



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, GALVESTON DISTRICT
P. O. BOX 1229
GALVESTON, TEXAS 77553-1229

June 30, 2021

Evaluation Branch

SUBJECT: Permit No. SWG-2021-00250; Nationwide Permit Verification

Texas Parks and Wildlife Department
Attn: Christine Jensen
1502 FM 517 E.
Dickinson, Texas 77539

Dear Mrs. Jensen:

This is in reference to your request, dated April 14, 2021, submitted on your behalf by Freese and Nichols, Inc., to discharge fill composed of limestone, river rock, clean crushed concrete, recycled oyster shell in the following quantities to create three intertidal oyster reefs along the north shore of East Galveston Bay: approximately 2,075-cubic yards of fill into approximately 1.91-acres of open water (west reef); approximately 3,853-cubic yards into 2.38-acres of open water (middle reef); and approximately 2,748-cubic yards into 1.70-acres of open water (east reef). The project site is located in East Galveston Bay, in Galveston County, Texas.

This request is verified by Nationwide Permit (NWP) 27 pursuant to Section 404 of the Clean Water Act. This NWP verification is valid provided the activity is compliant with the enclosed plans, in 21 sheets. In addition, the activity must be in compliance with the NWP General/Regional Conditions, Section 401 Water Quality Certification, and the Coastal Management Program, which can be found at: <http://www.swg.usace.army.mil/Business-With-Us/Regulatory/Permits/Nationwide-General-Permits/>, a hard copy can be provided to you upon request.

NWP 27. Aquatic Habitat Restoration, Enhancement, and Establishment Activities: Activities in waters of the United States associated with the restoration, enhancement, and establishment of tidal and non-tidal wetlands and riparian areas.

The NWP verification is valid until the NWP is modified, reissued, or revoked. The subject NWPs authorized in 2017 are scheduled to be modified, reissued, or revoked prior to March 18, 2022. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

This verification does not address nor include any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such. If you have any question regarding this verification, please contact Cecilia Askins at the letterhead address or by telephone at 409-766-3856. Please notify the Chief of the Compliance Branch in the Galveston District Regulatory Division in writing at the letterhead address, upon completion of the authorized project.

FOR THE DISTRICT COMMANDER:



Andria Davis
Leader, North Evaluation Unit

cc w/Encl.
Freese and Nichols, Inc.

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Coast & Geodetic Survey, Silver Spring, MD

Texas Commission on Environmental Quality

Texas General Land Office





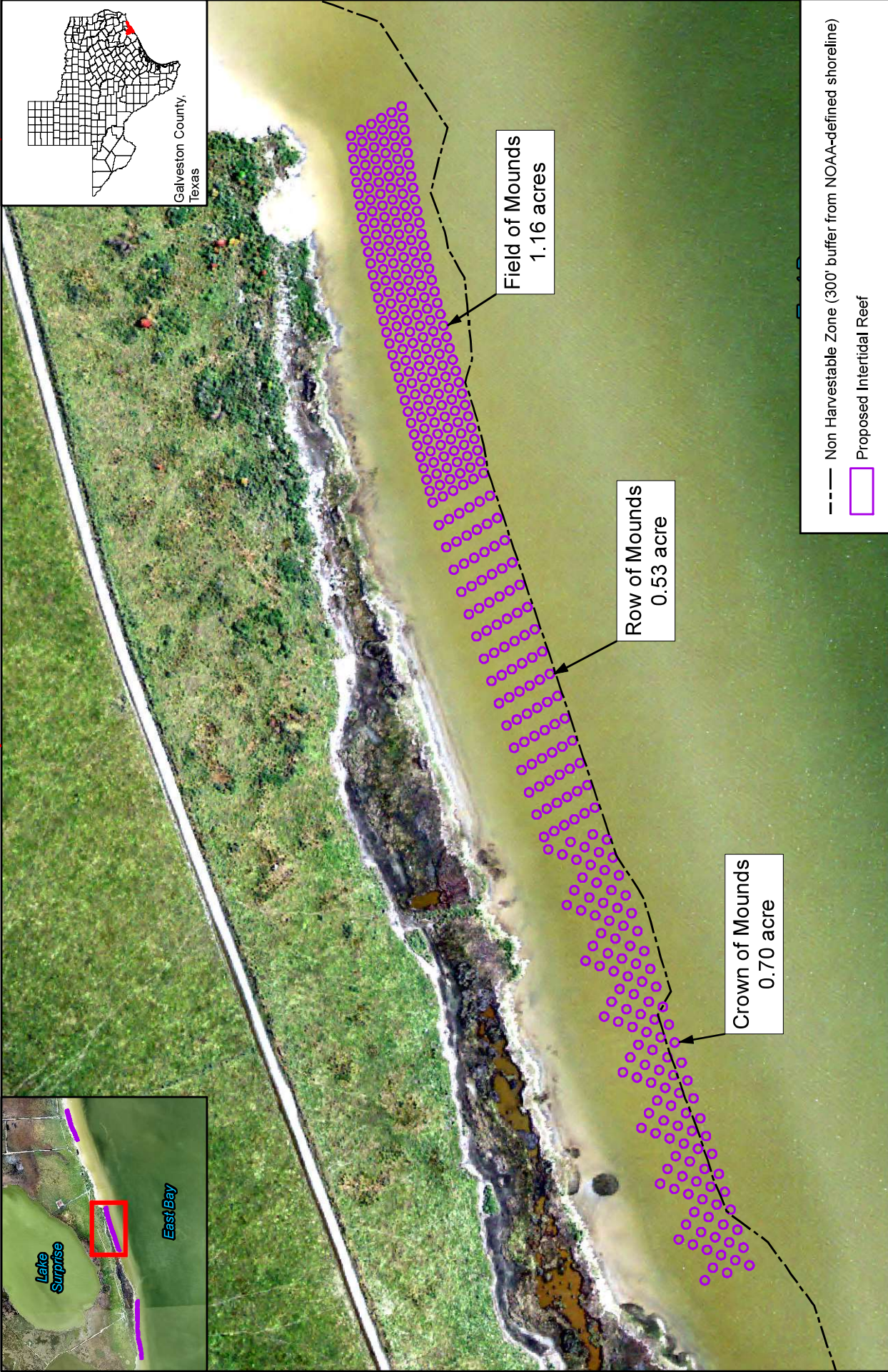


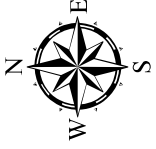
Legend:

- Non Harvestable Zone (300' buffer from NOAA-defined shoreline)
- Proposed Intertidal Reef

 Freese and Nichols, Inc. 10431 Morado Circle Suite 300 Austin, Texas 78759 Phone: 512-617-3100 Fax: 512-617-3101	Texas Parks and Wildlife Department			<table border="1"><tr><td>PROJECT NO.</td><td>TGL 19388</td></tr><tr><td>FILE NAME</td><td>3_Mapbook_Intertidal.mxd</td></tr><tr><td>DATE</td><td>12/17/2020</td></tr><tr><td>SCALE</td><td>1:4,250</td></tr><tr><td>DESIGNED</td><td>02588</td></tr></table>	PROJECT NO.	TGL 19388	FILE NAME	3_Mapbook_Intertidal.mxd	DATE	12/17/2020	SCALE	1:4,250	DESIGNED	02588
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FILE NAME	3_Mapbook_Intertidal.mxd													
DATE	12/17/2020													
SCALE	1:4,250													
DESIGNED	02588													
Intertidal Oyster Reef West Reef														

