

DEPARTMENT OF THE ARMY PERMIT

Permittee Plaquemines Parish Government

Permit No. SE (Mississippi River)1465

Issuing Office New Orleans District

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: Install and maintain eight siphon pipes, a timber intake structure, a vacuum pipe and approximately 2,500 cubic yards of rip-rap and dredge and maintain a discharge pond and five outfall channels to construct a freshwater diversion structure, in accordance with the drawings attached, in five sheets, undated, and revised May 2, 1989, and July 7, 1989.

Project Location: In the Mississippi River, at river mile 48.9 AHOP, at West Pointe-a-la-Hache, Louisiana, in Plaquemines Parish.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on October 31, 1992. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

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

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

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

Special Conditions:

7. The time limit for maintenance dredging activities, authorized herein, expires 10 years from the effective date of this approval.

8. The permittee shall provide to the Corps of Engineers, New Orleans District, a stability analysis for the construction case and operational case for landward stability of the levee accounting for the overbuild on the levee including the bypass ramp.

Special Conditions Continued on page 4.

Further Information:

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

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

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

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

2. Limits of this authorization.

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

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

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

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

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

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

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

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

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

Special Conditions Cont.

9. That the permittee is aware that no construction may begin on the work authorized herein until this District's Engineering Division has reviewed the requested stability analysis and approved, in writing, the final construction design. Upon review and approval of the stability analysis and construction design, a letter of no objection from the Operation and Readiness Division will be forwarded relative to the required levee board permit for work on the batture and levee.

10. If the stability analysis indicates that the levee would be jeopardized by construction of the proposed diversion structure, this permit becomes null and void.

11. The permittee shall coordinate operations of the West Pointe-a-la-Hache water diversion structure with water diversion structures operated by the Corps of Engineers.

12. The permittee shall monitor water quality as proposed in the Monitoring Plan (see attached appendix A). The permittee shall provide to the Corps of Engineers an annual report which shall include the following information: a) results of bimonthly water sampling; b) the operations schedule for the structure including dates of operation, daily discharge rates and volumes; c) bimonthly visual inspection of turbidity plumes to determine flow regime of freshwater during operation of structure; d) the initial and year end number of acres of open water and emergent vegetation in the area of impact defined by the turbidity plume (erosion and accretion rates); and e) any other relevant information noted including salinity changes, vegetation changes, changes in species composition of aquatic organisms, increased water elevation over the marsh, etc.

13. The permittee shall submit proposed modifications of the freshwater diversion system and/or monitoring plan to the New Orleans District and other interested Federal and state resource agencies for evaluation, processing, and permit modification prior to implementation.

14. The permittee shall install and maintain, at their expense, any safety lights and/or signals prescribed by the US Coast Guard, through regulations and otherwise, on their authorized facilities.

15. The permittee shall install and maintain, at their expense, signs warning navigational interests of the possible dangers associated with the intake siphons.

16. The permittee shall dispose of the dredged material from the discharge pond in a nonwetland site as approved by the New Orleans District.

15' X 4' OUTFALL
CHANNELS @ 100' OC
2,000 L.F. (EA)

