

REPLY TO
ATTENTION OF:

TE-43 GIWW Bank Permit

DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P. O. BOX 80267

NEW ORLEANS, LOUISIANA 70160-0267

To Maury
FLM
7-11-07

JAN 18 2006

Operations Division
Central Evaluation Section

SUBJECT: MVN 2004-4534 CY

Lafourche/Terrebonne Soil & Water Conservation District
204 East Bayou Road
Thibodaux, Louisiana 70301

Gentlemen:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Central Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

A handwritten signature in cursive script that reads "Martin S. Mayer".

Martin S. Mayer
Chief, Central Evaluation Section

Enclosure

DEPARTMENT OF THE ARMY PERMIT

Permittee: Lafourche/Terrebonne Soil & Water Conservation District

Permit No. MVN 2004-4534 CY

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: Dredge for access and material and construct approximately 49,725 linear feet of rock dike broken into 8 segments to implement the Gulf Intracoastal Waterway (GIWW) Bank Restoration of Critical Areas Project (CWPPRA TE-43), in accordance with drawings enclosed in fifteen sheets, dated October 29, 2004 and six revisions dated December 14, 2004, May 17, 2005, June 21, 2005, June 23, 2005, June 24, 2005 and June 27, 2005.

Project Location: On the southern bank of the Gulf Intracoastal Waterway (GIWW), beginning near mile marker 80 and ending near mile marker 70, in Terrebonne Parish, Louisiana.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **NOVEMBER 30, 2010**. 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 1 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: Pages 4 and 5.

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.

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.

X John W. Woodard
(PERMITTEE) CHAIRMAN

X Nov. 17, 2005
(DATE)

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

Martin S. Mayer
Martin S. Mayer, Chief Central Evaluation Section

18 January 2006
(DATE)

for Richard P. Wagenaar, District Engineer

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)

SPECIAL CONDITIONS: MVN 2004-4534 CY

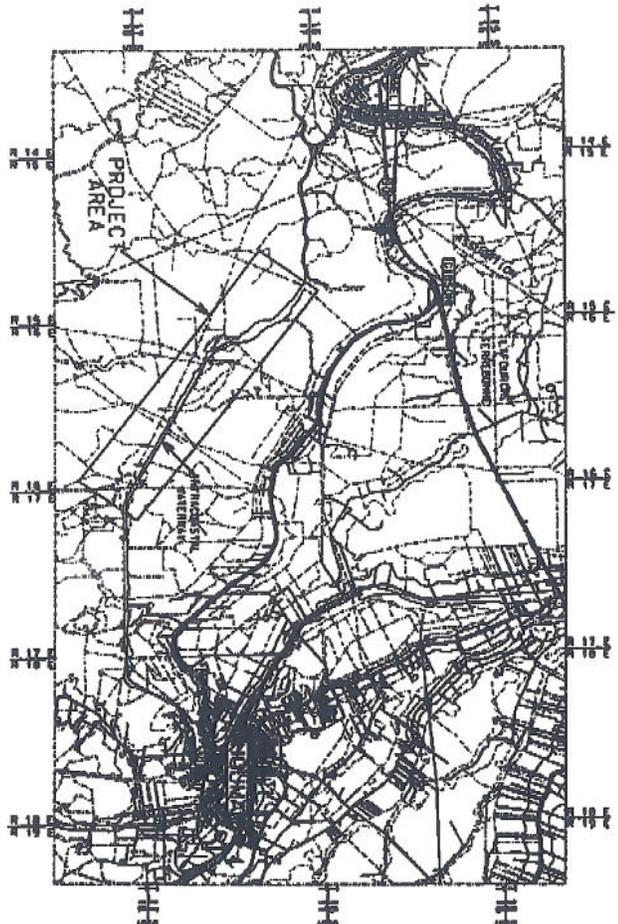
7. The permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
8. The permittee must install and maintain, at the permittee's expense, any safety lights, signs, and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on the permittee's authorized facilities.
9. The permittee shall mark the locations of the proposed temporary spoil areas (submerged) with buoys so as not to interfere with navigation along the GIWW.
10. The permittee shall limit dredge and fill operations to areas essential to the project. If the proposed project requires any additional work not expressly permitted herein, or impacts any wetlands other than the areas indicated on the attached drawings, the permittee must apply for an amendment to this authorization prior to commencement of work.
11. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
12. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.) in the waterway, you are advised to notify the Eighth Coast Guard District so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the Commander (oan), Eighth Coast Guard District, ATTN: Marine Information Branch, 501 Magazine Street, New Orleans, Louisiana 70130-3396, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 589-6277.
13. The Chitimacha Tribe of Louisiana has stated that the project area is part of the aboriginal Chitimacha homelands. If during the course of work at the site, prehistoric and/or historic aboriginal cultural materials are discovered, the permittee will contact the Chitimacha Tribe of Louisiana at Post Office Box 661, Charenton, LA 70523, and the Army Corps of Engineers, New Orleans District (CEMVN) Regulatory Branch. CEMVN will initiate the required federal, state, and Tribal coordination to determine the significance of the cultural materials and the need, if applicable, for additional cultural resource investigations.

SPECIAL CONDITIONS: MVN 2004-4534 CY

14. Our Real Estate Division has indicated that your project is located in an area over which the federal government holds real estate interest. **No work may be performed under this permit until a real estate instrument is issued by our Real Estate Division.** If you require further information regarding real estate matters, call (504) 862-1295. The real estate instrument will be initiated by our Real Estate Division without further action required on your part.

15. Maintenance dredging for floatation to access structures for maintenance purposes is authorized under this permit for a period of ten (10) years from the date of permit issuance. Maintenance operations shall not exceed specifications as shown on permit drawings without prior authorization from the regulatory agencies.

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VICINITY MAP

SCALE IN MILES

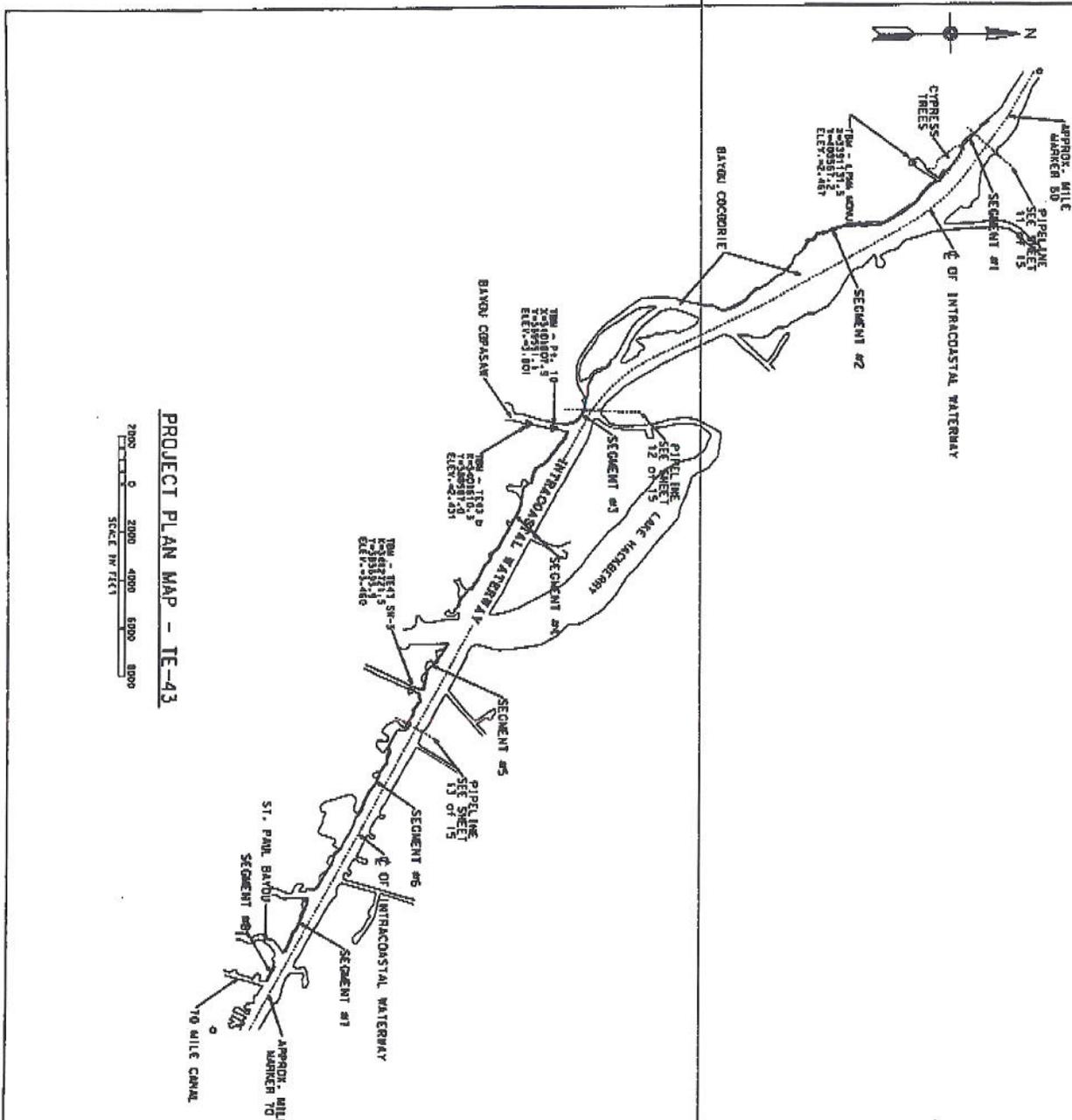
- INDEX TO DRAWINGS
- 1. COVER SHEET
 - 2. PROJECT MAP
 - 3. LAND RIGHTS MAP
 - 4. PROJECT PLAN MAP
 - 5. PROJECT PLAN MAP
 - 6. PROJECT PLAN MAP
 - 7. PROJECT PLAN MAP
 - 8. PROJECT PLAN MAP
 - 9. PROJECT PLAN MAP
 - 10. PROJECT PLAN MAP
 - 11. PIPELINE DETAIL SHEET
 - 12. PIPELINE DETAIL SHEET
 - 13. PIPELINE DETAIL SHEET
 - 14. TYPICAL SECTION
 - 15. TYPICAL SECTION

