



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS LA 70118-3651

December 5, 2022

Regulatory Division
Western Evaluation Branch

Project Manager:
Johnny Duplantis
(504) 862-2548
johnny.j.duplantis@usace.army.mil

Application #: MVN-2011-01090-WPP

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344), and/or [] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

FALGOUT CANAL LEVEE LIFT (REACH 'E') IN TERREBONNE PARISH

NAME OF APPLICANT: Terrebonne Parish Levee & Conservation District, c/o Delta Coast Consultants, LLC, 631 South Hollywood Road, Houma, LA 70360, Attn: Kenneth King.

LOCATION OF WORK: Levee P.O.B. @ Latitude 29° 24' 27"N, Longitude 90° 46' 58"W; P.O.E. @ Latitude 29° 23' 01"N, Longitude 90° 43' 51"W; Falgout Canal Road; Dularge, LA. (Hydrologic Unit Code 08090302, Terrebonne Watershed)

CHARACTER OF WORK: Permit authorization was granted on December 12, 2014, for the construction of the Falgout Canal Road (Reach E), which was constructed as a component levee segment in the Morganza to the Gulf levee system. The permit further authorized the completion of an associated Permittee Responsible Mitigation (PRM) terracing project, which was determined by the Corps as appropriate mitigation for impacts of the levee project. This permit expired on December 31, 2019, and the applicant has requested permit reissuance to allow for the construction of an additional levee lift of the Reach E levee and to continue the construction of uncompleted mitigation terraces as outlined in the original mitigation plan dated January 2014. No additional impacts to wetlands are proposed with the levee lift project.

The comment period on the requested Department of the Army Permit will close **20 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineer's project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, Johnny**.

Duplantis. Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment must be specific and substantively supportive of the requested extension and received by this office prior to the end of the initial comment period. The Branch Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennj>

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is presently unaware of properties listed on the National Register of Historic Places at or near the proposed work but is pending further review in accordance with the National Historic Preservation Act. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project would have no effect to the West Indian Manatee (*Trichechus manatus*), Eastern Black Rail (*Laterallus jamaicensis*), and Monarch Butterfly (*Danaus plexippus*).

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of **23 acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

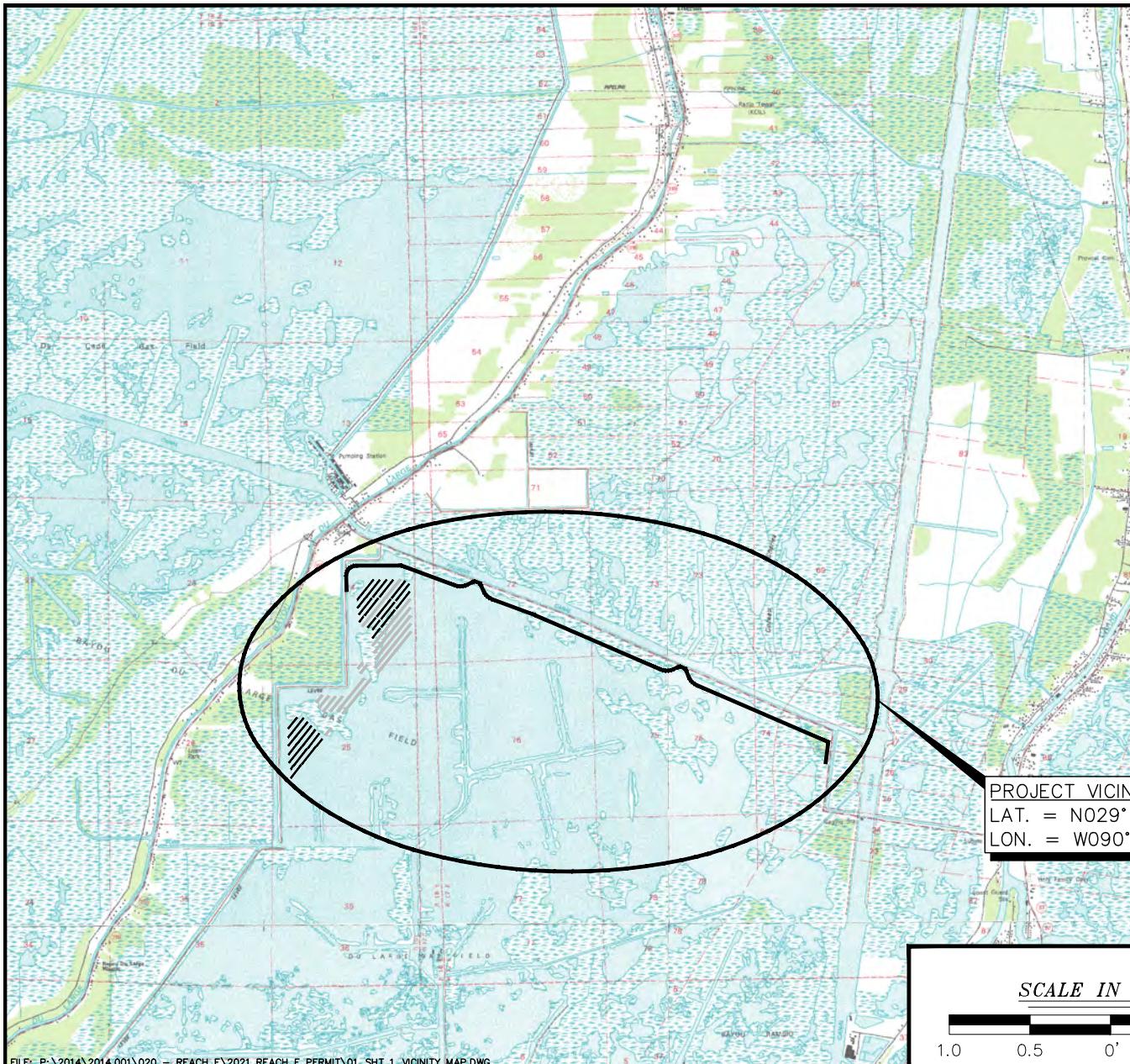
If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. *Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Louisiana Department of Environmental Quality before a Department of the Army permit could be issued.*

Any person may request within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing, and can be preferably emailed to the USACE project manager listed above or mailed to the address listed above.

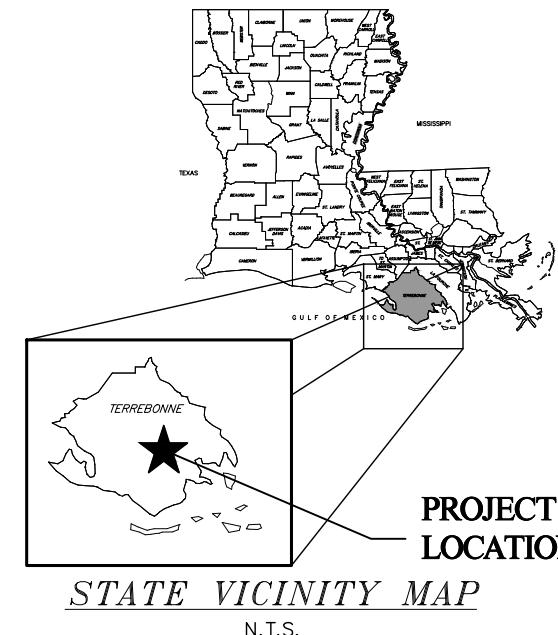
You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara
Chief, Western Evaluation Branch
Regulatory Division

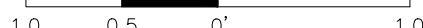
Enclosures



FILE: P:\2014\2014.001\020 - REACH E\2021 REACH E PERMIT\01_SHT 1_VICINITY MAP.DWG



SCALE IN MILES



NOTE:
1. NO EXPANSION OF EXISTING LEVEE FOOTPRINT.
2. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE EXISTING LEVEE R.O.W.

THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

| NO. | REVISION | DATE |
|-----|----------------------|---------|
| 01 | REVISED PER COMMENTS | 11/2/21 |
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VICINITY MAP

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
72, 73, & 75 T19S-R17E

DULARGE, LOUISIANA

TERREBONNE PARISH



**DELTA COAST
CONSULTANTS, LLC**

631 S. HOLLYWOOD RD.
HOUMA, LA 70360

www.deltacoastllc.com

PHONE: 985-655-3100

DESIGNED BY

DRAWN BY

EMV

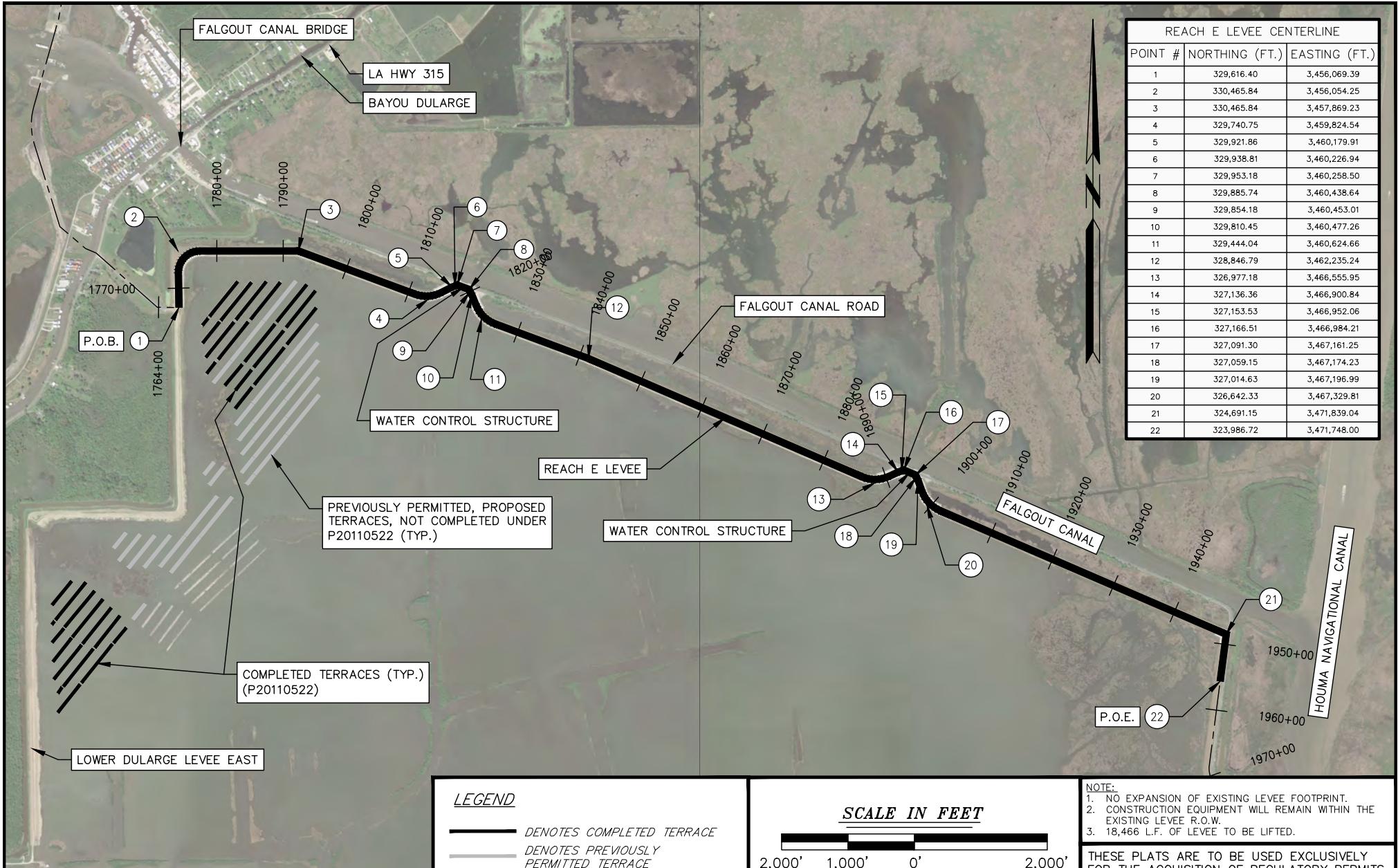
CHECKED BY
KJK

SCALE
1" = 4,000'

