



Permit
with conditions
1728



Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/894-5423

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762

SEPTEMBER 10, 1991

GREG LOGGINS, TRUSTEE
355 EAST MERRITT ISLAND CAUSEWAY
MERRITT ISLAND, FL 32953

SUBJECT: WETLAND RESOURCE MANAGEMENT
PERMIT NUMBER 12-009-0056S

ENCLOSED IS YOUR PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON SEPTEMBER 10, 1991. THIS PERMIT WILL EXPIRE ON SEPTEMBER 10, 1996.

THIS PERMIT IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. THE ATTACHED COMPLETION REPORT SHOULD BE FILLED IN AND RETURNED TO THE PALATKA OFFICE WITHIN THIRTY DAYS AFTER THE WORK IS COMPLETED. BY SO DOING, YOU WILL ENABLE US TO SCHEDULE A PROMPT INSPECTION OF THE PERMITTED ACTIVITY.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER, IF WE ARE NOTIFIED BY YOU WITHIN NINETY DAYS OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THANK YOU FOR YOUR COOPERATION AND IF THIS OFFICE CAN BE OF ANY FURTHER ASSISTANCE TO YOU, PLEASE DO NOT HESITATE TO CONTACT US.

SINCERELY,

LACY LIVINGSTON, DATA CONTROL TECHNICIAN
DIVISION OF RECORDS

ENCLOSURES: PERMIT WITH COMPLETION REPORT

CC: DISTRICT PERMIT FILE
VICKI CURTIS
CORPS OF ENGINEERS
DER
DER FIELD OFFICE

Sandra H. Gray, CHAIRMAN
DE BARY
Jesse J. Parrish, III
TITUSVILLE

Joe E. Hill, VICE CHAIRMAN
LEESBURG

Ralph E. Simmons
FERNANDINA BEACH

Patricia T. Harden
SANFORD

Joseph D. Collins, TREASURER
JACKSONVILLE

Lenore N. McCullagh
ORANGE PARK

Merritt C. Fore, SECRETARY
OCALA

James H. Williams
OCALA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 12-009-0056S

DATE ISSUED SEPTEMBER 10, 1991

WETLAND RESOURCE MANAGEMENT

A PERMIT AUTHORIZING:

THE EXCAVATION OF 10,800 CUBIC YARDS OF MATERIAL AND PLACEMENT OF 2400 CUBIC YARDS OF FILL MATERIAL IN WATERS OF THE STATE FOR THE EXPANSION OF AN EXISTING RESIDENTIAL CANAL MAINTENANCE DREDGING OF THE ENTRANCE CHANNEL AND THE REALIGNMENT OF A ROADWAY ASSOCIATED WITH THE CONSTRUCTION OF THE HARBOR POINT SUBDIVISION.

LOCATION:

SECTIONS 07 & 08; TOWNSHIP 25 SOUTH; RANGE 37 EAST
BREVARD COUNTY

ISSUED TO:
(OWNER)

GREG LOGGINS, TRUSTEE
355 EAST MERRITT ISLAND CAUSEWAY
MERRITT ISLAND, FL 32953

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373, FLORIDA STATUTES:

PERMIT IS CONDITIONED UPON:

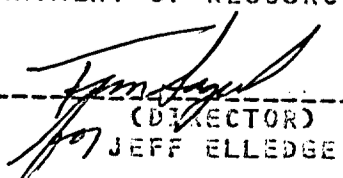
SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED SEPTEMBER 10, 1991

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

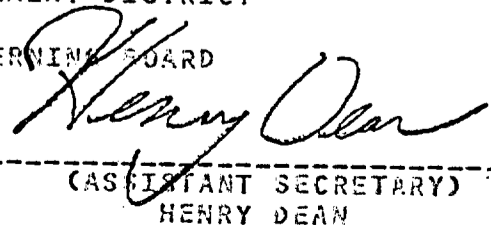
DEPARTMENT OF RESOURCE MANAGEMENT

GOVERNING BOARD

BY: _____


(DIRECTOR)
JEFF ELLEDGE

BY: _____


(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 12-009-0056S

GREG LOGGINS, TRUSTEE

DATED SEPTEMBER 10, 1991

1. THE TERMS, CONDITIONS, REQUIREMENTS, LIMITATIONS, AND RESTRICTIONS SET FORTH IN THIS PERMIT, ARE "PERMIT CONDITIONS" AND ARE BINDING AND ENFORCEABLE PURSUANT TO SECTIONS 403.141, 403.727, OR 403.859 THROUGH 403.861, FLORIDA STATUTES. THE PERMITTEE IS PLACED ON NOTICE THAT THE DISTRICT WILL REVIEW THIS PERMIT PERIODICALLY AND MAY INITIATE ENFORCEMENT ACTION FOR ANY VIOLATION OF THESE PERMIT CONDITIONS.
2. THIS PERMIT IS VALID ONLY FOR THE SPECIFIC PROCESSES AND OPERATIONS APPLIED FOR AND INDICATED IN THE APPROVED DRAWINGS OR EXHIBITS. ANY UNAUTHORIZED DEVIATION FROM THE APPROVED DRAWINGS, EXHIBITS, SPECIFICATIONS, OR CONDITIONS OF THIS PERMIT MAY CONSTITUTE GROUNDS FOR REVOCATION AND ENFORCEMENT ACTION BY THE DISTRICT.
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. NEITHER 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 IS NOT A WAIVER OF OR APPROVAL OF ANY OTHER DER OR DISTRICT PERMIT THAT MAY BE REQUIRED FOR OTHER ASPECTS OF THE TOTAL PROJECT WHICH ARE NOT ADDRESSED IN THIS PERMIT.
4. THIS PERMIT CONVEYS NO TITLE TO LAND OR WATER, DOES NOT CONSTITUTE STATE RECOGNITION OR 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, OR PLANT LIFE, OR PROPERTY CAUSED BY THE CONSTRUCTION OR OPERATION OF THIS PERMITTED SOURCE, OR FROM PENALTIES THEREFORE; NOR DOES IT ALLOW THE PERMITTEE TO CAUSE POLLUTION IN CONTRAVENTION OF FLORIDA STATUTES AND DEPARTMENT OF ENVIRONMENTAL REGULATION (DER) RULES, UNLESS SPECIFICALLY AUTHORIZED BY AN ORDER FROM THE DER OR DISTRICT.
6. THE PERMITTEE SHALL PROPERLY OPERATE AND MAINTAIN THE FACILITY AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) THAT ARE INSTALLED AND USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT, 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 DISTRICT PERSONNEL, UPON PRESENTATION OF CREDENTIALS OR OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW AND AT REASONABLE TIMES, ACCESS TO THE PREMISES WHERE THE PERMITTED ACTIVITY IS LOCATED OR CONDUCTED TO:
 - (A) HAVE ACCESS TO AND COPY ANY RECORDS THAT MUST BE KEPT UNDER CONDITIONS OF THE PERMIT;
 - (B) INSPECT THE FACILITY, EQUIPMENT, PRACTICES, OR OPERATIONS REGULATED OR REQUIRED UNDER THIS PERMIT; AND

- (C) SAMPLE OR MONITOR ANY SUBSTANCES OR PARAMETERS AT ANY LOCATION REASONABLE NECESSARY TO ASSURE COMPLIANCE WITH THIS PERMIT OR DEPARTMENT RULES.

REASONABLE TIME MAY DEPEND ON THE NATURE OF THE CONCERN BEING INVESTIGATED.

8. IF, FOR ANY REASON, THE PERMITTEE DOES NOT COMPLY WITH OR WILL BE UNABLE TO COMPLY WITH ANY CONDITION OR LIMITATION SPECIFIED IN THIS PERMIT, THE PERMITTEE SHALL IMMEDIATELY PROVIDE THE DISTRICT WITH THE FOLLOWING INFORMATION:

- (A) A DESCRIPTION OF AND CAUSE OF NON-COMPLIANCE; AND
(B) THE PERIOD OF NONCOMPLIANCE, INCLUDING 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. IN ACCEPTING THIS PERMIT, THE PERMITTEE UNDERSTANDS AND AGREES THAT ALL RECORDS, NOTES, MONITORING DATA AND OTHER INFORMATION RELATED TO THE CONSTRUCTION OR OPERATION OF THIS PERMITTED SOURCE, WHICH ARE SUBMITTED TO THE DISTRICT MAY BE USED BY THE DISTRICT AS EVIDENCE IN ANY ENFORCEMENT CASE INVOLVING THE PERMITTED SOURCE ARISING UNDER THE FLORIDA STATUTES OR DEPARTMENT RULES, EXCEPT WHERE SUCH USE IS PRESCRIBED BY SECTIONS 403.111 AND 403.73, FLORIDA STATUTES. SUCH EVIDENCE SHALL ONLY BE USED TO THE EXTENT IT IS CONSISTENT WITH THE FLORIDA RULES OF CIVIL PROCEDURE AND APPROPRIATE EVIDENTIARY RULES.
10. THE PERMITTEE AGREES TO COMPLY WITH CHANGES IN DER 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 DER RULES.
11. THIS PERMIT IS TRANSFERABLE ONLY UPON DISTRICT APPROVAL IN ACCORDANCE WITH RULES 17-4.120 AND 17-30.300, FLORIDA ADMINISTRATIVE CODE, AS APPLICABLE. THE PERMITTEE SHALL BE LIABLE FOR ANY NON-COMPLIANCE OF THE PERMITTED ACTIVITY UNTIL THE TRANSFER IS APPROVED BY THE DISTRICT.
12. THIS PERMIT OR A COPY THEREOF SHALL BE KEPT AT THE WORK SITE OF THE PERMITTED ACTIVITY.
13. THIS PERMIT ALSO CONSTITUTES:
- (A) DETERMINATION OF BEST AVAILABLE CONTROL TECHNOLOGY (BACT),
- (B) DETERMINATION OF PREVENTION OF SIGNIFICANT DETERIORATION (PSD),
- (C) CERTIFICATION OF COMPLIANCE WITH STATE WATER QUALITY STANDARDS (SECTION 401, PL 92-500), AND
- (D) COMPLIANCE WITH NEW SOURCE PERFORMANCE STANDARDS.

14. THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING:

- (A) UPON REQUEST, THE PERMITTEE SHALL FURNISH ALL RECORDS AND PLANS REQUIRED UNDER DER RULES. DURING ENFORCEMENT ACTIONS, THE RETENTION PERIOD FOR ALL RECORDS WILL BE EXTENDED AUTOMATICALLY UNLESS OTHERWISE STIPULATED BY THE DISTRICT.
- (B) THE PERMITTEE SHALL HOLD AT THE FACILITY OR OTHER LOCATION DESIGNATED BY THIS PERMIT RECORDS OF ALL MONITORING INFORMATION (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) REQUIRED BY THE PERMIT, COPIES OF ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE APPLICATION FOR THIS PERMIT. THESE MATERIALS SHALL BE RETAINED AT LEAST THREE YEARS FROM THE DATE OF THE SAMPLE, MEASUREMENT, REPORT OR APPLICATION UNLESS OTHERWISE SPECIFIED BY DEPARTMENT RULE.

(C) RECORDS OF MONITORING INFORMATION SHALL INCLUDE:

- 1. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
- 2. THE PERSON RESPONSIBLE FOR PERFORMING THE SAMPLING OR MEASUREMENTS;
- 3. THE DATES ANALYSES WERE PERFORMED;
- 4. THE PERSON RESPONSIBLE FOR PERFORMING THE ANALYSES;
- 5. THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
- 6. THE RESULT OF SUCH ANALYSES.

15. 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 CORRECTED PROMPTLY.

16. ALL CORRESPONDENCE, SUBMITTALS AND NOTIFICATIONS REQUIRED BY THE FOLLOWING PERMIT CONDITIONS MUST BE SUBMITTED TO THE MELBOURNE DISTRICT OFFICE AT 305 EAST DRIVE, MELBOURNE, FL 32904.