TE-43 - GIWW CRITICAL AREA BANK RESTORATION

BUILT UNDER THE
COASTAL WETLANDS
PLANNING, PROTECTION,
AND
RESTORATION ACT
PUBLIC LAW 101-646
BY THE
LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
WITH THE ASSISTANCE OF THE
NATURAL RESOURCES CONSERVATION SERVICE
OF THE
UNITED STATES DEPARTMENT OF AGRICULTURE
2004

DATE: 6-21-2005 SHEET NO. 1 OF 13	NO. DATE REVISION TITLE	COVER SHEET - VICINITY MAP GIWW CRITICAL AREA RESTORATION TE-43 TERREBONNE PARISH, LOUISIANA U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE	Date Drawn Traced Checked	Date Approved by Title Title
	CAD FILE NO.			

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PROJECT PLAN MAP - TE-43

**COMPOSITE REACHES
LIGHT WEIGHT AGGREGATE**

SEGMENT	REACH	CU/YD
2	0+00 TO 1+00	0.54
2	1+00 TO 2+00	0.51
2	2+00 TO 3+00	0.55
2	3+00 TO 4+00	0.50
2	4+00 TO 5+00	0.51
3	0+00 TO 1+00	0.53
4	1+00 TO 18+00	1.18
4	18+00 TO 33+50	1.02
4	33+50 TO 50+00	1.50
5	0+00 TO 24+00	1.52
5	24+00 TO 4+50	0.51
5	4+50 TO 10+00	1.65
5	10+00 TO 15+00	1.55
5	15+00 TO 24+00	1.52
5	24+00 TO 29+00	1.53
5	29+00 TO 39+50	1.50
5	39+50 TO 50+00	1.50
7	0+00 TO 1+00	1.17

PRELIMINARY
THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BIDDING, RECONSTRUCTION, CONTRACTING, OR SALES.

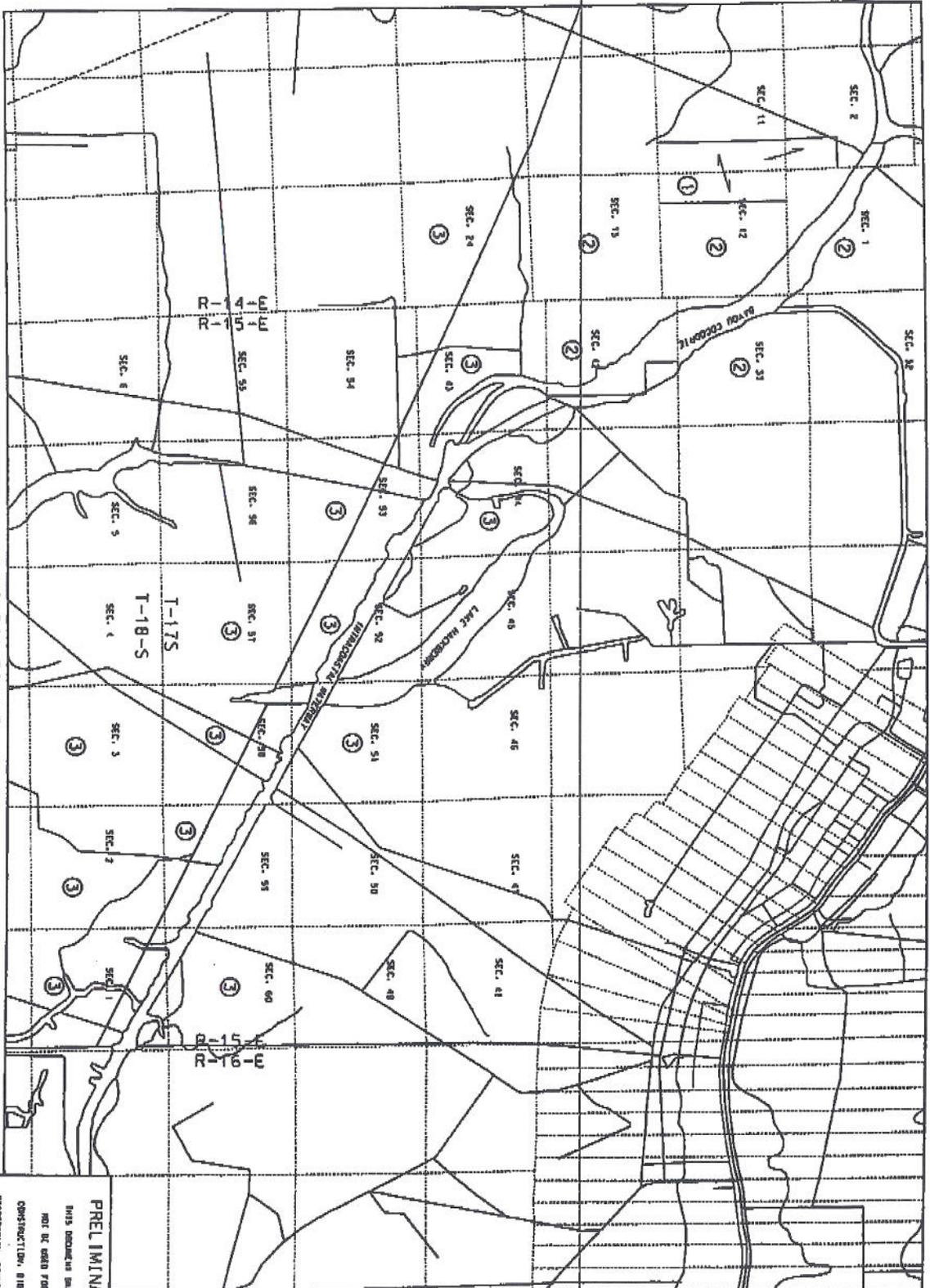
PROJECT LOCATION MAP GIWW CRITICAL AREA RESTORATION TE-43 TERREBONNE PARISH, LOUISIANA		Date: 12/03 Drawn: A. J. Crumpton Checked: _____	Date: 12/03 Approved by: [Signature] Title: [Title]
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE			

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- ① - CARMA HOLDINGS, L.L.C., et al
- ② - ROSEBORO KURTZ CARONAZZA, et al
- ③ - CONTINENTAL LAND & FUR CO., INC.

LAND RIGHTS MAP
TE-43
T-175
T-18-S

2000 0 2000 4000 6000 8000
SCALE IN FEET



PRELIMINARY
THIS DOCUMENT SHALL
NOT BE USED FOR
CONSTRUCTION, BIDDING,
RECORDATION, CONTRACT,
OR SALES.

