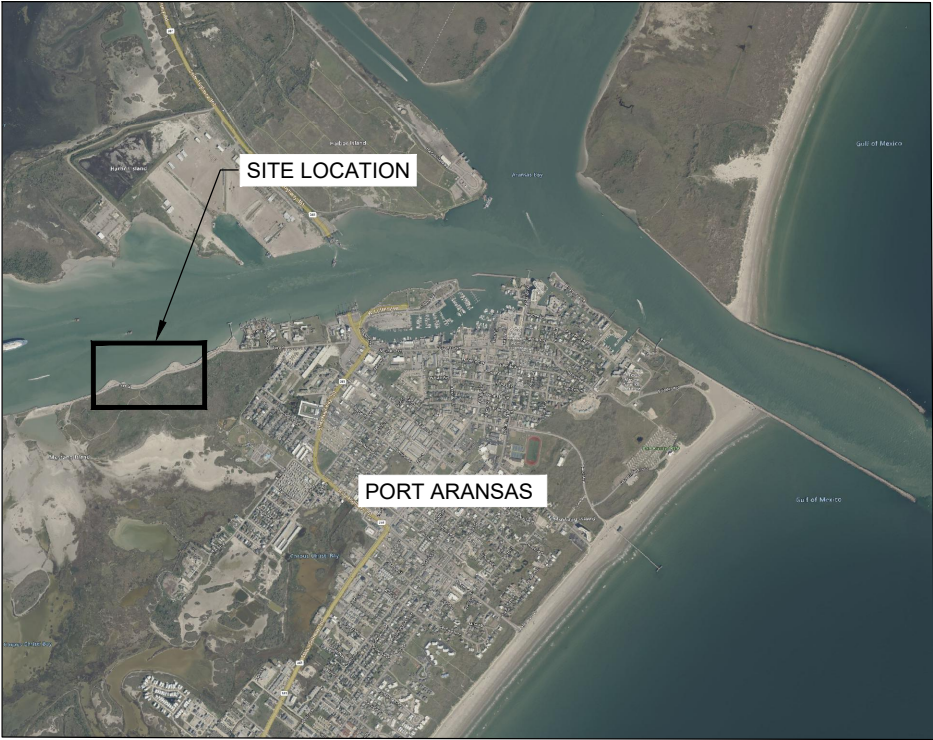


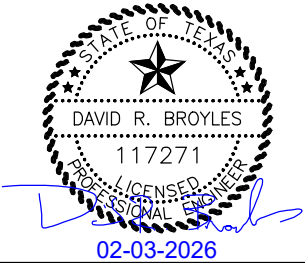
CHARLIE'S PASTURE EMERGENCY BULKHEAD REPAIRS

CITY OF PORT ARANSAS
PORT ARANSAS, TEXAS



SITE LOCATION MAP

DRAWING INDEX	
DWG NO.	DESCRIPTION
01	COVERSHEET
02	OVERALL SITE PLAN
03	AREA 1-EXISTING CONDITIONS
04	AREA 1-PHOTOS
05	AREA 1-PROPOSED PLAN
06	TYPICAL SECTION