17. THIS PERMIT FOR CONSTRUCTION WILL EXPIRE 5 YEARS FROM THE DATE OF ISSUANCE.

18. THE PROJECT MUST COMPLY WITH APPLICABLE STATE WATER QUALITY STANDARDS, INCLUDING:

- A. 17-302.500 - MINIMUM CRITERIA FOR ALL SURFACE WATERS AT ALL PLACES AND AT ALL TIMES;
- B. 17-302.510 - SURFACE WATERS: GENERAL CRITERIA, AND
- C. 17-302.560 - CLASS III WATERS: RECREATION - PROPAGATION AND MAINTENANCE OF A HEALTHY, WELL-BALANCED POPULATION OF FISH AND WILDLIFE.

19. THE PERMITTEE SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATERBODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE PERMITTEE MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
20. GRASS SEED AND MULCH OR SOD MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADE, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES INTO WATERS OF THE STATE.
21. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF THE WORK AUTHORIZED BY THIS PERMIT, THE PERMITTEE MUST PROVIDE TWO COPIES OF WRITTEN NOTIFICATION OF THE SCHEDULED DATE OF COMMENCEMENT TO THE APPROPRIATE DISTRICT OFFICE.
22. THE WATERS OF THE STATE WETLAND LINES SHOWN ON THE ATTACHED PLANS ARE ONLY BINDING UPON THE DISTRICT AND THE DER IN THOSE SPECIFIC LOCATIONS WHERE DREDGING OR FILLING ACTIVITY IS AUTHORIZED BY THIS PERMIT. THOSE PORTIONS OF THE WETLAND LINE WHICH EXTEND BEYOND THE SCOPE OF WORK AUTHORIZED BY THIS PERMIT ARE FOR REFERENCE ONLY AND SHALL NOT BE RELIED UPON FOR FUTURE COMPLIANCE WITH SECTION 403.913 F.S., OR ANY OTHER PROVISION OF LAW OR RULE.
23. ALL CONTRACTORS MUST BE PROVIDED A COPY OF THE PERMIT CONDITIONS BEFORE CONSTRUCTION BEGINS.
24. THE PERMITTEE IS HEREBY ADVISED THAT PURSUANT TO SECTION 403.922, FLORIDA STATUTES, 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 (BOARD TRUSTEES) OR THE DEPARTMENT OF NATURAL RESOURCES UNDER CHAPTER 253, F.S., UNTIL SUCH PERSON HAS RECEIVED FROM THE BOARD OF TRUSTEES THE REQUIRED LEASE, LICENSE, EASEMENT, OR OTHER FORM OF CONSENT AUTHORIZING THE PROPOSED ACTIVITY. PURSUANT TO CHAPTER 18-14, FLORIDA ADMINISTRATIVE CODE, IF SUCH WORK IS DONE WITHOUT CONSENT, OR IF A PERSON OTHERWISE WILLFULLY DAMAGES STATE LAND OR WILLFULLY DAMAGES OR REMOVES PRODUCTS OF STATE LAND IN VIOLATION OF STATE OR FEDERAL LAW, THE BOARD OF TRUSTEES MAY LEVY ADMINISTRATIVE FINES OF UP TO \$10,000 PER OFFENSE.
25. IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED AT ANY TIME WITHIN THE PROJECT SITE, THE PERMITTEE MUST IMMEDIATELY HALT CONSTRUCTION AND NOTIFY THE APPROPRIATE DISTRICT OFFICE, AND THE DIVISION OF HISTORICAL RESOURCES, R.A. GRAY BUILDING, TALLAHASSEE, FLORIDA 32399-0250.
26. ALL WORK WITHIN WATERS OF THE STATE MUST BE IN ACCORDANCE WITH THE PLANS STAMPED AS FINAL BY THE DISTRICT.
27. THE PERMITTEE MUST:
 - A. INSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF MANATEES AND THE NEED TO AVOID COLLISIONS WITH MANATEES.
 - B. ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT OF 1972, THE ENDANGERED SPECIES ACT OF 1973, AND THE FLORIDA MANATEE SANCTUARY ACT OF 1978. THE PERMITTEE AND/OR CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY MANATEE HARMED, HARASSED, OR KILLED AS A RESULT OF CONSTRUCTION ACTIVITIES.

- C. ENSURE THAT SILTATION BARRIERS ARE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, ARE PROPERLY SECURED AND ARE REGULARLY MONITORED TO AVOID MANATEE ENTRAPMENT. BARRIERS MUST NOT BLOCK MANATEE ENTRY TO OR EXIT FROM ESSENTIAL HABITAT.
 - D. ENSURE THAT ALL VESSELS ASSOCIATED WITH THE PROJECT OPERATE AT "NO WAKE/IDLE" SPEEDS AT ALL TIMES WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR FOOT CLEARANCE FROM THE BOTTOM AND THAT VESSELS FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
 - E. INSTALL A MINIMUM OF TWO 3' X 4' TEMPORARY CONSTRUCTION MANATEE SIGNS ("MANATEE HABITAT-IDLE SPEED IN CONSTRUCTION AREAS") PRIOR TO CONSTRUCTION AT PROMINENT LOCATIONS WITHIN THE CONSTRUCTION AREA/FACILITY. ONE CONSTRUCTION SIGN MUST BE LOCATED PROMINENTLY ADJACENT TO THE CONSTRUCTION PERMIT(S). THE OTHER SIGN MUST BE INSTALLED IN A LOCATION PROMINENTLY VISIBLE TO WATER RELATED CONSTRUCTION CREWS. PHOTOS OF SIGNS IN PLACE MUST BE SENT TO THE FLORIDA DEPARTMENT OF NATURAL RESOURCES (FDNR) MARINE MAMMALS SECTION, 100 EIGHTH AVENUE, S.E., ST. PETERSBURG, FLORIDA 33701-5095, PRIOR TO THE INITIATION OF CONSTRUCTION. TEMPORARY CONSTRUCTION SIGNS WILL BE REMOVED BY THE PERMITTEE UPON COMPLETION OF CONSTRUCTION.
 - F. ENSURE THAT ALL CONSTRUCTION ACTIVITIES IN OPEN WATER CEASE UPON THE SIGHTING OF A MANATEE(S) WITHIN 100 YARDS OF THE PROJECT AREA. CONSTRUCTION ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS DEPARTED THE PROJECT AREA. G. ANY COLLISION WITH AND/OR INJURY TO A MANATEE IS REPORTED IMMEDIATELY TO THE "MANATEE HOTLINE" (1-800-DIAL FWP) AND TO THE U.S. FISH AND WILDLIFE SERVICE, JACKSONVILLE FIELD OFFICE (904-791-2580).
 - H. THE CONTRACTOR MAINTAINS A LOG DETAILING SIGHTINGS, COLLISIONS, OR INJURIES TO MANATEES SHOULD THEY OCCUR DURING THE CONTRACT PERIOD.
 - I. FOLLOWING PROJECT COMPLETION, A REPORT SUMMARIZING THE ABOVE INCIDENTS AND SIGHTINGS IS TO BE SUBMITTED TO THE FDNR (ADDRESS IN "E" ABOVE) AND TO THE U.S. FISH AND WILDLIFE SERVICE, 3100 UNIVERSITY BOULEVARD, SOUTH, SUITE 120, JACKSONVILLE, FLORIDA 32216.
- 28. ALL WETLAND AREAS OR WATER BODIES THAT ARE OUTSIDE OF THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT MUST BE PROTECTED FROM EROSION, SILTATION, SCOURING OR EXCESS TURBIDITY, AND DENATERING.
 - 29. THE PERMITTEE MUST SUBMIT TWO COPIES OF AN AS-BUILT SURVEY OF THE WETLAND CREATION AREAS CERTIFIED BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER SHOWING DIMENSIONS, GRADES, GROUND ELEVATIONS, AND WATER SURFACE ELEVATIONS. THE AS-BUILT MUST BE SUBMITTED WITH THE FIRST MONITORING REPORT.
 - 30. WITHIN THE WETLAND CREATION AREAS, NON-NATIVE VEGETATION, CATTAILS (TYPHA SPP.) AND PRINROSE WILLOW (LUDWIGA PERUVIANNNA), MUST BE CONTROLLED BY HAND CLEARING OR OTHER METHODS APPROVED BY THE DISTRICT SO THAT THEY CONSTITUTE NO MORE THAN 10% OF THE AREAL COVER IN EACH STRATUM.
 - 31. THE WETLAND CREATION AREAS MUST BE PLANTED PRIOR TO ANY OF THE FOLLOWING EVENTS (WHICHEVER OCCURS FIRST): ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; USE OF THE INFRASTRUCTURE FOR ITS INTENDED USE; OR TRANSFER OF RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

32. WITHIN 30 DAYS OF COMPLETION OF INITIAL PLANTING, THE PERMITTEE MUST SUBMIT TO THE DISTRICT FOR REVIEW AND APPROVAL A PLAN DETAILING THE SITE-SPECIFIC METHODS TO BE USED FOR MONITORING THE WETLAND CREATION AREAS SO THAT ACHIEVEMENT OF SUCCESS CRITERIA CAN BE CLEARLY DEMONSTRATED. THE PLAN INCLUDE SUCH INFORMATION AS THE SIZE, LOCATION AND NUMBER OF MONITORING QUADRANTS, THE LOCATION AND NUMBER OF PHOTOGRAPHIC STATIONS, AND OTHER PERTINENT FACTORS TO DEMONSTRATE ACHIEVEMENT OF SUCCESS CRITERIA.

33. THE PERMITTEE MUST FURNISH THE DISTRICT WITH MONITORING REPORTS FOR THE WETLAND CREATION AREA(S) DESCRIBING:

A. PERCENT SURVIVAL AND DIVERSITY OF PLANTED SPECIES WITHIN EACH STRATUM;

B. RECRUITMENT DENSITY AND COMPOSITION WITHIN EACH STRATUM;

C. RECORDED GROWTH VIA ESTABLISHED PARAMETERS FOR PLANTED TREES AND SHRUBS;

D. PERCENT COVER OF HERBACEOUS SPECIES; E. SURFACE WATER ELEVATION REFERENCED TO N.G.V.D.; AND

F. WILDLIFE UTILIZATION.

THE DATA MUST BE COLLECTED AND SUBMITTED SEMI-ANNUALLY, ONCE DURING THE WET SEASON (AUGUST-SEPTEMBER) AND ONCE DURING THE DRY SEASON (MARCH-APRIL) FOR A TOTAL PERIOD OF 3 YEARS FOLLOWING INITIAL PLANTING. REPORTS TO THE DISTRICT MUST ALSO INCLUDE PHOTOGRAPHS, DESCRIPTIONS OF PROBLEMS ENCOUNTERED, AND SOLUTIONS UNDERTAKEN.