DATE
10/28/21

PROJECT
2014.001/020

SHEET NO.
1 OF 12



OVERALL PLAN VIEW

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
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SCALE
1" = 2,000'

DATE
10/28/21

PROJECT
2014.001/020

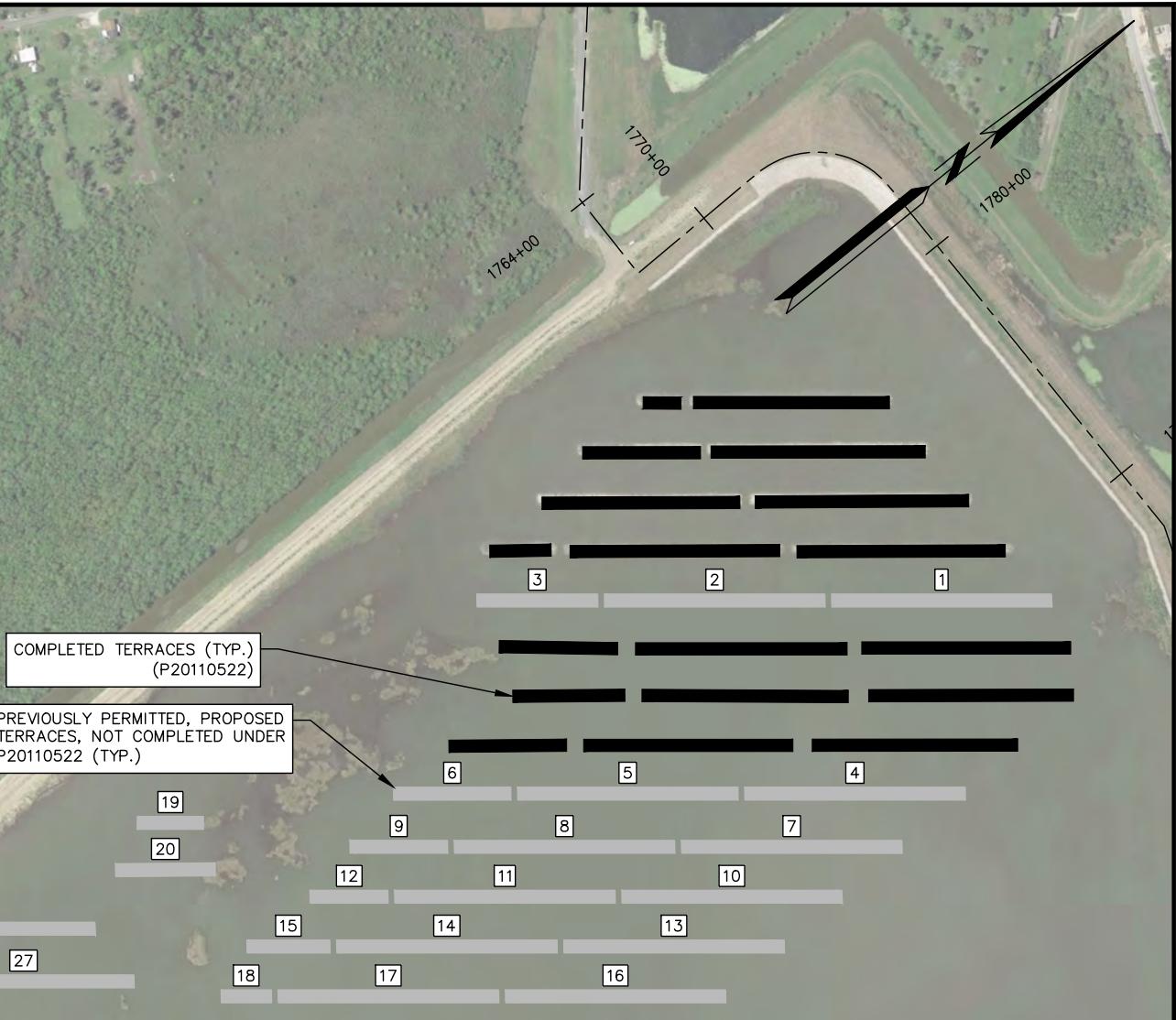
SHEET NO.
2 OF 12

NOTE:
1. NO EXPANSION OF EXISTING LEVEE FOOTPRINT.
2. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE EXISTING LEVEE R.O.W.
3. 18,466 L.F. OF LEVEE TO BE LIFTED.

THESE PLATS ARE TO BE USED EXCLUSIVELY FOR THE ACQUISITION OF REGULATORY PERMITS.

| TERRACE | P.O.B | | P.O.E. | | LENGTH (FT.) |
|---------|-----------|------------|-----------|------------|--------------|
| | NORTHING | EASTING | NORTHING | EASTING | |
| 1 | 330007.08 | 3457824.30 | 329425.24 | 3457353.15 | 750 |
| 2 | 329405.81 | 3457337.41 | 328822.87 | 3456865.37 | 750 |
| 3 | 328803.44 | 3456849.63 | 328484.65 | 3456591.50 | 410 |
| 4 | 329363.16 | 3458150.95 | 328779.87 | 3457678.77 | 750 |
| 5 | 328760.44 | 3457663.04 | 328177.41 | 3457191.08 | 750 |
| 6 | 328157.98 | 3457175.34 | 327849.08 | 3456925.29 | 400 |
| 7 | 329080.96 | 3458156.39 | 328497.99 | 3457684.28 | 750 |
| 8 | 328478.55 | 3457668.55 | 327895.58 | 3457196.44 | 750 |
| 9 | 327876.15 | 3457180.71 | 327618.76 | 3456972.26 | 331 |
| 10 | 328815.02 | 3458159.72 | 328232.88 | 3457688.41 | 750 |
| 11 | 328213.45 | 3457672.68 | 327630.42 | 3457200.65 | 750 |
| 12 | 327610.98 | 3457184.91 | 327405.62 | 3457018.65 | 264 |
| 13 | 328554.98 | 3458168.21 | 327971.90 | 3457696.01 | 750 |
| 14 | 327952.47 | 3457680.28 | 327369.50 | 3457208.17 | 750 |
| 15 | 327350.06 | 3457192.43 | 327131.69 | 3457015.59 | 281 |
| 16 | 328292.64 | 3458174.56 | 327709.93 | 3457702.71 | 750 |
| 17 | 327690.50 | 3457686.97 | 327107.51 | 3457214.89 | 750 |
| 18 | 327088.07 | 3457199.16 | 326956.23 | 3457092.39 | 169 |
| 19 | 327280.04 | 3456592.76 | 327106.07 | 3456451.88 | 224 |
| 20 | 327211.69 | 3456741.41 | 326946.95 | 3456531.16 | 338 |
| 21 | 326215.40 | 3455268.49 | 325995.38 | 3455090.33 | 283 |
| 22 | 326191.18 | 3455480.49 | 325803.64 | 3455166.68 | 500 |
| 23 | 326175.56 | 3455699.46 | 325695.31 | 3455310.57 | 618 |
| 24 | 326180.70 | 3455935.23 | 325703.95 | 3455549.18 | 613 |
| 25 | 326766.09 | 3456640.87 | 326182.67 | 3456168.44 | 750 |
| 26 | 326163.23 | 3456152.69 | 325713.76 | 3455788.74 | 578 |
| 27 | 326755.92 | 3456864.25 | 326172.50 | 3456391.82 | 750 |
| 28 | 326153.06 | 3456376.07 | 325627.19 | 3455950.25 | 677 |
| 29 | 325143.43 | 3455558.52 | 324923.73 | 3455380.61 | 283 |

TOTAL = 16,469



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OVERALL PLAN VIEW - TERRACES

