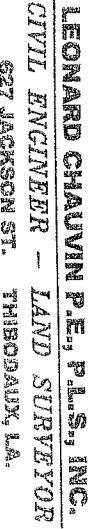


Figure 1 is a horizontal bar chart showing the distribution of the number of species per genus (N) for 10 genera. The x-axis is labeled 'N' and ranges from 0 to 30,000. The y-axis lists the genera: 10,000, 5,000, 0, 10,000, 20,000, and 30,000. The bars are divided into segments representing different species counts per genus.



PERMIT PLAT  
LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
LOCATED IN T16S -- R18E SECTION 24  
& T16S -- R19E SECTIONS 61 & 62  
LAFOURCHE PARISH, LOUISIANA  
APPLICATION BY: NLODD  
DATE: MARCH 23, 2011

PERMIT PLAT  
LOWER BAYOU FOLSE PROPOSED WETLAND  
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DATE: MARCH 23, 2011

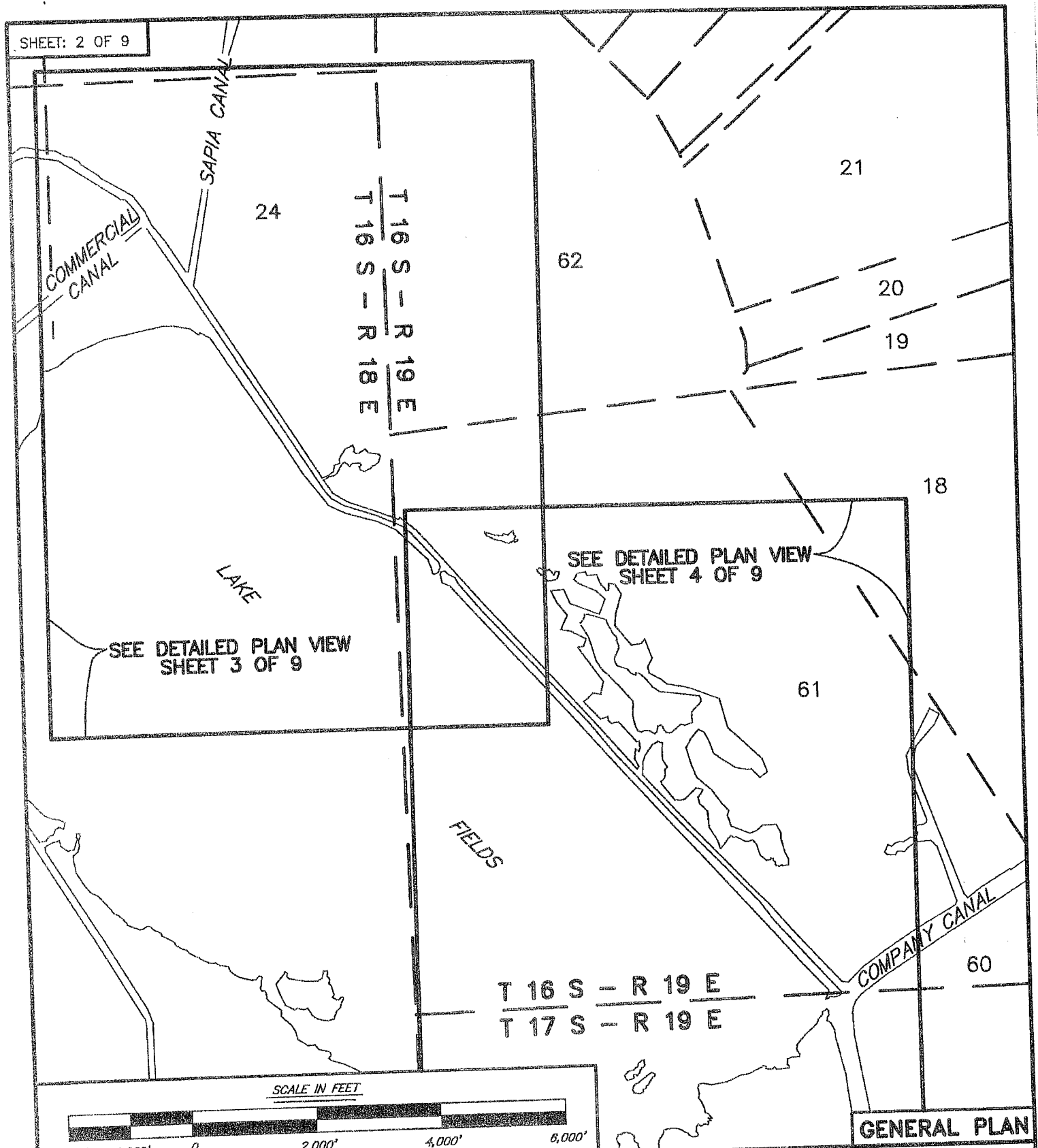
PERMIT PLAT  
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LAFOURCHE PARISH, LOUISIANA  
APPLICATION BY: NLODD  
DATE: MARCH 23, 2011