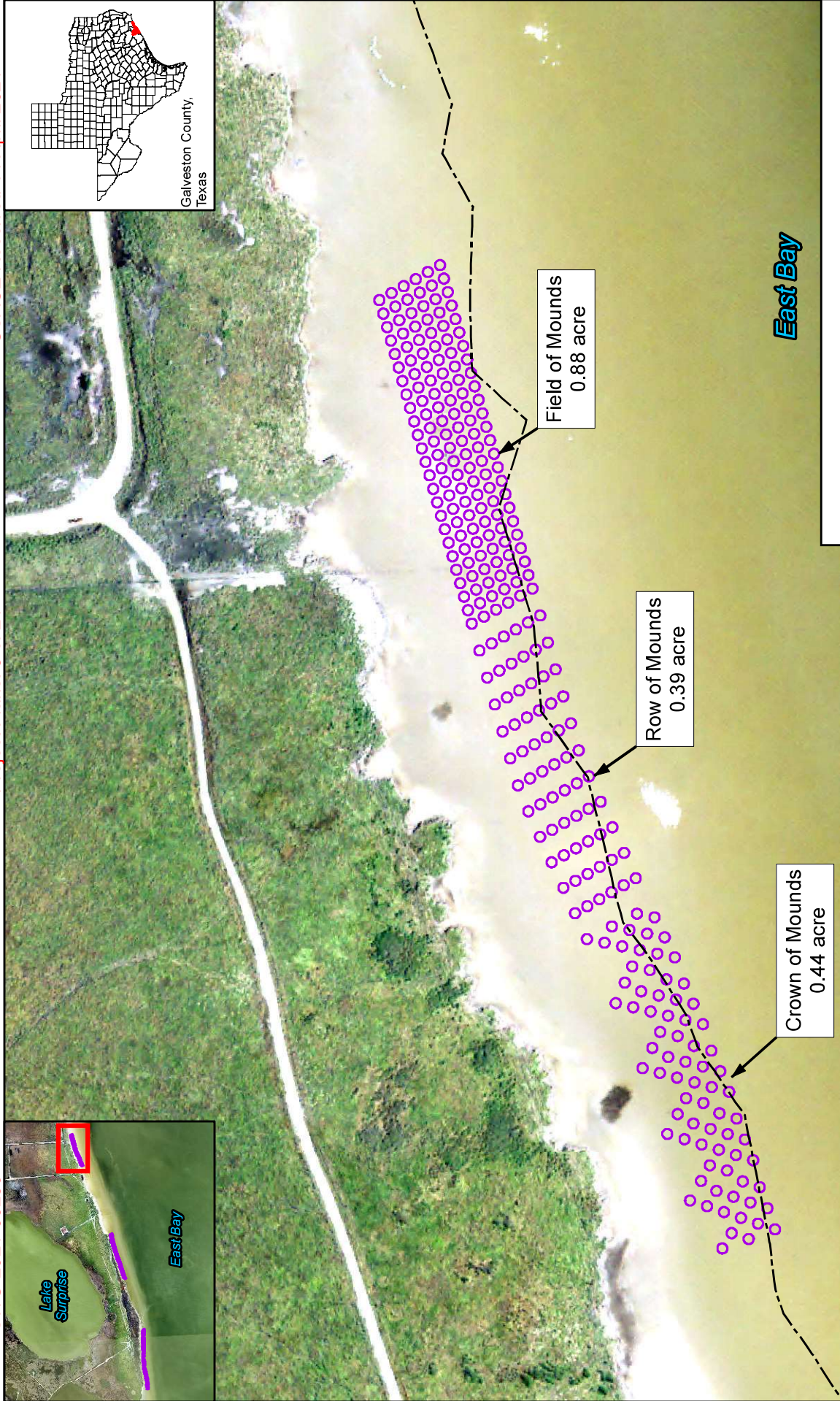
Figure 3



 FREES & NICHOLS Freese and Nichols, Inc. 10431 Morado Circle Suite 300 Austin, Texas 78759 Phone: 512-617-3100 Fax: 512-617-3101	Texas Parks and Wildlife Department		 N E S W	<table border="1"><tr><td>PROJECT NO.</td><td>TGL 19388</td></tr><tr><td>FILE NAME</td><td>3_Mapbook_Intertidal.mxd</td></tr><tr><td>DATE</td><td>12/17/2020</td></tr><tr><td>SCALE</td><td>1:3,500</td></tr><tr><td>DESIGNED</td><td>02588</td></tr></table>	PROJECT NO.	TGL 19388	FILE NAME	3_Mapbook_Intertidal.mxd	DATE	12/17/2020	SCALE	1:3,500	DESIGNED	02588
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SCALE	1:3,500													
DESIGNED	02588													
Intertidal Oyster Reef Middle Reef		Figure 4												

0 135 270 Feet
1:3,500

Coordinate System: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FUS
Document Path: H:\ENVIRONMENTAL\Projects\Intertidal\Mapbook_Intertidal.mxd



 Freese and Nichols, Inc. 10431 Morado Circle Suite 300 Austin, Texas 78759 Phone: 512-617-3100 Fax: 512-617-3101	Texas Parks and Wildlife Department		 Figure 5										
	Intertidal Oyster Reef East Reef												
 1:3,000		<table border="1"><tr><td>PROJECT NO.</td><td>TGL 19388</td></tr><tr><td>FILE NAME</td><td>3_Mapbook_Intertidal.mxd</td></tr><tr><td>DATE</td><td>12/17/2020</td></tr><tr><td>SCALE</td><td>1:3,000</td></tr><tr><td>DESIGNED</td><td>02588</td></tr></table>		PROJECT NO.	TGL 19388	FILE NAME	3_Mapbook_Intertidal.mxd	DATE	12/17/2020	SCALE	1:3,000	DESIGNED	02588
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Coordinate System: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FUS
Document Path: H:\ENVIRONMENTAL\Plan_Nichols\Intertidal\Mapbook_Intertidal.mxd

SWG-2021-00250

Project Plans: 6 of 21

USACE Received 14 April 2021

Texas Parks and Wildlife Department

OYSTER REEF RESTORATION FEASIBILITY

TGL19385



0 1000' 2000'
SCALE IN FEET

DRAFT

THIS DOCUMENT IS RELEASED FOR THE
PURPOSE OF INTERIM REVIEW UNDER THE
AUTHORITY OF: NICHOLAS KIRK P.E.
TEXAS NO: 135937 ON DATE: 11/16/2020
IT IS NOT TO BE USED FOR CONSTRUCTION,
BIDDING OR PERMIT PURPOSES.

30% DESIGN

1

SHEET

FRESE
NICHOLS
10497 Town and Country Way,
Suite 500
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freese.com

TEXAS GENERAL LAND OFFICE
OYSTER RESTORATION FEASIBILITY
PLAN VIEW
(OVERALL)