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
72, 73, & 75 T19S-R17E

DULARGE, LOUISIANA

TERREBONNE PARISH



**DELTA COAST
CONSULTANTS, LLC**

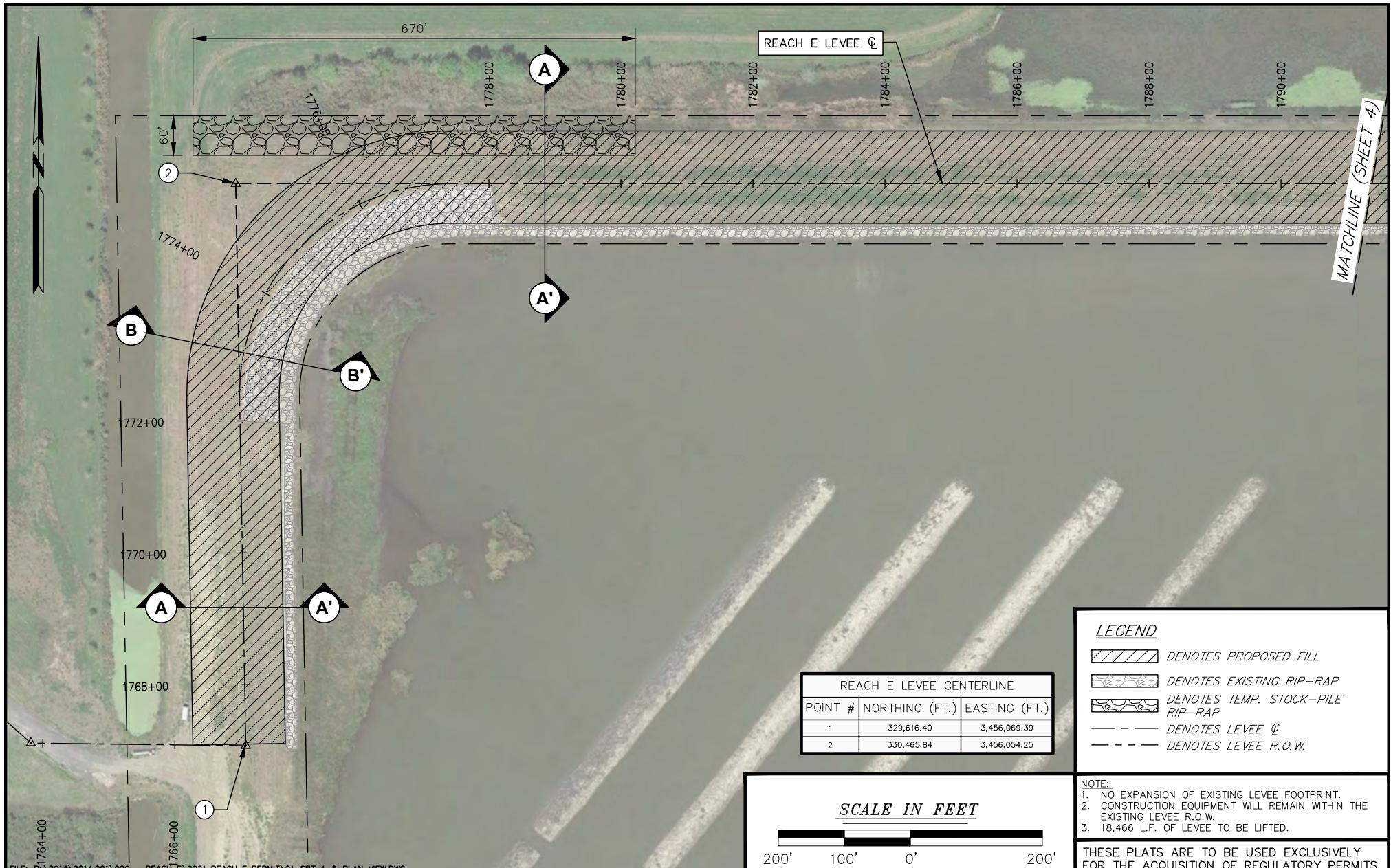
631 S. HOLLYWOOD RD.
HOUMA, LA 70360

www.deltacoastllc.com

PHONE: 985-655-3100

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| DESIGNED BY | DRAWN BY | CHECKED BY |
| EMV | KJK | |
| SHEET NO. | 3 OF 12 | |

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| SCALE 1" = 600' |
| DATE 10/28/21 |
| PROJECT 2014.001/020 |



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PLAN VIEW

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DULARGE, LOUISIANA

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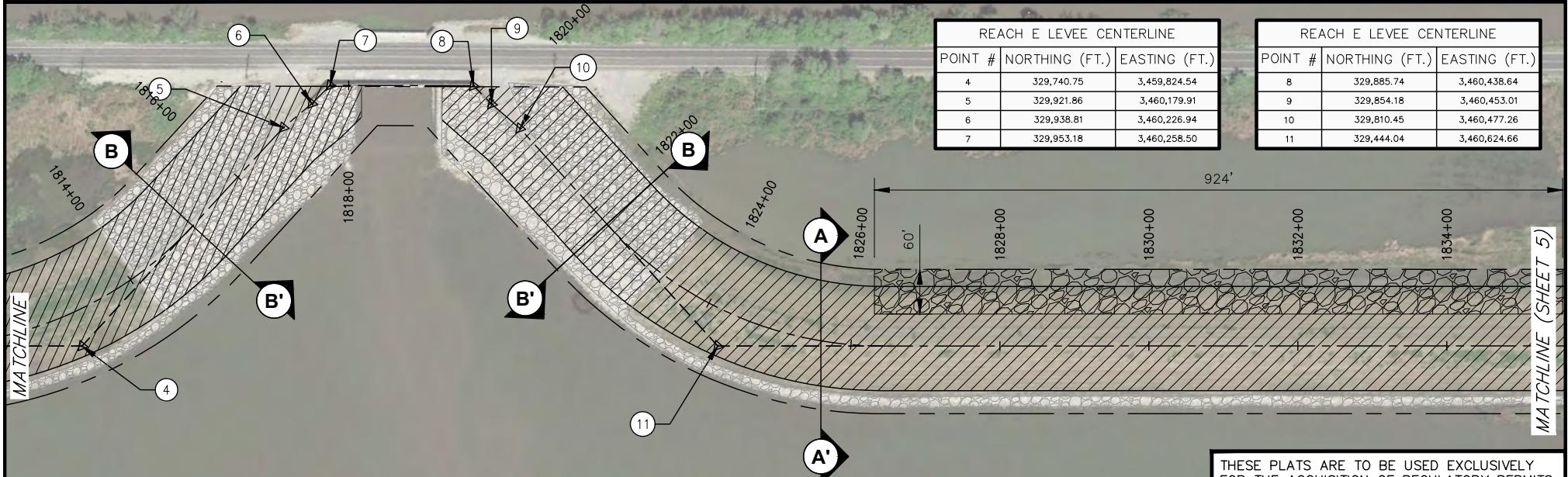
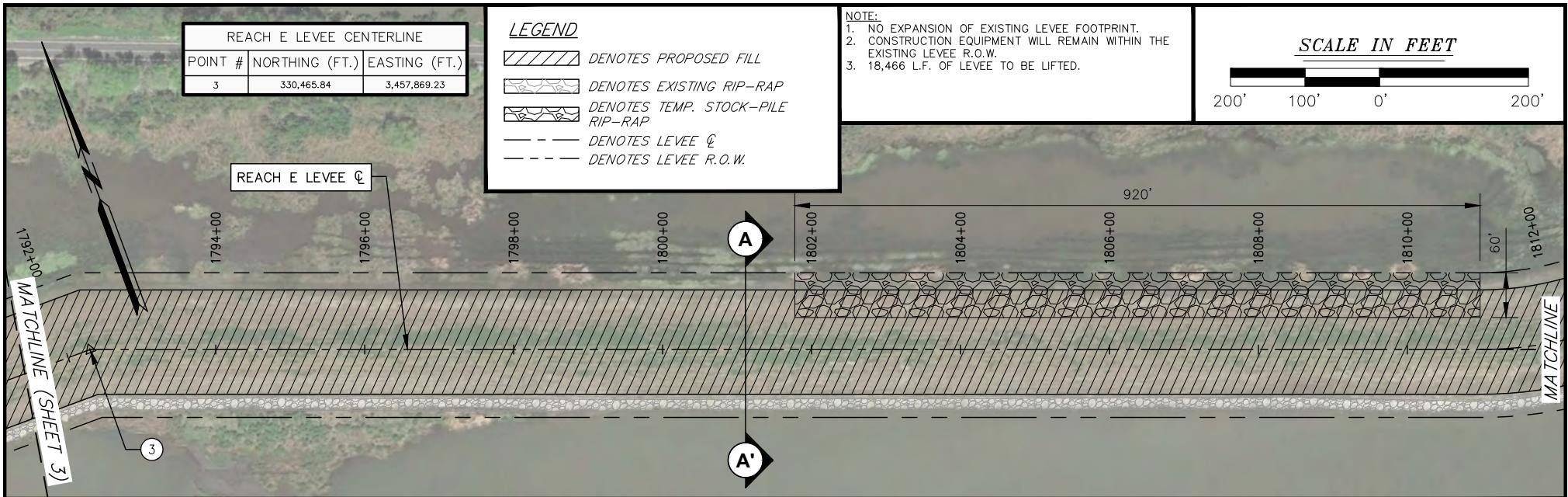
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SCALE
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SHEET NO.
4 OF 12



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PLAN VIEW

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
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DULARGE, LOUISIANA

TERREBONNE PARISH



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HOUMA, LA 70360

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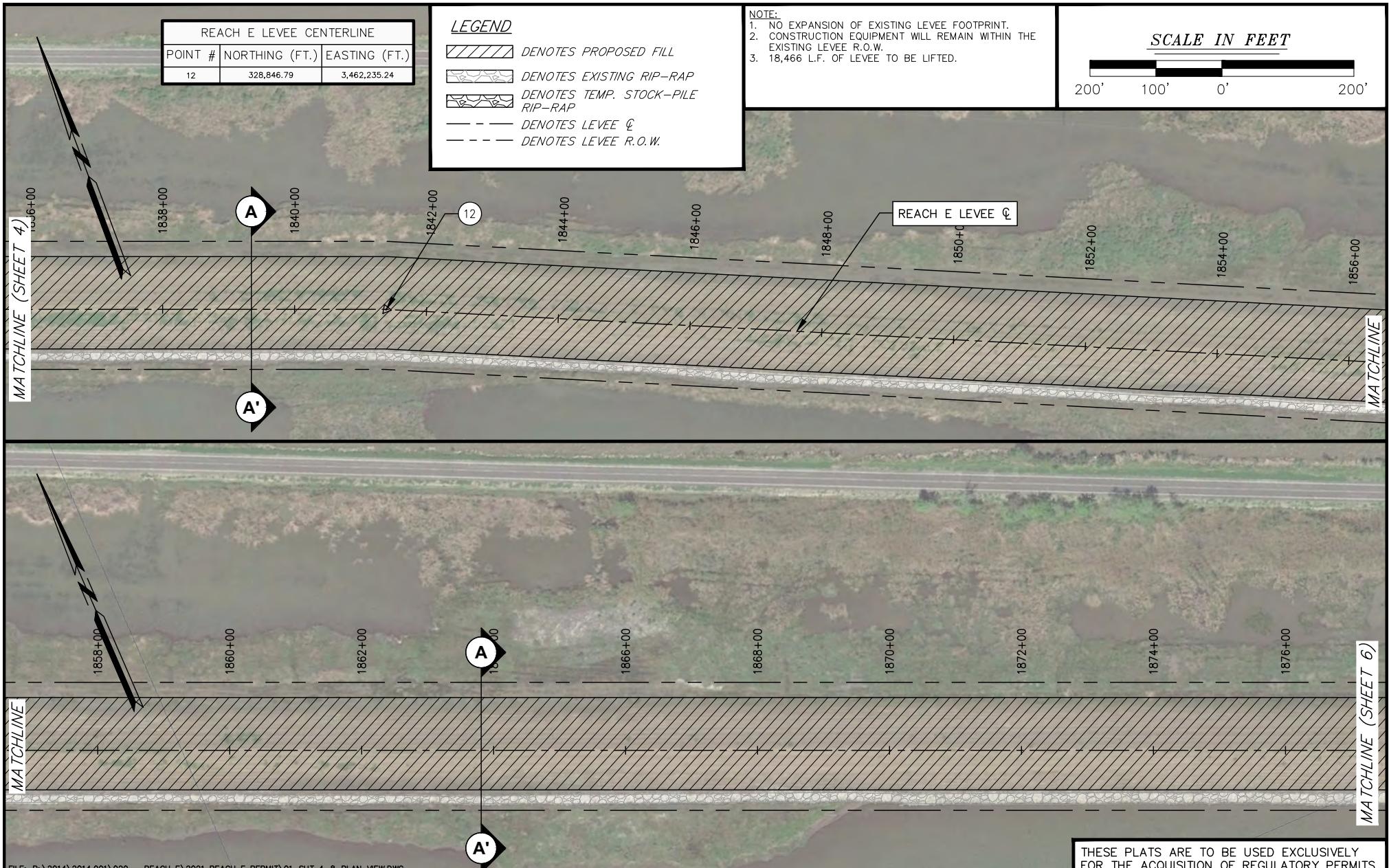
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SCALE
1" = 200'