**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE TO REROUTE TURBID WATERS AWAY FROM LAKE FIELDS AND CREATE WETLANDS THROUGH THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL

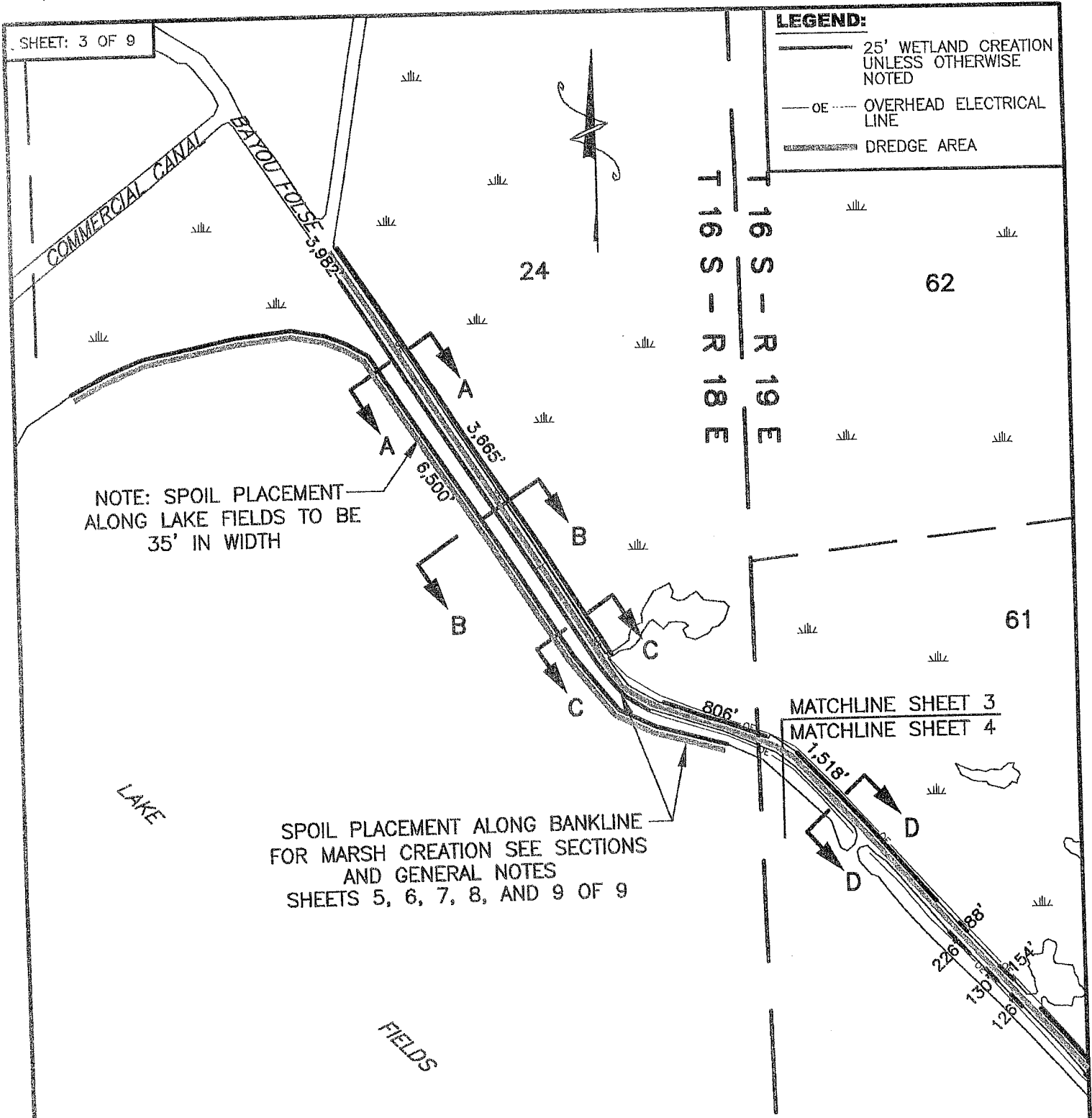


**LEONARD CHAUVIN P.E., P.L.S., INC.**  
**CIVIL ENGINEER - LAND SURVEYOR**  
 627 JACKSON ST. THIBODAUX, LA.

**PERMIT PLAT**  
 LOWER BAYOU FOLSE PROPOSED WETLAND CREATION AND DREDGING PROJECT  
 LOCATED IN T16S - R18E SECTION 24 & T16S - R19E SECTIONS 61 & 62  
 LAFOURCHE PARISH, LOUISIANA  
 APPLICATION BY: NLCLDD  
 DATE: MARCH 23, 2011

**LEGEND:**

- 25' WETLAND CREATION UNLESS OTHERWISE NOTED
- OE — OVERHEAD ELECTRICAL LINE
- DREDGE AREA

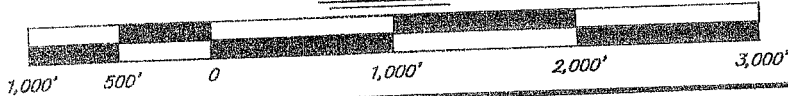


NOTE: SPOIL PLACEMENT  
ALONG LAKE FIELDS TO BE  
35' IN WIDTH

SPOIL PLACEMENT ALONG BANKLINE  
FOR MARSH CREATION SEE SECTIONS  
AND GENERAL NOTES  
SHEETS 5, 6, 7, 8, AND 9 OF 9

MATCHLINE SHEET 3  
MATCHLINE SHEET 4

SCALE IN FEET



**DETAILED PLAN**

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE  
TO REROUTE TURBID WATERS AWAY FROM  
LAKE FIELDS AND CREATE WETLANDS THROUGH  
THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL




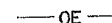

**LEONARD CHAUVIN P.E., P.L.S., INC.**  
**CIVIL ENGINEER — LAND SURVEYOR**  
627 JACKSON ST. THIBODAUX, LA.

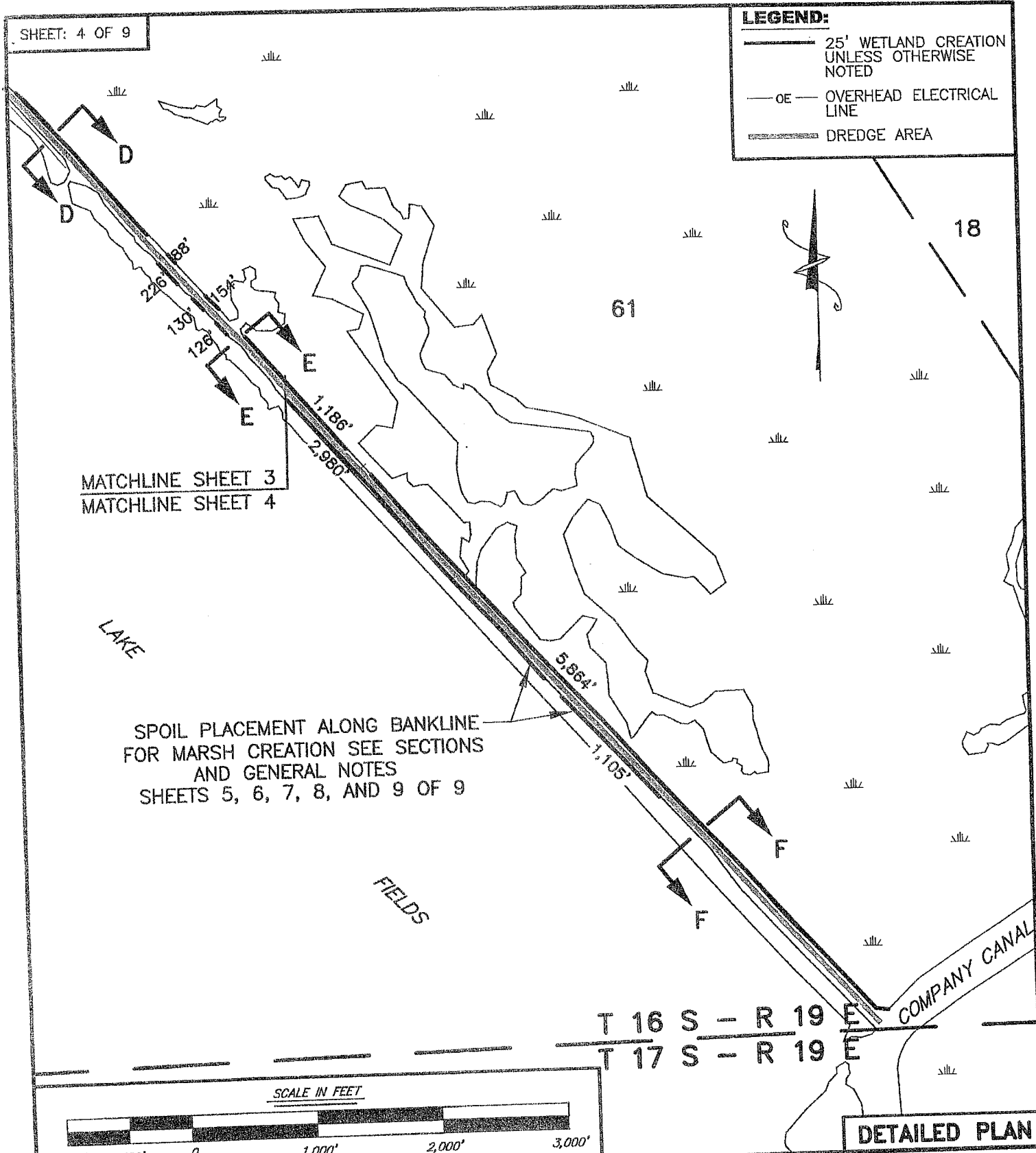
**PERMIT PLAT**

**LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
LOCATED IN T16S — R18E SECTION 24  
& T16S — R19E SECTIONS 61 & 62  
LAFORCHE PARISH, LOUISIANA**

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011

**LEGEND:**

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-  OE OVERHEAD ELECTRICAL LINE
-  DREDGE AREA