34. SUCCESSFUL ESTABLISHMENT OF THE WETLAND CREATION AREA WILL HAVE OCCURRED WHEN:

A. AT LEAST 80 PERCENT OF THE PLANTED INDIVIDUALS IN EACH STRATUM HAVE SURVIVED AND ARE SHOWING SIGNS OF NORMAL ANNUAL GROWTH, BASED UPON STANDARD GROWTH PARAMETERS SUCH AS HEIGHT AND BASE DIAMETER, OR CANOPY CIRCUMFERENCE;

B. AT LEAST 80 PERCENT COVER BY APPROPRIATE WETLAND HERBACEOUS SPECIES HAS BEEN OBTAINED; AND

C. THE ABOVE CRITERIA HAS BEEN ACHIEVED BY THE END OF A 3 YEAR PERIOD FOLLOWING INITIAL PLANTING.

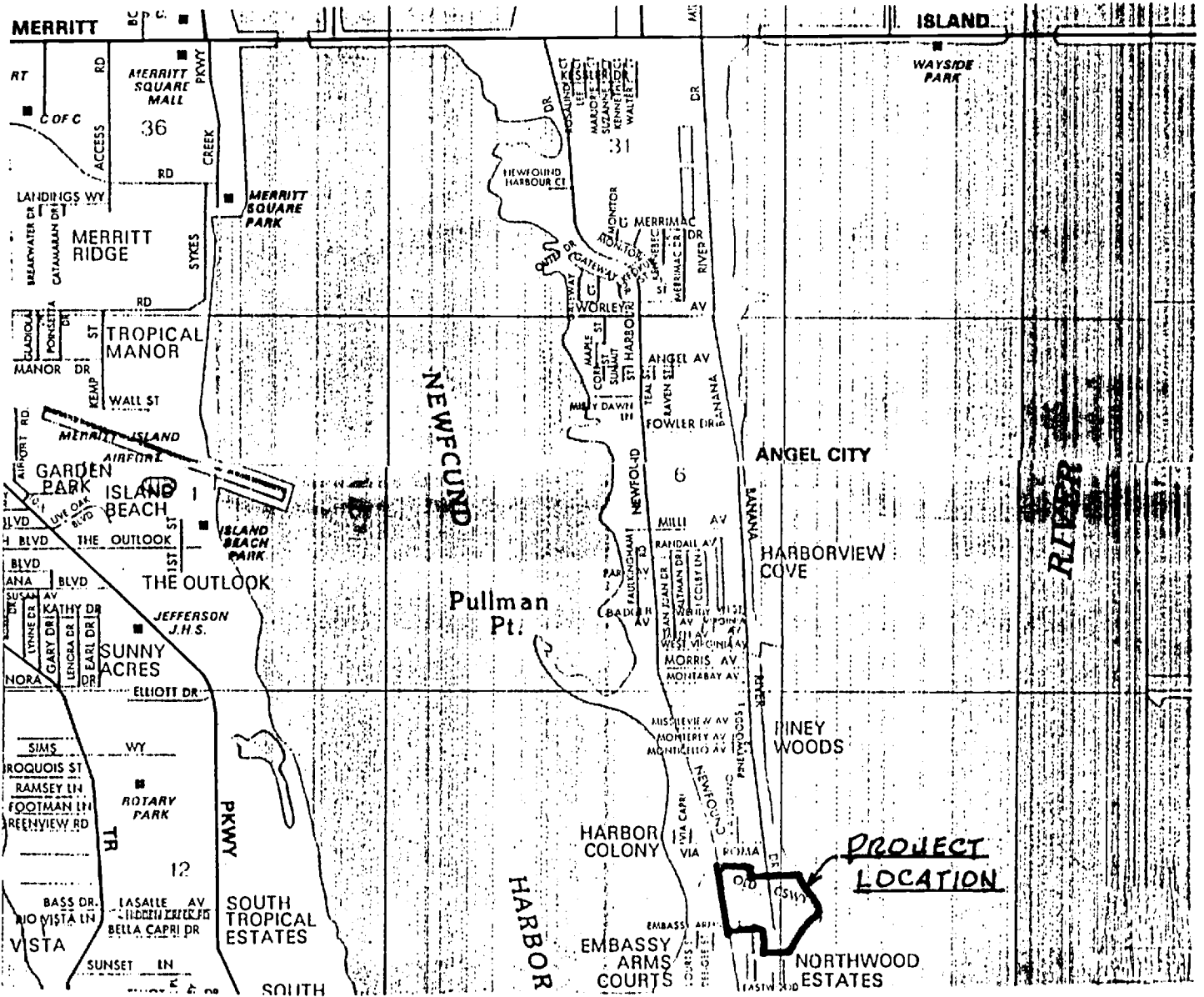
35. IF SUCCESSFUL ESTABLISHMENT HAS NOT OCCURRED AS STATED ABOVE, THE PERMITTEE MUST APPLY TO THE DISTRICT FOR A PERMIT MODIFICATION NO LATER THAN 30 DAYS FOLLOWING THE TERMINATION OF THE 3 YEAR MONITORING PERIOD. THE APPLICATION MUST INCLUDE A NARRATIVE DESCRIBING THE TYPE AND CAUSES OF FAILURE AND CONTAIN A COMPLETE SET OF PLANS FOR THE REDESIGN AND/OR REPLACEMENT PLANTING OF THE WETLAND CREATION AREA SO THAT THE SUCCESS CRITERIA WILL BE ACHIEVED. WITHIN 30 DAYS OF DISTRICT APPROVAL AND ISSUANCE OF THE PERMIT MODIFICATION, THE PERMITTEE MUST IMPLEMENT THE REDESIGN AND/OR REPLACEMENT PLANTING. FOLLOWING COMPLETION OF SUCH WORK, SUCCESS CRITERIA AS STATED ABOVE OR MODIFIED BY SUBSEQUENT PERMIT MUST AGAIN BE ACHIEVED. IN ADDITION, THE MONITORING REQUIRED BY THESE CONDITIONS MUST BE CONDUCTED.

36. WITHIN 30 DAYS OF ANY MONITORING EVENT THAT INDICATES 50% OR GREATER MORTALITY OF PLANTED WETLAND SPECIES IN ANY STRATUM WITHIN THE MITIGATION AREA, THE APPLICANT MUST SUBMIT A REMEDIATION PROGRAM FOR DISTRICT STAFF REVIEW AND APPROVAL.

37. PRIOR TO INITIATING ANY CONSTRUCTION, THE PERMITTEE MUST RECORD A CONSERVATION EASEMENT ON THE REAL PROPERTY PURSUANT TO SECTION 704.06, F.S., PROHIBITING ALL CONSTRUCTION INCLUDING CLEARING, DREDGING, OR FILLING, EXCEPT THAT WHICH IS SPECIFICALLY AUTHORIZED BY THIS PERMIT WITHIN THE WETLAND CREATION, WETLAND ENHANCEMENT, AND UPLAND CONSERVATION AREAS AS DELINEATED ON THE FINAL PLANS AS APPROVED BY THE DISTRICT. THE EASEMENT MUST CONTAIN PROVISIONS AS SET FORTH IN PARAGRAPHS 1(A)-(H) OF SECTION 704.06, F.S., AS WELL AS PROVISIONS INDICATING THAT THEY MAY BE ENFORCED BY THE DISTRICT AND MAY NOT BE AMENDED WITHOUT DISTRICT APPROVAL. WITHIN 30 DAYS OF THE DATE OF ISSUANCE OF THIS PERMIT AND PRIOR TO RECORDING, SAID EASEMENT MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
- WITHIN 30 DAYS OF RECEIPT OF DISTRICT APPROVAL, THE PERMITTEE MUST PROVIDE THE DISTRICT WITH A CERTIFIED COPY OF THE RECORDED EASEMENT SHOWING THE DATE IT WAS RECORDED AND THE OFFICIAL RECORDS BOOK AND PAGE NUMBER.
38. THE PERMITTEE MUST ESTABLISH AND CLEARLY POST AN IDLE SPEED ZONE WITHIN THE ENTIRE ON-SITE CANAL. THE PERMITTEE MUST ALSO INSTALL MANATEE INFORMATION SIGNS WITHIN THE CANAL AND OFF-SITE CHANNEL MARKERS EXTENDING APPROXIMATELY 300' TO 400' EASTWARD OF THE PROJECT SITE. THE PERMITTEE MUST INSTALL AT LEAST ONE MANATEE EDUCATIONAL/INFORMATIONAL DISPLAY IN A LOCATION WHICH IS ACCESSIBLE TO ALL RESIDENTS. THE SIZE, TYPE, AND CONTENT OF ALL SIGNS MARKERS, AND EXHIBITS IS STANDARD AND SHOULD BE COORDINATED WITH THE FLORIDA DEPARTMENT OF NATURAL RESOURCES.
39. THE PERMITTEE MUST FOLLOW THE "WETLAND CONSTRUCTION PHASING SEQUENCE" PER FIGURE 18-A (REVISED APRIL 17, 1991) OF THE FINAL APPROVED PLANS.
40. PRIOR TO BEGINNING ANY CONSTRUCTION OF THE PROJECT, THE PERMITTEE MUST ORGANIZE AND ATTEND A PRE-CONSTRUCTION MEETING WITH DISTRICT STAFF, THE PROJECT ENGINEER, AND ALL SELECTED CONTRACTORS.
41. THE 30-INCH-DIAMETER FLUSHING CULVERT MUST BE MAINTAINED AS NECESSARY TO KEEP IT FREE FROM ACCUMULATED SEDIMENTS SO AS TO NOT REDUCE ITS HYDRAULIC CAPACITY.
42. THE PERMITTEE MUST MONITOR TURBIDITY OUTSIDE THE AREA ENCLOSED BY THE TURBIDITY BARRIER DURING THE ENTIRE DURATION OF CONSTRUCTION. THE PERMITTEE MUST ESTABLISH TURBIDITY MONITORING STATIONS IMMEDIATELY ADJACENT (EASTWARD) TO THE CONSTRUCTION AREA AND AT A POINT AT LEAST 200 FEET NORTH OF THE TURBIDITY BARRIER WITHIN THE BANANA RIVER LAGOON. TURBIDITY MUST BE MONITORED ON A DAILY BASIS DURING CONSTRUCTION AND MUST BE CONTINUED AFTER COMPLETION OF CONSTRUCTION UNTIL TURBIDITY LEVELS WITHIN THE TURBIDITY BARRIER ARE EQUAL TO THE LEVEL AS RECORDED AT THE STATION LOCATED OUTSIDE OF THE BARRIER FOR A PERIOD OF 7 CONSECUTIVE DAYS.
43. TURBIDITY LEVELS MUST BE MEASURED BETWEEN THE HOURS OF 12:00 P.M. AND 5:00 P.M. DAILY. TURBIDITY, AS MEASURED ADJACENT TO THE TURBIDITY BARRIER, MUST NOT EXCEED 29 NTU'S ABOVE BACKGROUND DURING CONSTRUCTION. IF THE TURBIDITY DOES EXCEED THIS LEVEL, THE PERMITTEE MUST DISCONTINUE CONSTRUCTION ACTIVITY UNTIL THE DISTRICT'S MELBOURNE OFFICE HAS BEEN CONTACTED AND REMEDIAL MEASURES HAVE BEEN TAKEN. ALL REMEDIAL MEASURES MUST BE APPROVED BY THE DISTRICT PRIOR TO IMPLEMENTATION. WEEKLY REPORTS OF TURBIDITY MONITORING MUST BE SENT TO THE DISTRICT'S MELBOURNE OFFICE.