FILE	CT-ALL-3D-INT.dwg
DRAWN	NJK
DESIGNED	NJK
SCALE	1" = 1000'
DATE	11/16/2020
TGL JOB NO.	TGL19385

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

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DRAFTED	NJK
DESIGNED	NJK
SCALE	1" = 250'
DATE	11/16/2020
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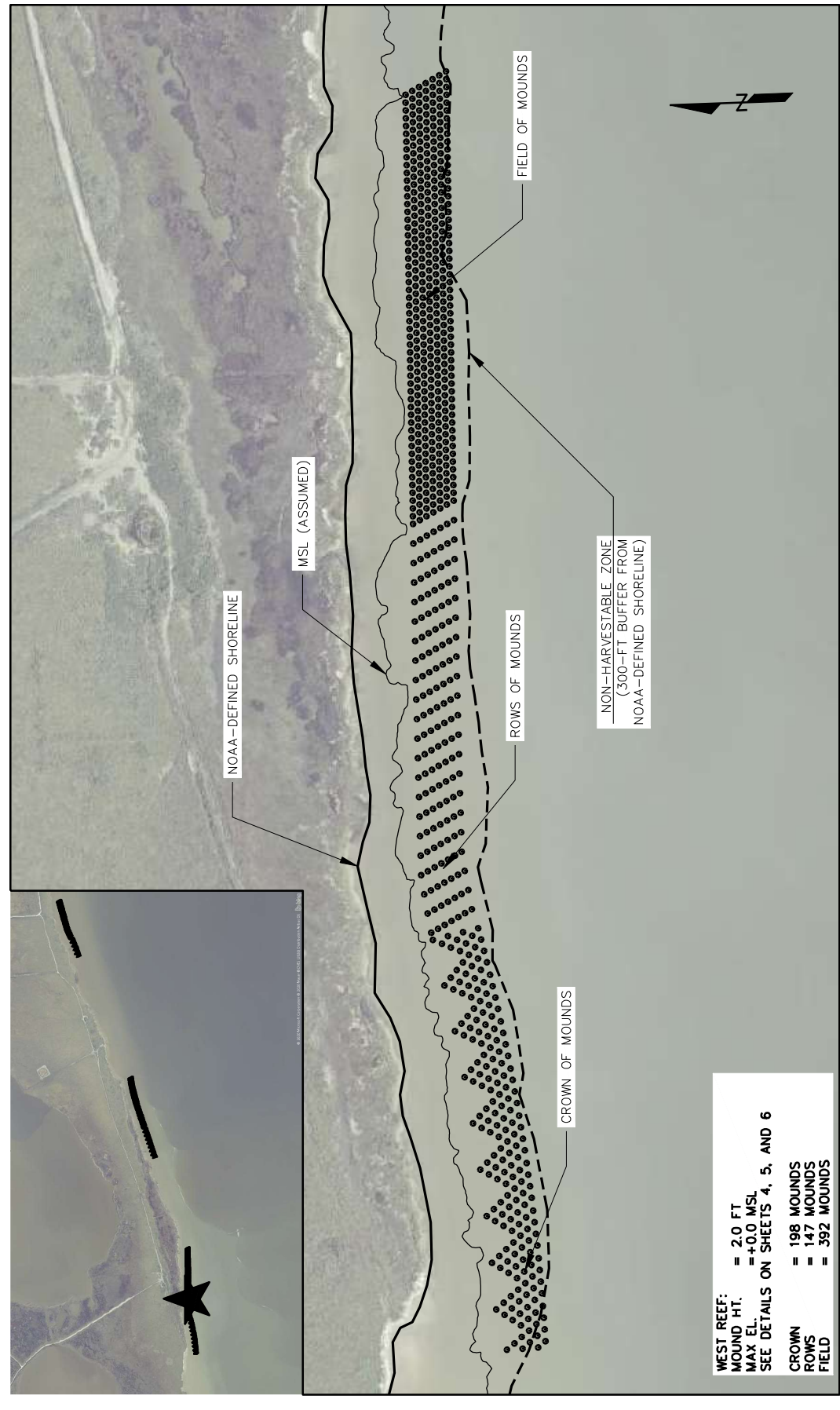
PLAN VIEW
OYSTER RESTORATION FEASIBILITY
(WEST REEF)

Freese and Nichols
10497 Town and Country Way,
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freese.com

3
SHEET

USACE Received 14 April 2021

Project Plans: 7 of 21



WEST REEF:
MOUND HT. = 2.0 FT
MAX EL. = +0.0 MSL
SEE DETAILS ON SHEETS 4, 5, AND 6
CROWN = 198 MOUNDS
ROWS = 147 MOUNDS
FIELD = 392 MOUNDS

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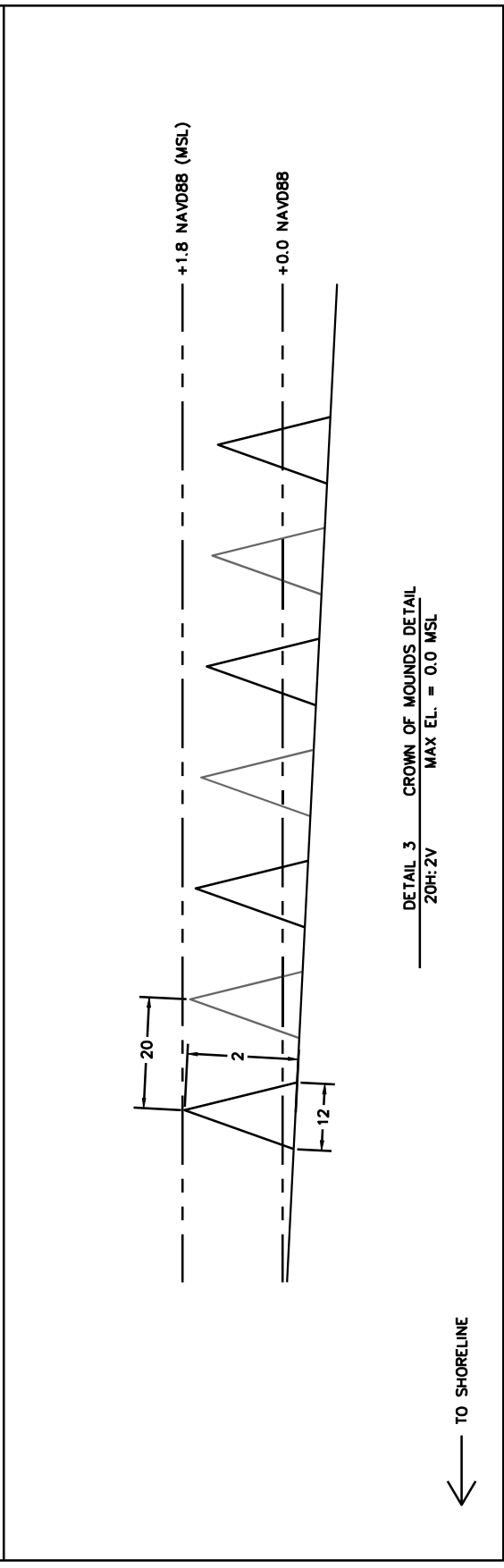
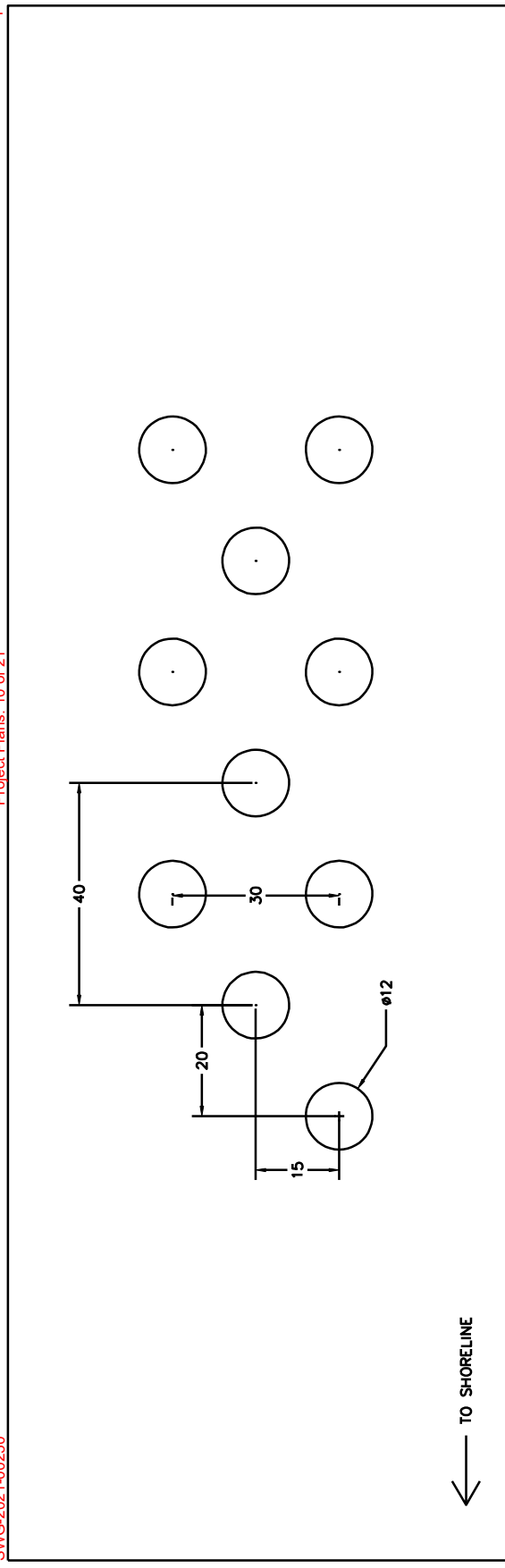
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DESIGNED	NJK
SCALE	1" = 20'
DATE	11/16/2020
TGL JOB NO.	TGL19385

TEXAS GENERAL LAND OFFICE
OYSTER RESTORATION FEASIBILITY
CROWN OF MOUNDS DETAIL
(WEST REEF)

