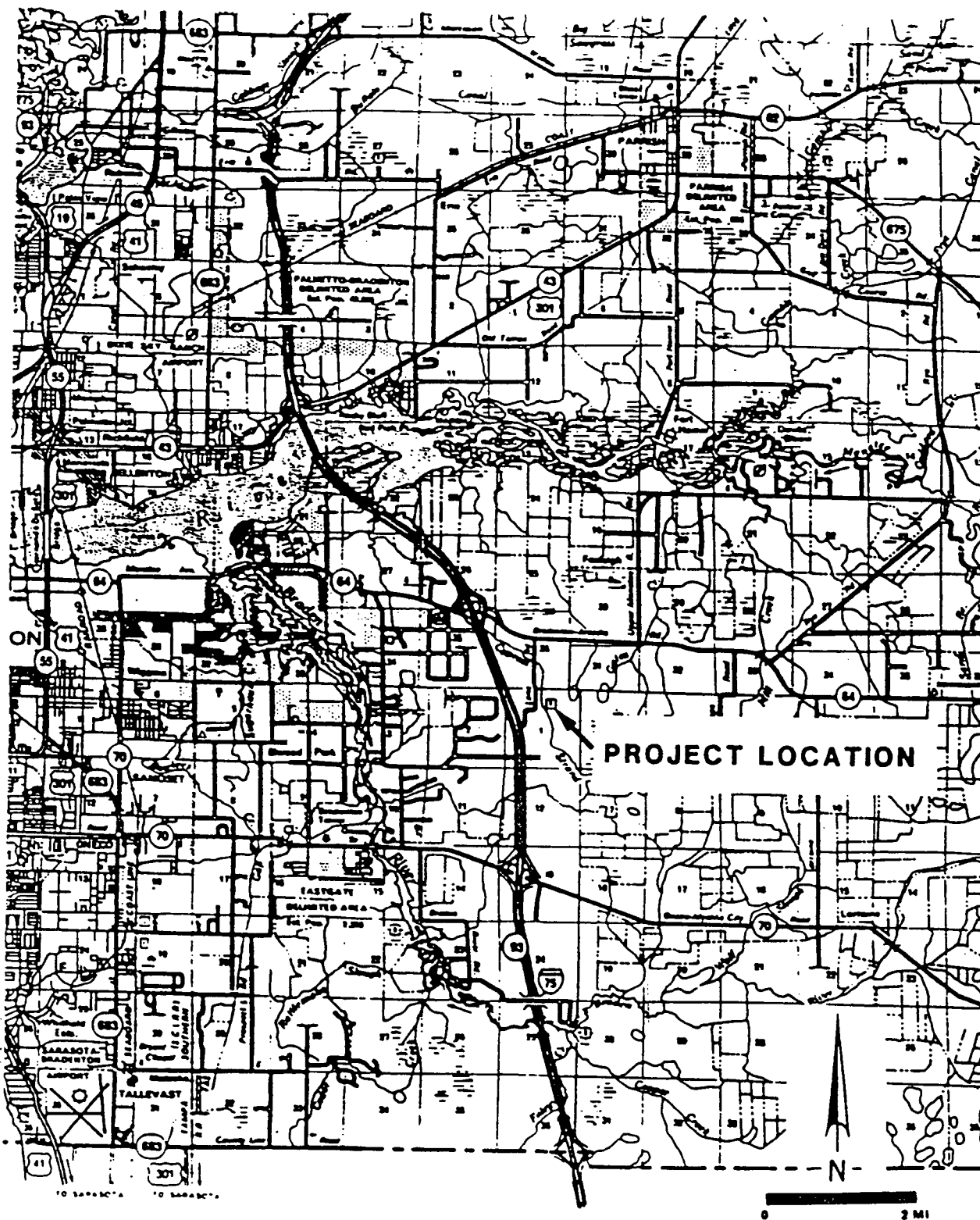
Issued this 10TH day of December 1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Dale Twachtman
For DALE TWACHTMANN, Secretary