REV.	DATE	APPROV.	TITLE

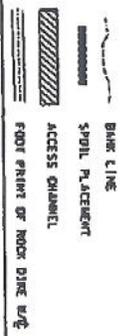
DATE: 4-21-2005
SHEET NO. 4 OF 15

LAND RIGHTS MAP
GIWW CRITICAL AREA RESTORATION
TE-43
TERREBORNE PARISH, LOUISIANA

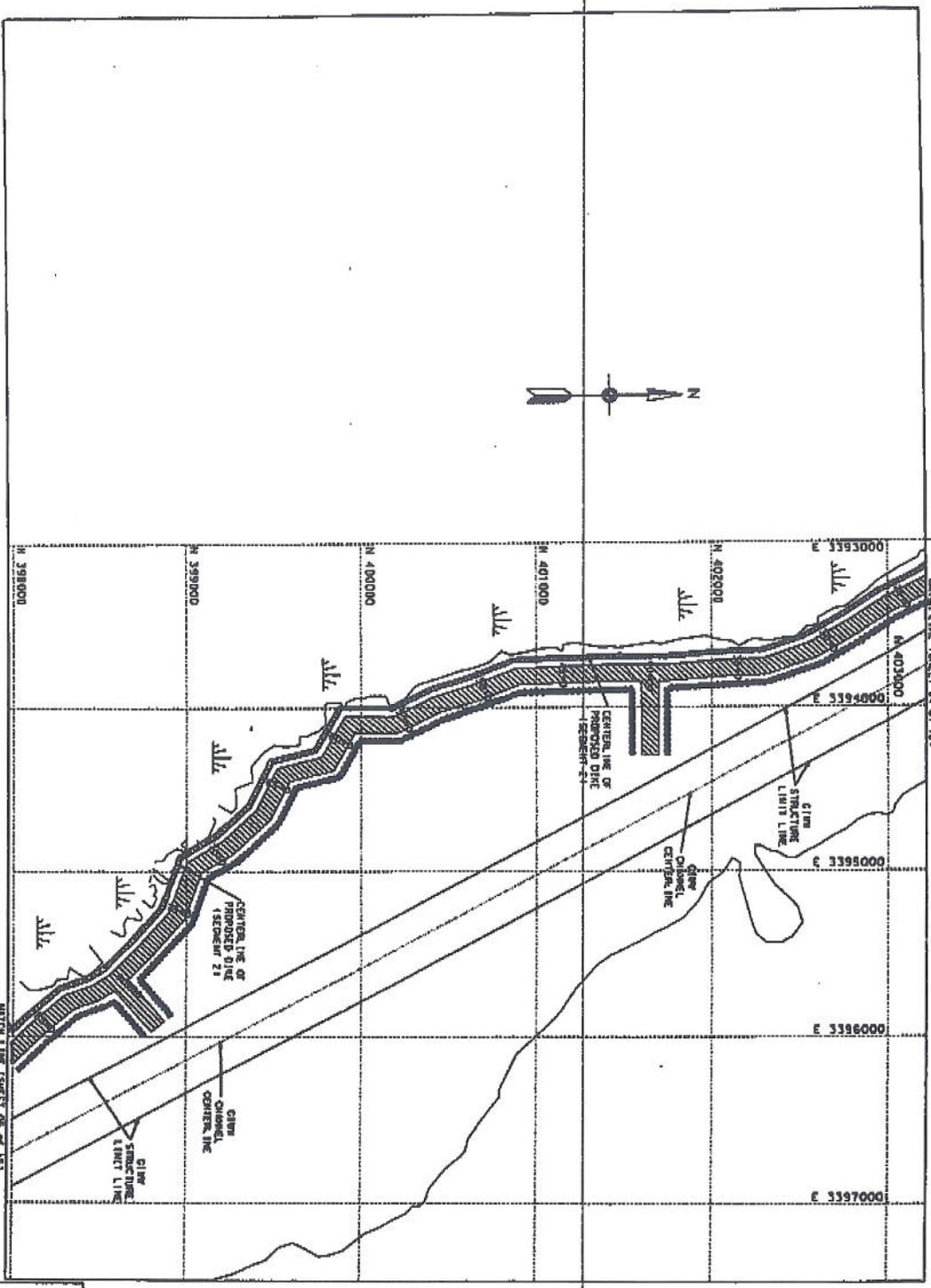
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

Des. grad. _____	Date _____
Drawn _____	Approved by _____
Titled _____	Title _____
Checked _____	Title _____

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TE-43 - GIWW BANK RESTORATION
PROJECT PLAN

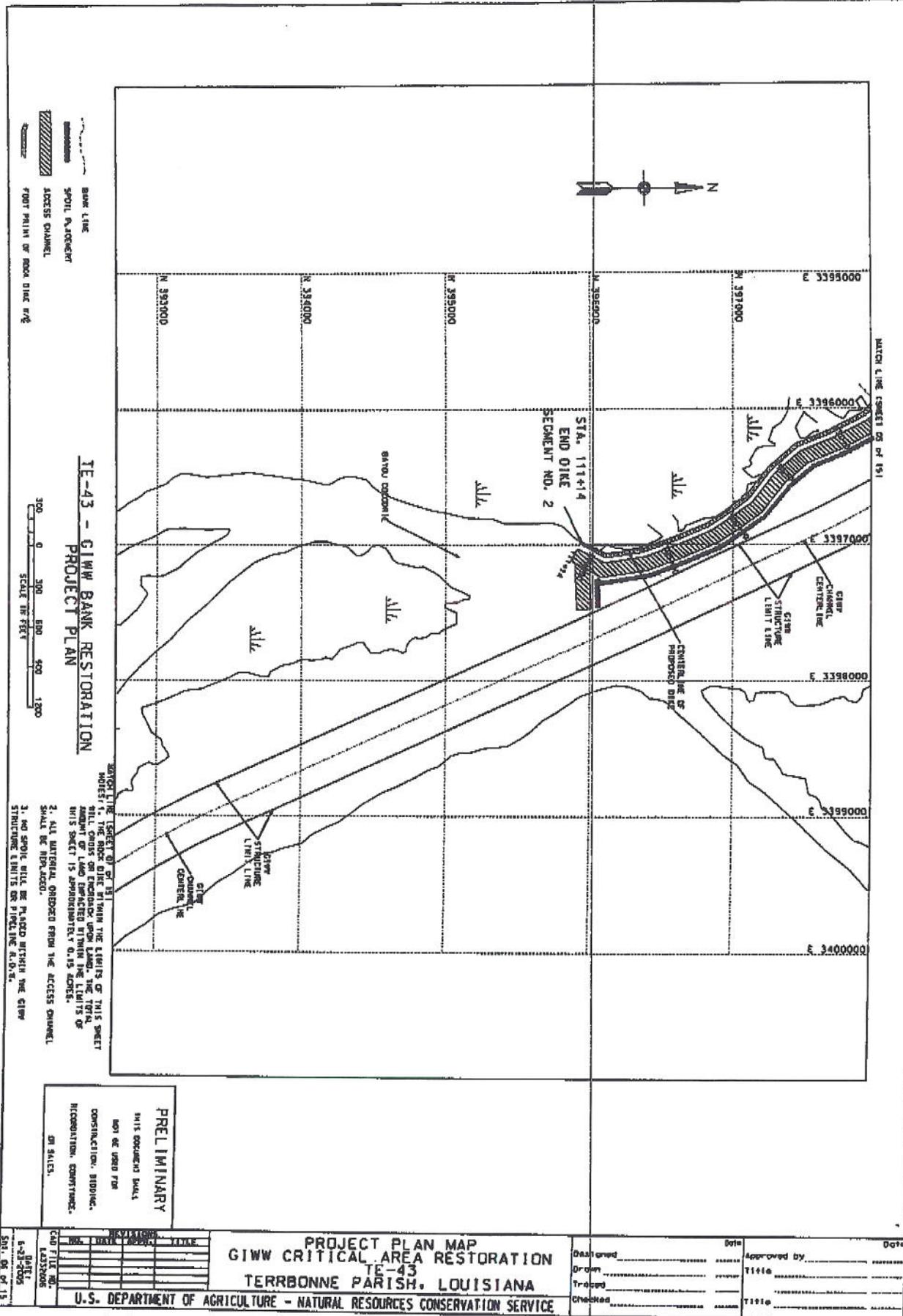


NOTES: 1. THE ROCK DIRT WITHIN THE LIMITS OF THIS SHEET WILL CROSS OR EXCEED UPON LAND. THE TOTAL THIS SHEET IS APPROXIMATELY 0.10 ACRES.
 2. ALL MATERIAL DRENCHED FROM THE ACCESS CHANNEL SHALL BE REPLACED.
 3. ALL SPILL SHALL BE PLACED WITHIN THE GIWW STRUCTURE LIMITS ON EXISTING ROCK-DIRT.

PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BIDDING, RECONSTRUCTION, CONTRACTS, OR SALES.

DATE: 5-2-07 DRAWN BY: [blank] CHECKED BY: [blank]	PROJECT PLAN MAP GIWW CRITICAL AREA RESTORATION TE-43 TERRBONNE PARISH, LOUISIANA U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE	Date: _____ Approved By: _____ Title: _____ Title: _____
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**TE-43 - GIWW BANK RESTORATION
PROJECT PLAN**

- BANK LINE
- SPOIL ADJACENT
- ACCESS CHANNEL
- FOOT PATH OR ROAD DIKE RW

0 300 600 900 1200
SCALE IN FEET

AVOID THE EJECTA OF THE
PROJECT. THE ROCK DIRT WITHIN THE LIMITS OF THIS SHEET
SHALL CROSS OR ENCHANCE UPON LAND. THE TOTAL
AMOUNT OF LAND IMPACTED WITHIN THE LIMITS OF
THIS SHEET IS APPROXIMATELY 0.15 ACRES.
3. ALL MATERIAL OBTAINED FROM THE ACCESS CHANNEL
SHALL BE REPLACED.
3. NO SPOIL WILL BE PLACED WITHIN THE GIWW
STRUCTURE LIMITS OR PROPOSED DIKE.