F
FRESE
NICHOLS

10497 Town and Country Way,
Suite 500
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freese.com



DETAIL 3 CROWN OF MOUNDS DETAIL
20H:2V MAX EL. = 0.0 MSL

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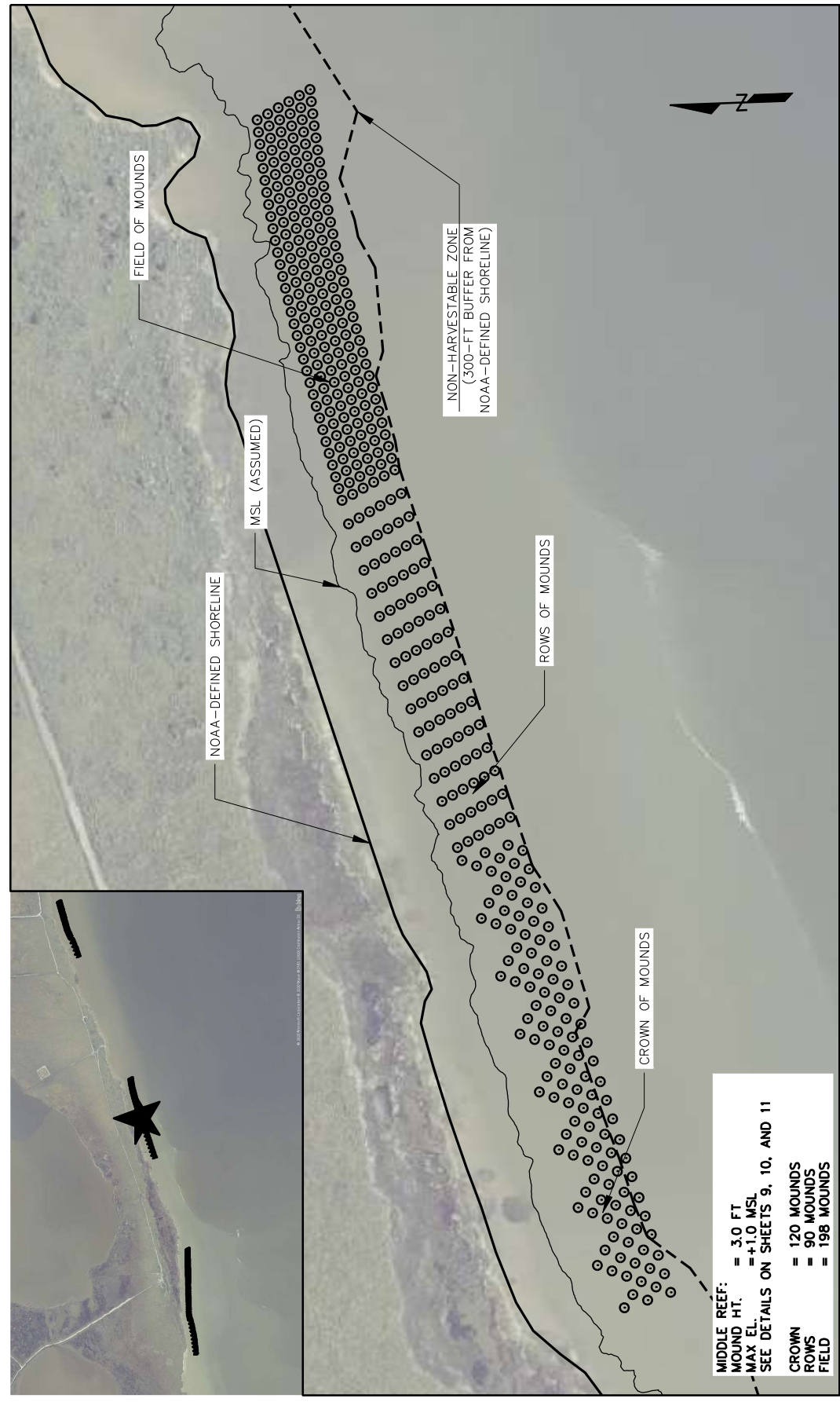
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DESIGNED	NJK
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DATE	11/16/2020
TGL JOB NO.	TGL19385

PLAN VIEW
OYSTER RESTORATION FEASIBILITY
(MIDDLE REEF)
TEXAS GENERAL LAND OFFICE



Freese and Nichols
10497 Town and Country Way,
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freese.com

Sheet 500
10497 Town and Country Way,
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freese.com



MIDDLE REEF:	= 3.0 FT
MOUND HT.	= +1.0 MSL
MAX EL.	SEE DETAILS ON SHEETS 9, 10, AND 11
CROWN	= 120 MOUNDS
ROWS	= 90 MOUNDS
FIELD	= 198 MOUNDS

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DESIGNED	NJK
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DATE	11/16/2020
TGL19385	

PLAN VIEW

OYSTER RESTORATION FEASIBILITY

TEXAS GENERAL LAND OFFICE

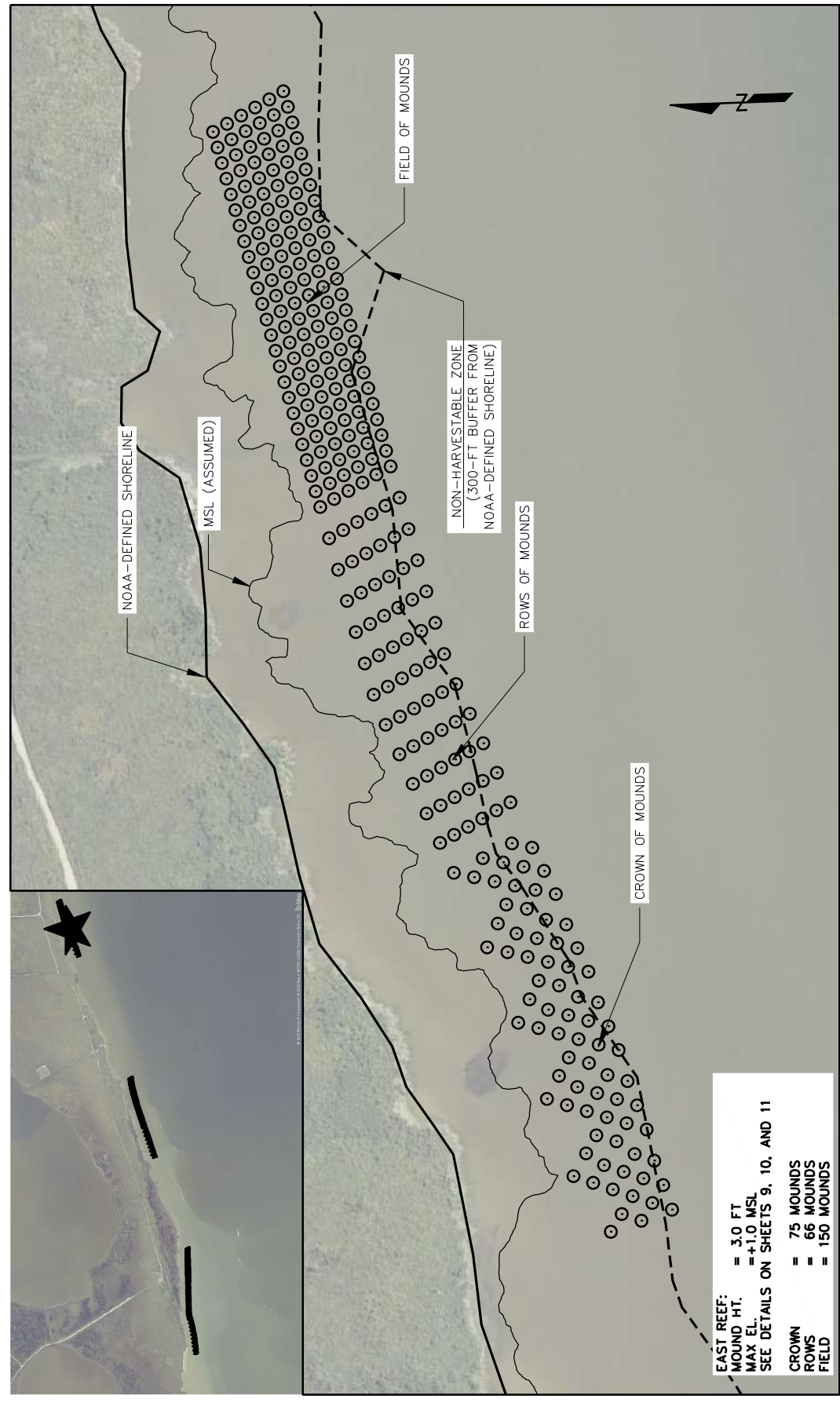
(EAST REEF)