___ pages attached.

PERMIT NO. 411352349



RECEIVED PERM

JUN 04 1987

FIGURE 1. PROJECT LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 5/87

TAKEN FROM FOOT ROAD MAP

John C. Cunningham

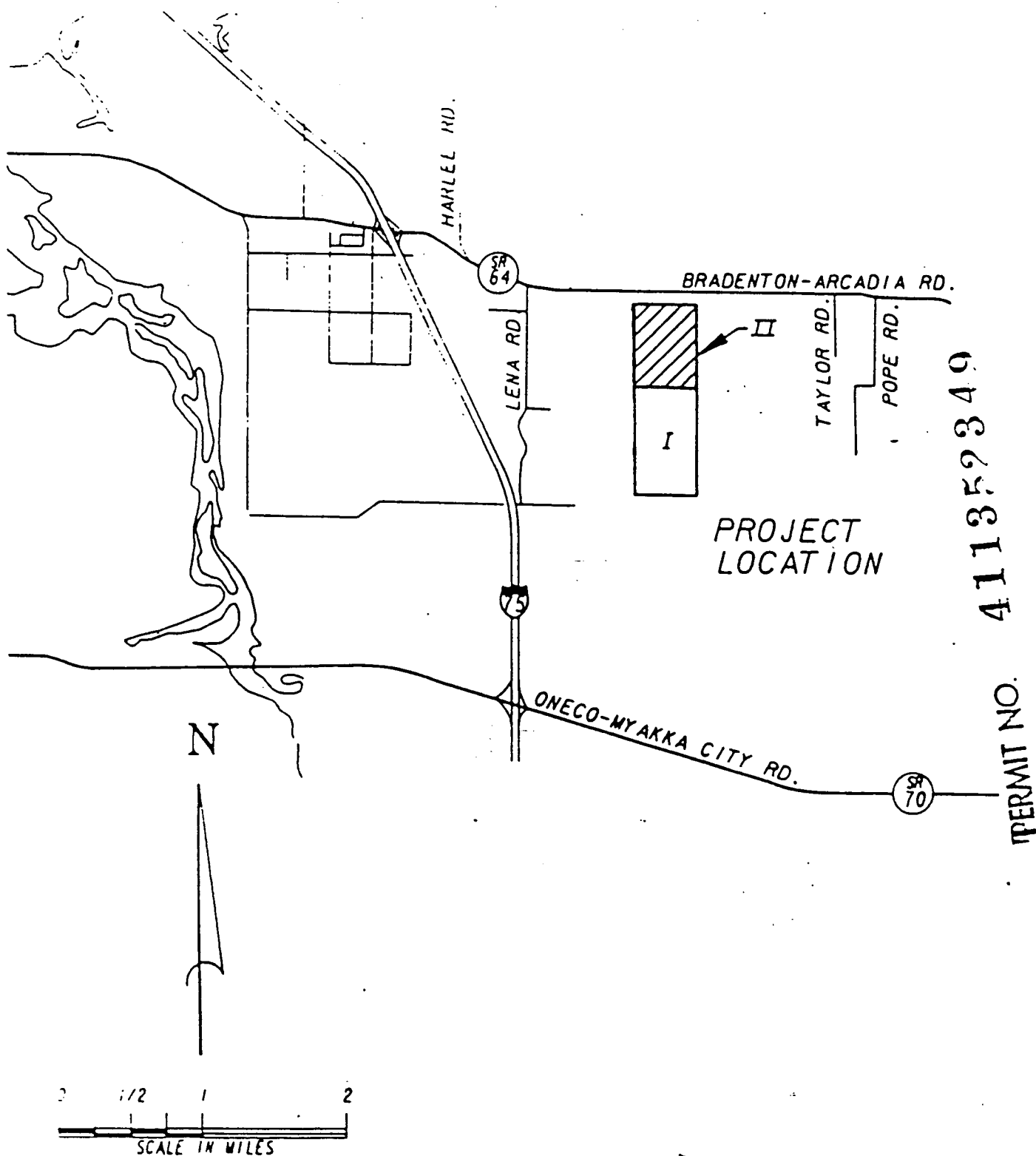


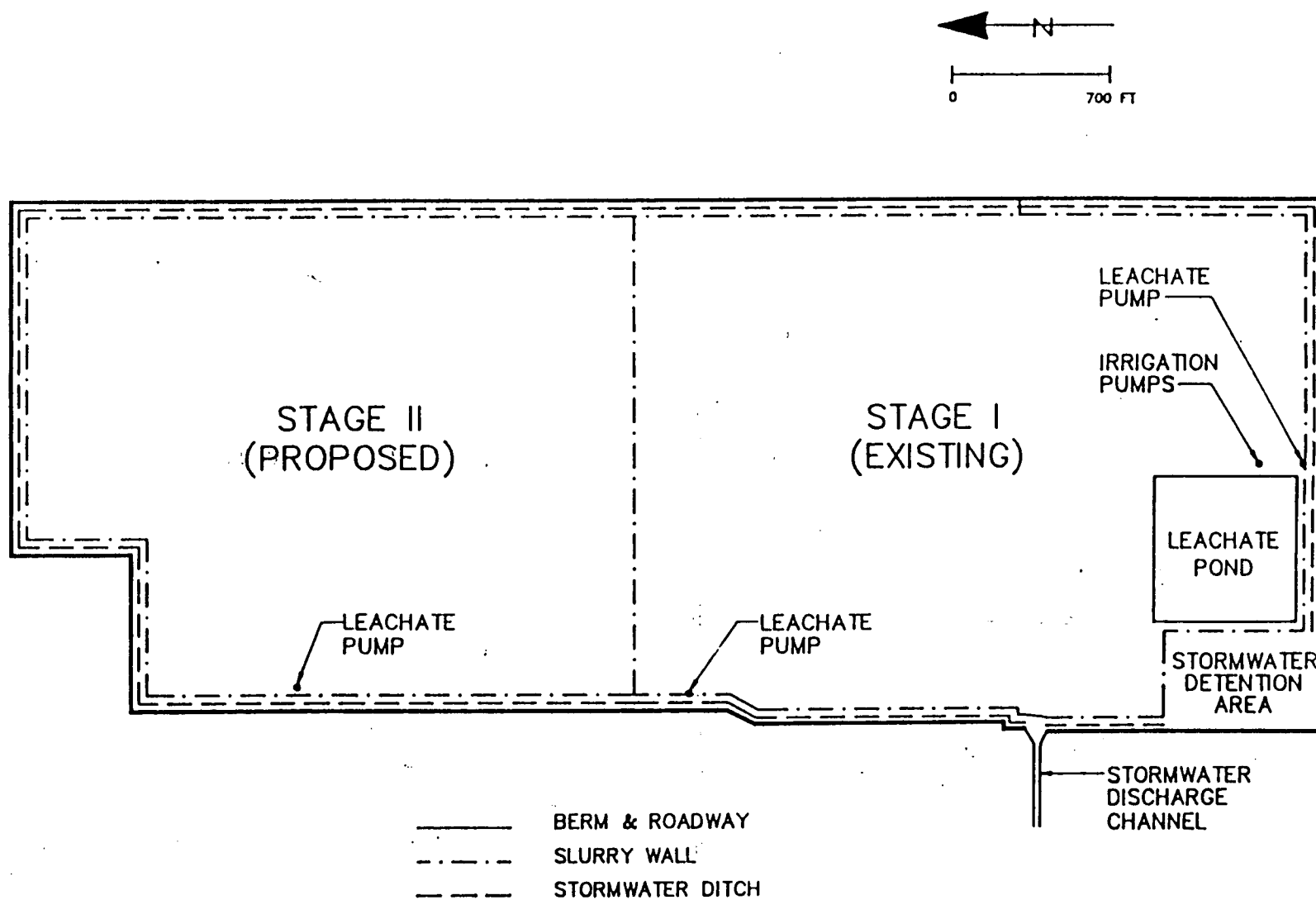
FIGURE 2. GENERAL LOCATION FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 5/87