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SHEET NO.
5 OF 12



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THESE PLATS ARE TO BE USED EXCLUSIVELY
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PLAN VIEW

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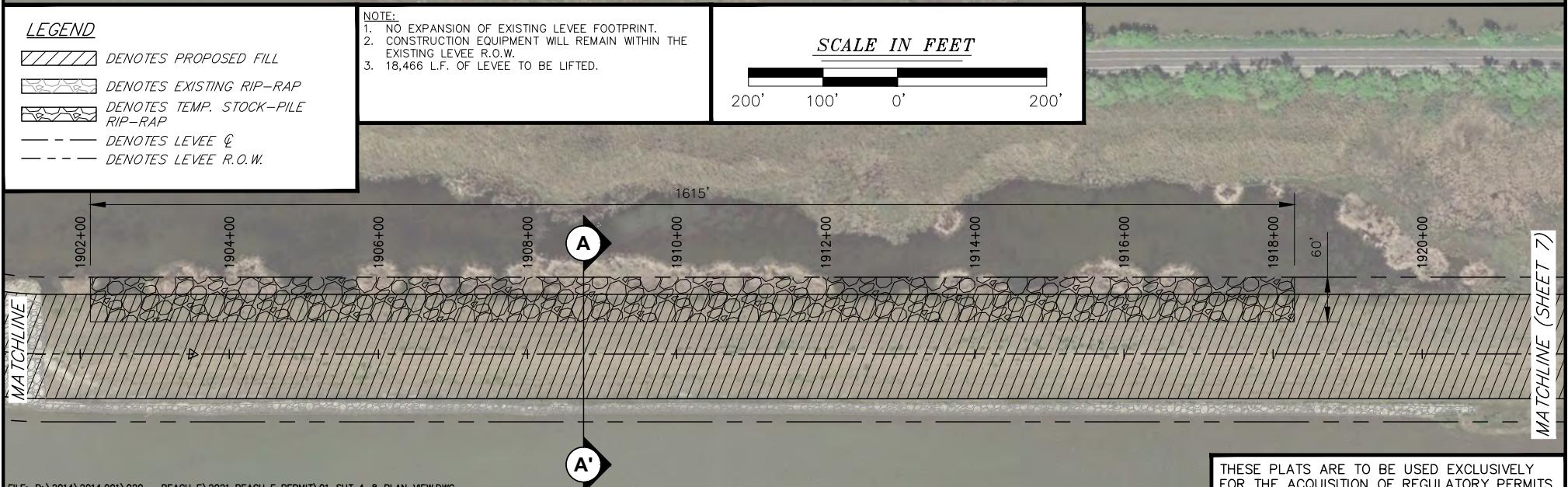
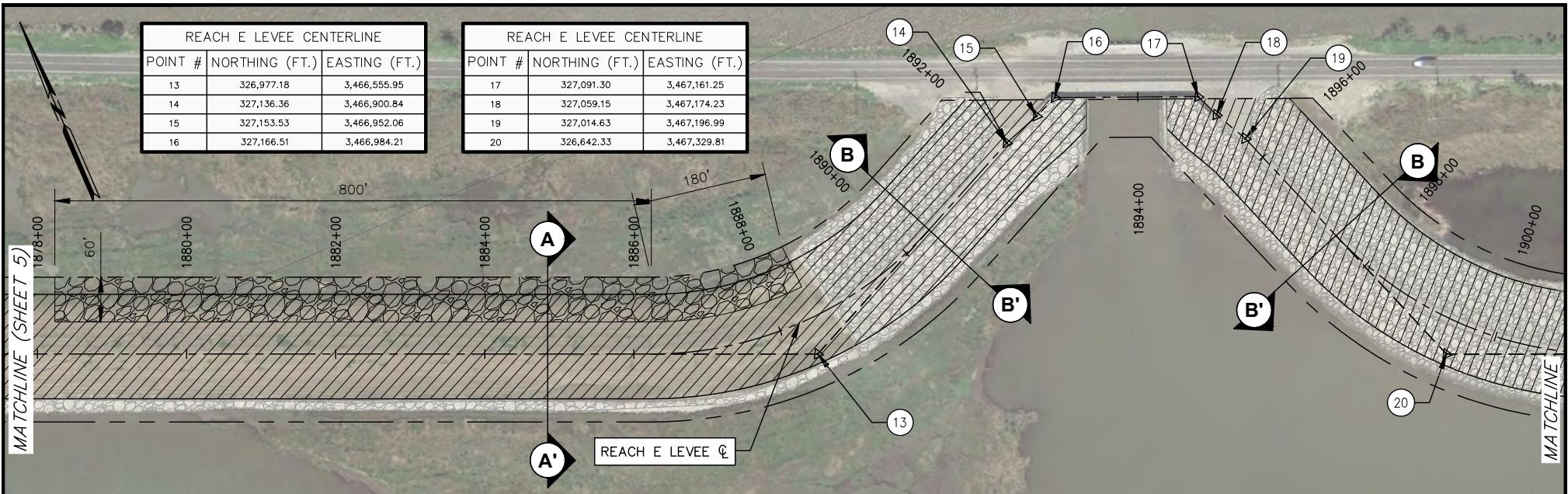
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DATE
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SHEET NO.
6 OF 12



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PLAN VIEW

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
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DULARGE, LOUISIANA

TERREBONNE PARISH

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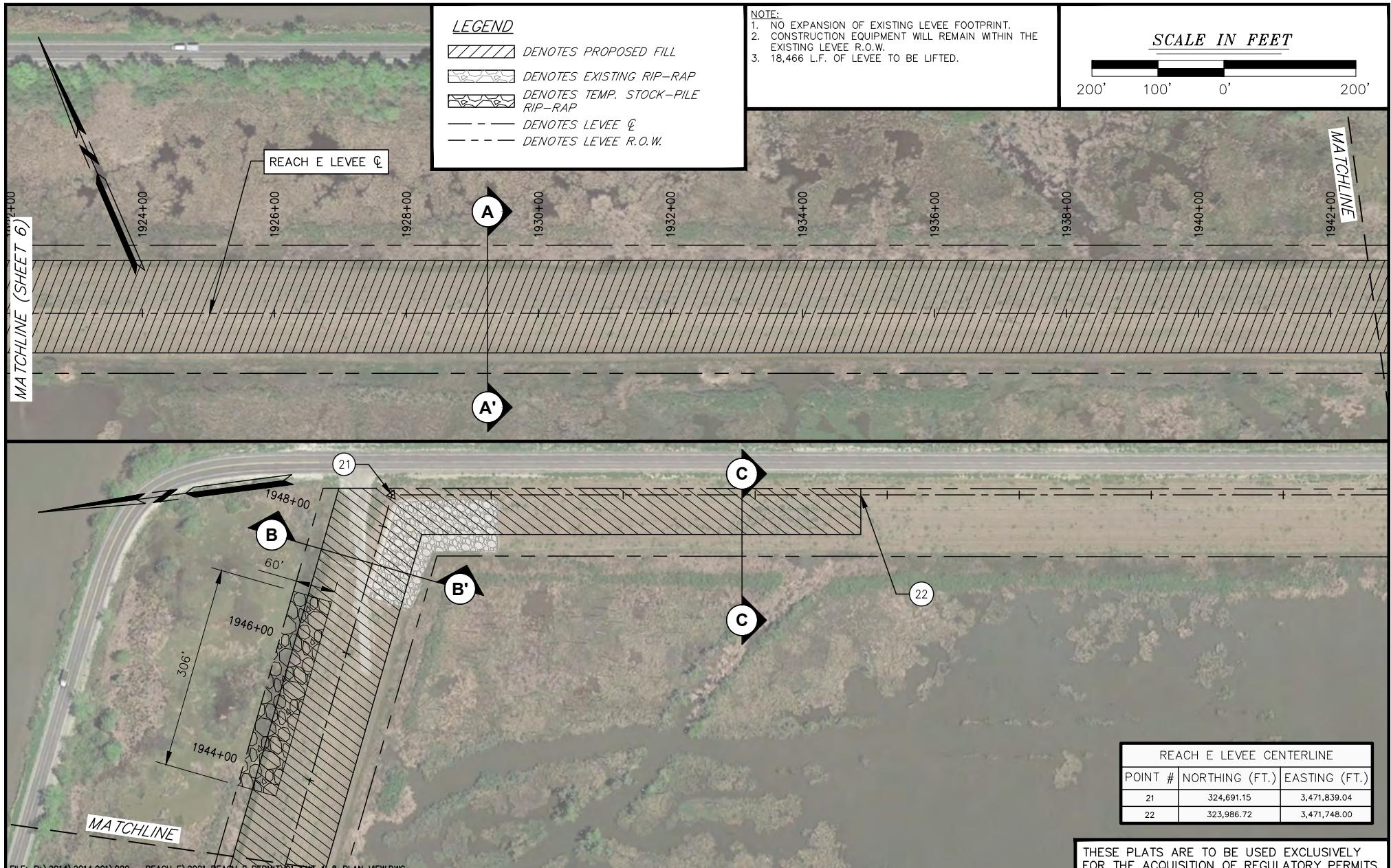
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| EMV | EMV | KJK |

SCALE
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DATE
10/28/21

PROJECT
2014.001/020

SHEET NO.
7 OF 12



| NO. | REVISION | DATE |
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PLAN VIEW