RECEIVED

JAN 22 1990
12-009-0056 AS
RECORDS
MELBOURNE



SJRWMD Permit No. 12-009-0056 AS

FINAL APPROVED PLANS

HARBOR POINTE
PROJECT LOCATION

FLEIS ASSOCIATES, INC.
1090 HIGHWAY A1A, SUITE 200
SATELLITE BEACH, FLORIDA 32937
(407) 777-2701

EDWARD M. FLEIS
P.E. NO. 0030832

88.150
Figure
1

SHEET OF

1... 25
RNG 37
SEC 7.8

Permit No. 12-009-0056AS

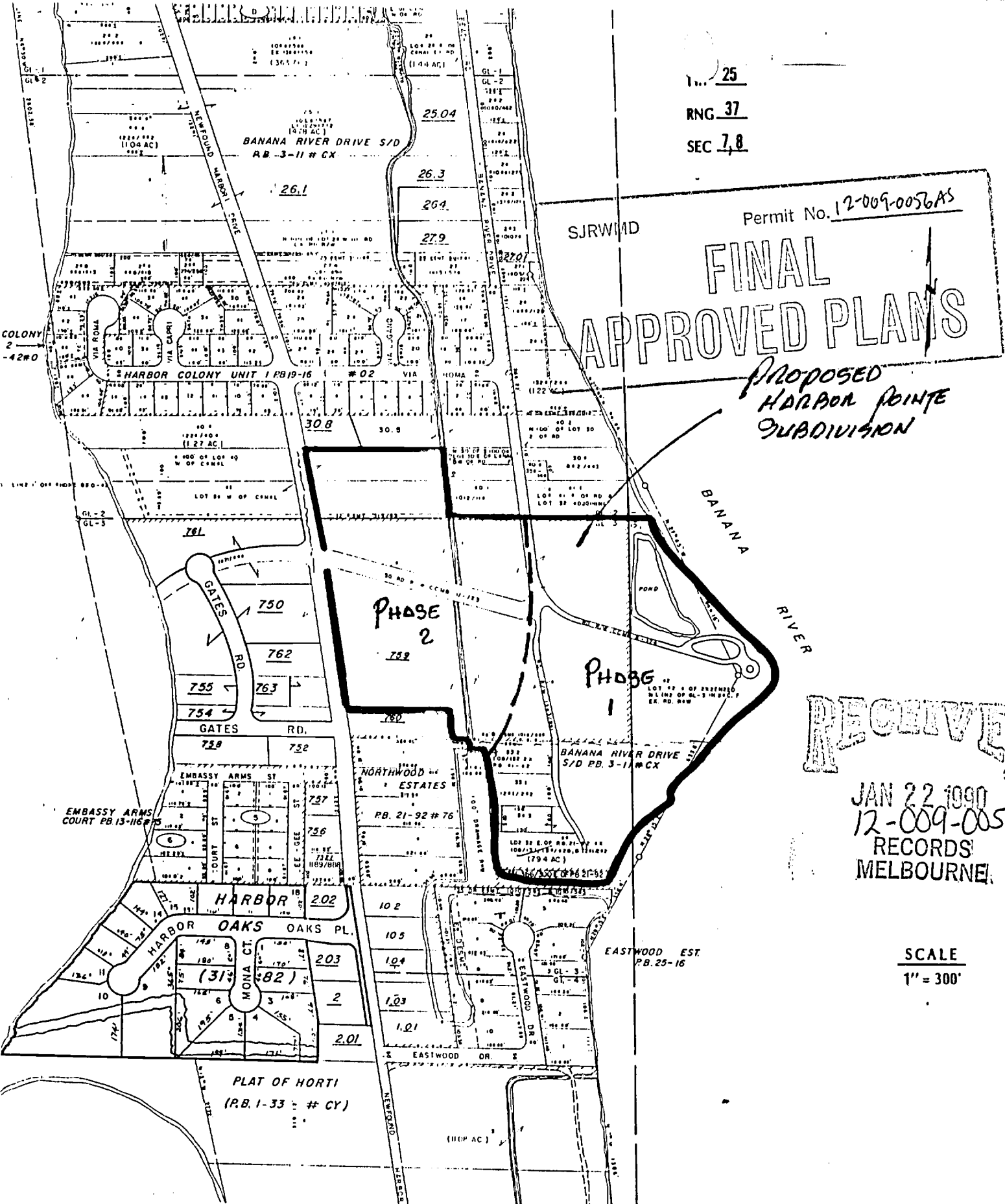
FINAL APPROVED PLANS

PROPOSED HARBOR POINTE SUBDIVISION

RECEIVED

JAN 22 1990
12-009-0056AS
RECORDS
MELBOURNE

SCALE
1" = 300'



FLEIS ASSOCIATES, INC.

1090 HIGHWAY A1A, SUITE 200
SATELLITE BEACH, FLORIDA 32937
(407) 777-2701

HARBOR POINTE
PHASING PLAN

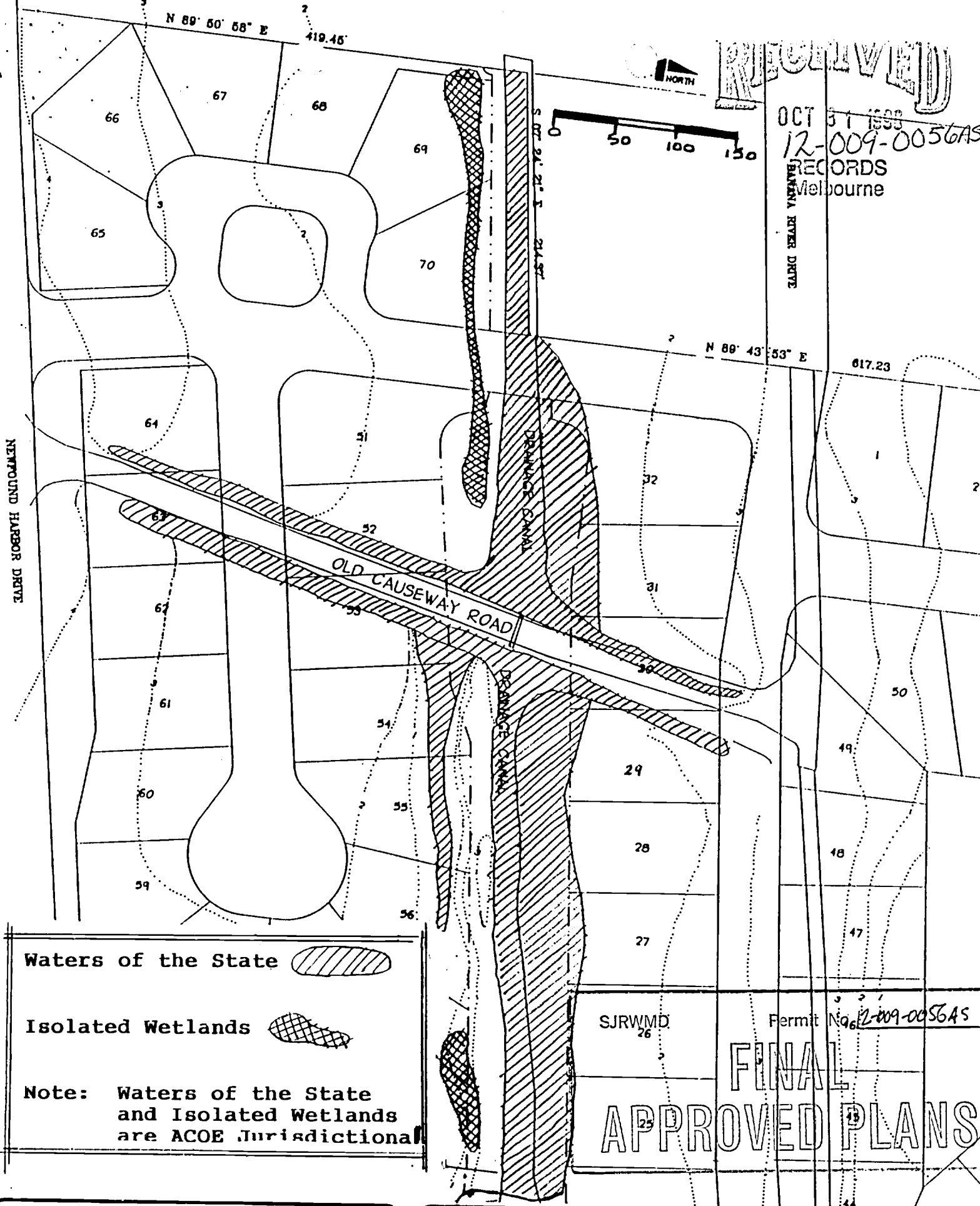
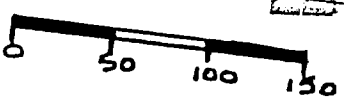
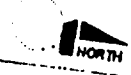
88.150
Figure
2


SHEET OF

RECEIVED

OCT 31 1993
12-009-0056AS
RECORDS
Melbourne

BAVANA RIVER DRIVE



Waters of the State 


Isolated Wetlands 

Note: Waters of the State and Isolated Wetlands are ACOE Jurisdictional

SJRWMD
26

Permit No. 12-009-0056AS

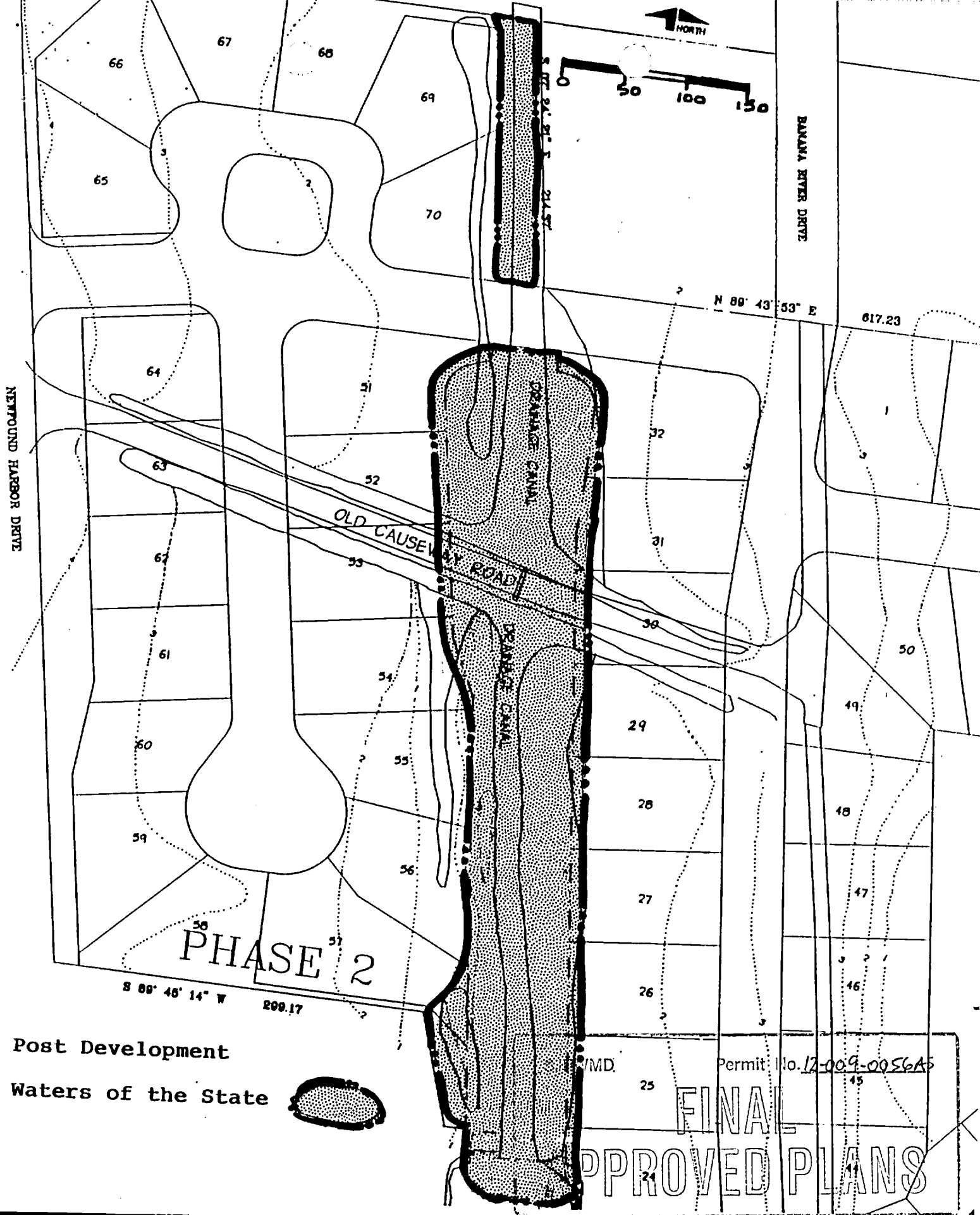
FINAL APPROVED PLANS

 **FLEIS ASSOCIATES**
 SOUTHEAST BANK BUILDING
 1090 HIGHWAY A1A, SUITE 200
 SATELLITE BEACH, FLORIDA 32957
 (407) 777-1701

