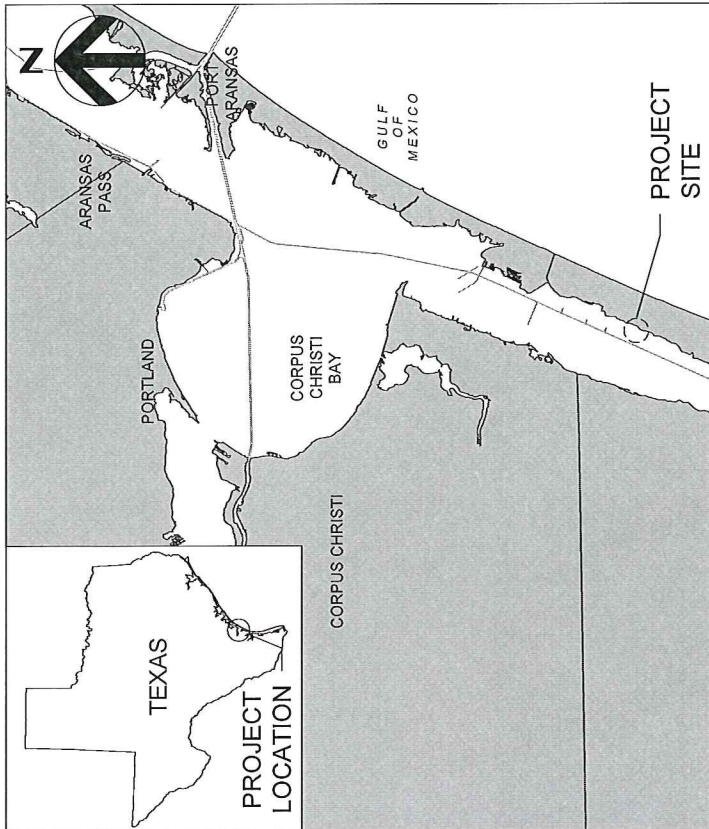
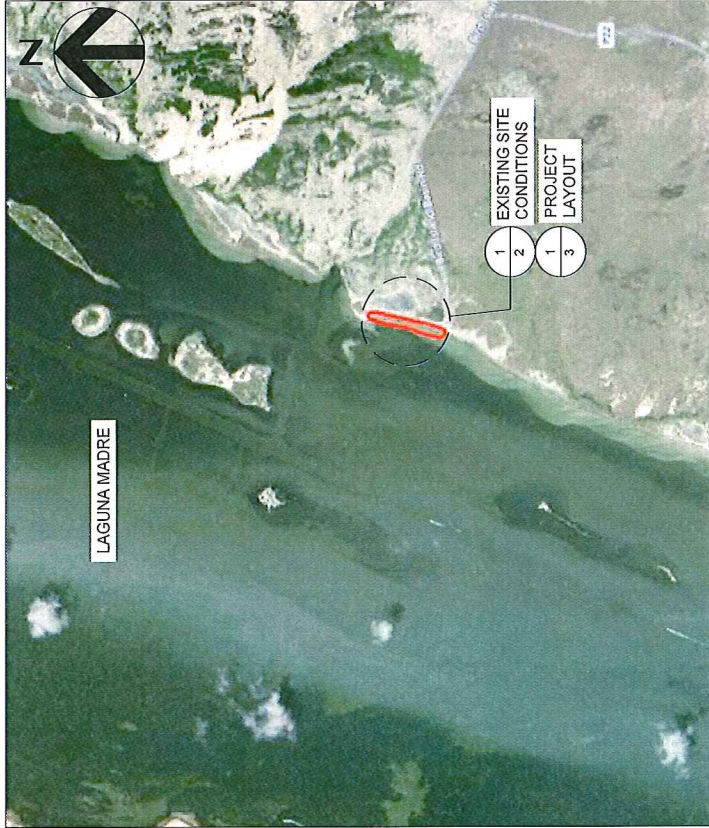




VICINITY MAP



LOCATION MAP

PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

ENGINEER: DANIEL J. HELLMAN
REGISTRATION NO.: 86936
DATE: 11-26-2018

NOTE:

1. AERIAL PHOTOGRAPH WAS OBTAINED FROM BING MAPS HYBRID.

ACTIVITY: STABILIZATION OF BIRD ISLAND BASIN SHORELINE

APPLICANT: PAIS 230430 AVE SERVICES

DATE: 11-26-2018

FOR
Texas P.E. Firm
Registration No. F-754

HDR PROJECT NO: 10131776

DATUM: N/A

REV. DATE:

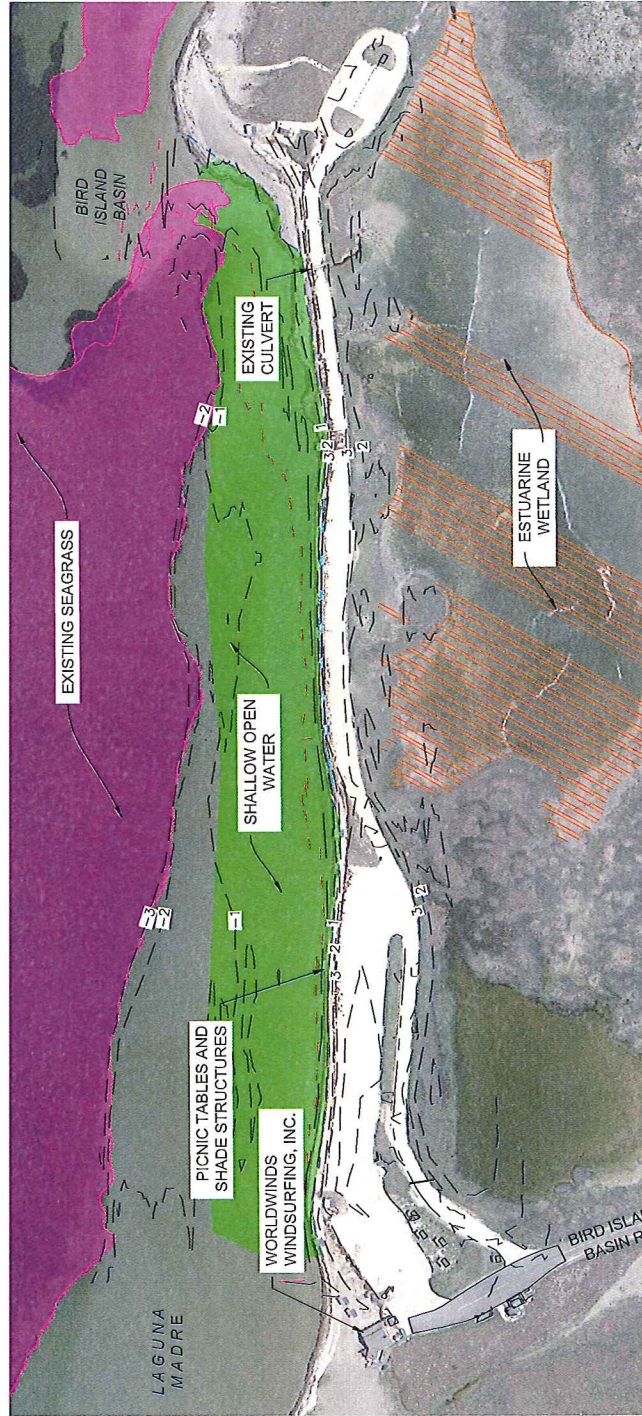
SHEET 1 OF 4

FOR COE USE ONLY

PERMIT APPLICATION NO: _____

APPLICANT NAME: _____

SHEET _____ OF _____



EXISTING SITE CONDITIONS



- LEGEND:
- PICNIC TABLE AND SHADE STRUCTURES
 - SEAGRASS (NOAA SEAGRASS) DATA
 - ESTUARINE WETLAND (USFWS NIM) DATA
 - SHALLOW OPEN WATER
 - AHT (ANNUAL HIGH TIDE LINE) (DELINEATED BY HDR)
 - MLLW (MEAN LOWER-LOW WATER)
 - EXISTING ROCK

NOTE:
1. DATUM CONVERSIONS REFERENCED FROM NOAA STATION 8775792 PACKERY CHANNEL TX. ACCEPTED STATUS DATE OCT. 11, 2017.