FREESE

NICHOLS

10497 Town and Country Way,
Houston, Texas 77024
Phone: (713) 600-6800
Web: www.freezenichols.com

Sheet 500
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Houston, Texas 77024
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FILE	CT-ALL-3D-INT.dwg
DRAWN	NJK
DESIGNED	NJK
SCALE	1" = 20'
DATE	11/16/2020
TGL	19385

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

FIELD OF MOUNDS DETAIL
(MIDDLE/EAST REEF)
OYSTER RESTORATION FEASIBILITY

TEXAS GENERAL LAND OFFICE

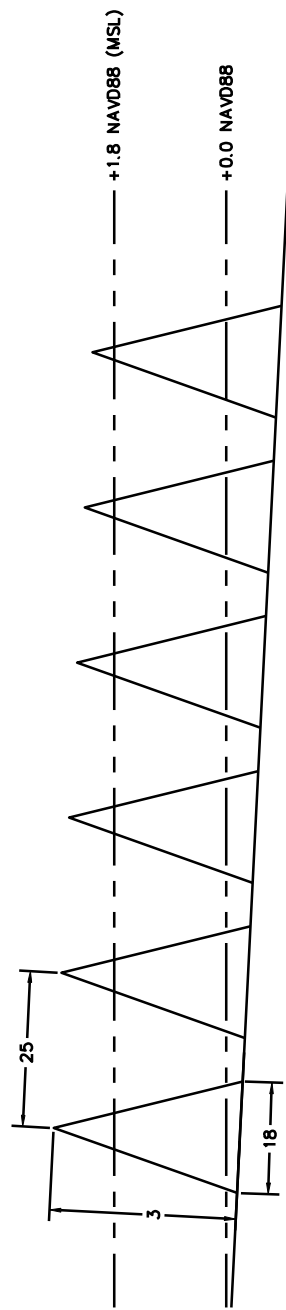
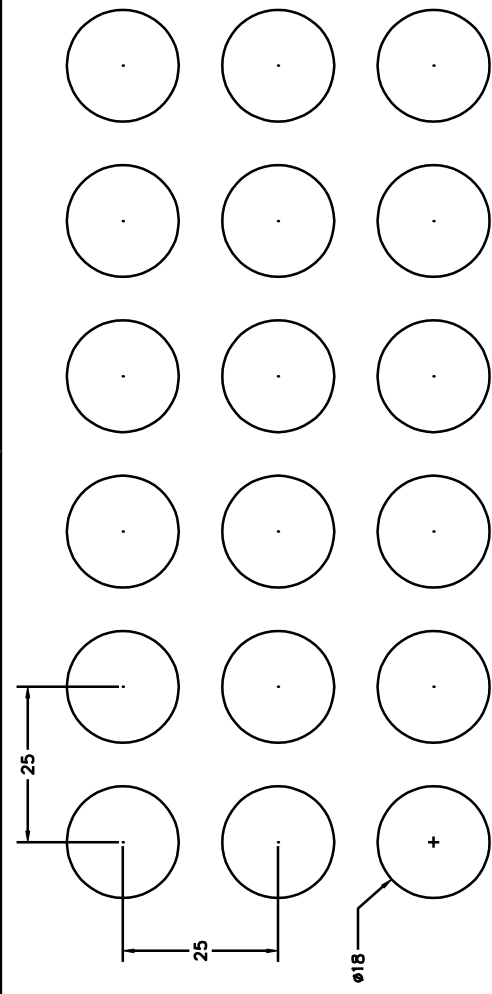
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DETAIL 4 FIELD OF MOUNDS DETAIL
20H:2V MAX EL. = 1.0 MSL

FILE: CT-ALL-3D-INT.dwg

DATE: 11/16/2020

SCALE: 1" = 20'

DRAWN: NJK

DESIGNED: NJK

DRAFTED: NJK

FIELD OF MOUNDS DETAIL
(MIDDLE/EAST REEF)