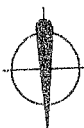


MATCHLINE SHEET 3  
MATCHLINE SHEET 4

SPOIL PLACEMENT ALONG BANKLINE  
FOR MARSH CREATION SEE SECTIONS  
AND GENERAL NOTES  
SHEETS 5, 6, 7, 8, AND 9 OF 9

**DETAILED PLAN**

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE  
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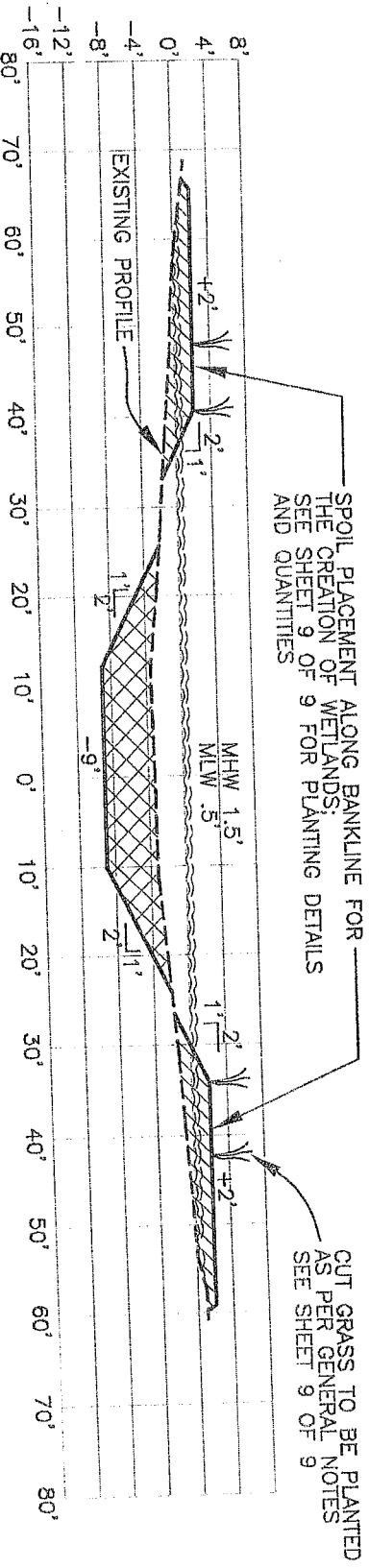
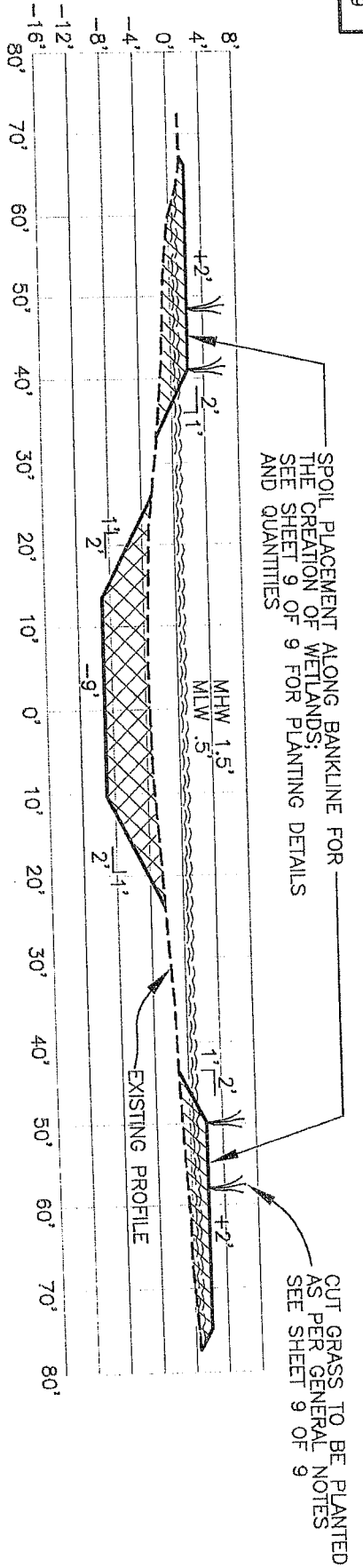


**LEONARD CHAUVIN P.E., P.L.S., INC.**  
**CIVIL ENGINEER - LAND SURVEYOR**  
627 JACKSON ST. THIBODAUX, LA.

**PERMIT PLAT**

LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