10/13/93

Harbor Point Phase 2
Location of Jurisdictional
Wetlands

88.153
Fig. 12
10-25-90 Rev
SHEET OF



PHASE 2

Post Development
Waters of the State

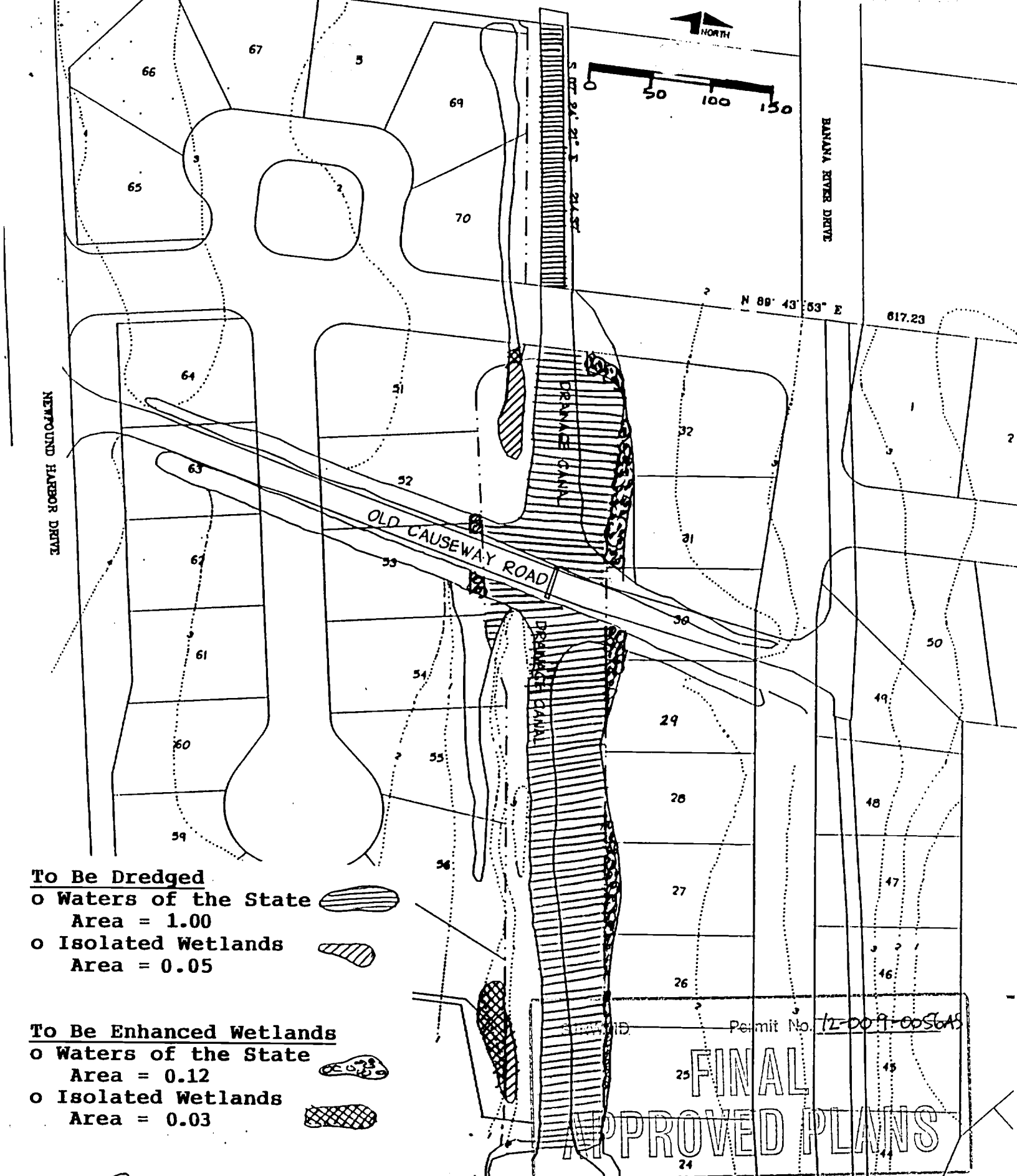


FINAL APPROVED PLANS

FLEIS ASSOCIATES
 SOUTHEAST BANK BUILDING
 1000 HIGHWAY A1A, SUITE 300
 SATELITE BEACH, FLORIDA 32087
 (407) 777-2701
31/90

HARBOR POINT PHASE 2
 PROPOSED CANAL & WETLANDS

88.153
 12-A
 10-25-90
 REV. SHEET OF



To Be Dredged

- o Waters of the State
Area = 1.00
- o Isolated Wetlands
Area = 0.05

To Be Enhanced Wetlands

- o Waters of the State
Area = 0.12
- o Isolated Wetlands
Area = 0.03

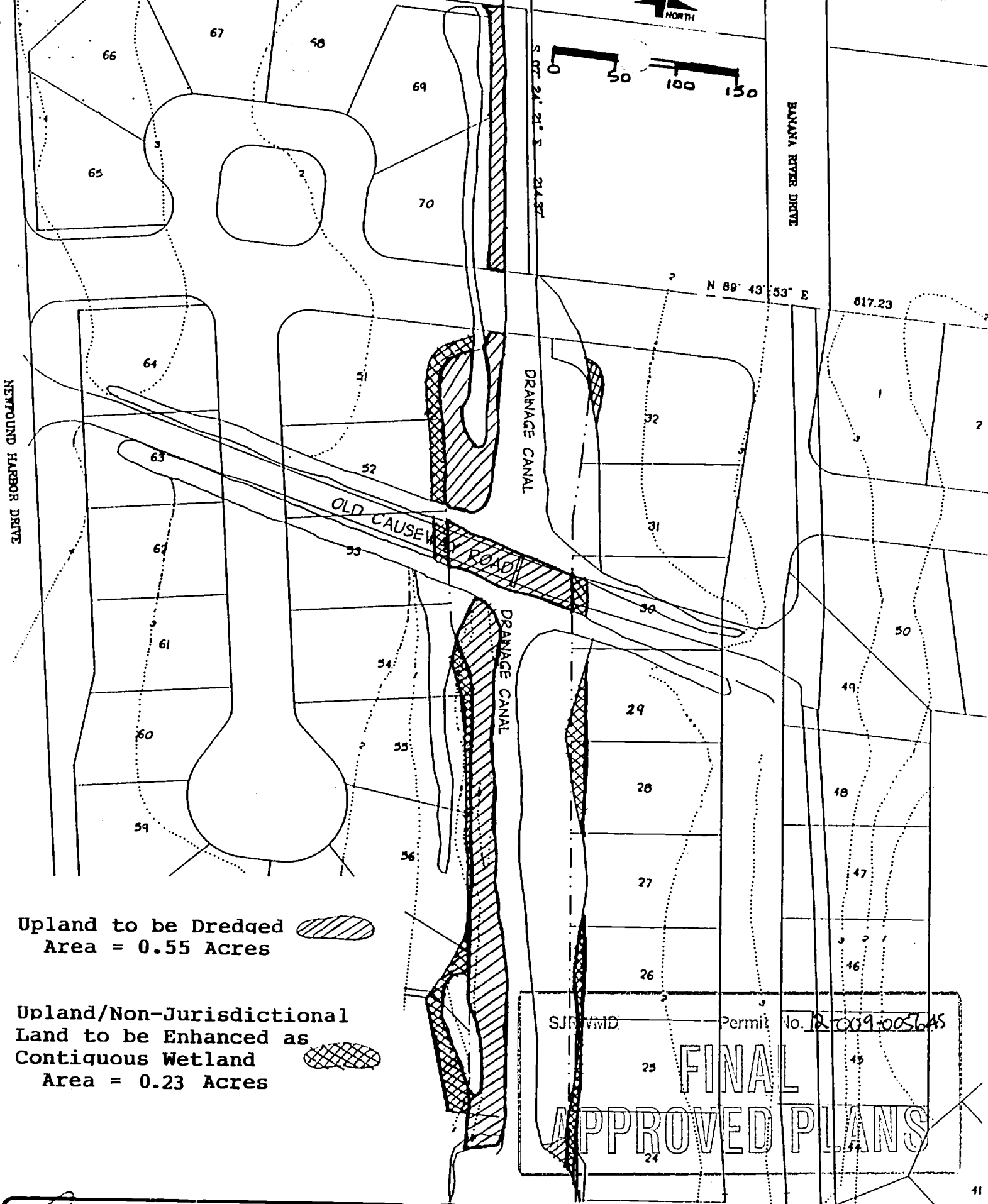
Permit No. 12-0091-0056AS
FINAL APPROVED PLANS


FLEIS ASSOCIATES
 Southeast Bank Building
 1080 Highway 1A, Suite 300
 Satellite Beach, Florida 32937
 (407) 777-2701


File 10/31/90

Harbor Point Phase 2
 Wetlands

88.153
 Fig. 13
 10-25-90 Rev
 SHEET OF



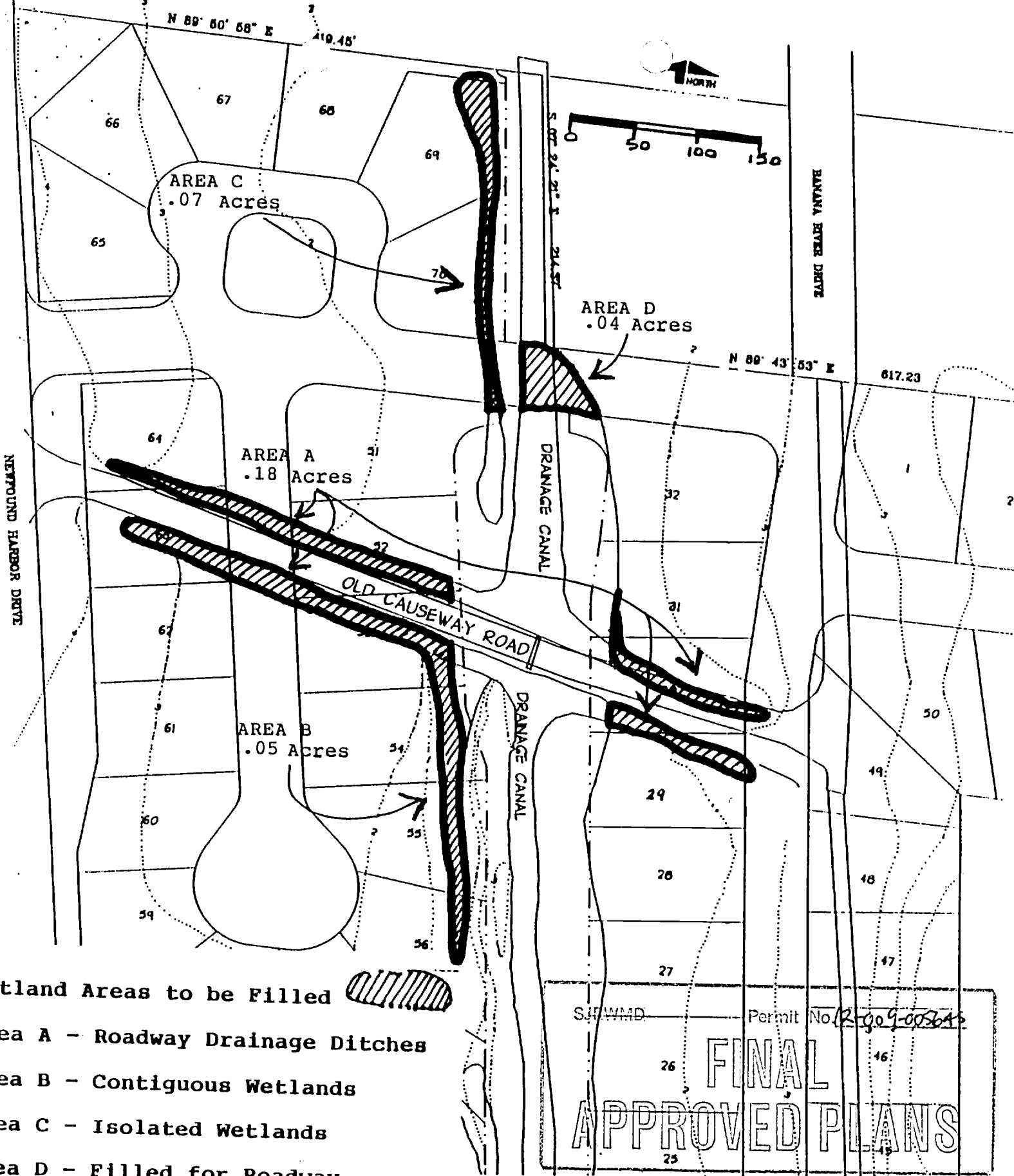
Upland to be Dredged 
 Area = 0.55 Acres


Upland/Non-Jurisdictional
 Land to be Enhanced as
 Contiguous Wetland 
 Area = 0.23 Acres

FLEIS ASSOCIATES
 SOUTHEAST BANK BUILDING
 1000 HIGHWAY 15A, SUITE 300
 SATELLITE BEACH, FLORIDA 32937
 (407) 777-2701
10/31/90