OYSTER RESTORATION FEASIBILITY

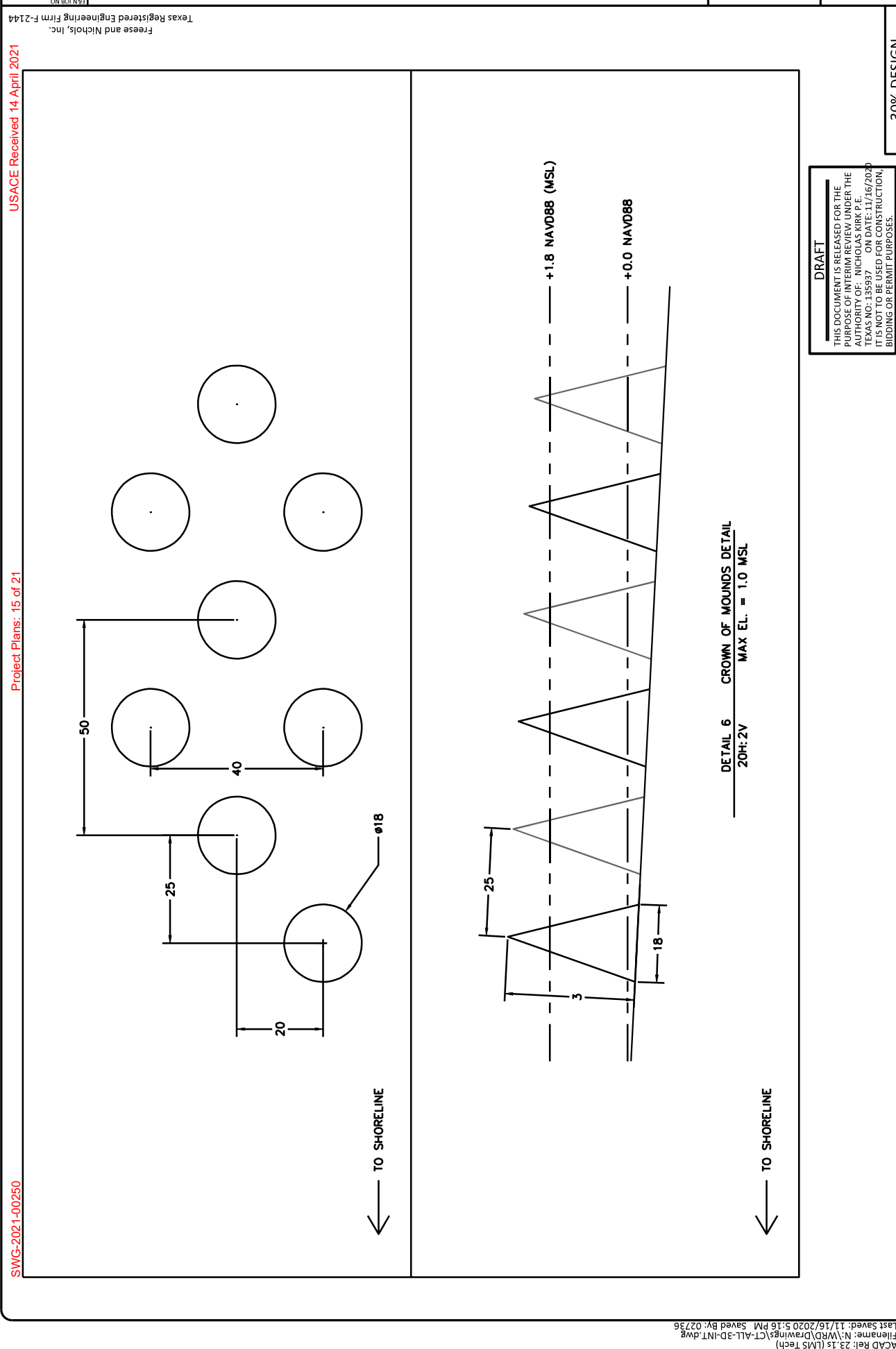
TEXAS GENERAL LAND OFFICE

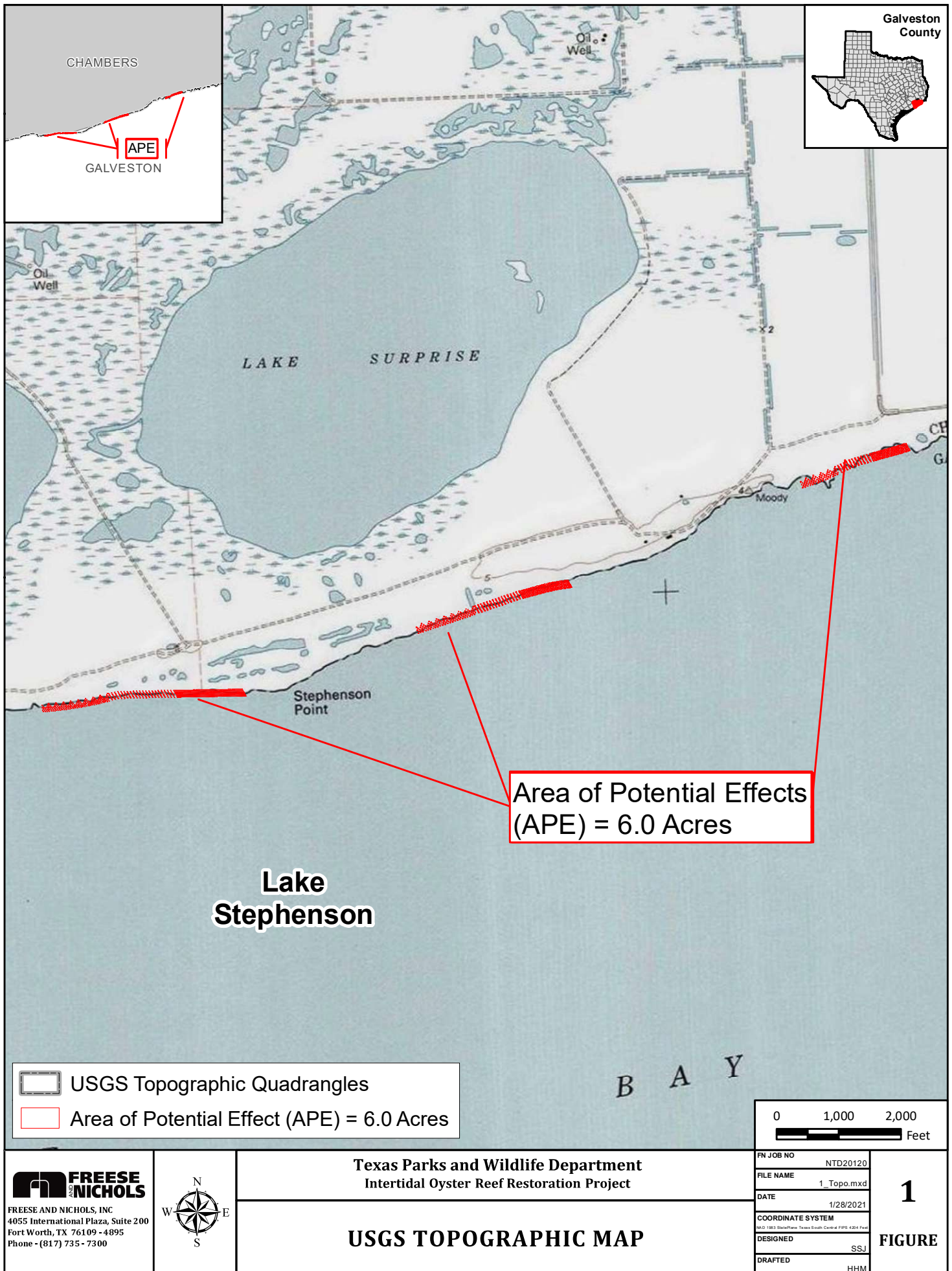
10497 Town and Country Way,
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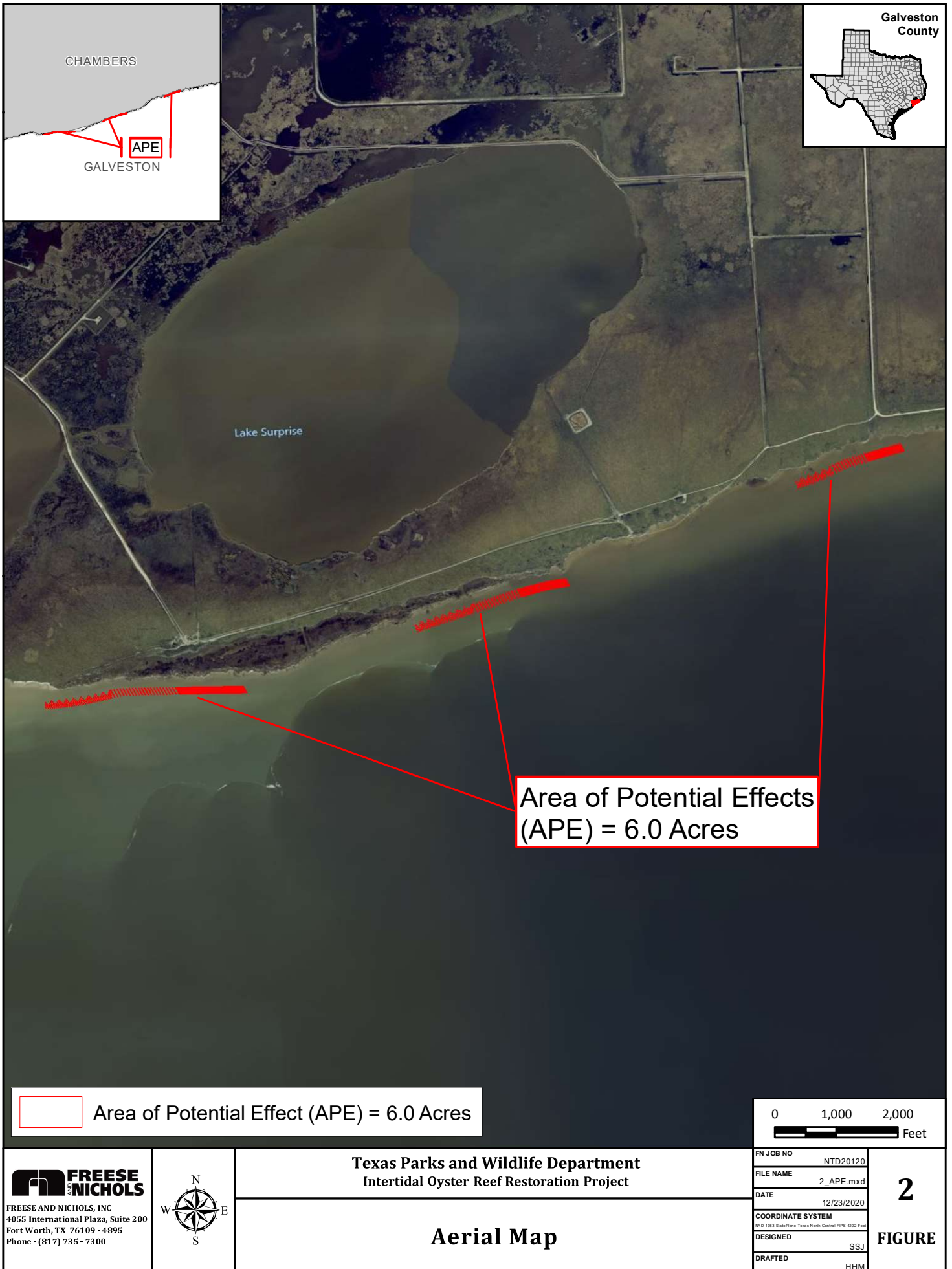
FRESE & NICHOLS