LOCATED IN T16S - R18E SECTION 24  
& T16S - R19E SECTIONS 61 & 62  
LAFORCHE PARISH, LOUISIANA

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011



DATUM: NAVD 88  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

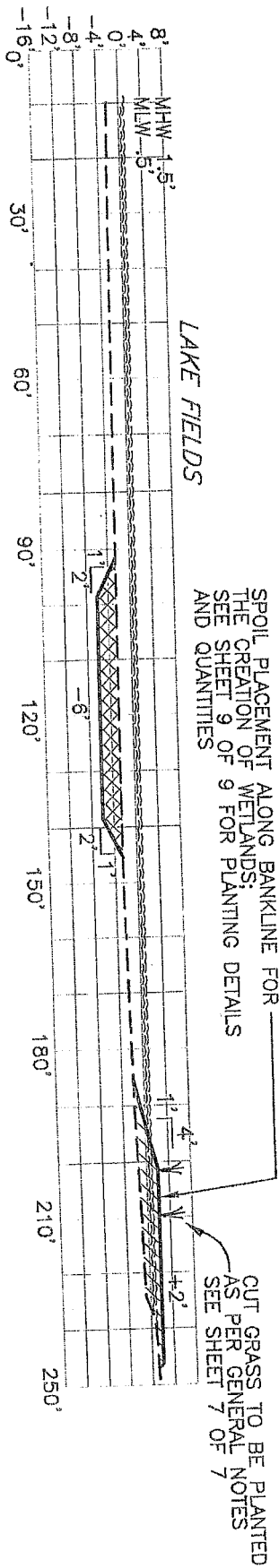
PROPOSED SPOIL PLACEMENT  
PROPOSED BORROW MATERIAL

TYPICAL SECTION

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE TO REROUTE TURBID WATERS AWAY FROM LAKE FIELDS AND CREATE WETLANDS THROUGH THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL.