Harbor Point Phase 2
 Dredge Areas

88.153
 Fig. 13A
 10-25-90 Rev
 SHEET OF



- Wetland Areas to be Filled 
- Area A - Roadway Drainage Ditches
 - Area B - Contiguous Wetlands
 - Area C - Isolated Wetlands
 - Area D - Filled for Roadway, Culvert to be Installed

FLEIS ASSOCIATES

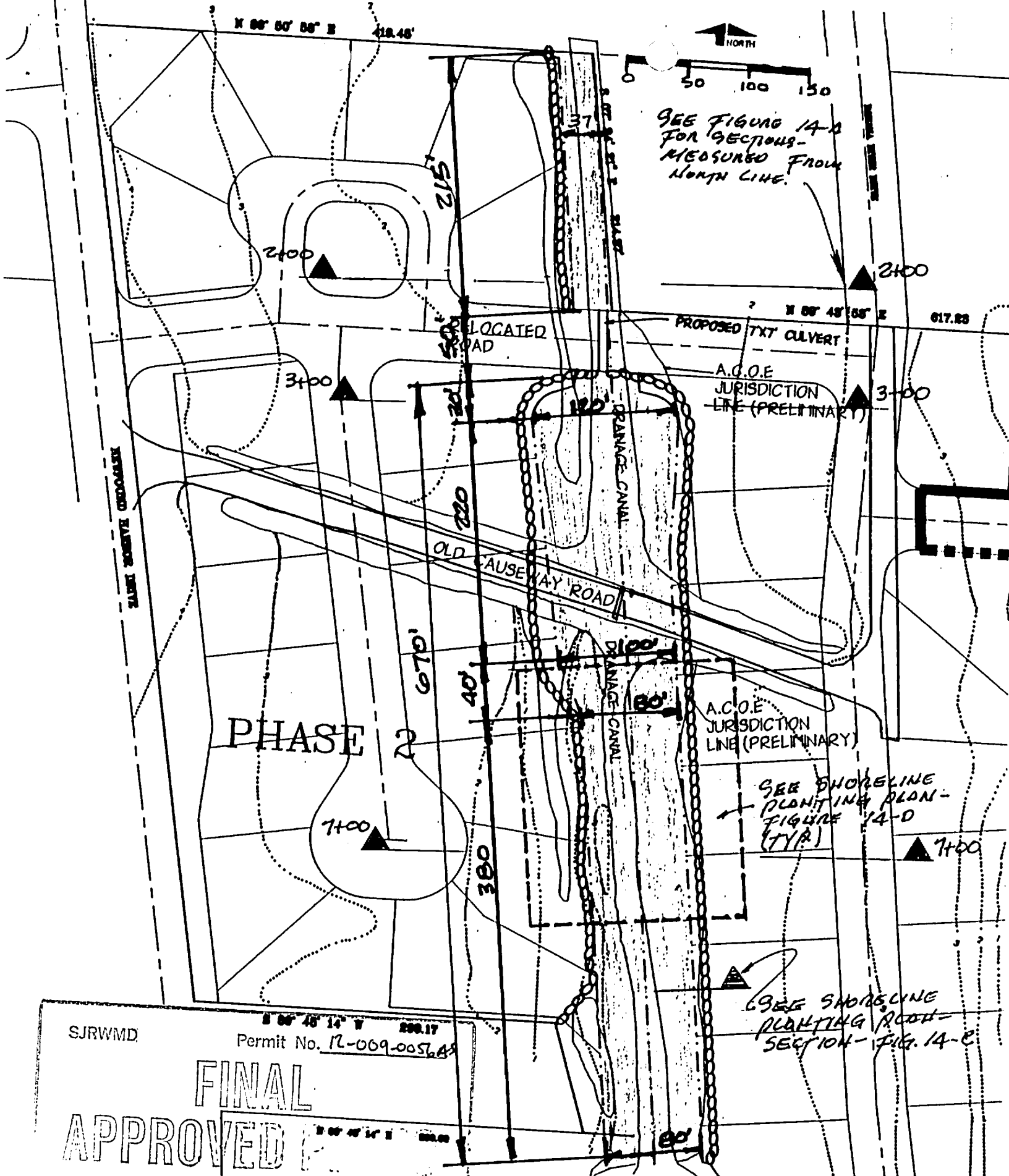
John M. Fleis 10/31/90

ENGINEERS / PLANNERS / DEVELOPERS

SOUTHEAST BANK BUILDING
1000 HIGHWAY 17A, SUITE 300
SATELLITE BEACH, FLORIDA 32937
(407) 777-2701

HARBOR POINT PHASE 2
WETLAND AREAS TO BE FILLED

88.153
13-B
10-25-90
REV.
SHEET OF

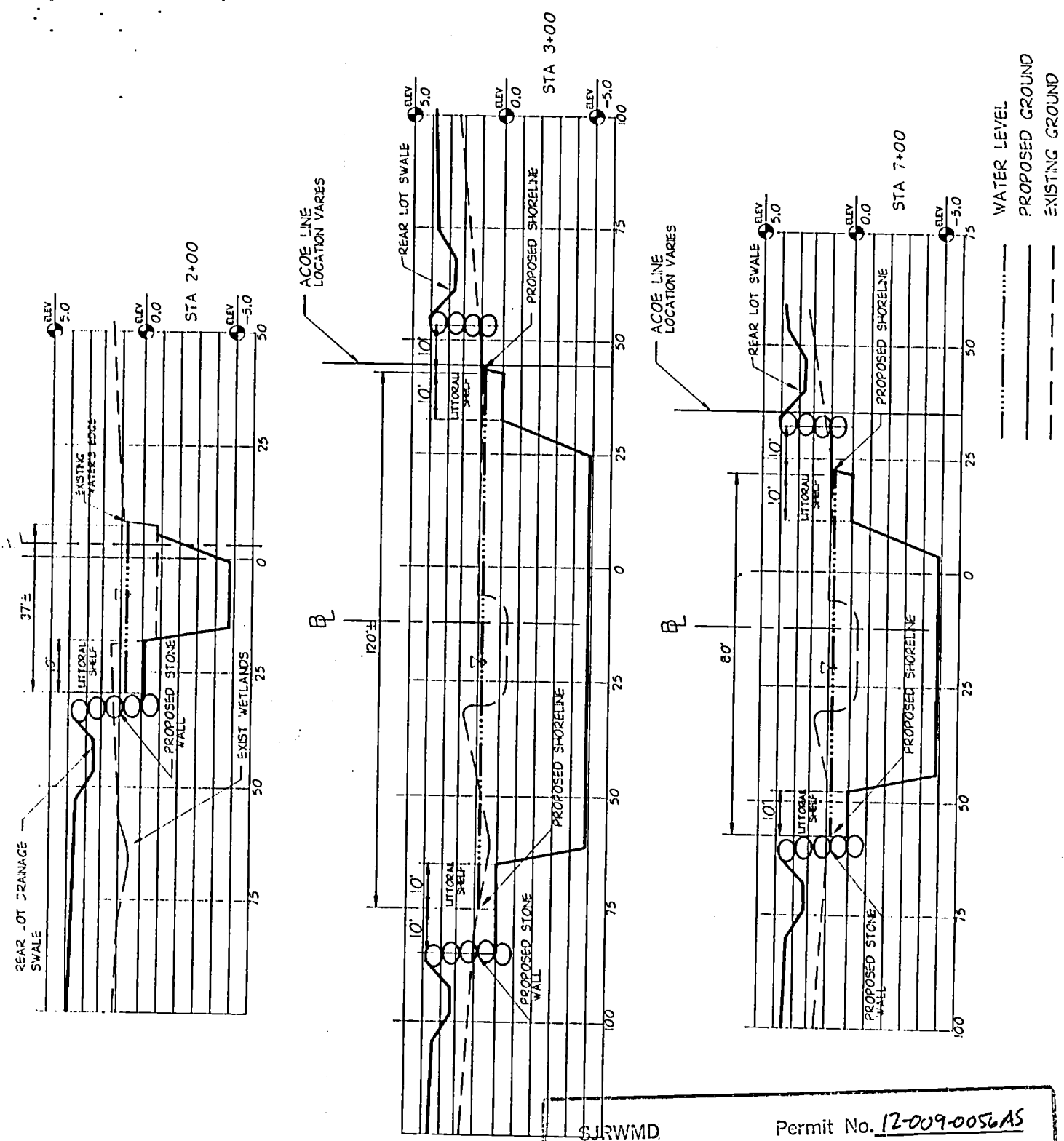


SJRWMD
 Permit No. 12-069-0056A
FINAL APPROVED

FLEIS ASSOCIATES
 SOUTHEAST BANK BUILDING
 1000 HIGHWAY 17A, SUITE 200
 SATELLITE BEACH, FLORIDA 32937
 (407) 777-2701
 EDWARD M. FLEIS
 P.E. NO. 0030832
 10/31/90

Harbor Point Phase 2
 Proposed Canal
 Dimensions

88.153
 Fig. 14
 9-7-90
 10-25-90 Rev



HARBOR POINT

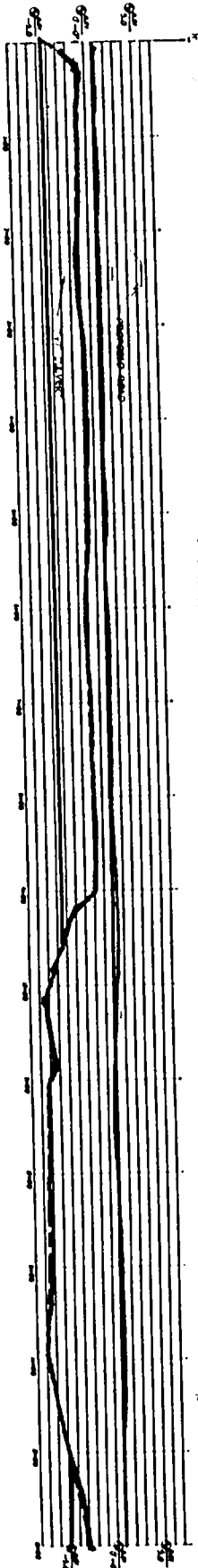
SJRWMD Permit No. 12-009-0056AS

FINAL APPROVED PLANS

FLEIS ASSOCIATES
 309 EAST BAY BLVD
 1000 HIGHWAY 91A, SUITE 200
 SATTELITE BEACH, FLORIDA 32937
 EDWARD M. FLEIS
 P.E. NO. 0030832
 (407) 777-2701

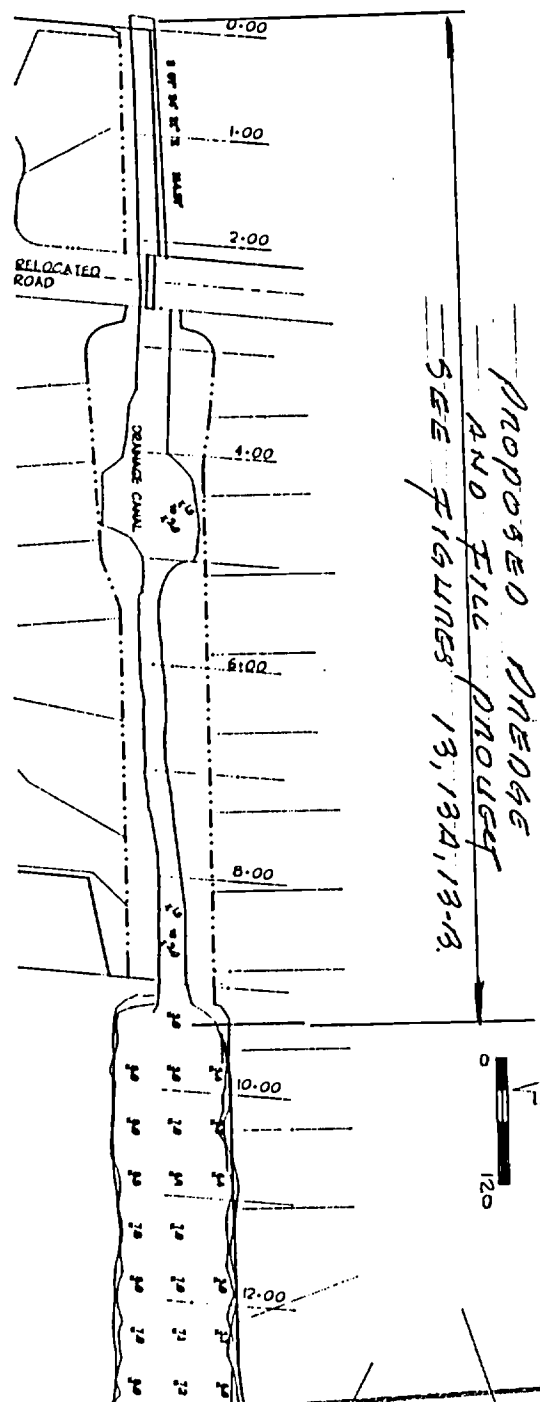
Harbor Point Phase 2
 Cross-section

88.153
 Fig. 14-A
 9-7-90



HARBOR POINT

PROPOSED CANAL
EXISTING CANAL
WATER CANAL



PROPOSED MUDGGE
AND FILL PROJECT
SEE FIGURES 13, 13A, 13-B.