RECEIVED PERM
JUN 04 1987

John W. Cunningham

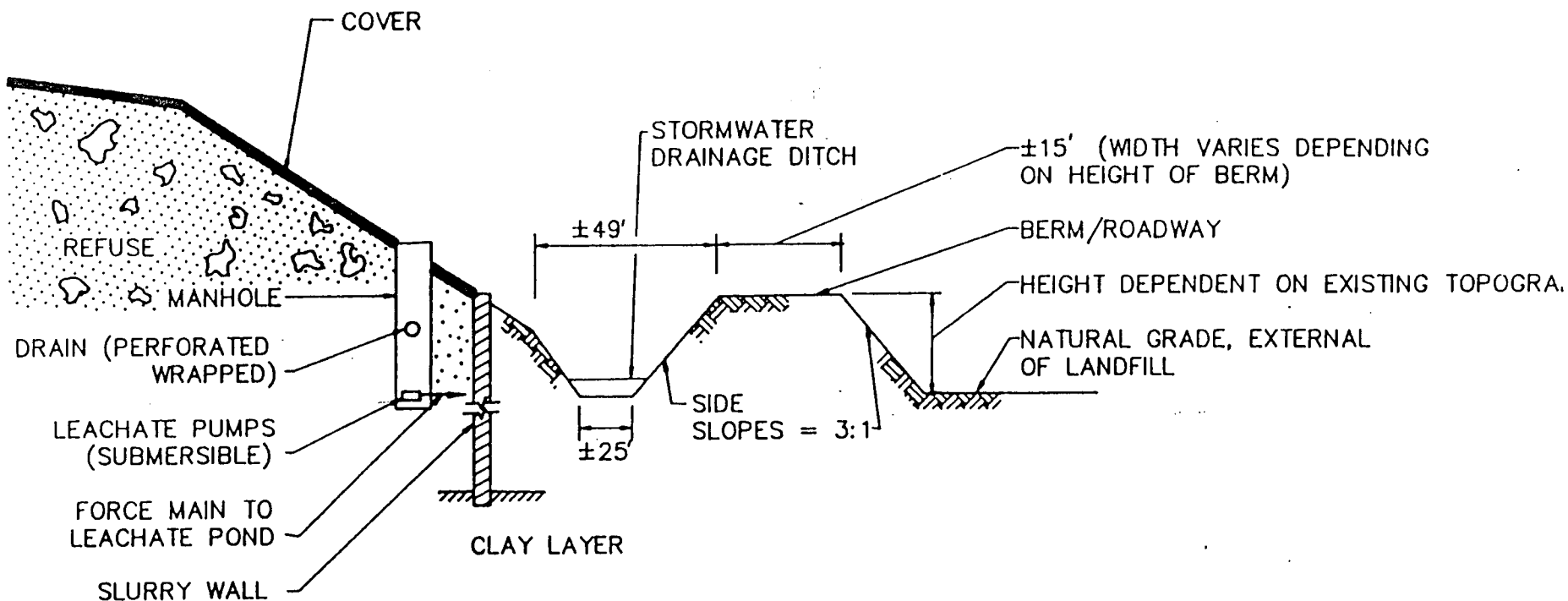
RECEIVED OCT 14 1987



PERMIT NO. 411352349

FIGURE 3. PLAN VIEW OF LENA ROAD LANDFILL, MANATEE COUNTY, FL.
PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

J. W. [Signature]



N.T.S.