PROPOSED REACH E LEVEE REHAB
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DULARGE, LOUISIANA

TERREBONNE PARISH



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HOUMA, LA 70360

www.deltacoastllc.com

PHONE: 985-655-3100

DESIGNED BY

DRAWN BY

EMV

CHECKED BY

KJK

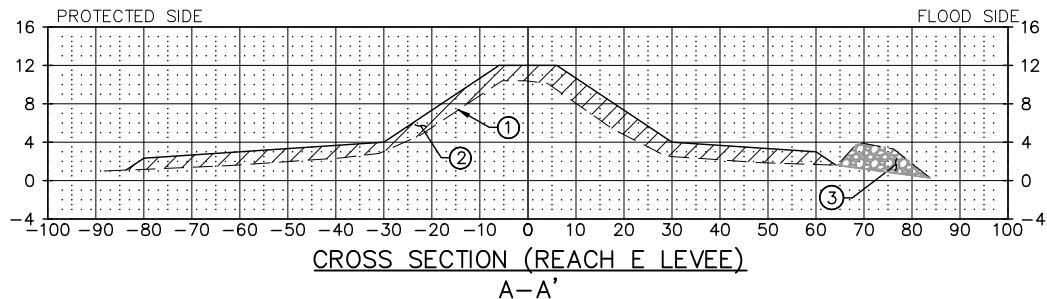
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DATE
10/28/21

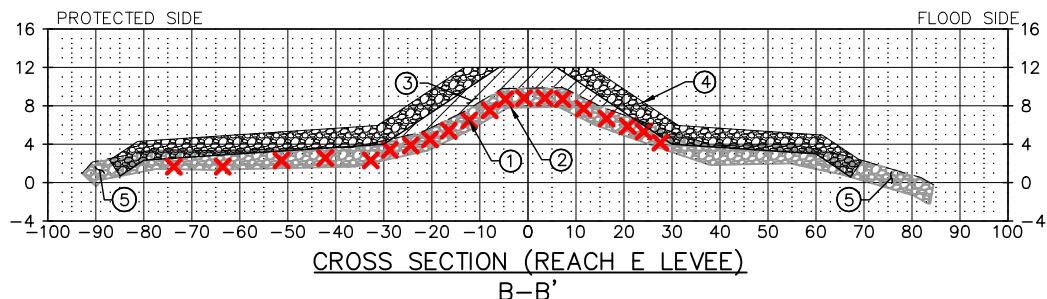
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SHEET NO.
8 OF 12

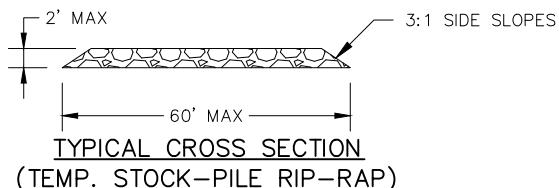
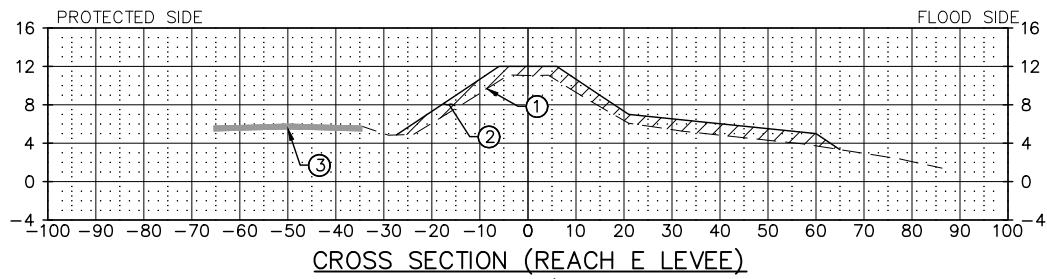
STA. 1767+10 - 1772+00
 STA. 1778+10 - 1814+10
 STA. 1823+25 - 1888+80
 STA. 1901+54 - 1946+90



| | | | |
|------|---------|---|---------|
| STA. | 1772+10 | - | 1778+10 |
| STA. | 1814+10 | - | 1817+75 |
| STA. | 1819+70 | - | 1823+25 |
| STA. | 1888+80 | - | 1892+89 |
| STA. | 1894+81 | - | 1901+54 |
| STA. | 1946+90 | - | 1950+09 |



STA. 1950+90 - 1955+60



(TEMP. STOCK-PILE RIP-RAP)

FILE: P:\2014\2014.001\020 - REACH E\2021 REACH E PERMIT\01_SHT 9-11_TYPICAL_SECTIONS.DWG

CROSS SECTION

**PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
72, 73, & 75 T19S-R17E**

BILARCE, LOUISIANA

TERREBONNE, PARISI



**DELTA COAST
CONSULTANTS, LLC**

631 S. HOLLYWOOD BLVD.

PHONE: 985-655-3100

DESIGNED BY

DESIGNED BY

www.deltacoastllc.com

www.deltaeastlcc.com

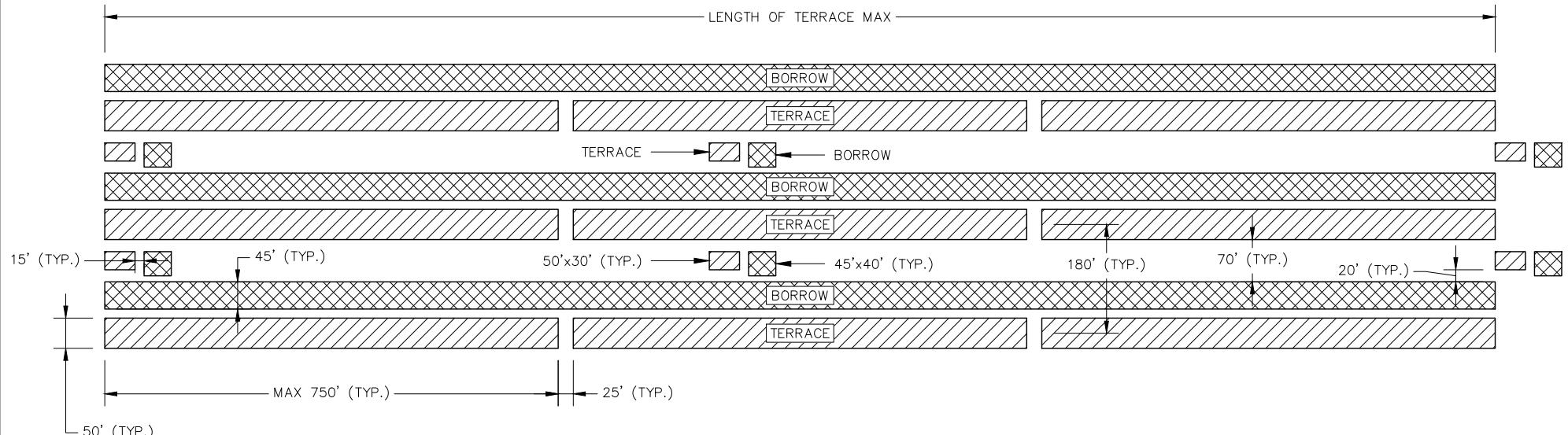
SCALE
SHOWN

DATE

PROJECT
2014-001 /03

SHEET NO. 9-25-12

MHW: 2.0'
HLW: -3.0'



NOTE: TERRACES TO BE CONSTRUCTED ACCORDING TO THE
MITIGATION PLAN SPECIFICATIONS FOR P20110522

LEGEND

- | | |
|--|-----------------------------|
| | DENOTES PROPOSED FILL |
| | DENOTES PROPOSED EXCAVATION |

SCALE IN FEET

250' 125' 0' 250'

NOTE:
1. NO EXPANSION OF EXISTING LEVEE FOOTPRINT.
2. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE EXISTING LEVEE R.O.W.

THESE PLATS ARE TO BE USED EXCLUSIVELY
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FILE: P:\2014\2014.001\020 - REACH E\2021 REACH E PERMIT\01_SHT 9-11_TYPICAL SECTIONS.DWG

TYPICAL TERRACING PLAN VIEW

PROPOSED REACH E LEVEE REHAB
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DRAWN BY

CHECKED BY

EMV

KJK

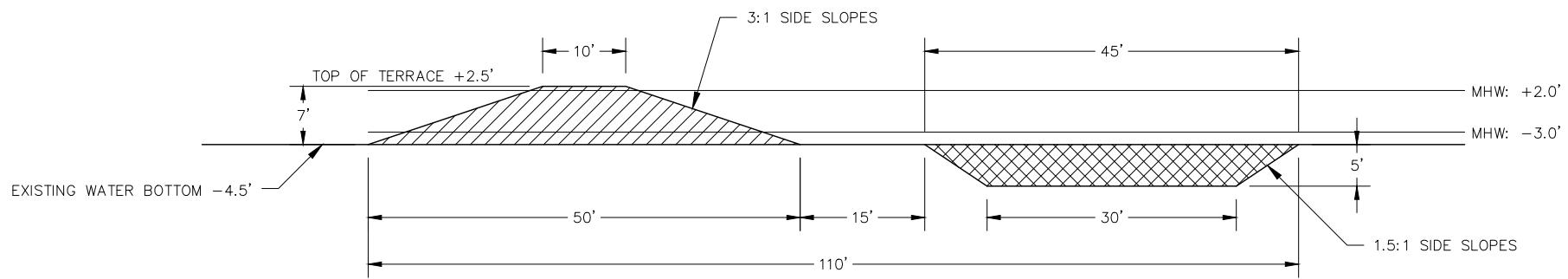
SCALE
SHOWN

DATE
10/28/21

PROJECT
2014.001/020

SHEET NO.
10 OF 12

MHW: 2.0'
HLW: -3.0'



LEGEND

- | | |
|--|-----------------------------|
| | DENOTES PROPOSED FILL |
| | DENOTES PROPOSED EXCAVATION |

SCALE IN FEET

20' 10' 0' 20'

- NOTE:**
1. NO EXPANSION OF EXISTING LEVEE FOOTPRINT.
 2. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE EXISTING LEVEE R.O.W.

THESE PLATS ARE TO BE USED EXCLUSIVELY
FOR THE ACQUISITION OF REGULATORY PERMITS.

FILE: P:\2014\2014.001\020 - REACH E\2021 REACH E PERMIT\01_SHT 9-11_TYPICAL SECTIONS.DWG

| NO. | REVISION | DATE |
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| 01 | REVISED PER COMMENTS | 11/2/21 |
| | | |
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| | | |
| | | |
| | | |

TYPICAL TERRACING SECTION VIEW

PROPOSED REACH E LEVEE REHAB
FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE
APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT
LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28,
72, 73, & 75 T19S-R17E

DULARGE, LOUISIANA

TERREBONNE PARISH



**DELTA COAST
CONSULTANTS, LLC**

631 S. HOLLYWOOD RD.
HOUMA, LA 70360

www.deltacoastllc.com

PHONE: 985-655-3100

DESIGNED BY

DRAWN BY

EMV

CHECKED BY
KJK

SCALE SHOWN
DATE 10/28/21
PROJECT 2014.001/020
SHEET NO. 11 OF 12

GENERAL NOTES:

1. AS-BUILT DRAWINGS AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P. O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
2. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U. S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

ENVIRONMENTAL IMPACTS:

1. NON-WETLAND:

LEVEE CONSTRUCTION: 172,773 CUBIC YARDS (HAULED IN MATERIAL) OR 57.85 ACRES

TERRACES:

FILL: 132,346 CUBIC YARDS OR 18.90 ACRES

EXCAVATION: 132,346 CUBIC YARDS OR 18.90 ACRES

RIP-RAP STOCK-PILED: 24,135 CUBIC YARDS OR 7.48 ACRES

2. WETLAND: 0 CUBIC YARDS OR 0.00 ACRES

FILE: P:\2014\2014.001\020 - REACH E\2021 REACH E PERMIT\01_SHT 12_NOTES.DWG

NOTE:
1. NO EXPANSION OF EXISTING LEVEE FOOTPRINT.
2. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE EXISTING LEVEE R.O.W.