PRELIMINARY
THIS DOCUMENT SHALL
NOT BE USED FOR
CONSTRUCTION, BIDDING,
RECONSTRUCTION, CONTRACTING,
OR SALES.

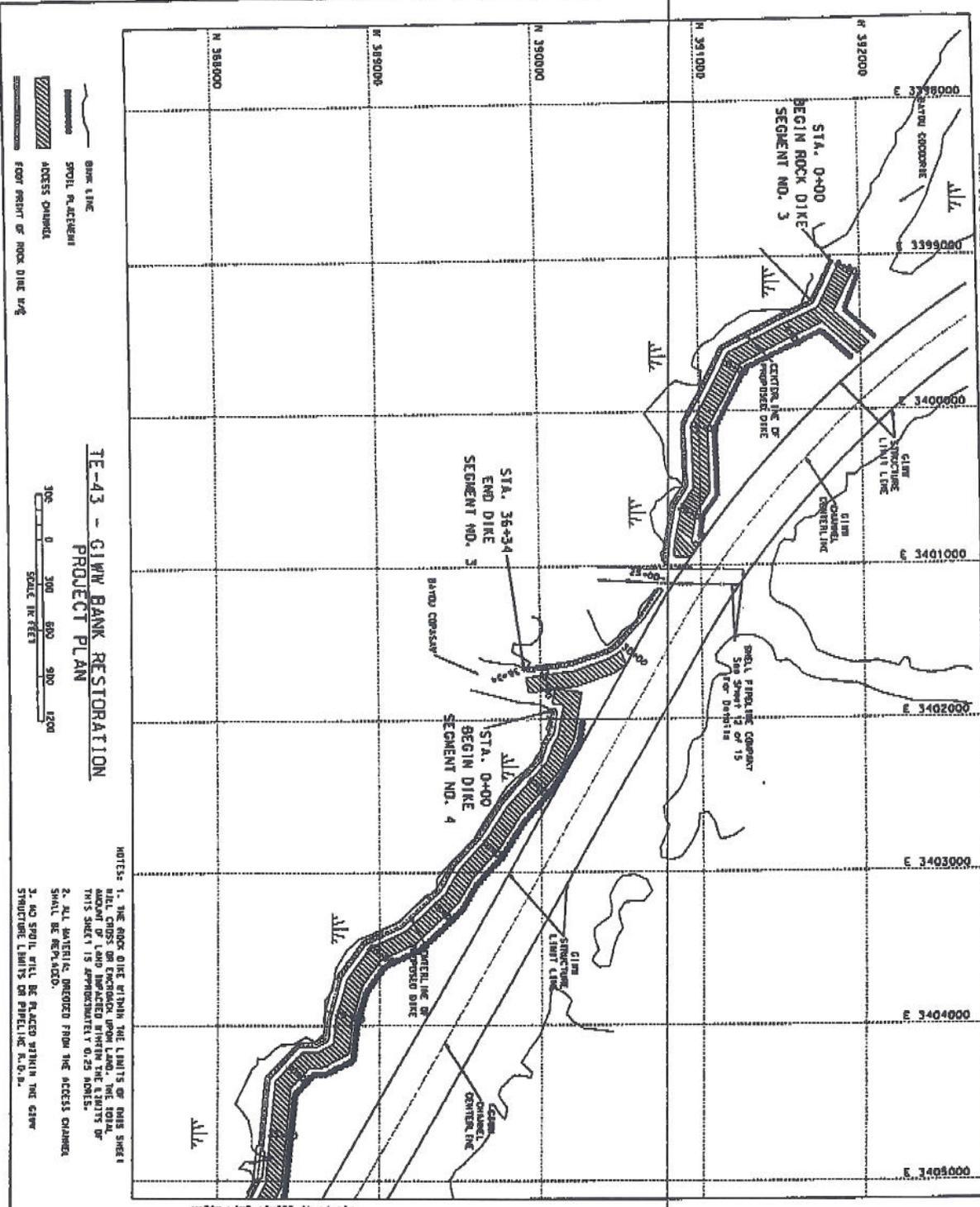
**PROJECT PLAN MAP
GIWW CRITICAL AREA RESTORATION
TE-43
TERRBONNE PARISH, LOUISIANA**

NO.	DATE	REVISION	BY

DATE: 6-23-2006
LAYOUT: 6/23/06
SHEET NO. OF 15

Designed _____	Date _____	Approved by _____	Date _____
Drawn _____		Title _____	
Traced _____			
Checked _____		Title _____	

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DIKE LINE
 SPOIL PLACEMENT
 ACCESS CHANNEL
 FRONT OF ROCK DIKE 1/4"

TE-43 - GIWW BANK RESTORATION
PROJECT PLAN
 300' 0 300 600 900 1200
 SCALE IN FEET

NOTES: 1. THE ROCK DIKE WITHIN THE LIMITS OF THIS SHEET IS TO BE CONSTRUCTED TO THE AMOUNT OF LAND IMPACTED WITHIN THE LIMITS OF THIS SHEET IS APPROXIMATELY 0.25 ACRES.
 2. ALL MATERIAL DROPPED FROM THE ACCESS CHANNEL SHALL BE REPAVED.
 3. NO SPOIL SHALL BE PLACED WITHIN THE GIWW STRUCTURE LIMITS ON PIPELINE R.O.B.

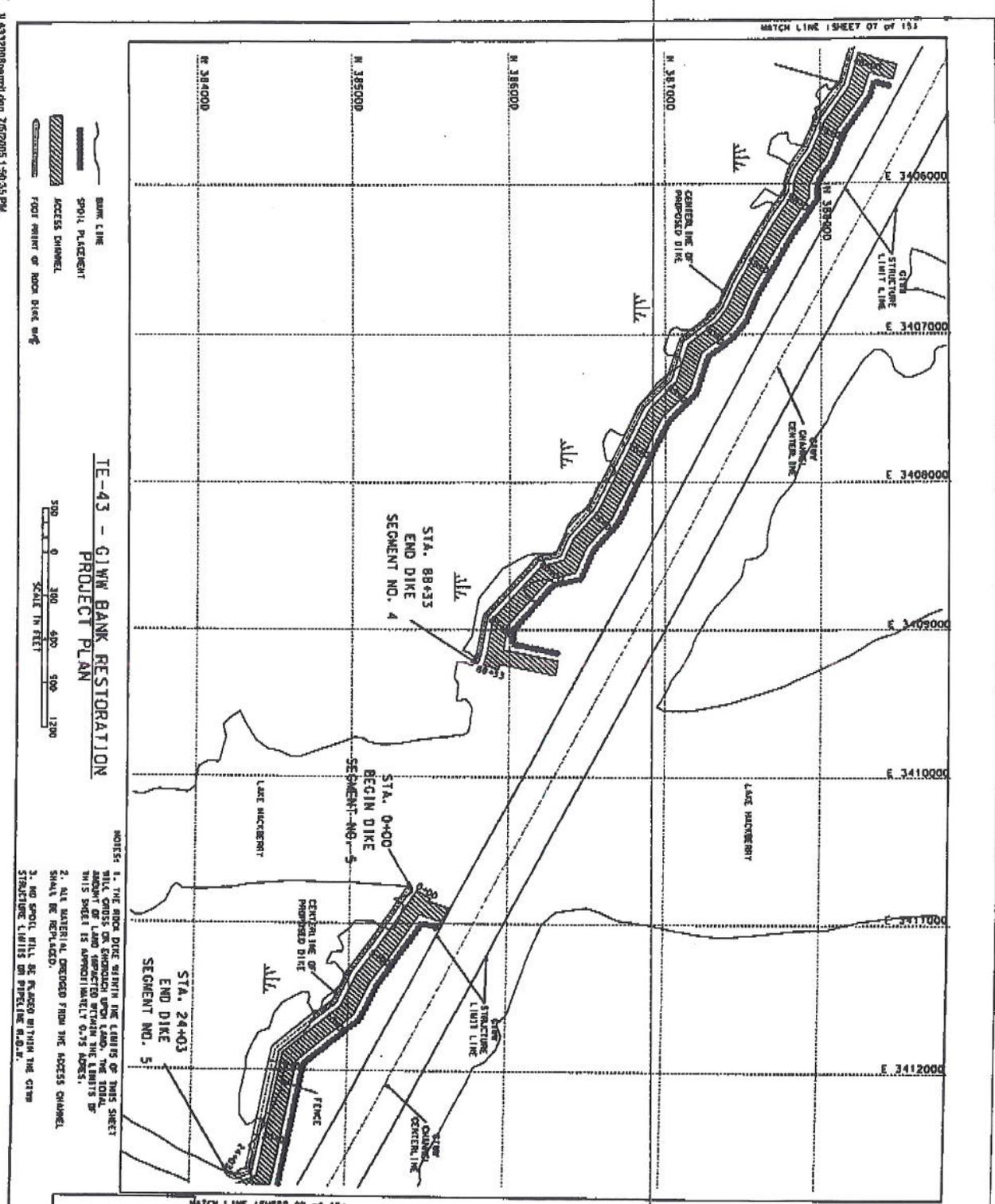
PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BIDDING, ACQUISITION, CONTRACTING, OR SALES.