**LEONARD CHAUVIN P.E., P.L.S., INC.**  
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627 JACKSON ST. THIBODAUX, LA.

**PERMIT PLAT**  
LOWER BAYOU FOLSE PROPOSED WETLAND CREATION AND DREDGING PROJECT LOCATED IN T16S - R18E SECTION 24 & T16S - R19E SECTIONS 61 & 62 LAFOURCHE PARISH, LOUISIANA  
APPLICATION BY: NLCD  
DATE: MARCH 23, 2011



### SECTION B-B

DATUM: NAVD 88  
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 30'

PROPOSED SPOIL PLACEMENT  
PROPOSED BORROW MATERIAL

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE TO REROUTE TURBID WATERS AWAY FROM LAKE FIELDS AND CREATE WETLANDS THROUGH THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL

### TYPICAL SECTION

### PERMIT PLAT

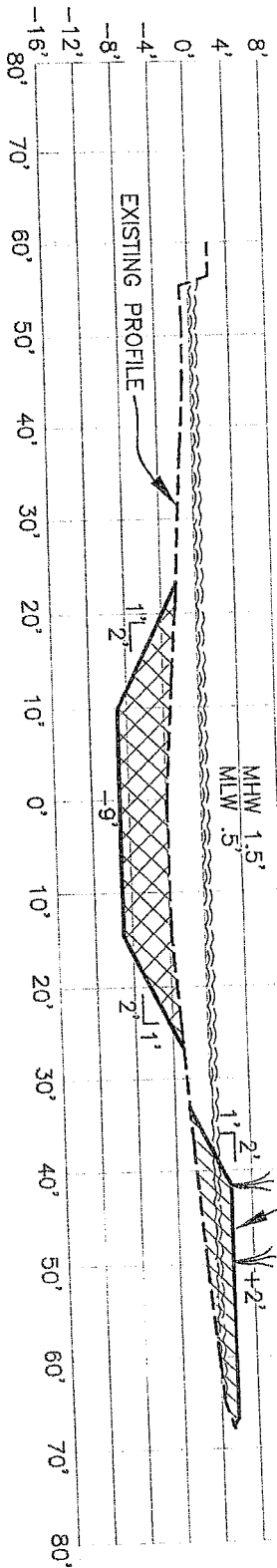
LOWER BAYOU FOLSE PROPOSED WETLAND CREATION AND DREDGING PROJECT LOCATED IN T16S - R18E SECTION 24 & T16S - R19E SECTIONS 61 & 62 LAFOURCHE PARISH, LOUISIANA