THESE PLATS ARE TO BE USED EXCLUSIVELY
FOR THE ACQUISITION OF REGULATORY PERMITS.

| NO. | REVISION | DATE | NOTES | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE |
|-----|----------------------|---------|--|-------------|----------|------------|--------------|
| 01 | REVISED PER COMMENTS | 11/2/21 | PROPOSED REACH E LEVEE REHAB FOR MORGANZA TO THE GULF HURRICANE PROTECTION LEVEE APPLICANT: TERREBONNE LEVEE & CONSERVATION DISTRICT LOCATED IN SECTION 24 T19S-R16E & SECTIONS 27, 28, 72, 73, & 75 T19S-R17E DULARGE, LOUISIANA | | | | N/A |
| | | | | | | | DATE |
| | | | | | | | 10/28/21 |
| | | | | | | | PROJECT |
| | | | | | | | 2014.001/020 |
| | | | | | | | SHEET NO. |
| | | | | | | | 12 OF 12 |



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HOUMA, LA 70360

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PHONE: 985-655-3100

MITIGATION PLAN

**TO OFFSET THE LOSS OF 24± ACRES OF
BRACKISH MARSH HABITAT FOR THE
FALGOUT CANAL ROAD LEVEE PROJECT**

**PREPARED FOR:
CORPS OF ENGINEERS AND
LOUISIANA DEPARTMENT OF NATURAL RESOURCES**

**FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT**

JANUARY 2014

Prepared by:



Houma, LA Lafayette, LA Baton Rouge, LA Thibodaux, LA Houston, TX
1 (866) 357-1050 www.tbsmith.com

INTRODUCTION

The Terrebonne Levee & Conservation District proposes the following mitigation plan for the U.S. Army Corps of Engineers Permit Number MVN 2011-01090-WPP and Coastal Use Permit Number P20110522. The agencies recommended that we submit a mitigation plan that will offset the losses of 24.0± acres of brackish marsh.

METHODS

Terraces will be created by using existing bay bottom sediment to form a baffle system of ridges at marsh elevation after settlement. Terraces will be constructed in a staggered gap formation to minimize fetch and promote transport of aquatic organisms. A backhoe shovel mounted on a marsh buggy will dredge approximately 5 feet into the substrate. The dredged material will be placed on top of the adjacent bottom forming the terrace, the top of which will be at an elevation of 5.0 foot NAVD 88, which will settle to 2.5 foot NAVD 88, level with the marsh surface after approximately five years of settlement. When possible, terraces will be dredged on alternating sides in order to avoid creating continuous canals which could cause increased scouring. Gaps will be placed between terraces in order to facilitate the settling of suspended soil particles.

BENEFITS AND OBJECTIVES

The combination of vegetative planting and marsh terracing is intended to:

- 1) Promote deposition and retention of suspended sediments;
- 2) Reduce turbidity;
- 3) Reestablish emergent marsh vegetation;
- 4) Reduce marsh fringe retreat by reducing fetch;
- 5) Increase fisheries production by increasing the length of marsh edge.

BASELINE INFORMATION

The marsh type in this area would be classified as brackish marsh experiencing deterioration to open water in majority of the areas. The site is characterized by shallow open water and remnant areas of degraded marsh. Open water comprises the majority of the proposed compensatory project with containment dikes abutting existing emergent wetlands. The area is and has been historically water of the U.S. with adjoining jurisdictional wetlands.

DETERMINATION OF CREDITS

The project will offset the losses of $24.0\pm$ acres of brackish marsh by creating $39.0\pm$ acres of mitigation. The proposed mitigation plan should be considered as an acceptable method of applying the “in lieu” mitigation funds for a sustainable project that allows maximum ratio of dollars to construction marsh creation. Recent realignments have increased direct and indirect impacts so these $39.0\pm$ acres will be in excess of the actual desired amount.

MITIGATION PLAN

The project develops $39.0\pm$ acres of mitigation by constructing 37,760 linear feet of terraces in varying lengths in Sections 24 and 25, T19S-R16E; 72 and 76, T19S-R17E (see Attachment No. 1 Mitigation Plan Drawings). The terraces will create a marsh platform and also decrease further loss of wetland acres caused by shoreline erosion by dampening wind and wave energy. The terraces will be arranged in a linear formation in an effort to maximize the amount of marsh/open water edge, and to minimize fetch distances. Terraces will be constructed by depositing borrow material with a 25 ft-wide berm and a top width of 10 feet (top terrace elevation of 5.0 foot NAVD 88) to make a terrace with 3:1 side slopes. Post settlement elevations will be maintained at a minimum 45 foot wide marsh platform between 0.5 foot and 2.5 foot NAVD 88 (see attached Sheet 4 of 6 of the Mitigation Plan Drawings)

Spartina alterniflora (smooth cordgrass) will be planted on 10 foot centers on the mean high water and mean water lines on both sides of each terrace, at approximately 2.0 foot NAVD 88 and 1.25 foot NAVD 88 in elevation. The marsh grass is expected to cover the terraces fairly quickly, and then spread into the shallow areas around the terraces over the course of ten years. The terraces themselves will provide additional wildlife habitat, and the shallow, vegetated areas around them will provide fisheries habitat. The terraces will stop or decrease shoreline erosion and provide platforms for plant growth as well as trap sediments. This project will convert areas of open water back to vegetated marsh as well as compliment the fresh water introduction provided by the environmental structures in this project.

MONITORING REQUIREMENTS, MAINTENACE & ADAPTIVE MANAGEMENT PLAN

The performance of the proposed terrace plan will be monitored by conducting site visits as well as spatial analysis to determine project performance in accordance with the established success criteria. The monitoring schedule will consist of post construction surveys and annual evaluation checks on one, two, and five year intervals. An “As Built” report as well as an annual monitoring report will be submitted to the regulatory stakeholders in a format to be determined. In the event that the proposed mitigation plan does not adequately meet the success criteria that have been established by the natural resource agencies, the sponsor will take appropriate action to improve the performance of the mitigation project in order to meet the required success criteria. The conceptual mitigation plan lays the foundation for the adaptive management of the selected mitigation project.

SITE SELECTION AND SITE PROTECTION INSTRUMENT

The mitigation project selected offsets unavoidable impacts in the same watershed proximal to the actual impacts. Impacted lands and landowners will have mitigation constructed on their lands. Shallow water area with proposed fresh water introduction

should couple with the mitigation project to ensure long term success and viable plant growth. Mitigation servitudes acquired by TLCD in perpetuity will promote long-term protection of the mitigation project site.

PERFORMANCE STANDARDS

The goal of this mitigation is to meet the wetland criteria as described in the Corps 1987 Wetland Delineation Manual as well as applicable criteria that have been identified through the development of existing mitigation program. These criteria can be subdivided into initial, 2 year, and 5 year success criteria.

1. Initial Success Criteria

Initial placement of dredged material completed and at least 80% of site is within “as-built” or initial construction elevation range. Resource agencies will review the Sponsor’s proposed initial construction elevation, but it will be the Sponsor’s responsibility to select the initial construction elevation based on the desired post-compaction, “functional terrace” elevation identified by the natural resource agencies.

2. Year Two Success Criteria

a. After at least one full year following construction, no less than 90% of the terrace creation site is within the “functional terrace” elevation range (e.g., +2.5 ft NAVD88 + 6 inches).

3. Year Five Success Criteria

a. Five years after construction, at least 75% of the marsh creation remains within the target elevation range as determined by the natural resource agencies.

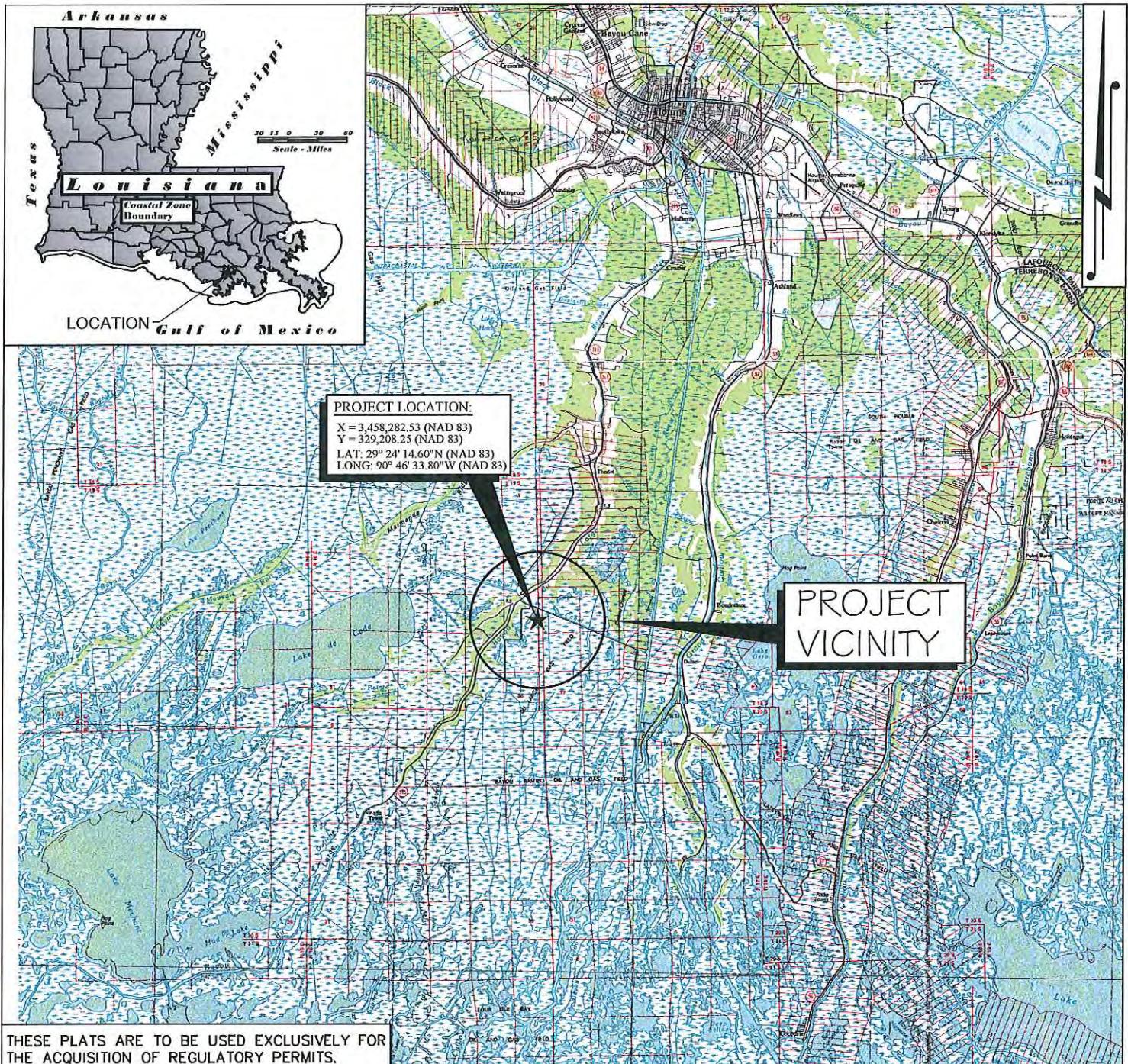
These criteria will be used to evaluate the performance of the mitigation plan. Performance against these metrics will be reported in the annual mitigation reports.