DATE	BY	REVISION

PROJECT PLAN MAP
GIWW CRITICAL AREA RESTORATION
TE-43
TERRBONNE PARISH, LOUISIANA
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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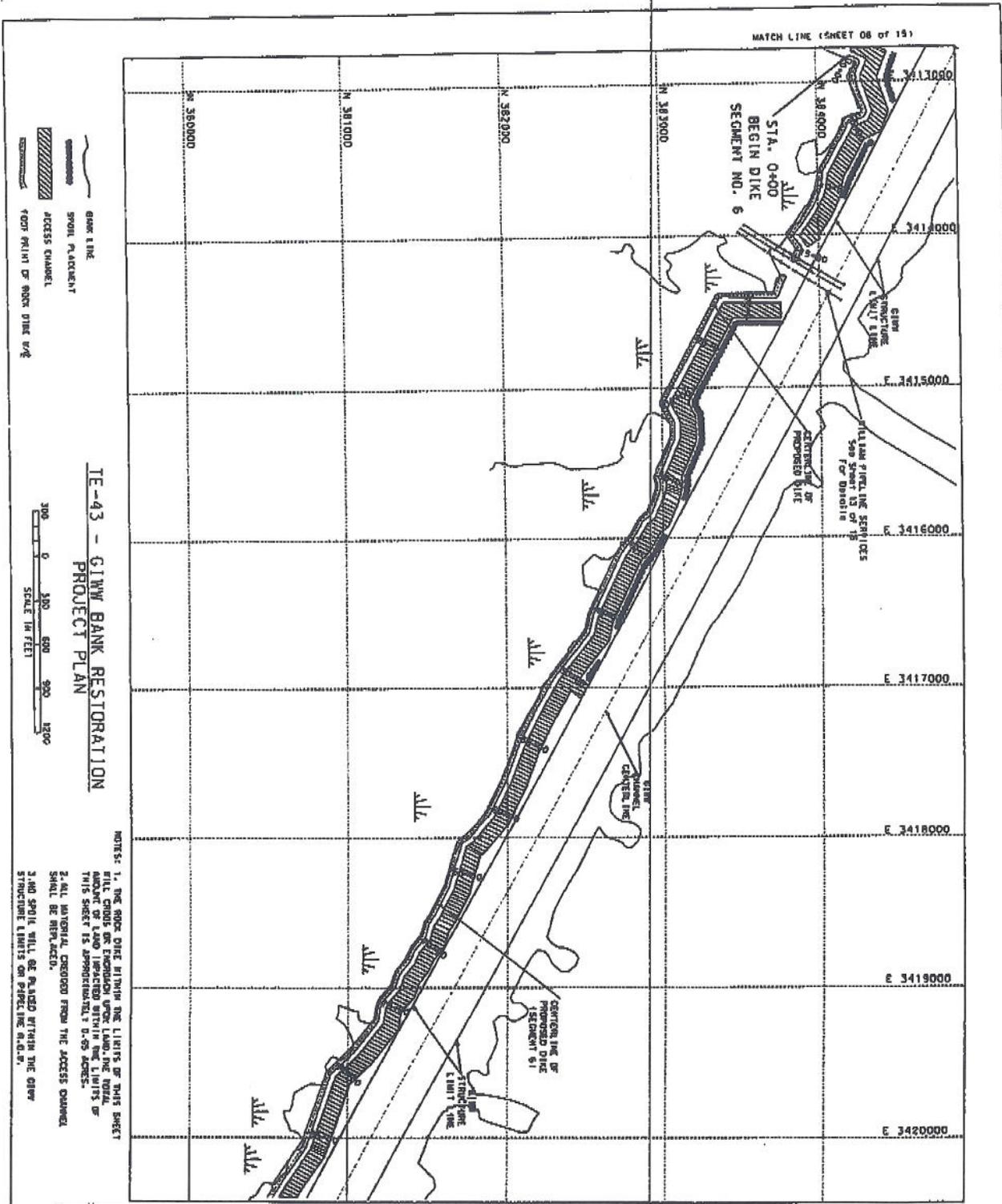
TE-43 - GIWW BANK RESTORATION
PROJECT PLAN

- NOTES:
1. THE ROCK DIKE WITHIN THE LIMITS OF THIS SHEET WILL CROSS OR CONTACT UPON LAND. THE TOTAL AMOUNT OF LAND IMPACTED WITHIN THE LIMITS OF THIS SHEET IS APPROXIMATELY 0.75 ACRES.
 2. ALL MATERIAL DERIVED FROM THE ACCESS CHANNEL SHALL BE REPLACED.
 3. NO SPOIL WILL BE PLACED WITHIN THE OTHER STRUCTURE LIMITS OR PIPELINE R.O.W.

PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONTRACTURE, OR SALES.

PROJECT PLAN MAP GIWW CRITICAL AREA RESTORATION TE-43 TERRBONNE PARISH, LOUISIANA U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE		Date _____ Drawn _____ Traced _____ Checked _____	Approved by _____ Title _____ Title _____
REVISIONS NO. DATE BY 1 6-23-06 2 7-5-06 3 7-5-06 4 7-5-06 5 7-5-06 6 7-5-06 7 7-5-06 8 7-5-06 9 7-5-06 10 7-5-06 11 7-5-06 12 7-5-06 13 7-5-06 14 7-5-06 15 7-5-06 16 7-5-06 17 7-5-06 18 7-5-06 19 7-5-06 20 7-5-06 21 7-5-06 22 7-5-06 23 7-5-06 24 7-5-06 25 7-5-06 26 7-5-06 27 7-5-06 28 7-5-06 29 7-5-06 30 7-5-06 31 7-5-06 32 7-5-06 33 7-5-06 34 7-5-06 35 7-5-06 36 7-5-06 37 7-5-06 38 7-5-06 39 7-5-06 40 7-5-06 41 7-5-06 42 7-5-06 43 7-5-06 44 7-5-06 45 7-5-06 46 7-5-06 47 7-5-06 48 7-5-06 49 7-5-06 50 7-5-06 51 7-5-06 52 7-5-06 53 7-5-06 54 7-5-06 55 7-5-06 56 7-5-06 57 7-5-06 58 7-5-06 59 7-5-06 60 7-5-06 61 7-5-06 62 7-5-06 63 7-5-06 64 7-5-06 65 7-5-06 66 7-5-06 67 7-5-06 68 7-5-06 69 7-5-06 70 7-5-06 71 7-5-06 72 7-5-06 73 7-5-06 74 7-5-06 75 7-5-06 76 7-5-06 77 7-5-06 78 7-5-06 79 7-5-06 80 7-5-06 81 7-5-06 82 7-5-06 83 7-5-06 84 7-5-06 85 7-5-06 86 7-5-06 87 7-5-06 88 7-5-06 89 7-5-06 90 7-5-06 91 7-5-06 92 7-5-06 93 7-5-06 94 7-5-06 95 7-5-06 96 7-5-06 97 7-5-06 98 7-5-06 99 7-5-06 100 7-5-06 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192 7-5-06 193 7-5-06 194 7-5-06 195 7-5-06 196 7-5-06 197 7-5-06 198 7-5-06 199 7-5-06 200 7-5-06 201 7-5-06 202 7-5-06 203 7-5-06 204 7-5-06 205 7-5-06 206 7-5-06 207 7-5-06 208 7-5-06 209 7-5-06 210 7-5-06 211 7-5-06 212 7-5-06 213 7-5-06 214 7-5-06 215 7-5-06 216 7-5-06 217 7-5-06 218 7-5-06 219 7-5-06 220 7-5-06 221 7-5-06 222 7-5-06 223 7-5-06 224 7-5-06 225 7-5-06 226 7-5-06 227 7-5-06 228 7-5-06 229 7-5-06 230 7-5-06 231 7-5-06 232 7-5-06 233 7-5-06 234 7-5-06 235 7-5-06 236 7-5-06 237 7-5-06 238 7-5-06 239 7-5-06 240 7-5-06 241 7-5-06 242 7-5-06 243 7-5-06 244 7-5-06 245 7-5-06 246 7-5-06 247 7-5-06 248 7-5-06 249 7-5-06 250 7-5-06 251 7-5-06 252 7-5-06 253 7-5-06 254 7-5-06 255 7-5-06 256 7-5-06 257 7-5-06 258 7-5-06 259 7-5-06 260 7-5-06 261 7-5-06 262 7-5-06 263 7-5-06 264 7-5-06 265 7-5-06 266 7-5-06 267 7-5-06 268 7-5-06 269 7-5-06 270 7-5-06 271 7-5-06 272 7-5-06 273 7-5-06 274 7-5-06 275 7-5-06 276 7-5-06 277 7-5-06 278 7-5-06 279 7-5-06 280 7-5-06 281 7-5-06 282 7-5-06 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BANK LINE
 SPOIL PLACEMENT
 ACCESS CHANNEL
 FOOT PRINT OF ROCK DIKE W/6"

TE-43 - GIWW BANK RESTORATION
 PROJECT PLAN

 SCALE IN FEET

NOTES: 1. THE SPOIL SHOWN WITHIN THE LIMITS OF THIS SHEET SHALL BE REPLACED WITHIN THE LIMITS OF THIS SHEET OR LATER WITHIN THE LIMITS OF THIS SHEET IS APPROXIMATELY 0.55 ACRES.
 2. ALL MATERIAL OBTAINED FROM THE ACCESS CHANNEL SHALL BE REPLACED.
 3. AND SPOIL WILL BE RAISED WITHIN THE GIWW STRUCTURE LIMITS ON PARCEL NO. 14.

PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION. EROSION, RECONSTRUCTION, DOWNSLACK, OR SINKS.

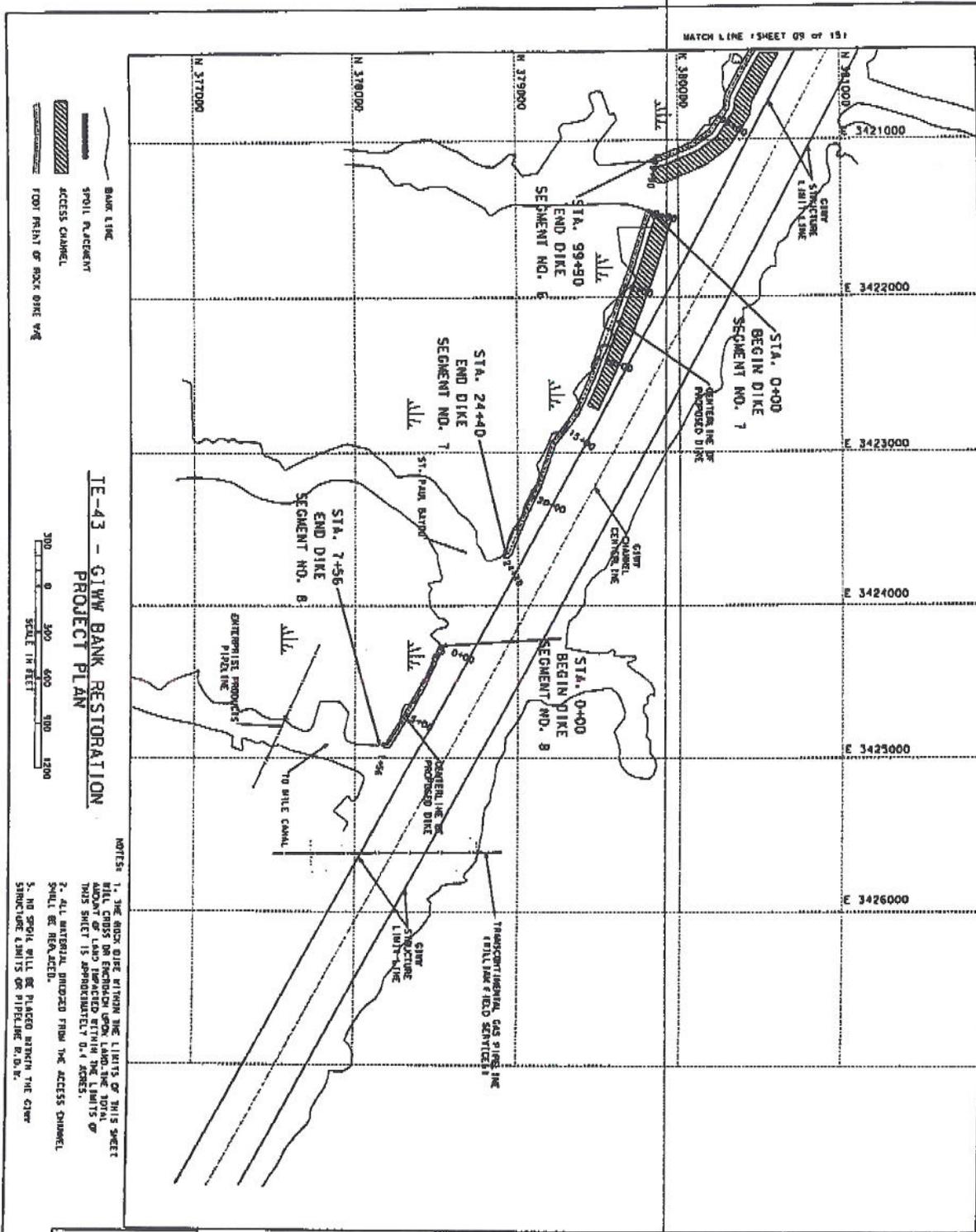
NO.	DATE	TITLE

CA FILE NO. 5-11-2005
 DATE: 5-11-2005
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PROJECT PLAN MAP
 GIWW CRITICAL AREA RESTORATION
 TE-43
 TERRBONNE PARISH, LOUISIANA
 U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

Designed	Date	Approved by	Date
Drawn		Title	
Trace			
Checked		Title	

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Blank Line
 Spoil Placement
 Access Channel
 Foot Print of Rock Core Weir

TE-43 - GIWW BANK RESTORATION
PROJECT PLAN

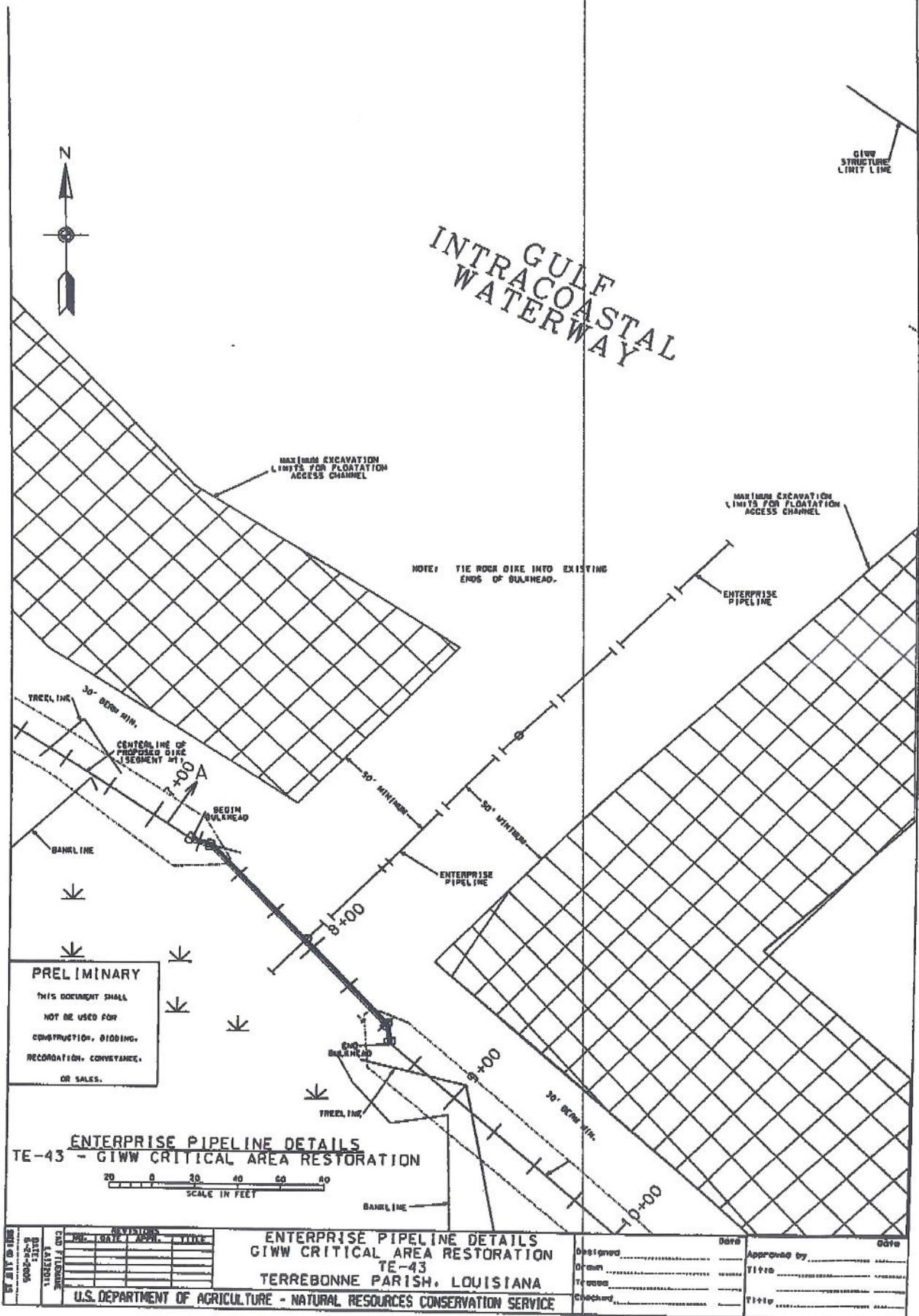
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 SCALE 1"=100'