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011

**LEONARD CHAUVIN P.E., P.L.S., INC.**  
CIVIL ENGINEER - LAND SURVEYOR  
627 JACKSON ST. THIBODAUX, LA.

SPOIL PLACEMENT ALONG BANKLINE FOR  
THE CREATION OF WETLANDS:  
SEE SHEET 9 OF 9 FOR PLANTING DETAILS  
AND QUANTITIES

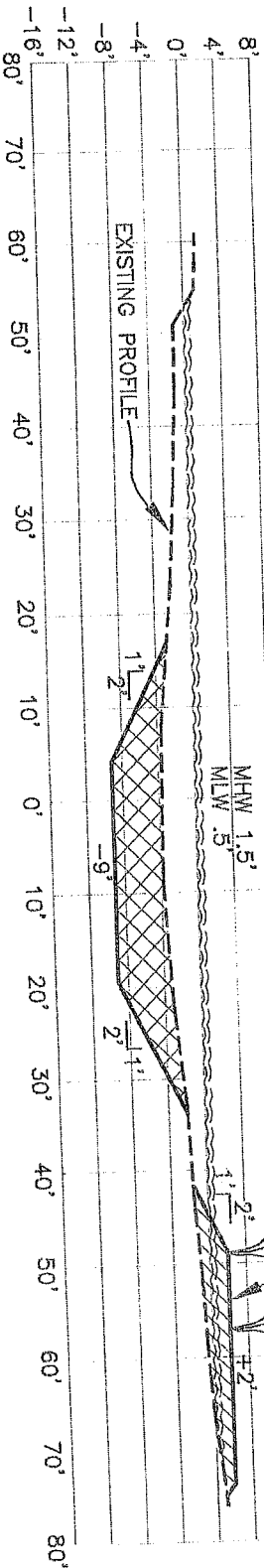
CUT GRASS TO BE PLANTED  
AS PER GENERAL NOTES  
SEE SHEET 9 OF 9



### SECTION D-D

SPOIL PLACEMENT ALONG BANKLINE FOR  
THE CREATION OF WETLANDS:  
SEE SHEET 9 OF 9 FOR PLANTING DETAILS  
AND QUANTITIES

CUT GRASS TO BE PLANTED  
AS PER GENERAL NOTES  
SEE SHEET 9 OF 9



### SECTION E-E

DATUM: NAVD 88  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

PROPOSED SPOIL PLACEMENT  
PROPOSED BORROW MATERIAL

### TYPICAL SECTION

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE  
TO REROUTE TURBID WATERS AWAY FROM  
LAKE FIELDS AND CREATE WETLANDS THROUGH  
THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL

### PERMIT PLAT

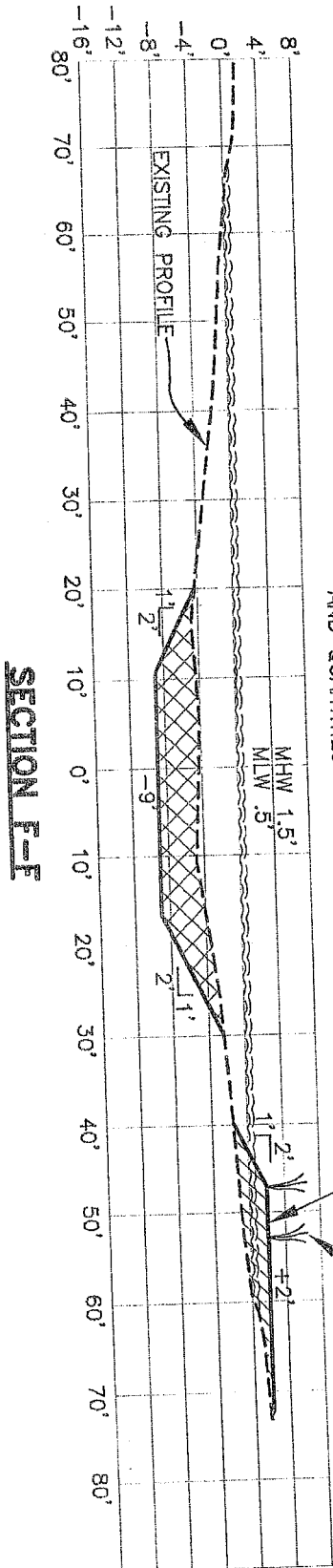
LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
LOCATED IN T16S - R18E SECTION 24  
& T16S - R19E SECTIONS 61 & 62  
LAFOURCHE PARISH, LOUISIANA

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011

**LEONARD CHAUVIN P.E., P.L.S., INC.**  
CIVIL ENGINEER - LAND SURVEYOR  
627 JACKSON ST. THIBODAUX, LA.

SPOIL PLACEMENT ALONG BANKLINE FOR  
THE CREATION OF WETLANDS;  
SEE SHEET 9 OF 9 FOR PLANTING DETAILS  
AND QUANTITIES

CUT GRASS TO BE PLANTED  
AS PER GENERAL NOTES  
SEE SHEET 9 OF 9



SECTION F-F

DATUM: NAVD 88  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

PROPOSED SPOIL PLACEMENT  
PROPOSED BORROW MATERIAL

**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE  
TO REROUTE TURBID WATERS AWAY FROM  
LAKE FIELDS AND CREATE WETLANDS THROUGH  
THE BENEFICIAL USE OF DREDGED SPOIL MATERIAL

**LEONARD CHAUVIN P.E., P.L.S., INC.**  
CIVIL ENGINEER - LAND SURVEYOR  
627 JACKSON ST. THIBODAUX, LA.

TYPICAL SECTION

PERMIT PLAT

LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
LOCATED IN T16S - R18E SECTION 24  
& T16S - R19E SECTIONS 61 & 62  
LAFOURCHE PARISH, LOUISIANA