DISCHARGE POND

RIP RAP

WHSF OFFICE

8" 12" PIPES 76' WIDTH
UNDERGROUND WITH 4' COVER

30' R/W

POWER

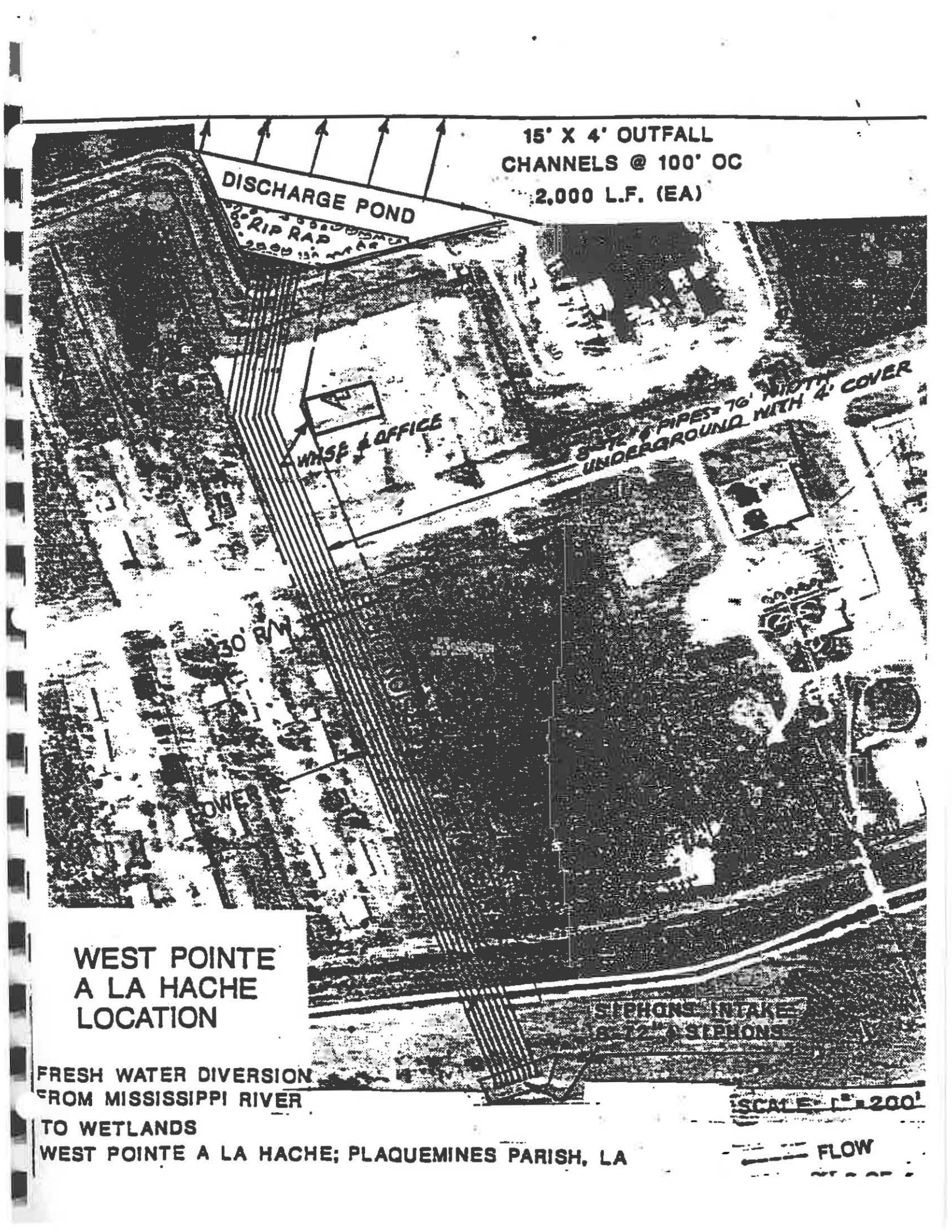
SIPHONS INTAKE
8" 12" SIPHONS

WEST POINTE A LA HACHE LOCATION

FRESH WATER DIVERSION
FROM MISSISSIPPI RIVER
TO WETLANDS
WEST POINTE A LA HACHE; PLAQUEMINES PARISH, LA

SCALE 1" = 200'