PROPOSED MD
MAINTENANCE
MERGING
SEE FIGURES
20 + 20-D

Permit No. 12-0090056AS

FINAL

APPROVED PLANS

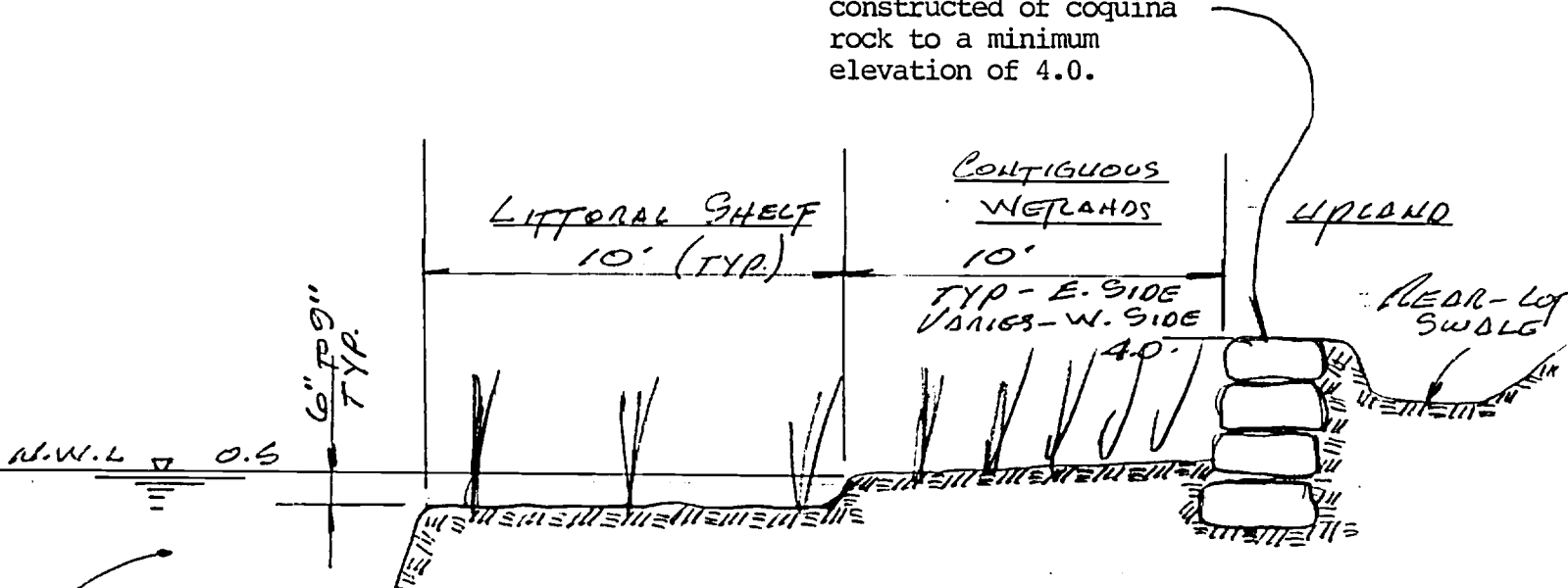
FLEIS ASSOCIATES, INC.
 1090 HIGHWAY A1A, SUITE 200
 SATELLITE BEACH, FLORIDA 32937
 (407) 777-2701

Ed Fleis
 10/31/90

Harbor Point Phase 2
 Profile of Canal

88.153
 Fig. 14-B
 9-7-90
 10-25-90Rev

Retaining wall to be constructed of coquina rock to a minimum elevation of 4.0.



Dredged material to be placed upland.

Within this zone, relocate mangroves removed from areas to be dredged. Plant Avicennia germinans and Spartina alterniflora. (See 14-D)

Within the wetlands, remove exotics, dead trees and limbs, grade to maximum elevation of 1.5, transplant Leather Ferns, and plant Avicennia germinans and Spartina alterniflora.

Section

SJRWMD Permit No. 12-009-0056AS

FINAL

APPROVED PLANS

FLEIS ASSOCIATES

[Signature]

EDWARD M. FLEIS
P.E. NO. 0030932

SOUTHEAST BANK BUILDING
1090 HIGHWAY 1A, SUITE 300
SATELLITE BEACH, FLORIDA 32937
(407) 277-2101

[Signature]

Harbor Point Phase 2
Shoreline Planting
Plan - Section

88.153
Fig. 14-C
9-7-90

REMOVE ALL EXOTICS,
DEAD TREES & MBS
FROM THE LITTORAL
SHELF AND WETLAND
AREA. DESIRABLE
WETLAND PLANTS
TO BE PROTECTED.

SPARTINA ALTERNIFLORA
TO BE PLANTED 30"
O.C. OVER BALANCE
OF LITTORAL SHELF
AND WETLANDS

RELOCATE LEATHER
FERNS TO WETLANDS

EXISTING
DRAINAGE
CHANNEL

30' CHANNEL WIDTH

RETAINING WALL
OF COPING
CONSTRUCTED TO
MINIMUM ELEVATION
OF 4.0
(TYP.)

LITTORAL
SHELF.

ENHANCED
WETLAND AREA

24" HIGH BLACK
MANGROVES TO BE
PLANTED 4' O.C.
AT EACH LOT LINE
APPROX 450 REQ'D

6 @ 4.50
(TYP.)

SJR VMD

Permit No. 12-009-0056AS

FINAL
APPROVED PLANS

FLEIS ASSOCIATES, INC.
 1090 HIGHWAY A1A, SUITE 200
 SATELLITE BEACH, FLORIDA 32937
 (407) 777-2701

EDWARD M. FLEIS
 P.E. NO. 0000832

D. 1190

HARBOR POINT .PHASE 2
 SHORELINE PLANTING PLAN

88.153
 FIG. 14-D
 9-7-90
 SHEET OF

Pre and Post Development
Wetland Inventory

SJRWMD

Permit No. 12009-0056AS

FINAL

APPROVED PLANS

Pre Development Inventory of Wetlands

Phase 2 - (Canals & Wetlands)

1. Waters of the State		
Existing Canal		0.47 Acres
Drainage Canals Parallel to Road		0.25 Acres
Contiguous Wetlands East of Canal		0.58 Acres
Contiguous Wetlands West of Canal		0.09 Acres
		<u>1.39 Acres</u>
2. Isolated Wetlands		
West of Canal		0.15 Acres
	TOTAL	<u>1.54 Acres</u>


Phase 2 - (Proposed Construction)

1. To be Dredged		
Waters of the State		1.00 Acres
Isolated Wetlands		0.05 Acres
Upland		0.55 Acres
		<u>1.60 Acres</u>
2. To be Enhanced as Contiguous Wetlands		
Waters of the State		0.12 Acres
Isolated Wetlands		0.03 Acres
Adjacent Non-Jurisdictional Land		0.23 Acres
		<u>0.38 Acres</u>
3. Wetlands to be Filled		
Area A - Drainage Canals		0.18 Acres
Area B - Contiguous Wetlands		
West of Canal		0.05 Acres
Area C - Isolated Wetlands		
West of Canal		0.07 Acres
Area D - Relocated Roadway		0.04 Acres
		<u>0.34 Acres</u>

Post Development Inventory of Wetlands

Area of Canal		1.60 Acres
Area of Contiguous Wetlands		<u>0.38 Acres</u>
Total Waters of the State		1.98 Acres

Note: Area of the Canal includes 0.36 acres of planted littoral shelf.



FLEIS ASSOCIATES
SOUTHEAST BANK BUILDING
1080 MIDWAY A1A, SUITE 200
SATellite BEACH, FLORIDA 32937
(407) 777-2701

Edward M. Fleis
10/31/90
ENGINEER, PLANNER, DEVELOPER

EDWARD M. FLEIS
P.E. NO. 0030832

HARBOR POINT PHASE 2
Pre and Post Development

88.153
FIG. 15
9-7-90
10-25-90 Rev.
SHEET OF

N 00° 00' 00" E 418.45'

SILT FENCE



0 50 100 150

N 00° 45' 00" E

617.23

AREA 2

RELOCATED ROAD

PROPOSED TXT CULVERT

A.C.O.E JURISDICTION LINE (PRELIMINARY)

DRAINAGE CANAL

OLD CAUSEWAY ROAD

A.C.O.E JURISDICTION LINE (PRELIMINARY)

PHASE 2

AREA 1

S 00° 45' 14" W 298.17

Plot No. 12-009-0056AS

- Areas 1 and 2 - Upland Fill Areas
- Area 3 - Area Between Existing Canal and Edge of Littoral Shelf
- Area 4 - Littoral Shelf and Contiguous Wetland Area

APPROVED PLANS
Douglas
SILT FENCES



FLEIS ASSOCIATES

SOUTHEAST BANK BUILDING
1090 HIGHWAY 1A, SUITE 200
SATELITE BEACH, FLORIDA 32937

(407) 777-2701

EDWARD M. FLEIS
P.E. NO. 0030832

10/31/90

Harbor Point Phase 2
Construction Areas

88.153
Fig. 18
9-7-90
10-25-90 Rev.

WETLAND CONSTRUCTION PHASING SEQUENCE

- 1) Install silt fences at locations shown on Figure 18. Erosion and sedimentation control measures are to be consistent with the requirements of the St. Johns River Water Management District. Best Measurement Practice for Construction.
- 2) Remove fish from area of existing canal between earth dikes by netting. All netted fish to be relocated to existing canal south of the construction area.
- 3) Clear and grub fill areas 1 and 2 except for selected trees. Cleared materials are to be stockpiled and burned or hauled to a suitable disposal area. Clear and grub the areas designated 3 where the depth of water of the proposed canal is greater than 12 inches. Protect and salvage leather ferns and mangroves for transplanting. Selectively clear the littoral zone and the contiguous wetlands (Area 4) of all dead trees and limbs and exotics.
- 4) Remove any organic soils from areas designated 1, 2, and 3 and stockpile in designated areas.
- 5) Construct earth dikes around areas 1 and 2 to minimum elevation 4.5.
- 6) Dredge to final cross section the entire proposed canal area, except the area of the existing roadbed of Old Causeway Road. Dredged material to be pumped to areas 1 and 2 which are contained within the earth dikes. Dredging may also be accomplished by backhoe or clamshell and the material transported by truck.
- 7) Transplant leather ferns to wetland area between new shoreline and ACOE Jurisdictional Line and mangroves into the littoral shelf.
- 8) Install retaining wall upland of the new wetlands boundary.
- 9) After the dredged material has drained, the roadbed and remaining filled areas are to be graded. Install sanitary sewer, water, drainage, and road improvement within proposed street system.
- 10) Abandon existing watermain in Old Causeway Road by physical disconnection from the existing system. Asphalt and base to be pulverized, removed, and recycled as base for relocated roadway.
- 11) Excavate existing Old Causeway Road roadbed within proposed canal by backhoe to finish grades.
- 12) Remove silt fences.
- 13) Complete planting of mangrove and wetland plants within designated submerged shoreline and contiguous wetland area.