PRELIMINARY
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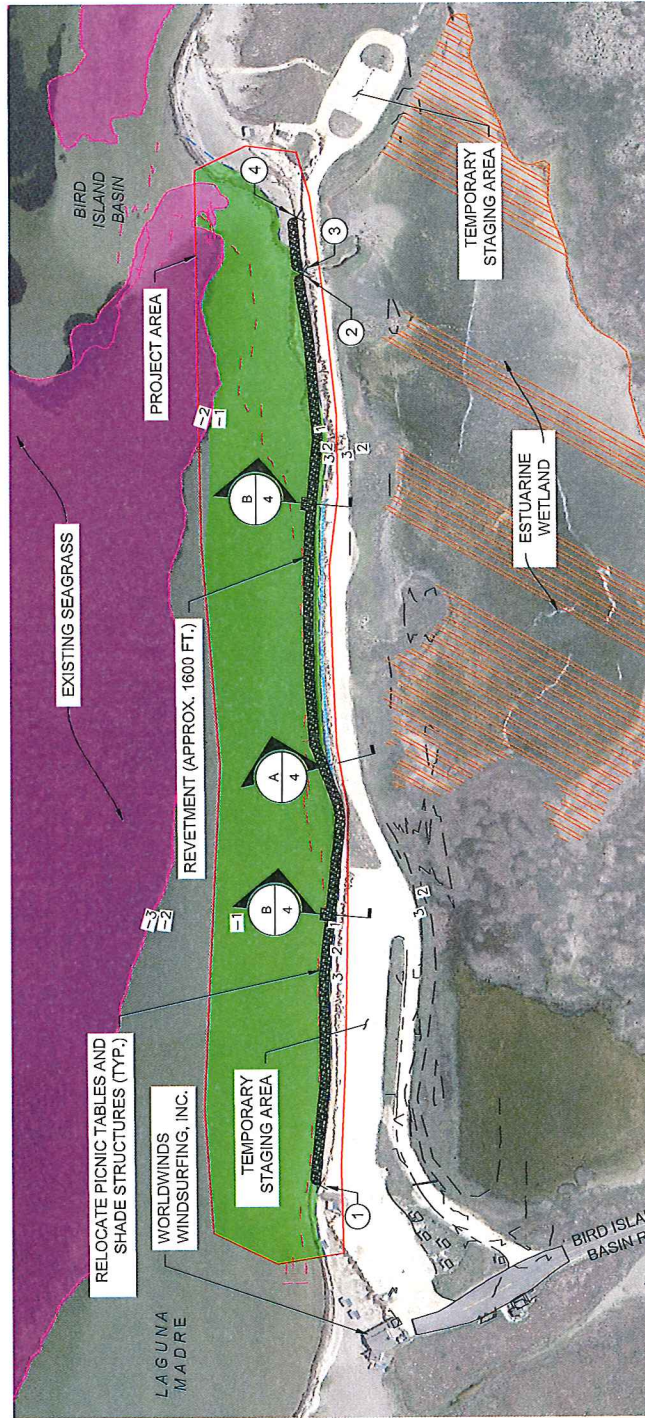
ENGINEER: DANIEL J. HELLMAN
REGISTRATION NO.: 86935
DATE: 11-26-2018

FOR COE USE ONLY
PERMIT APPLICATION NO.:
APPLICANT NAME:
SHEET ____ OF ____

HDR PROJECT NO: 10131776
DATUM: N/A
REV. DATE: 12/12/2018
SHEET 2 OF 4

ACTIVITY: STABILIZATION OF BIRD ISLAND BASIN SHORELINE
APPLICANT: PAIS 230430 A/E SERVICES
DATE: 12-13-2018





PROJECT LAYOUT

COORDINATE POINTS TABLE			
POINT NO.	NORTHING	EASTING	
1	17060345.25	1368854.98	
2	17061812.70	1369225.79	
3	17061819.37	1369226.57	
4	17061906.88	1369241.38	

- LEGEND:**
- PICNIC TABLE AND SHADE STRUCTURES
 - SEAGRASS (NOAA SEAGRASS) DATA
 - ESTUARINE WETLAND (USFWS NWM) DATA
 - SHALLOW OPEN WATER
 - AHT (ANNUAL HIGH TIDE LINE) (DELINEATED BY HDR)
 - MLLW (MEAN LOWER-LOW WATER)
 - EXISTING ROCK

NOTE:

- EXISTING ACCESS ROAD WILL BE UTILIZED AS TEMPORARY CONSTRUCTION AREAS.
- DATUM CONVERSIONS REFERENCED FROM NOAA STATION 8775792 PACKERY CHANNEL TX. ACCEPTED STATUS DATE OCT. 11, 2017.