FLOW



MISSISSIPPI RIVER

FLOW



INTAKE & LEVEE CROSSING

EXIST. REVEALMENT
RIP RAP AT ALL PILES
THAT PENETRATE EXIST.
REVEALMENT IN ACCORD
W/USCE STD DRAWINGS

NEW CONC FOOTINGS THRU
SLOPE PROTECTION SLAB
STAY ON NEW LEVEL SLOPE

EXIST. CONC SLOPE
& BUILDUP LEVEL
EXIST. PROFILE
AT STA. 1759+25.24
FROM & LEVEE
PROTECTION

REMOVE & REPLACE
RIP RAP AROUND PIPE
NEW CONC FOOTING
THRU EXIST. SLAB
SECTION EXIST. IS LEVEL

NEW STEEL SIPHON PIPE 72" DIA

SIPHONS
PLAN

EXIST. SLOPE PAVING
4" CONC SLOPE PAVING
CONFORMING TO USCE
STANDARD DRAWINGS

EXIST. CONC SLOPE
PROTECTION

NEW CONC SLAB

STAGE STA. 1759+25.24

SIPHONS
SECTION

CROWN OF EXIST. LEVEL

EL. 116.7 (PROPOSED)
EL. 118.7 (EXIST.)
EL. 112.6 (EXIST.)
(BEFORE BUILDUP)

EXIST. PIPE LINE'S
LOCATION APPROX.

PROPOSED BY-PASS RD

EXIST. 6" DIA. 1759+25.24
TO BE RELOCATED
STEELED CHAINS

EXIST. PROFILE
AT STA. 1759+25

PROPOSED NEW LOCATION
OF R/R TRACK

76' 5" TO 81' 5" HWY 25

72" OUT TO OUT OF PIPE
TYP GROUP OF EIGHT (8)
72" SIPHONS

R/W & LOWER P/L OF PLAQUEMINES
PARISH GOV PROPERTY



SCALE 1:1000'