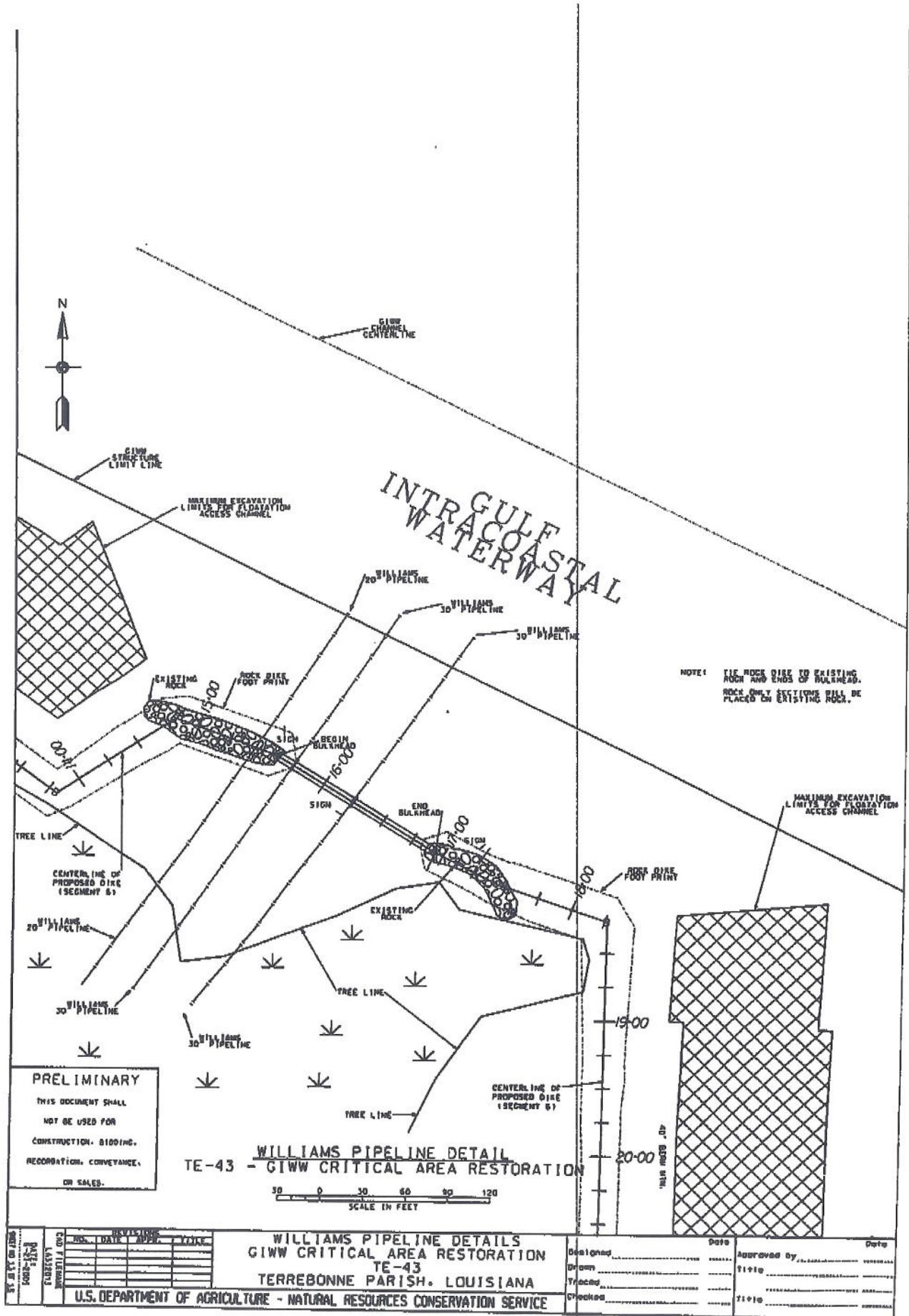
NOTES: 1. THE ROCK CORE WITHIN THE LIMITS OF THIS SHEET SHALL BE PLACED WITHIN THE LIMITS OF THIS SHEET. THE TOTAL AMOUNT OF LAND IMPACTED WITHIN THE LIMITS OF THIS SHEET IS APPROXIMATELY 0.4 ACRES.
 2. ALL MATERIAL EXPOSED FROM THE ACCESS CHANNEL SHALL BE RECYCLED.
 3. NO SPOIL WILL BE PLACED WITHIN THE GIWW CHANNEL LIMITS OR PIPELINE R.O.W.



PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BRIDGES, RECONSTRUCTION, ERECTURE, OR SALES.

<p>PROJECT PLAN MAP GIWW CRITICAL AREA RESTORATION TE-43 TERRBONNE PARISH, LOUISIANA</p>		Date: _____ Designed: _____ Drawn: _____ Traced: _____ Checked: _____	Date: _____ Approved by: _____ Title: _____ Title: _____
DATE: 6-23-2005 DWG FILE NO: L1372010 SHEET: 10 OF 13	U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE		





PRELIMINARY
 THIS DOCUMENT SHALL
 NOT BE USED FOR
 CONSTRUCTION, BIDDING,
 REDEMPTION, CONVEYANCE,
 OR SALES.

**WILLIAMS PIPELINE DETAIL
 TE-43 - GIWW CRITICAL AREA RESTORATION**



NO.	DATE	REVISIONS	
		BY	CHK

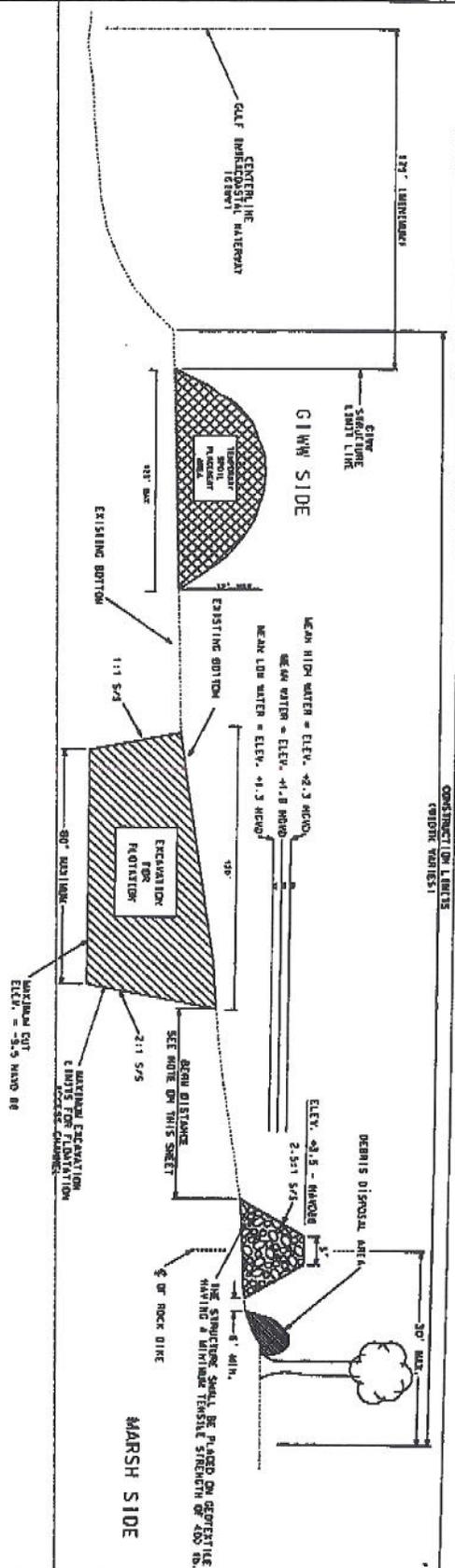
**WILLIAMS PIPELINE DETAILS
 GIWW CRITICAL AREA RESTORATION
 TE-43
 TERREBONNE PARISH, LOUISIANA**

Designed _____	Date _____	Approved By _____	Date _____
Drawn _____		Title _____	
Traced _____			
Checked _____		Title _____	