PRELIMINARY

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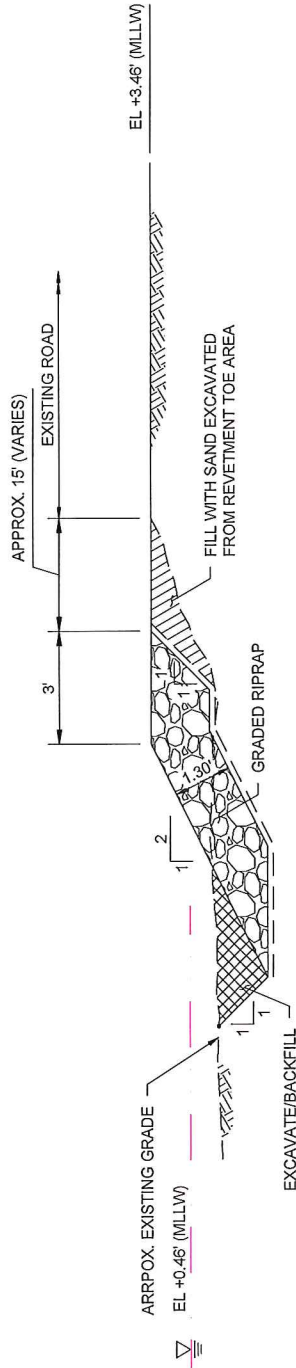
ENGINEER: DANIEL J. HELLMAN
REGISTRATION NO.: 86936
DATE: 11-26-2018

FOR COE USE ONLY
PERMIT APPLICATION NO.:
APPLICANT NAME:
SHEET OF

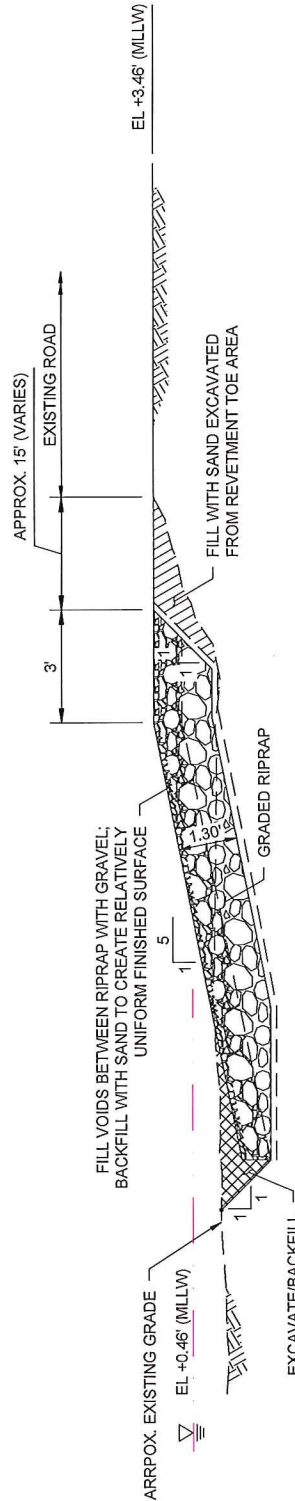
HDR PROJECT NO: 10131776
DATUM: N/A
REV. DATE: 12/12/2018
SHEET 3 OF 4

ACTIVITY: STABILIZATION OF BIRD ISLAND BASIN SHORELINE
APPLICANT: PAIS 230430 A/E SERVICES
DATE: 12-13-2018





TYPICAL SECTION - RIRRAP REVETMENT TYPE 1
A 3 NOT TO SCALE



TYPICAL SECTION - RIRRAP REVETMENT TYPE 2
B 3 NOT TO SCALE

PRELIMINARY

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ENGINEER: DANIEL J. HEILMAN
REGISTRATION NO.: 86936
DATE: 11-26-2018

FOR COE USE ONLY

PERMIT APPLICATION NO.:
APPLICANT NAME:
SHEET _____ OF _____

HDR PROJECT NO: 10131776

DATUM: MLLW

REV. DATE:

SHEET 4 OF 4

ACTIVITY: STABILIZATION OF BIRD ISLAND BASIN SHORELINE

APPLICANT: PAIS 230430 A/E SERVICES

DATE: 11-26-2018