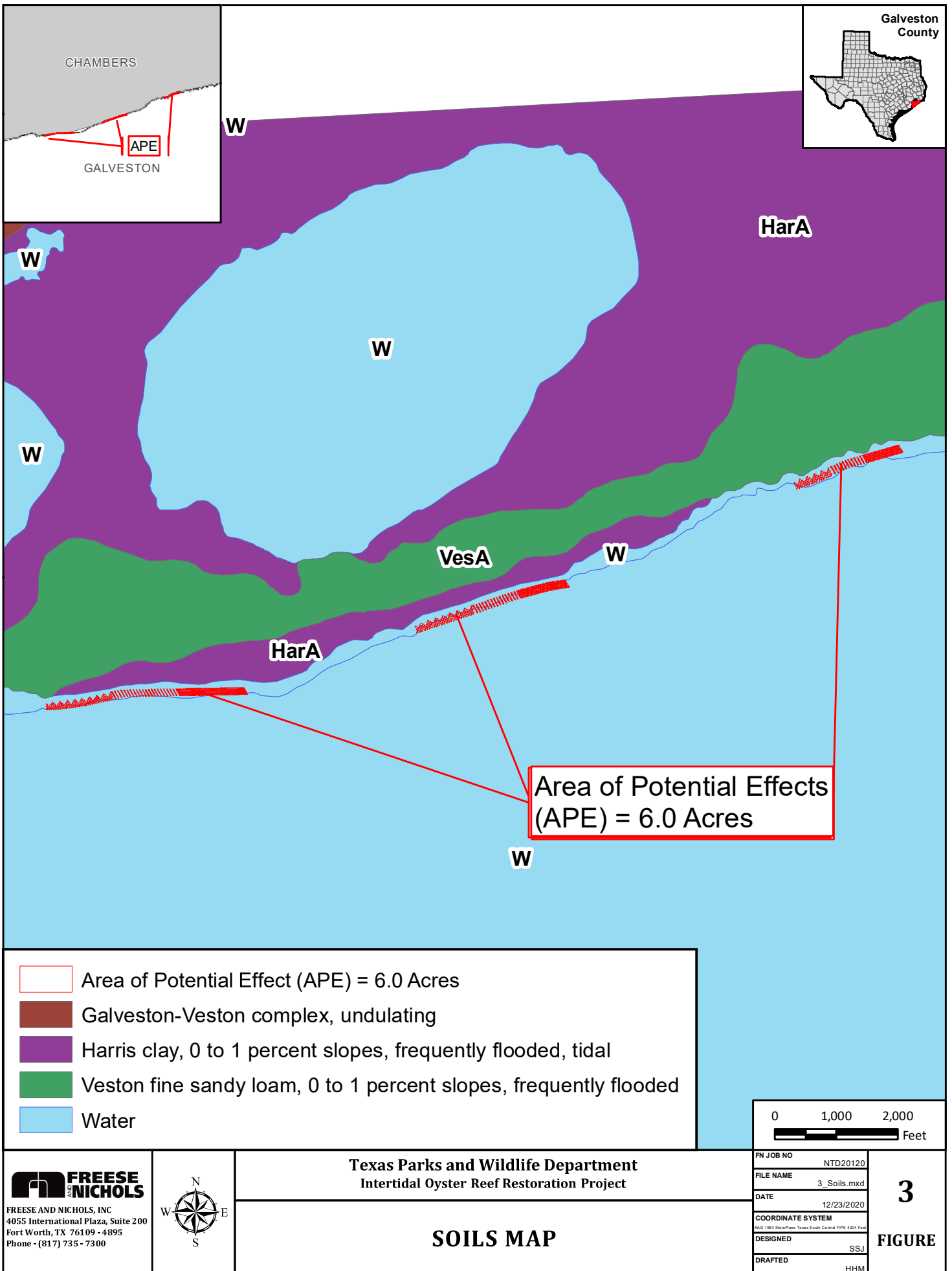
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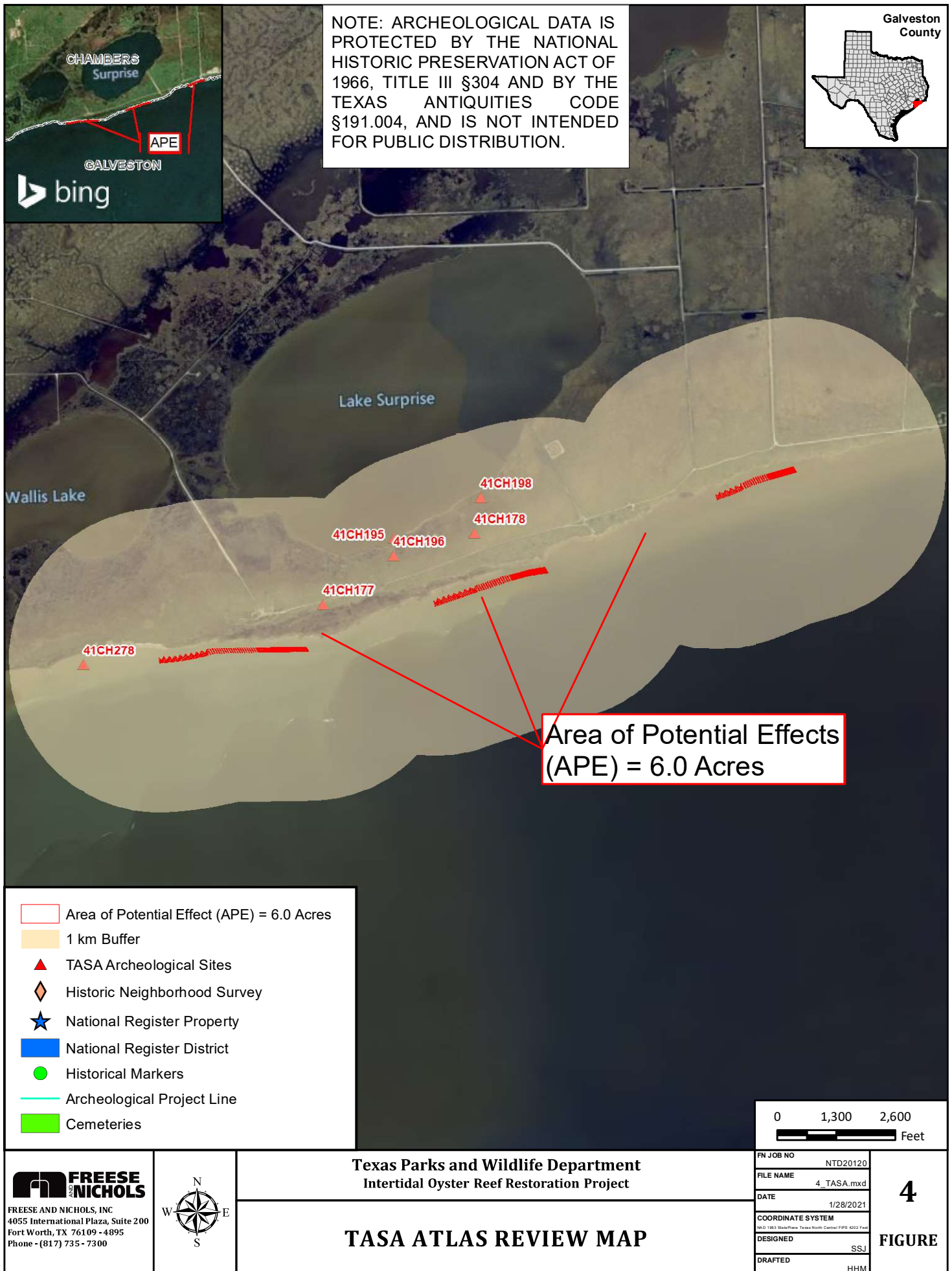
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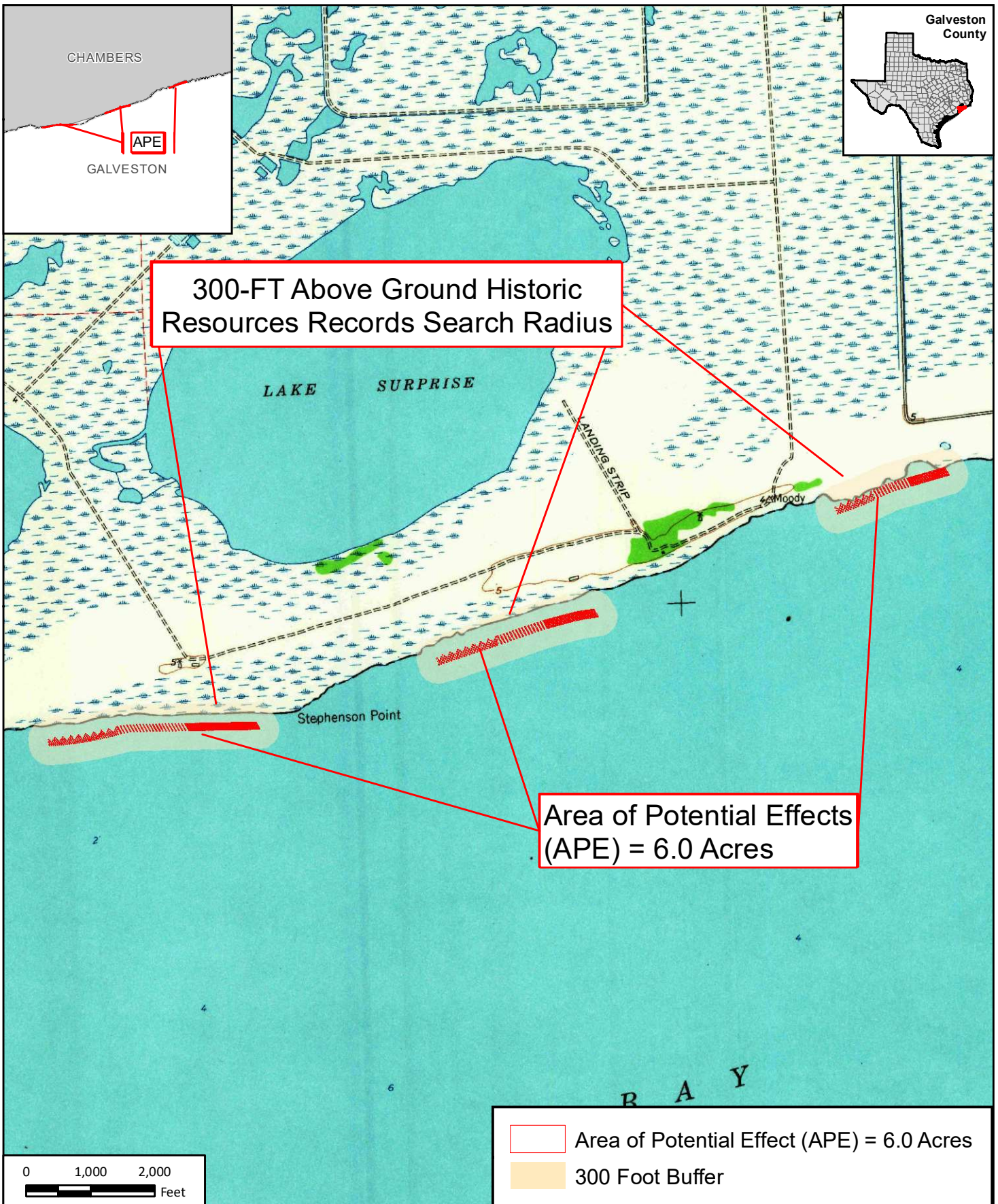