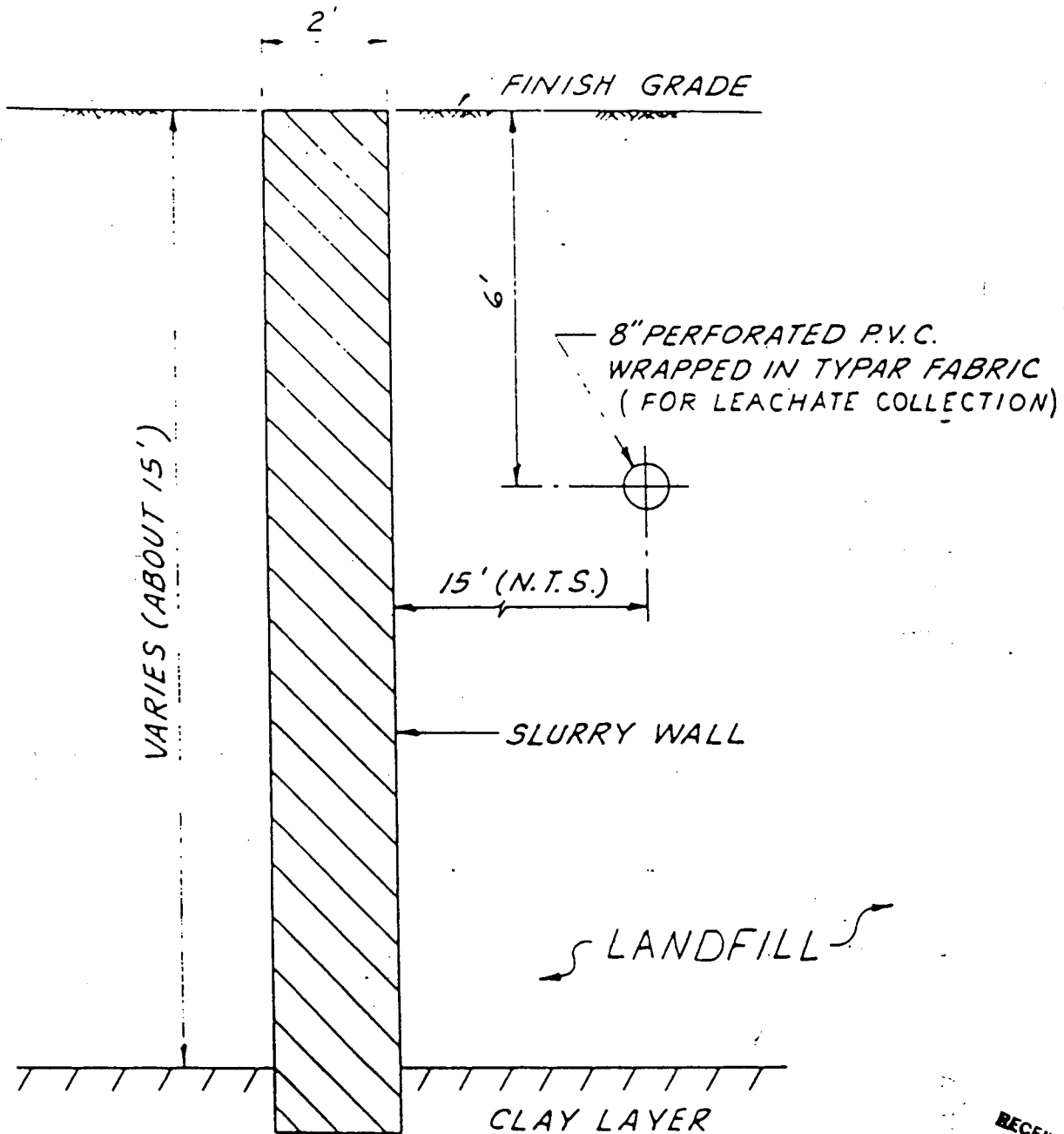
FIGURE 4. TYPICAL SECTION THROUGH EDGE OF LANDFILL SHOWING LEACHATE PUMP ARRANGEMENT

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 6/87

PERMIT NO. 411352349

John W. Lewis

RECEIVED
JUL 6 1987



SLURRY WALL DETAIL

SCALE: $\frac{3}{8}" = 1' - 0"$

PERMIT NO. 411352349

RECEIVED PERM
JUL 9 1987

FIGURE 5. TYPICAL DETAIL FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

John W. Lewis

RECEIVED OCT 14 1987

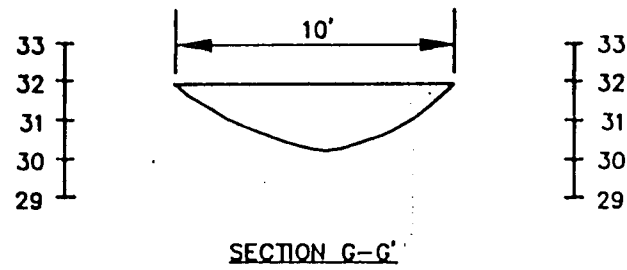
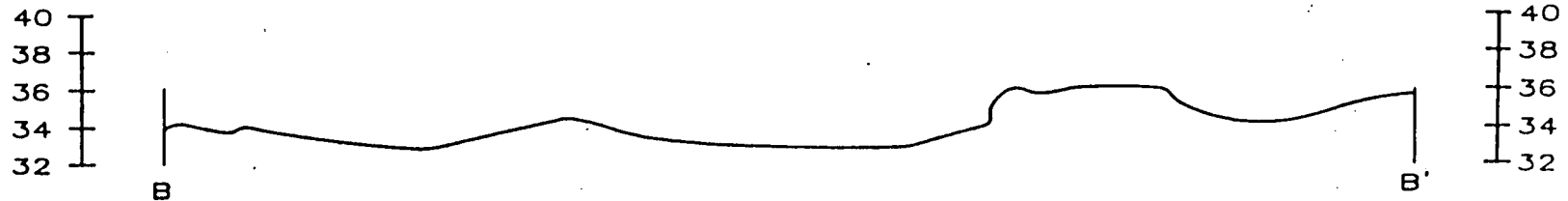