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011



**GENERAL NOTES**

1. PIPELINES AND UTILITIES MAY EXIST THAT ARE NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.
2. ALL REQUIRED EXCAVATION SHALL BE CONDUCTED WITH EITHER AMPHIBIOUS EXCAVATOR OR DIPPER DREDGE ON BARGE. EARTHEN MATERIAL SHALL BE EXCAVATED FROM OPEN WATER BORROW AREAS AND PLACED ALONG BANK IN SHALLOW WATER TO CREATE EMERGENT MARSH +2.0'. 214,877 CUBIC YARDS OF EXCAVATION WILL BE REQUIRED AND 17.75 ACRES OF EMERGENT WETLANDS WILL BE CREATED.
3. THE PERMITTEE SHALL PLANT SPRIGS OF GIANT CUT GRASS (ZIZANOPSIS MILECEA) HARVESTED ON SITE, EACH BEING AT LEAST A GALLON SIZE BUNCH, PLANTED IN TWO ALTERNATING ROWS, THE ENTIRE LENGTH OF THE SPOIL PLACEMENT: ONE SHALL BE SITUATED ALONG THE WATERS EDGE, AND THE OTHER ALONG THE CENTER OF THE OF THE BERM, WHICH IS TO BE GRADED TO AN ELEVATION SUPPORTIVE OF MARSH ESTABLISHMENT, AS SHOWN ON THE ATTACHED TYPICAL SECTIONS. PLANTINGS SHALL BE CONDUCTED DURING THE FIRST GROWING SEASON.
4. THE PLANTINGS SHALL BE PERFORMED AT THE SPECIFIC LOCATIONS SHOWN, AND IN ACCORDANCE WITH THE PLANTING DENSITY NOT TO EXCEED 5' INTERVALS. MINOR DEVIATIONS IN THE PLANTING SCHEDULE DUE TO FIELD CONDITIONS ENCOUNTERED, AT THE TIME THE PLANTINGS ARE CONDUCTED, ARE ALLOWABLE. ANY DEVIATIONS THAT ARE NOT WITHIN THE SCOPE OF THIS PERMIT SHALL REQUIRE THE NOTIFICATION OF THE NEW ORLEANS DISTRICT REGULATORY BRANCH EVALUATION SECTION.
5. THE PERMITTEE SHALL ACHIEVE A SURVIVAL RATE OF 80 PERCENT OF THE INITIAL PLANTING UNITS AFTER ONE COMPLETE GROWING SEASON. IF THIS SURVIVAL RATE IS NOT ACHIEVED, THE PERMITTEE SHALL REPLACE ALL DEAD OR MISSING PLANTING UNITS THE FOLLOWING PLANTING SEASON. SUPPLEMENTAL PLANTINGS SHALL BE CONDUCTED ON AN ANNUAL BASIS UNTIL THE MANDATORY SURVIVAL RATE IS ATTAINED. IF THE DESIRED SURVIVAL RATE IS NOT ATTAINED AFTER 3 CONSECUTIVE PLANTING EFFORTS, ALTERNATIVE MITIGATION WILL BE DETERMINED BY THE CORPS IN COORDINATION WITH OTHER REGULATORY AND/OR RESOURCE AGENCIES. THE PERMITTEE SHALL MONITOR SURVIVORSHIP RATES OF THE INITIAL, AND ANY SUPPLEMENTAL PLANTINGS THAT MAY BE REQUIRED AT THE END OF THE GROWING SEASON, IN WHICH THE PLANTINGS WERE CONDUCTED. WRITTEN MONITORING REPORTS DESCRIBING PLANTING UNIT SURVIVAL RATES SHALL BE FURNISHED TO CEMVW-OD-SW, BY DECEMBER 31 OF THE CALENDAR YEAR.

**GENERAL NOTES****PERMIT PLAT**

LOWER BAYOU FOLSE PROPOSED WETLAND  
CREATION AND DREDGING PROJECT  
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**PURPOSE:** DREDGING OF LOWER BAYOU FOLSE  
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**LEONARD CHAUVIN P.E., P.L.S., INC.**  
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627 JACKSON ST. THIBODAUX, LA.

APPLICATION BY: NLCLDD  
DATE: MARCH 23, 2011

REV: APRIL 26, 2011