FINANCIAL ASSURANCES AND LONG TERM PROTECTION

As with other projects apart of Morganza to the Gulf, a state agency will provide the financial assurances for the project. The value of the financial assurances will be determined during the development of the site protection instrument. Land ownership shall be acquired by Terrebonne Levee and Conservation District through a flood protection and mitigation servitude. The Sponsor is the party responsible for long term and adaptive management. Terrebonne Levee and Conservation District has both the resources and ability to monitor and maintain the project as specified in the success criteria.

ATTACHMENT NO. 1

Mitigation Plan Drawings



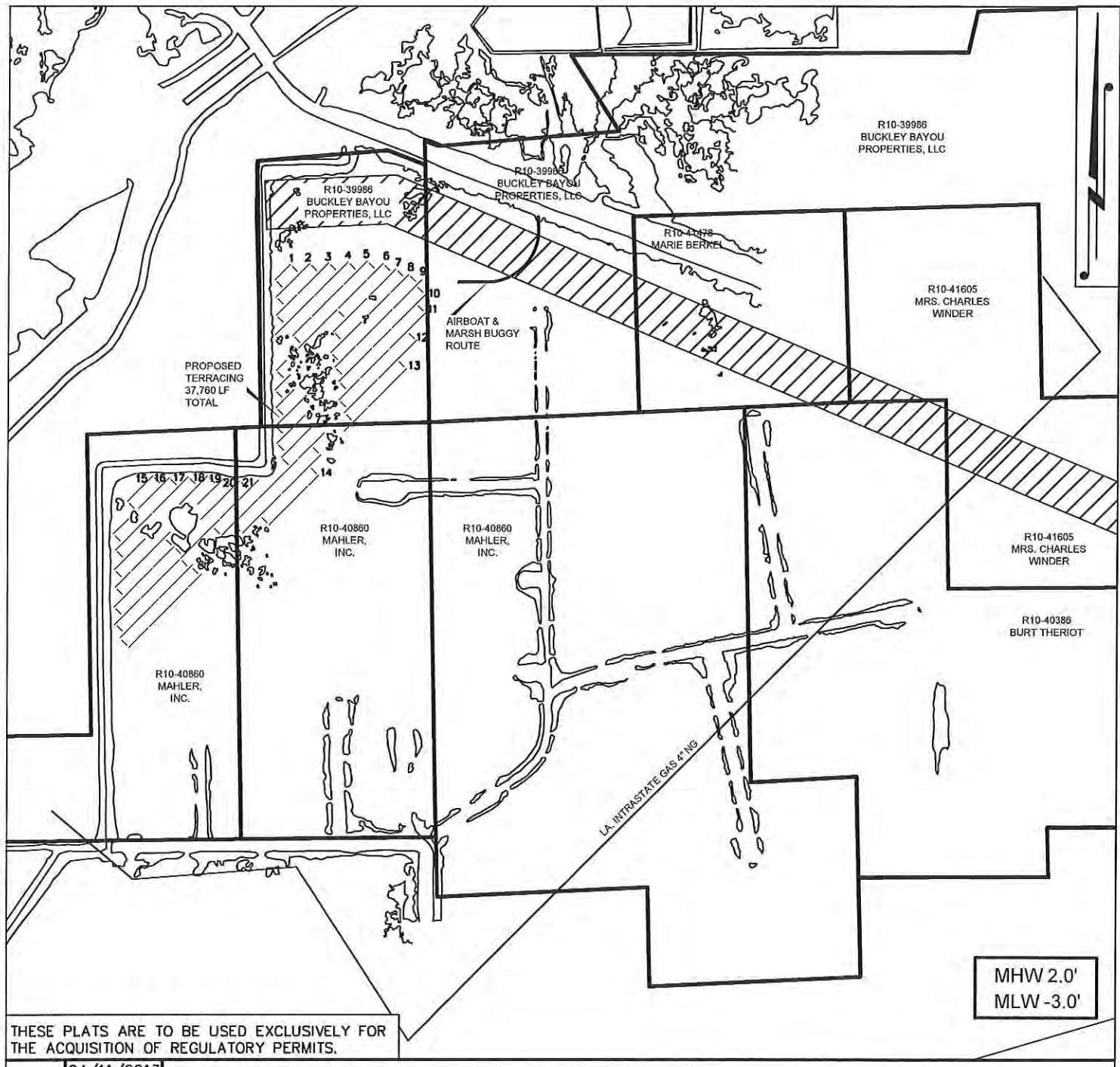
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VICINITY MAP

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
FALGOUT CANAL ROAD LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA



THESE PLATS ARE TO BE USED EXCLUSIVELY FOR
THE ACQUISITION OF REGULATORY PERMITS.

04/11/2013

NO. DATE

REVISION

OVERALL PROJECT PLAN VIEW

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
FALGOUT CANAL ROAD LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA

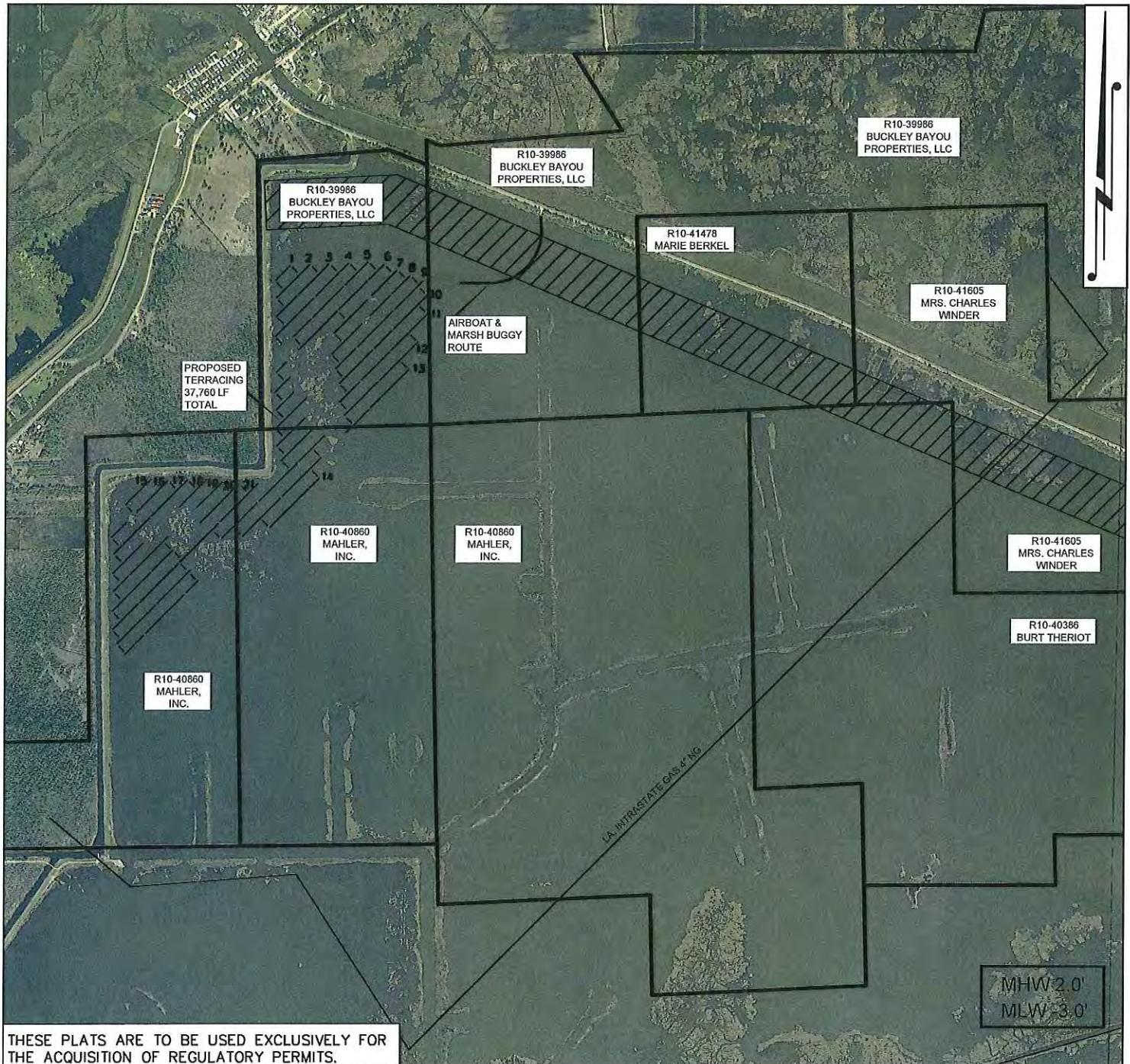


T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

SCALE IN FEET
 2,000' 1,000' 0 2,000'

FILE:

| SHEET | 2 | OF | 7 |
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| DRAWN BY: | JMC | | |
| APPROVED BY: | MJM | | |
| SCALE: | 1" | = | 2,000' |
| DATE: | 04/11/2013 | | |
| JOB NUMBER: | 2009.0233 | | |



THESE PLATS ARE TO BE USED EXCLUSIVELY FOR
THE ACQUISITION OF REGULATORY PERMITS.