FIGURE 6B. CROSS SECTION OF REROUTED OUTFALL
DITCH FROM WETLAND #5 FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352349

John. Smith



NOTE:
ELEVATIONS IN N.G.V.D.
HORZ. SCALE: 1" = 500'
VERT. SCALE: 1" = 1'

SECTION B-B'

FIGURE 7. CROSS SECTION OF EXISTING TOPOGRAPHY FOR
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

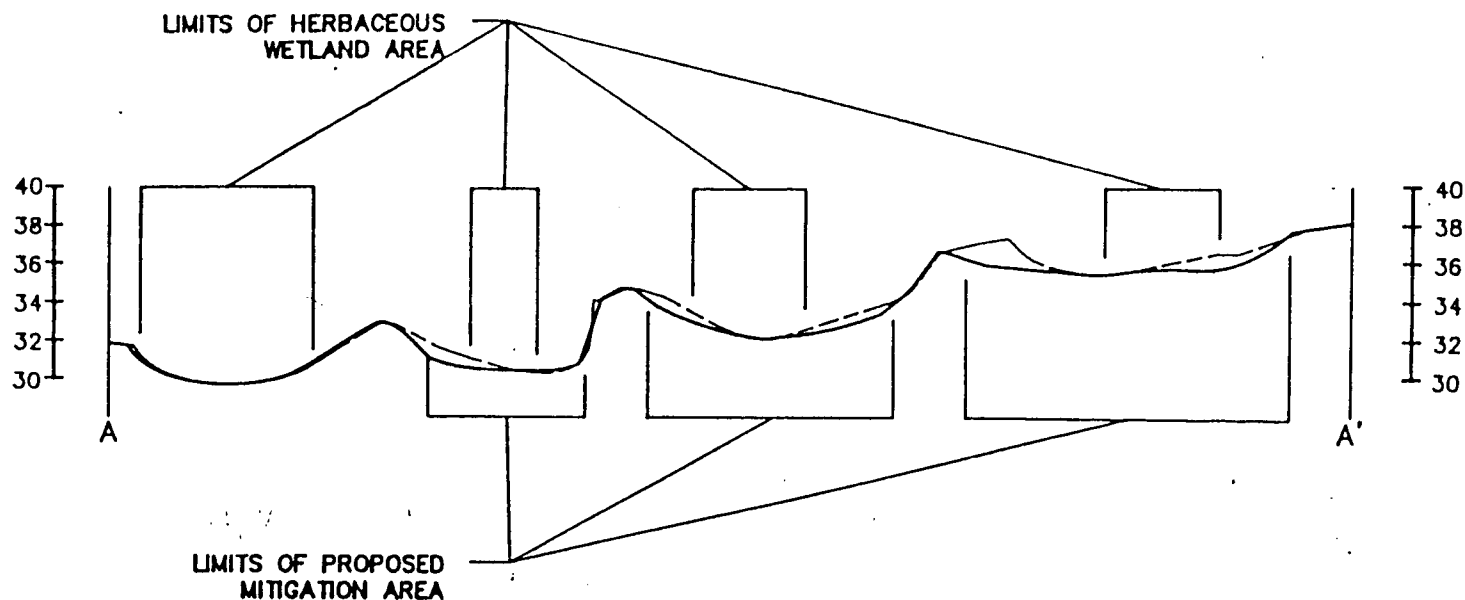
PERMIT NO 411859340

John W. Manning

RECEIVED OCT 14 1987

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 700'
 VERT. SCALE: 1" = 1'

SECTION A-A'

FIGURE 8. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED MITIGATION AREA FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