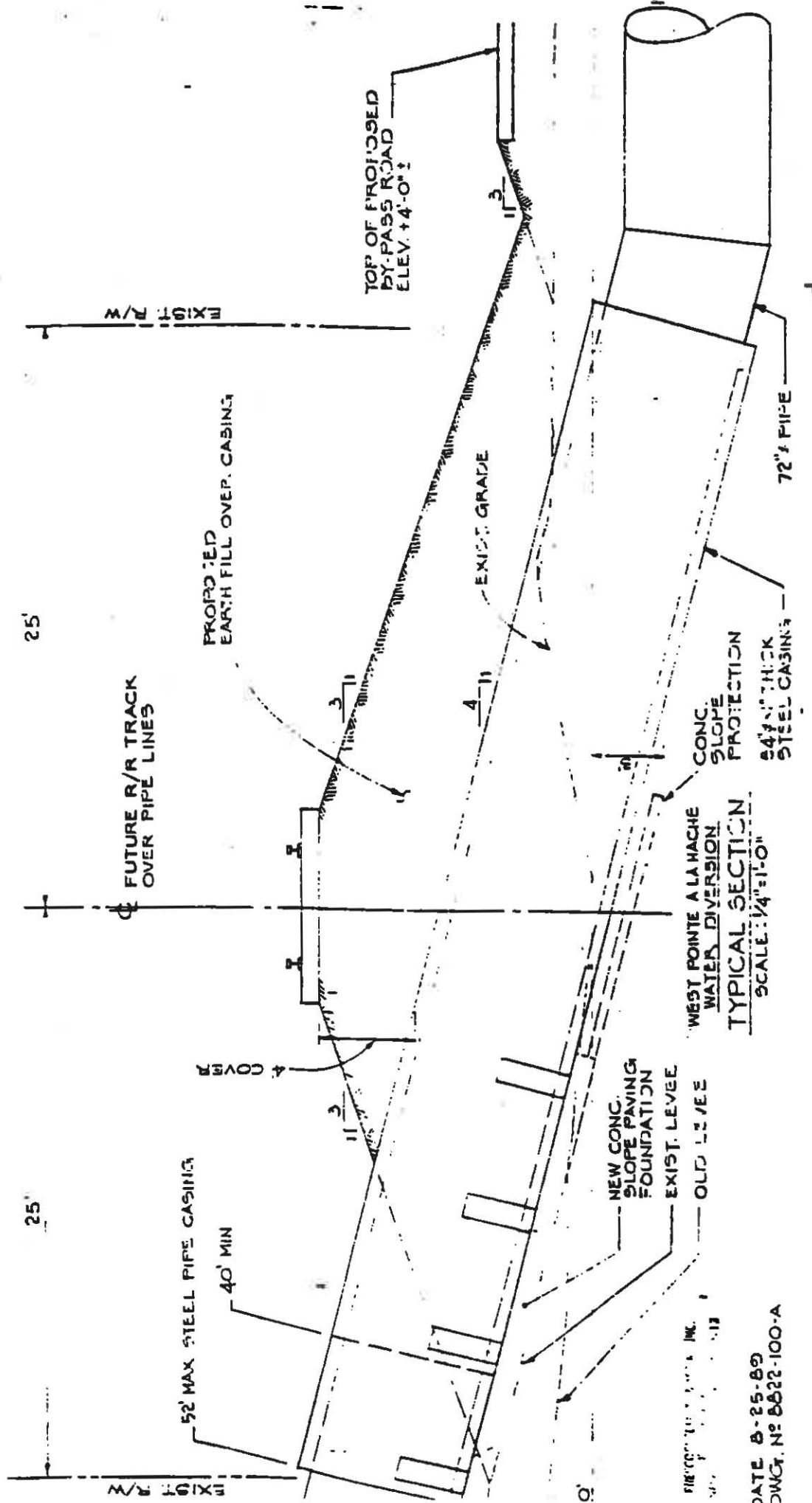
PLAQUEMINES
MISSISSIPPI RIVER

PROJECT POINTS & ASSOCIATED

PLAQUEMINES PARISH GOVERNMENT
FRESH WATER DIVERSION PROJECT

WEST POINT - A-1A - MACHINE
INTAKE - LEVEE - R/R CROSSING
PLAN & PROFILE

Table with project details including date (JUL 11 2007), sheet number (8022-1), and drawing title (Drawing 1).



25'

25'

EXIST. R/W

EXIST. R/W

FUTURE R/R TRACK OVER PIPE LINES

PROPOSED EARTH FILL OVER CASING

TOP OF PROPOSED BY-PASS ROAD ELEV. +4'-0"

EXIST. GRADE

72" PIPE

CONC. SLOPE PROTECTION
64" THICK STEEL CASING

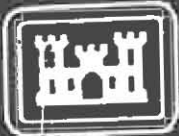
WEST POINTE A LA HACHE
WATER DIVERSION
TYPICAL SECTION
SCALE: 1/4" = 1'-0"

NEW CONC. SLOPE PAVING FOUNDATION
EXIST. LEVEE
OLD LEVEE

52' MAX STEEL PIPE CASING
40' MIN

ENGINEERING FIRM, INC.

DATE 8-25-89
DWG. NO. 8622-100-A



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

United States Army Corps of Engineers

Oct. 13, 19 89

A permit to install and maintain eight siphon pipes, a timber intake structure, a vacuum pipe and approximately 2,500 cubic yards of rip-rap and dredge and maintain a discharge pond and five outfall channels to construct ~~a freshwater diversion structure, in the Mississippi River, at river~~ mile 48.9 AHOP, at West Pointe-a-la-Hache, Louisiana, in Plaquemines Parish,

has been issued to Plaquemines Parish Government on Oct 13, 19 89
Courthouse

Address of Permittee Pointe-a-la-Hache, Louisiana 70082

Permit Number

SE(Mississippi River)1465

Albert J. Guillot
Albert J. Guillot

For the District Commander



DEPARTMENT OF NATURAL RESOURCES
COASTAL MANAGEMENT DIVISION

P. O. BOX 44487
BATON ROUGE, LOUISIANA 70804-4487
(504) 342-7591

COASTAL USE PERMIT/CONSISTENCY DETERMINATION

C.U.P. No. P881043

C.O.E. No. LMNOD-SE (Mississippi River) 1465

NAME AND ADDRESS: PLAQUEMINES PARISH GOVERNMENT COURTHOUSE, Pointe-a-la-Hache,
Louisiana 70082

LOCATION: PLAQUEMINES PARISH, LA: At Lat. 29° 34'04", Long. 89° 48'11",
along right descending bank of the Mississippi River 48.9 miles A.H.P. and adjacent
west bank wetlands near West Pointe-a-la-Hache, La.