SJRWMD

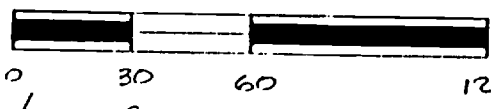
Permit No. 12-069-0056AS

FINAL
APPROVED PLANS

HARBOR POINT PHASE 2
Wetland Construction Phasing
Sequence

88.153
Fig. 18-A
9-7-90
10-25-90 Rev.

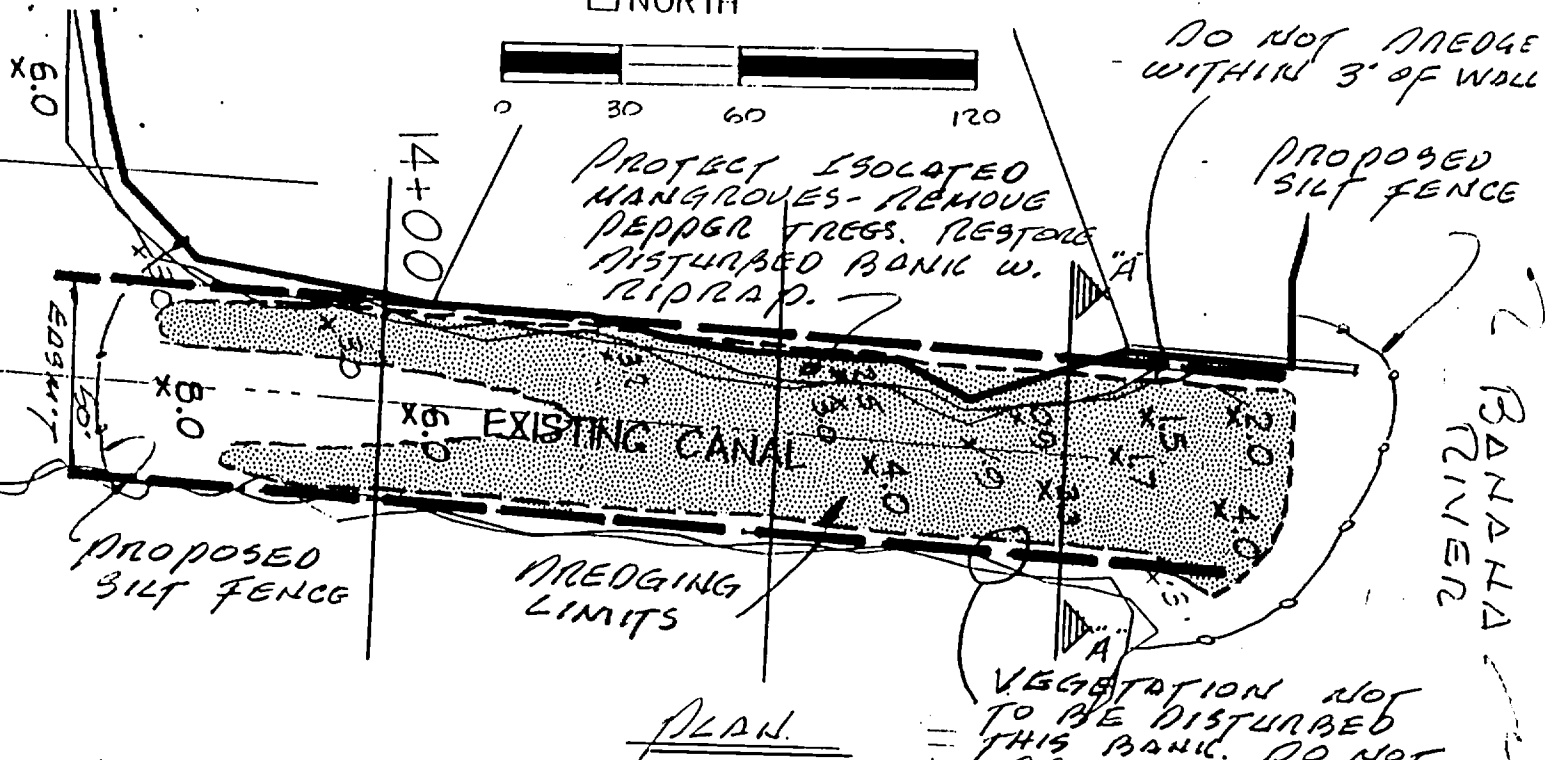




DO NOT DREDGE WITHIN 3' OF WALL

PROTECT ISOLATED MANGROVES - REMOVE PEPPER TREES. RESTORE DISTURBED BANK W. RIPRAP.

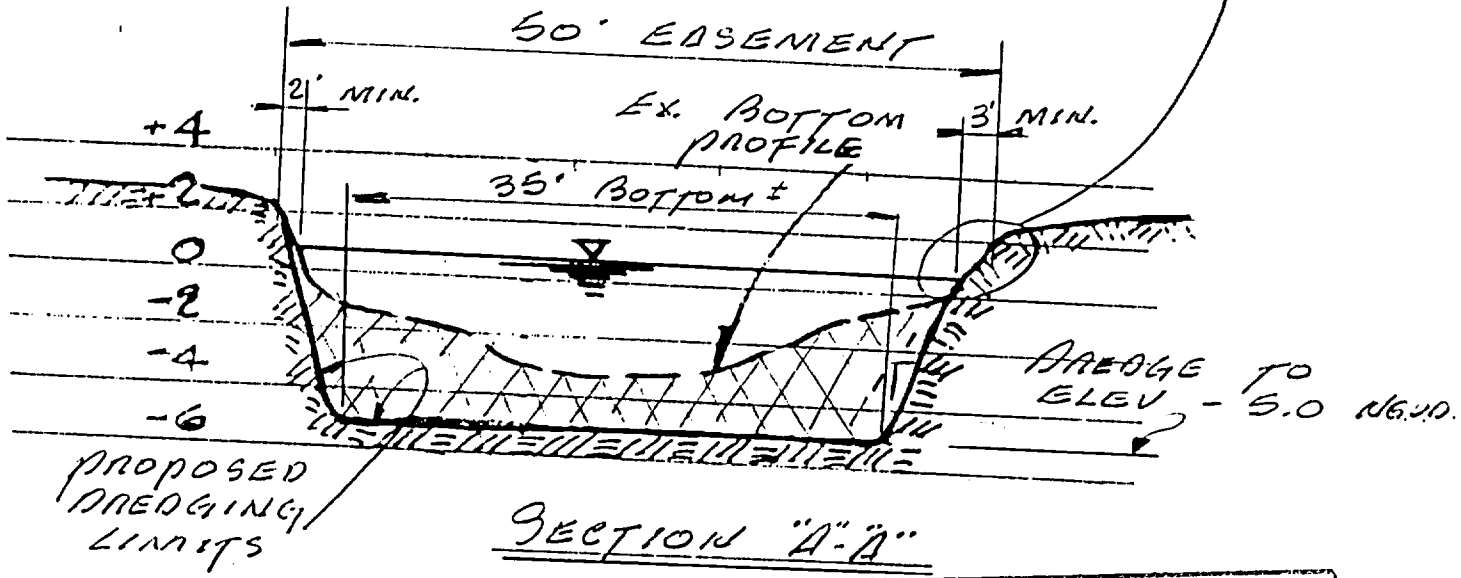
PROPOSED SILT FENCE



PLAN

VOLUME TO BE EXCAVATED - ESF @ 1,200 CU. YDS.

VEGETATION NOT TO BE DISTURBED THIS BANK. DO NOT DREDGE WITHIN 3' OF EASEMENT OR BANK



SECTION "A-A"

SJRWMD

Permit No. 12-009-0056AS

FINAL

HARBOR POINT PHASE 2
Maintenance Dredging
Plan and Section

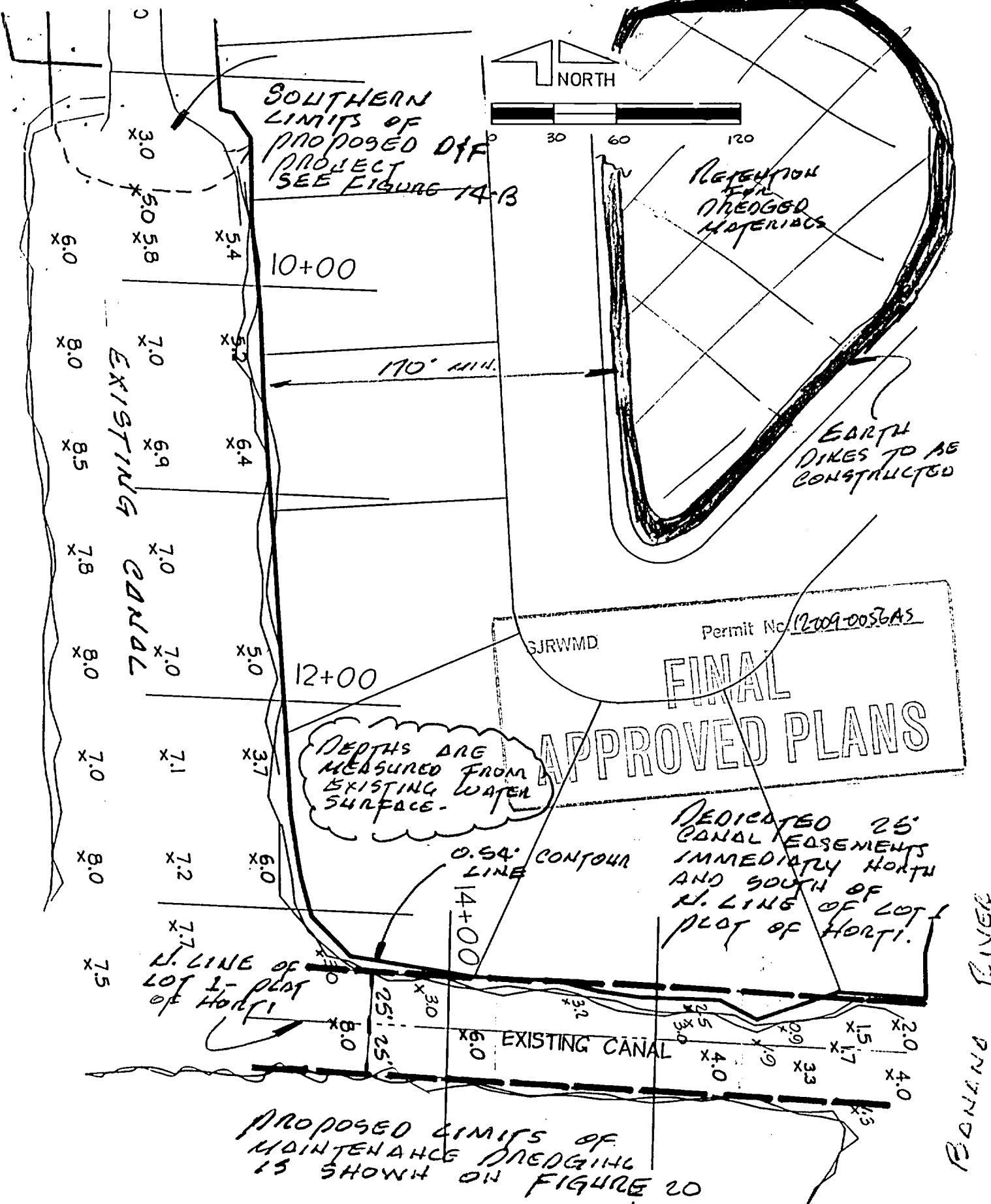
88-153
Fig. 20
10-25-90

FLEIS ASSOCIATES

SOUTHEAST BANK BUILDING
1080 HIGHWAY 1A, SUITE 208
SATELLITE BEACH, FLORIDA 32937
(407) 777-3701

[Signature]

10.31.90



FLEIS ASSOCIATES

SOUTHEAST BANK BUILDING
1000 HIGHWAY 1A, SUITE 200
SATELLITE BEACH, FLORIDA 32937
(407) 777-2701

W. M. Fleis 10/31/90

HARBOR POINT PHASE 2

"Maintenance" Dredging Depths of Existing Canal

88.153

Fig. 20-A

10-25-90