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AERIAL PLAN VIEW

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
FALGOUT CANAL ROAD LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA



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SCALE IN FEET

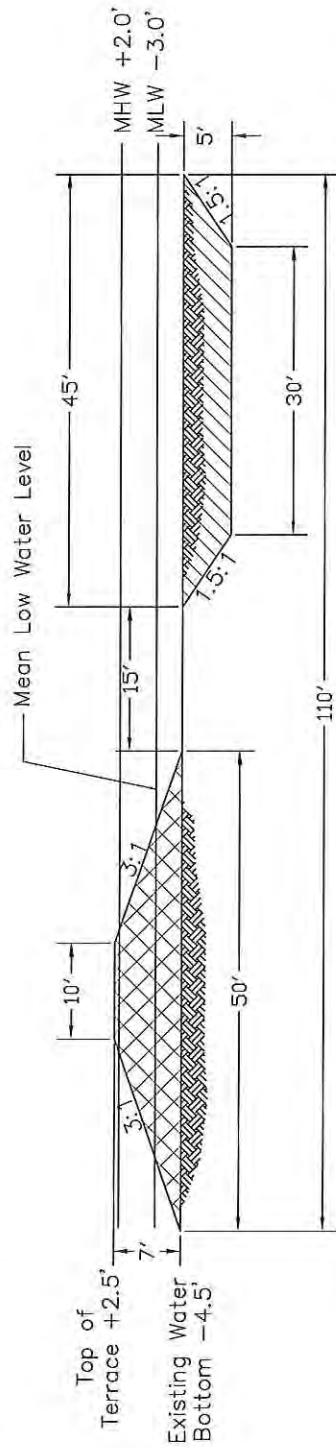
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| DATE: | 04/11/2013 | | |
| JOB NUMBER: | 2009.0233 | | |

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| | PROPOSED EXCAVATION |
| | PROPOSED FILL |
| | PROPOSED EXCAVATION |
| | PROPOSED FILL |

TYPICAL L SHAPED TERRACING PLAN VIEW
N.T.S.



THESE PLATS ARE TO BE USED EXCLUSIVELY FOR
THE ACQUISITION OF REGULATORY PERMITS.

| NO. | DATE |
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NOTE: AFTER SETTLEMENT +2.5'

Buggy Width = ±20 FEET

SECTION VIEW

TERREBONNE LEVEE & CONSERVATION DISTRICT

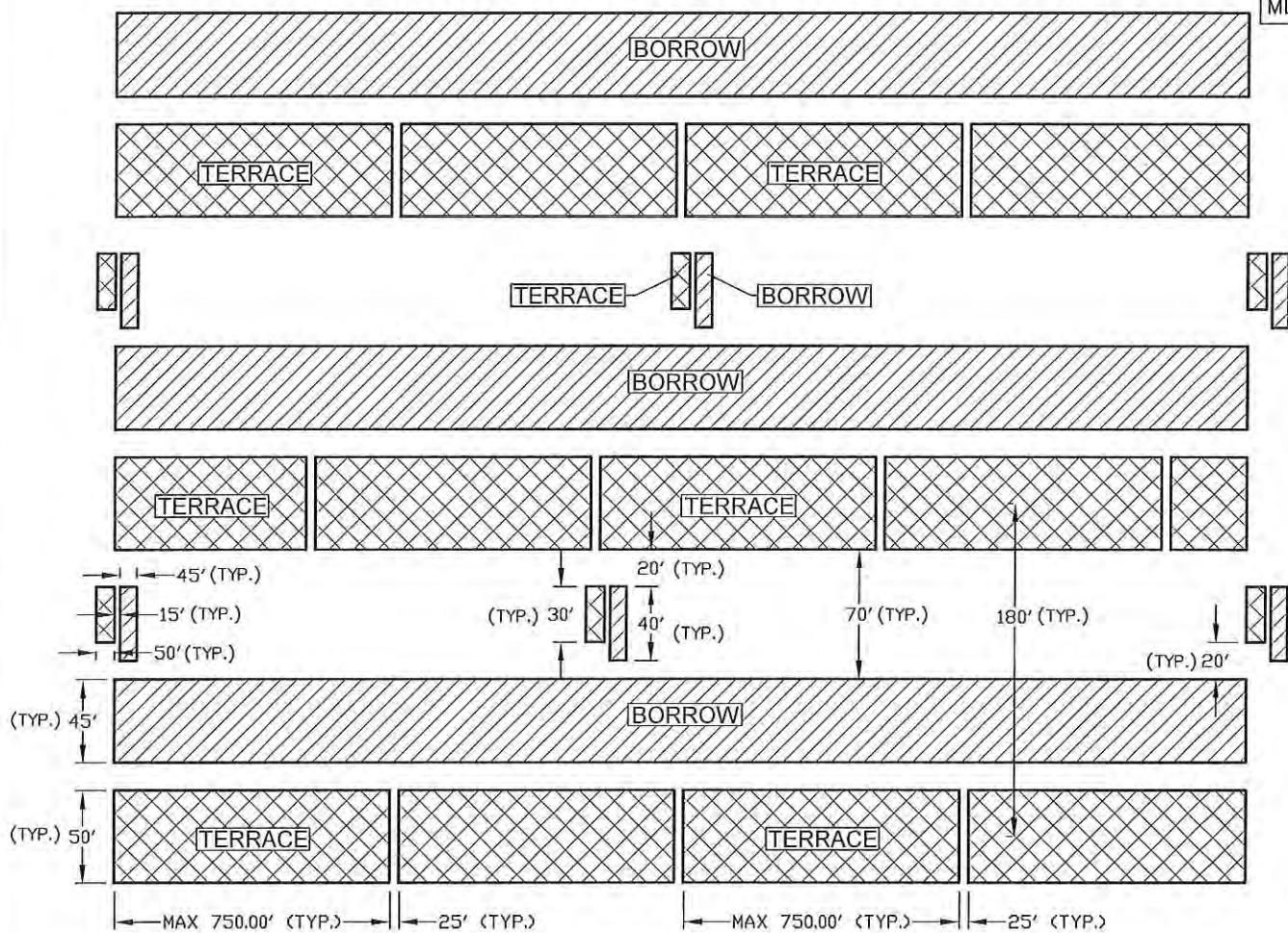
MITIGATION PROJECT FOR THE
REACH J-3 LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 28 AND 29, T19S-R19E
TERREBONNE PARISH, LOUISIANA

NOTES:



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| SHEET | 4 | OF | 7 |
| DRAWN BY: | LMB | | |
| APPROVED BY: | HJT | | |
| SCALE: | NOT TO SCALE | | |
| DATE: | 10/16/2010 | | |
| JOB NUMBER: | 2009-0233 | | |
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MHW 2.0'
MLW -3.0'



TYPICAL TERRACING PLAN VIEW

PROPOSED EXCAVATION

PROPOSED FILL

HORIZONTAL SCALE: 1" = 500'

 VERTICAL SCALE: 1" = 100'

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| NO. | DATE | REVISION |
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PROFILE VIEW

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
FALGOUT CANAL ROAD LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA



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| SHEET | 5 | OF | 7 |
| DRAWN BY: | TJN | | |
| APPROVED BY: | MJM | | |
| SCALE: | AS SHOWN | | |
| DATE: | 04/11/2013 | | |
| JOB NUMBER: | 2009.0233 | | |

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NOTES:

1. As-built drawings will be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Office of Conservation, Pipeline Division, P. O. Box 94275 Baton Rouge, LA 70804, and to the Louisiana Department of Natural Resources, Coastal Management Division, P. O. Box 44487, Baton Rouge, LA 70804-4487.
2. Structures must also be marked/lighted in accordance with U. S. Coast Guard regulations.
3. In order to ensure the safety of all parties, the permittee shall contact the Louisiana One Call System (1-800-272-3020) a minimum of 48 hours prior to the commencement of any excavation (digging, dredging, jetting, etc.) or demolition activity.
4. Create terraces over 39.0 acres which will be planted with plugs, single springs, and/or trade gallon containers of smooth cordgrass (*Spartina alterniflora*) or other acceptable vegetation. Planting rows will be located on the mean high water and mean water lines of the terraces.
5. Airboats and marshbuggies will only be used in open water.
6. The USACE Permit Number is MVN 2011-01090-WPP and the DNR Permit Number is P20110522.
7. Proposal to construct 37,760 linear feet of terraces (in varying lengths) in order to mitigate for the unavoidable impacts to 24± acres consisting of brackish marsh habitat caused by the construction of the Falgout Canal Road Levee project. Approximately 361,500± cubic yards of material will be excavated and deposited for the construction of terraces.

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THE ACQUISITION OF REGULATORY PERMITS.

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| NO. | DATE | REVISION |
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NOTES

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
FALGOUT CANAL ROAD LEVEE PROJECT FOR THE
TERREBONNE LEVEE AND CONSERVATION DISTRICT
IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA



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| SHEET | 6 | OF | 7 |
| DRAWN BY: | JMC | | |
| APPROVED BY: | MJM | | |
| SCALE: | | | |
| DATE: | 04/11/2013 | | |
| JOB NUMBER: | 2009.0233 | | |

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TERRACING LENGTHS:

1. 30', 300', 30'
2. 30', 650', 30'
3. 30', 400', 600', 30'
4. 30', 750', 650', 30'
5. 30', 350', 600', 450', 30'
- *6. 30', 200', 750', 30', 550', 300', 30'
- *7. 30', 300', 30', 650', 500', 30'
- *8. 30', 350', 30', 600', 400', 350', 30'
- *9. 30', 600', 30', 400', 700', 550', 30'
- *10. 30', 550', 30', 650', 350', 650', 30'
- *11. 30', 650', 30', 400', 550', 700'
- *12. 30', 750', 650', 30', 30', 700', 750', 500', 650', 750', 30'
- *13. 30', 380', 750', 250', 30', 30', 750', 750', 30', 30', 450', 750', 30'
14. 30', 750', 190', 30'
15. 30', 500', 30'
- *16. 30', 300', 600', 30'
17. 30', 700', 700', 30'
- *18. 30', 600', 550', 30' TOTAL = 37,760'
- *19. 30', 300', 750', 30', 500', 30'
- *20. 30', 750', 400', 30', 750', 30'
21. 500', 750', 750', 750' NOTE:

THESE PLATS ARE TO BE USED EXCLUSIVELY FOR
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* Marsh area between terracing

| NO. | DATE | REVISION |
|-----|------------|----------|
| | 04/11/2013 | |

NOTES

TERREBONNE LEVEE & CONSERVATION DISTRICT

MITIGATION PROJECT FOR THE CONSTRUCTION OF
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IN SECTIONS 24 & 25 T19S-R16E; 72 & 76 T19S-R17E
TERREBONNE PARISH, LOUISIANA



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FILE:

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| SHEET | 7 | OF | 7 |
| DRAWN BY: | JMC | | |
| APPROVED BY: | MJM | | |
| SCALE: | NTS | | |
| DATE: | 04/11/2013 | | |
| JOB NUMBER: | 2009.0233 | | |