FREESSE AND NICHOLS
 FREESSE AND NICHOLS, INC
 4055 International Plaza, Suite 200
 Fort Worth, TX 76109 - 4895
 Phone - (817) 735 - 7300



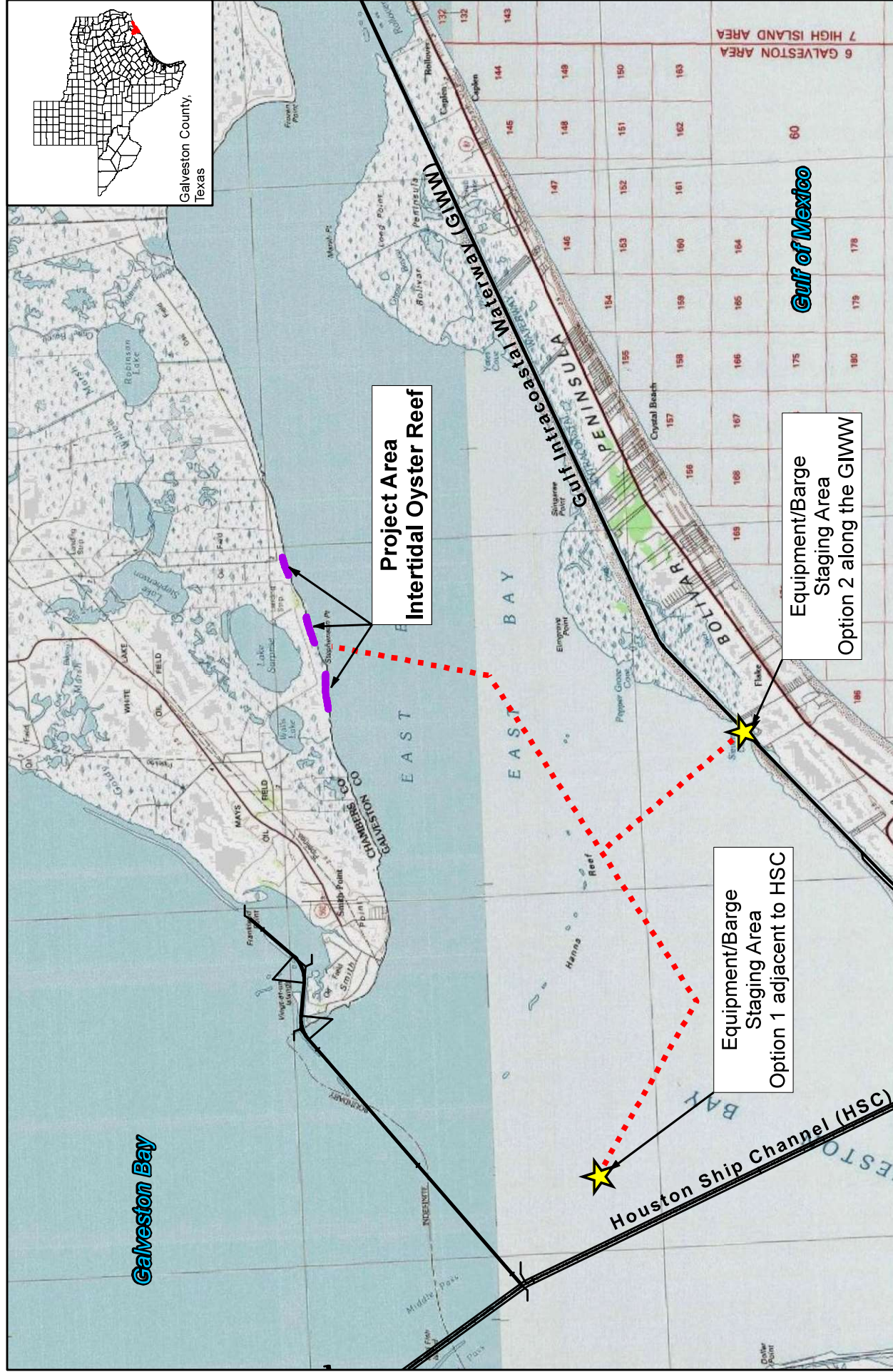
TEXAS GENERAL LAND OFFICE
 Intertidal Oyster Reef Restoration Project

Historic Map Review

FN JOB NO	NTD20120
FILE NAME	5_HIST.mxd
DATE	12/23/2020
COORDINATE SYSTEM	NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
DESIGNED	SSJ
DRAFTED	HMM

5

FIGURE



 Freese and Nichols, Inc. 10431 Morado Circle Suite 300 Austin, Texas 78759 Phone: 512-617-3100 Fax: 512-617-3101	Texas Parks and Wildlife Department		 N E S W	Figure 1
	Shallow Water Access Plan			
0 6,000 12,000 Feet 1 inch equals 2.37 miles		TGL 0308 FILE NAME DATE 1/27/2021 SCALE 1:150,000 DESIGNED 02588		