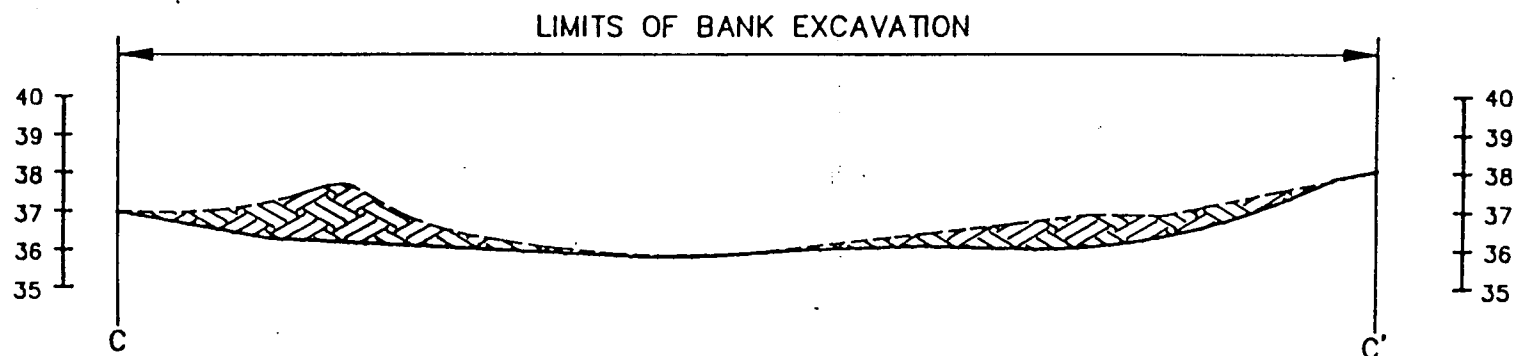
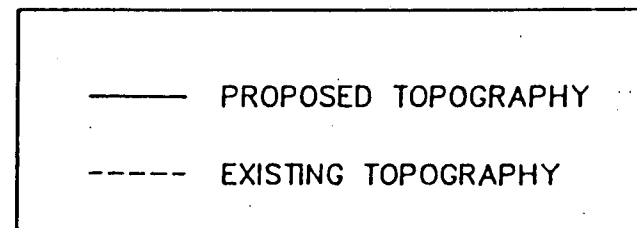
PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411359849

RECEIVED OCT 14 1987

Handwritten signature

LEGEND



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION C-C'

FIGURE 9. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #6 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

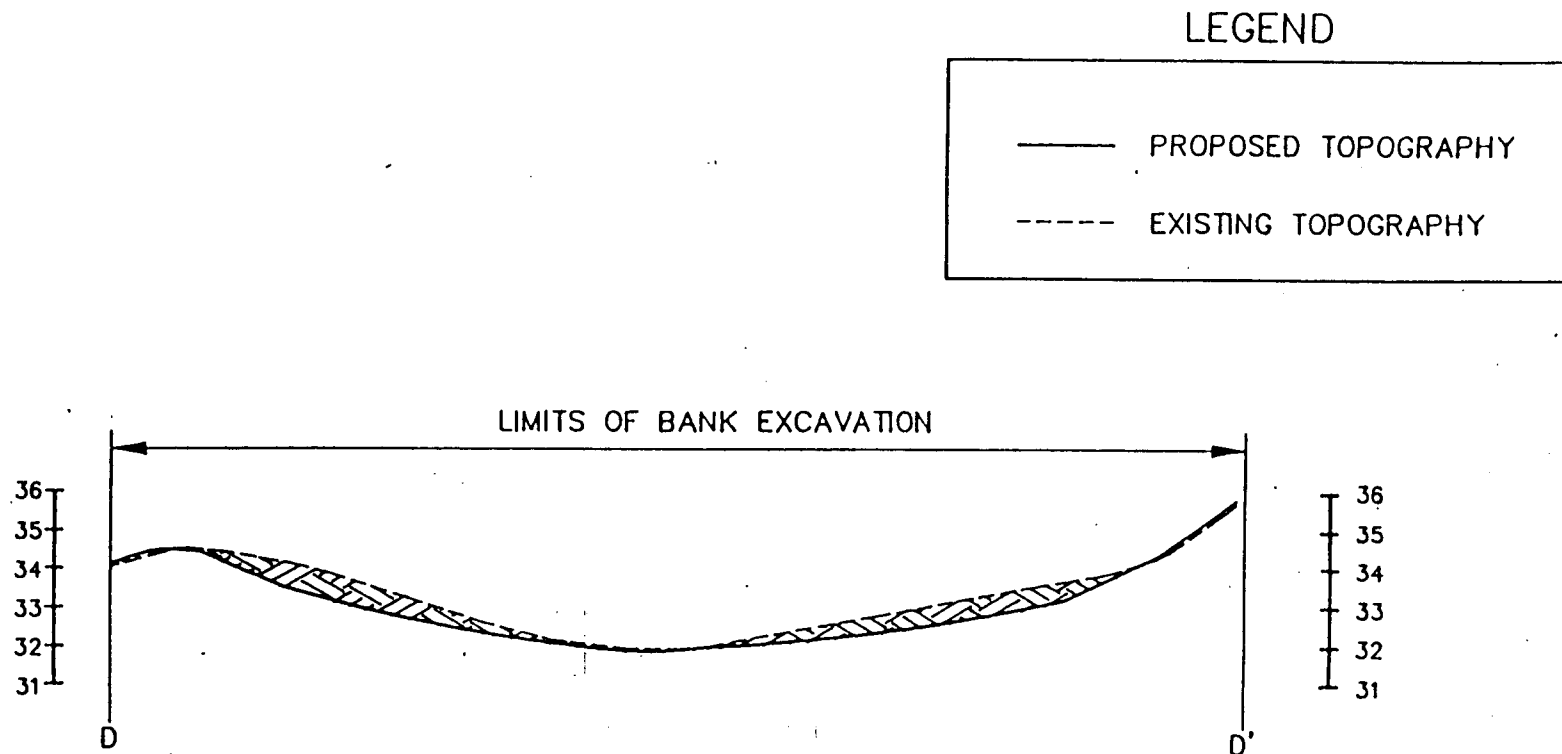
PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352349