PROJECT DESCRIPTION: To construct a freshwater diversion system to divert sediment-
laden water from the Mississippi River into west bank wetlands to offset saltwater
intrusion and land subsidence. The diversion system to consist of 8-72" steel
siphon pipes of +1725' length, a timber intake structure, a vacuum pipe for
priming siphons, a 3,800 sq.ft. rip rap area, a 107,500 sq.ft. discharge pond and 5
outfall channels, 15' x 4' x 2000'. Approx. 20,000 cu.yds. of material to be
excavated by dragline to bury portions of the siphons to a depth of 4' and dredge a
discharge pond; the material to be hauled away and deposited in a fastland area.
Approx. 25,000 cu.yds. of marsh and pond bottom material to be excavated with jet
spray equipment for the outfall channels and deposited in a thin layer on adjacent
marsh. Approx. 3.5 acres of brackish marsh will be lost to the discharge pond and
outfall channels. Approx. 2,500 cu.yds. of rip rap to be deposited in the siphon
discharge area for erosion control.

In accordance with the rules and regulations of the Louisiana Coastal Resources Program and Louisiana R.S. 49, Sections 213.1 to 213.21, the State and Local Coastal Resources Management Act of 1978, as amended, the permittee agrees to:

1. Carry out or perform the use in accordance with the plans and specifications approved by Department of Natural Resources.
2. Comply with any permit conditions imposed by the Department of Natural Resources.
3. Adjust, alter, or remove any structure or other physical evidence of the permitted use if, in the opinion of the Department of Natural Resources, it proves to be beyond the scope of the use as approved or is abandoned.
4. Provide, if required by the Department of Natural Resources, an acceptable surety bond in an appropriate amount to ensure adjustment, alteration, or removal should the Department of Natural Resources determine it necessary.
5. Hold and save the State of Louisiana, the local government, the department, and their officers and employees harmless from any damage to persons or property which might result from the work, activity, or structure permitted.
6. Certify that any permitted construction has been completed in an acceptable and satisfactory manner and in accordance with the plans and specifications approved by the Department of Natural Resources. The Department of Natural Resources may, when appropriate, require such certification be given by a registered professional engineer.
7. All terms of the permit shall be subject to all applicable federal and state laws and regulations.
8. This permit, or a copy thereof, shall be available for inspection at the site of work at all times during operations.
9. The applicant will notify the Coastal Management Division of the date on which approved work began on site using the enclosed green commencement card upon initial activity under this permit.
10. Unless specified otherwise elsewhere in this permit, this permit authorizes the initiation of the work described herein for two years from the date of the Department of Natural Resources' authorizing signature; thus, if work is not started in two years, this permit will expire, and it will be necessary that a new permit application be submitted for this coastal use.
11. This Coastal Use Permit authorizes periodic maintenance, but such maintenance activities must be conducted pursuant to the specifications and conditions of this permit.
12. The following special conditions must also be met in order for the project to meet the guidelines of the coastal resources program:

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- a. The permittee shall monitor the freshwater diversion project according to the Monitoring Plan submitted by Plaquemines Parish Government on May 2, 1989.
- b. The permittee shall submit an annual report on the operation and monitoring activities addressing the effectiveness of the siphons in maintaining a desirable salinity regime and in maintaining acceptable levels on pollutants in the outfall waters. Bimonthly monitoring data should be included in the annual report.
- c. Any proposed modification or additions to the freshwater diversion system or monitoring plan must be submitted to CMD for approval prior to initiation of such changes.
- d. All logs and stumps unearthed during dredging will be buried beneath the bottom of the waterway or removed to a disposal site on land.

By accepting this permit the applicant agrees to its terms and conditions.

I affix my signature and issue this permit this 31st day of July, 1989.

Department of Natural Resources

Terry W. Howey
Terry W. Howey, Director
Coastal Management Division

This agreement becomes binding when signed by the Director of the Coastal Management Division, Department of Natural Resources.