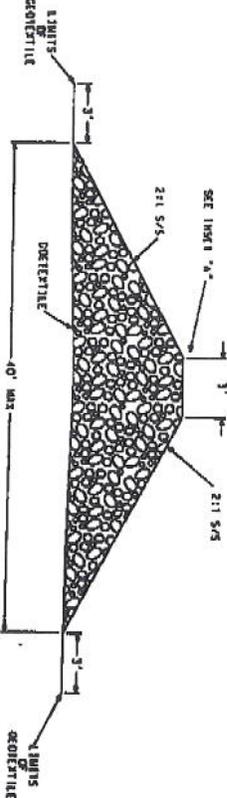
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NOTE:
 ALL SPOTS SHALL BE PLACED ONCE INTO ACCESS CHANNEL AFTER CONSTRUCTION OF ONE IS COMPLETE.
 AS REQUIRED SPOTS SHALL BE REMOVED AND PLACED ON THE MARSH SIDE OF THE STRUCTURE.
 THE SPOT DISTANCE SHALL BE 30' EXCEPT FOR THE FOLLOWING REMOVED SPOTS WHICH SHALL BE AS SHOWN IN THE FOLLOWING SECTIONS: SECTION 8-31A, 18-00-31-00, SECTION 8-31A, 18-00-31-00.
 THE HEIGHT OF THE DIKE IS VARIABLE. THE DIKE IS PLACED TO FOLLOW THE 1'-0" CONTOUR. THE ACTUAL LATITUDE MAY VARY. THEREFORE THE OILE BANDS THAT IN HEIGHT FROM 4'-0" TO 5'-0".
 THE HEIGHT OF THE ACCESS CANAL IS ALSO VARIABLE. THIS DEPENDS ON THE TERRAIN AND HOW MUCH THE CONSTRUCTION SHOULD TO EXCAVATE.

TYPICAL SECTION - ROCK DIKE
 (SHAIR TO SCALE)



ROCK DIKE DETAIL



PRELIMINARY
 THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONTRACTS, OR SALES.

DATE: 5-11-2006	NO.:	REVISIONS:	NO.	DATE	BY	TITLE	DESIGNED BY	DATE	APPROVED BY	DATE
ROCK DIKE - TYPICAL SECTIONS TE-43 - GIWW BANK RESTORATION TERREBONNE PARISH LOUISIANA							DESIGNED			
							DRAWN			
							TRACKED			
							CHECKED			
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE										

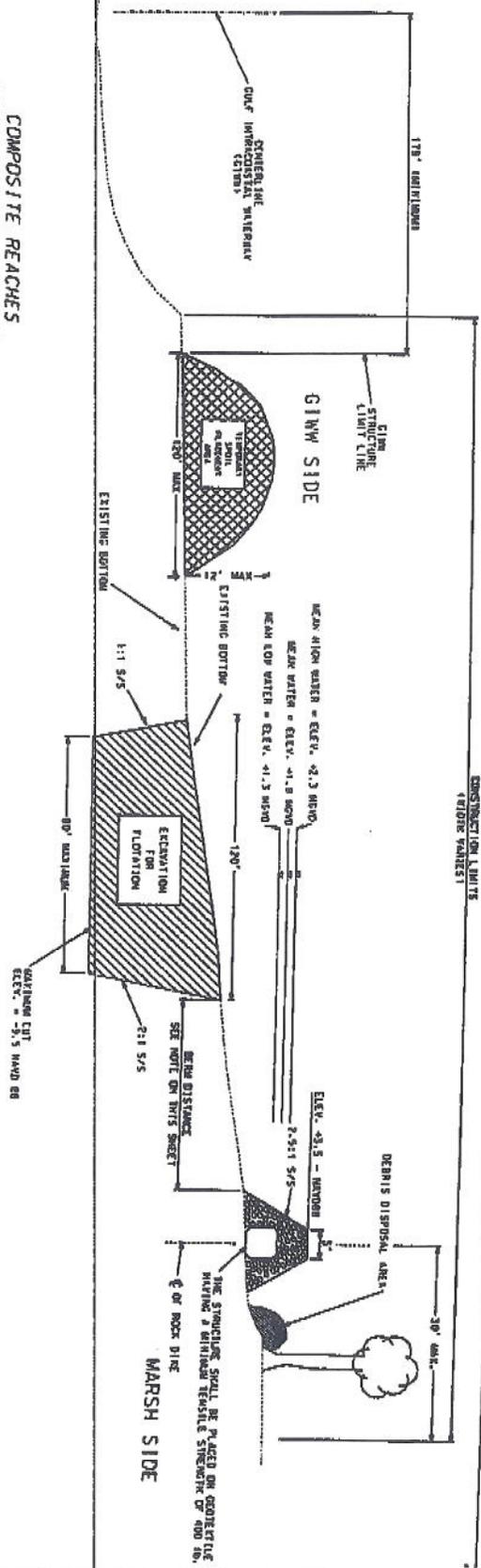
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NOTE:
 WIDTH AND HEIGHT OF BATTER LIGHTWEIGHT AGGREGATE IS VARIABLE.
 ALL SPOIL SHALL BE PLACED BACK INTO ACCESS CHANNEL AFTER CONSTRUCTION
 AS REQUIRED. TABLES SHALL BE REMOVED AND PLACED ON THE MARSH SIDE OF THE
 STRUCTURE.
 THE BATTER AGGREGATE SHALL BE 30' EXCEPT FOR THE FOLLOWING REACHES, WHICH
 SHALL BE AS NOTED IN THE TABLES:
 REACH 2 - 19+00 TO 21+00, REACH 3 - 21+00 TO 26+50, REACH 4 - 26+50 TO 30+50,
 REACH 5 - 30+50 TO 41+00, REACH 6 - 41+00 TO 45+00, REACH 7 - 45+00 TO 50+00,
 REACH 8 - 50+00 TO 58+00, REACH 9 - 58+00 TO 60+00, REACH 10 - 60+00 TO 64+00,
 REACH 11 - 64+00 TO 75+00, REACH 12 - 75+00 TO 80+00, REACH 13 - 80+00 TO 84+00,
 REACH 14 - 84+00 TO 93+00, REACH 15 - 93+00 TO 99+00, REACH 16 - 99+00 TO 100+00.
 THE WIDTH OF THE DIKE IS VARIABLE. THE GIVE IS PLACED TO FOLLOW THE
 1'-0" CONDITION. THE ACTUAL LAYOUT MAY VARY. THEREFORE THE GIVE SHOULD VARY
 IN THE RANGE FROM 6'-0" TO 5'-0".
 THE DEPTH OF THE ACCESS CHANNEL IS ALSO VARIABLE. THIS DEPENDS ON THE TOPOGRAPHY
 AND HOW MUCH THE CONTRACTOR CHOOSES TO EXCAVATE.

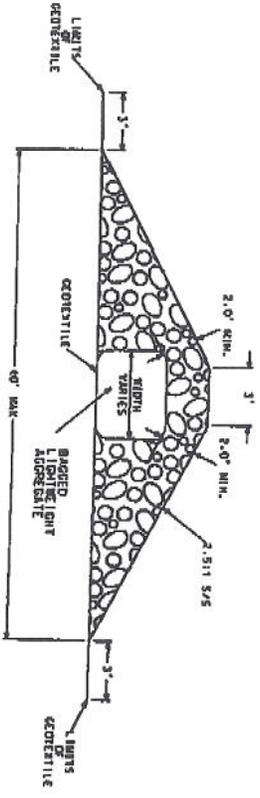
**COMPOSITE REACHES
 LIGHT WEIGHT AGGREGATE**

REACH	START	END	WIDTH	HEIGHT
1	0+00	11+00	0.61	0.61
2	11+00	21+00	0.51	0.51
3	21+00	30+50	0.58	0.58
4	30+50	41+00	0.50	0.50
5	41+00	45+00	0.81	0.81
6	45+00	50+00	0.58	0.58
7	50+00	58+00	1.11	1.11
8	58+00	60+00	1.07	1.07
9	60+00	64+00	1.30	1.30
10	64+00	75+00	1.42	1.42
11	75+00	80+00	0.81	0.81
12	80+00	84+00	1.65	1.65
13	84+00	93+00	1.52	1.52
14	93+00	99+00	1.50	1.50
15	99+00	100+00	1.41	1.41

TYPICAL SECTION - COMPOSITE ROCK DIKE
 (NOT TO SCALE)



COMPOSITE ROCK DIKE DETAIL
 (ALTERNATIVE 1)



PRELIMINARY
 THIS DOCUMENT SHALL
 NOT BE USED FOR
 CONSTRUCTION, BIDDING,
 ACQUISITION, CONTRACTING,
 OR BIDDING.

DESIGNED BY	DATE	APPROVED BY	DATE
DRAWN BY		TITLE	
CHECKED BY		TITLE	
DATE			

COMPOSITE DIKE - TYPICAL SECTIONS
 TE-43 - GIWW BANK RESTORATION
 TERREBONNE PARISH
 LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