John Smith

RECEIVED OCT 14 1987

RECEIVED OCT 14 1987



NOTE:
ELEVATIONS IN N.G.V.D.
HORZ. SCALE: 1" = 200'
VERT. SCALE: 1" = 5'

SECTION D-D'

FIGURE 10. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
MITIGATION AREA #7 FOR LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

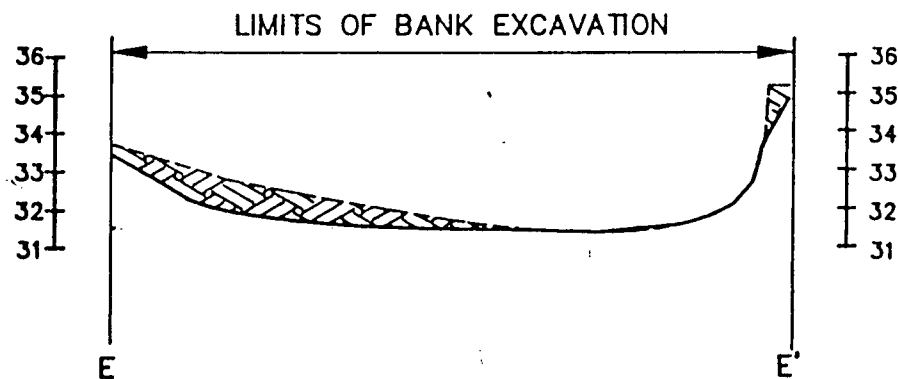
PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352340

Handwritten signature

LEGEND

— PROPOSED TOPOGRAPHY
 - - - EXISTING TOPOGRAPHY



NOTE:
 ELEVATIONS IN N.G.V.D.
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: 1" = 5'

SECTION E-E'

FIGURE 11. PRE & POST CONSTRUCTION CROSS SECTION OF PROPOSED
 MITIGATION AREA #8 FOR LENA ROAD LANDFILL
 MANATEE COUNTY, FLORIDA

PREPARED BY ENVIRONMENTAL SERVICES & PERMITTING, INC. 10/87

PERMIT NO. 411352349

Handwritten signature

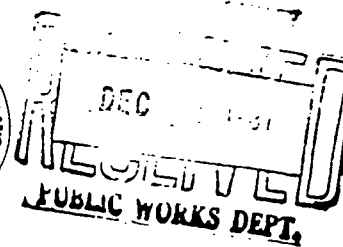
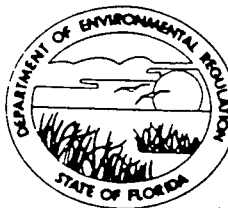
RECEIVED OCT 14 1987

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom-552-7612



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:

Richard A. Wilford,
Director
Manatee County Public
Utilities Department
Caller Service 25010
Bradenton, FL 33506

GMS ID No.: 4041C02025
Permit No.: SC41-095658
Date of Issue: 12/10/87
Expiration Date: 1/1/1992
County: Manatee
Lat/Long: 27°28'/82°26'
Sec/Town/Rge: 31/34S/19E
Project: Lena Road Stage II,
Class I Sanitary Landfill

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule 17-3, 17-4, 17-7, and 17-25. 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:

To construct a Class I sanitary landfill of approximately 150 acres. The landfill design includes a liner comprised of a clay slurry wall completely encompassing the site and tied into the underlying confining clay unit, a leachate collection system, a stormwater management system, and a groundwater and surface water monitoring system.

IN ACCORDANCE WITH: The application to construct a Class I sanitary landfill (DER form 17-1.122(13) submitted by Manatee County Public Utilities Department and their consultant, Brile, Wild and Associates, Inc., on November 16, 1984, and addended information submitted on May 15, 1985, and September 5, 1985, ("Compilation of Hydrogeological and Groundwater Data for Lena Road Landfill Stage II Area" by Ardaman and Associates, Inc.), and revised plans submitted on June 2, 1987.

LOCATION: South of S.R.64 on Lena Road, in Section 31, Township 34S, Range 19E, Manatee County. This site is adjacent to and north of the existing Lena Road Stage I Landfill.

SUBJECT TO: General Conditions 1-15 and Specific Conditions 1-19.

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

General Conditions:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any authorized 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 by Subsection 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute 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 the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement 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 opinions as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, 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.

Permittee:

Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

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 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 permit source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
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.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules.

Permittee:

Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

The retention period of all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by the department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - 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 that 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 submitted or corrected promptly.

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

SPECIFIC CONDITIONS:

1. This site shall be classified as a Class I landfill, and shall be operated in accordance with all applicable requirements of Chapter 17-7, Florida Administrative Code.
2. All solid waste disposed of in the Class I area shall be covered with a minimum of six (6) inches of compacted earth or other suitable material as approved by the Department, at the end of each working day. The working face may be left uncovered if solid waste will be placed on the working face within 18 hours, and as long as there are no adverse environmental or health effects from this practice.
3. The permittee shall be responsible for the control of odors and fugitive particulates arising from this operation. Such control shall prevent the creation of these nuisance conditions on adjoining property.
4. The permittee shall not allow the disposal of hazardous waste at this site. Hazardous waste is a solid waste identified by the Department as a hazardous waste in Chapter 17-30, Florida Administrative Code.
5. Within 90 days from effective date of this permit, the permittee shall provide the Department with a plan or documentation of how the closure of the facility will be financed.
6. Any surface waters discharged from this site shall meet the water quality standards of Chapters 17-3 and 17-4, F.A.C. To assure that off-site discharges of stormwater are free of leachate contamination, discharge from the stormwater system underdrains shall be sampled quarterly during or following rainfall events and monitored for the following:

Rainfall in inches
pH
Specific Conductance
TOC
TDS
TKN

Total Alkalinity
Chloride
TSS
DO
BOD
Total Coliform

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

Any overflow from the detention area shall be sampled for the above parameters when overflows occur.

7. In accordance with Chapter 17-4, Florida Administrative Code, the Groundwater Monitoring System shall be implemented by the permittee no later than 60 days prior to the landfill receiving solid waste.
8. The Groundwater Monitoring System shall be designed and constructed by the permittee in accordance with the plans submitted on September 5, 1985, by Ardaman and Associates, Inc., and revised plans submitted on June 2, 1987, by Briley, Wild and Associates, Inc., except as modified by following specific conditions.
9. The groundwater monitoring wells shall be tentatively located as follows:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
LRII-1	Surficial	Approximately 1700 feet south of the northwest corner of the Stage II fill area
LRII-2	Surficial	Approximately 800 feet south of the northwest corner of the Stage II fill area
LRII-3	Surficial	Approximately 1000 feet east of the northwest corner of the Stage II fill area
LRII-4	Surficial	Approximately 600 feet west of the northeast corner of the Stage II fill area
LRII-5	Surficial	Approximately 900 feet south of the northeast corner of the Stage II fill area
SA-5	Secondary Artesian	In the vicinity of LRII-1
SA-6	Secondary Artesian	In the vicinity of LRII-2
SA-7	Secondary Artesian	In the vicinity of LRII-3
SA-8	Secondary Artesian	In the vicinity of LRII-4
MW-1	Surficial (background)	Approximately 500 feet east of the southwest corner of Lena Road Stage I Landfill

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

10. Upon completion of construction of the Groundwater Monitoring System, the following information shall be submitted for all groundwater monitoring wells and any new well(s) constructed:

Well identification
Latitude/Longitude
Aquifer monitored
Screen type and slot size
Screen length
Elevation at top of pipe
Elevation at land surface
Elevation of top and bottom
of collection zone

Driller's Log
Total depth of well
Casing diameter
Casing type and length
SWFWMD well construction
permit numbers

11. Upon completion of construction of the groundwater monitoring system, the exact location of all monitoring wells (active and abandoned), supply well(s), and test holes shall be horizontally located by the Cartesian Coordinate System. The scale shall be one(1) inch equals one hundred (100) feet. The origin of the grid overlay system shall be located at a permanent benchmark or a corner monument marker located at the site. The center line of all wells shall be surveyed and locations drafted on the grid overlay base map.
12. Upon completion of construction of the groundwater monitoring system and annually thereafter, the permittee shall sample all groundwater monitoring wells for the Primary (excluding radionuclides) and Secondary Drinking Water Standards, and Purgeables included in Chapter 22, Florida Administrative Code, Public Drinking Water Systems. The specific parameters to be sampled and analyzed for are the Primary (17-22.104(1), F.A.C.) and Secondary (17-22.104(2), F.A.C.) Drinking Water Standards, and the Purgeables (17-22-105(1)(h)1., F.A.C.), listed in Part II, Quality Standards, Analytical Methods, Sampling.
13. All groundwater monitoring wells shall be sampled quarterly for the following parameters:

pH	TKN
Specific Conductance	Chloride
Temperature	Sodium
Water Level (N.G.V.D.)	Turbidity
TOC	Iron
TDS	

Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

14. Based on results of sampling and analyses as required above, required monitoring wells, the parameters and/or frequency of sampling may be subject to modification.
15. The samples collection, preservation, and laboratory testing (including quality control procedures) shall be in accordance with methods approved by the Department. Approved methods as published by the Department or as published in Standard Methods, A.S.T.M. or EPA methods shall be used. Analyses shall be performed by laboratories which are approved by the Department of Health and Rehabilitative Services to conduct analyses pursuant to Section 403.863, Florida Statutes, the State Public Water Supply Laboratory Certification Program.
16. All groundwater monitoring analyses shall be reported on the Department Form 17-1.216(2), Quarterly Report on Groundwater Monitoring. The permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of the month immediately following the end of the sampling period. The results shall be sent to the Department of Environmental Regulation, Southwest District Office, 4520 Oak Fair Blvd., Tampa, FL 33610-7347, and the Solid Waste Section, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, FL 32301-8241.
17. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Sections 17-3.402 and 17-3.404, F.A.C..
18. The permittee shall ensure that the minimum criteria for groundwater specified in Section 17-3.402, F.A.C., shall not be violated within the zone of discharge.

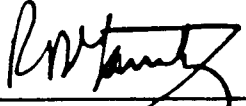
Permittee:
Richard A. Wilford, Director
Lena Road Landfill, Stage II

GMS ID No.: 4041C02025
Permit No.: SC41-095658

19. Any monitoring well which becomes damaged or inoperable, the permittee shall notify the Department immediately and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred land remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation.

Issued this 10 day of Dec., 1987

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
District Manager