ISSUED FOR CONSTRUCTION



PROJECT TITLE EMERGENCY BULKHEAD REPAIR
CHARLIES PASTURE

SHEET TITLE
COVER SHEET

PROJECT NUMBER
10474482

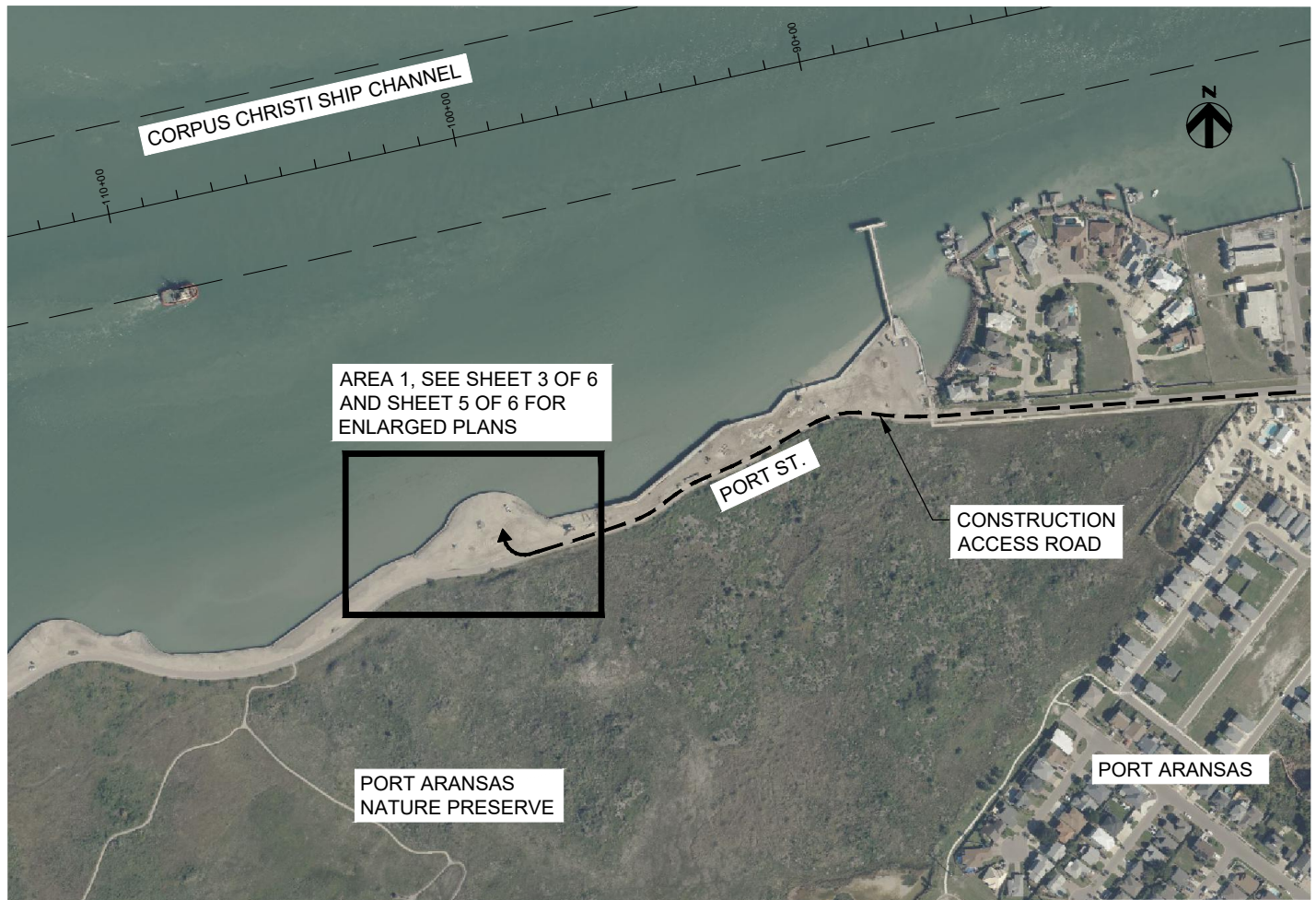
PROJECT MANAGER
A. ALLEN

DATE
09/10/2026

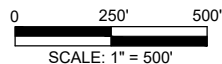
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OVERALL SITE PLAN



NOTE:

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS.
2. CONTRACTOR TO NOTIFY THE TEXAS ONE CALL (811) AND ALL KNOWN UTILITY OWNERS WITHIN THE WORK AREA AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, PILING, OR OTHER FOUNDATION CONSTRUCTION OPERATIONS.
3. WORKER SAFETY IN EXCAVATIONS, TRENCHING, AND SHORING SHALL BE IN ACCORDANCE WITH OSHA
4. CONTRACTOR IS RESPONSIBLE FOR RESEARCHING AND FAMILIARIZING THEMSELVES WITH THE EXISTING SITE CONDITIONS INCLUDING INGRESS/EGRESS ACCESS TO THE SITE AND INCORPORATING THE CONDITIONS INTO THEIR BID PRICE SUBMITTAL.
5. ALL DATA COLLECTED AND PRESENTED IN THIS DOCUMENT IS INDICATIVE OF CURRENT CONDITIONS AND IS NOT MEANT TO BE CONCLUSIVE. CONTRACTOR SHALL COLLECT THE DATA NECESSARY TO ASSURE SAFETY OF THEIR CREWS DURING ALL WORK..
6. CONTRACTOR MAY INITIALLY USE VIBRATORY EQUIPMENT TO DRIVE SHEET PILING TO REFUSAL (STABBING) OR FINAL GRADE. WHEN USING VIBRATORY EQUIPMENT INCREMENTALLY SEQUENCE DRIVING OF INDIVIDUAL PILES SUCH THAT THE TIP OF ANY SHEET PILE SHALL NOT BE MORE THAN 8FT BELOW THAT OF ANY ADJACENT SHEET PILE. THE USE OF VIBRATORY EQUIPMENT SHOULD BE DISCONTINUED AND IMPACT (POWER) HAMMERS EMPLOYED WHEN THE PENETRATION RATE DUE TO VIBRATORY LOADING IS 1FT OR LESS PER MINUTE.



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PROJECT TITLE EMERGENCY BULKHEAD REPAIR
CHARLIES PASTURE

SHEET TITLE
OVERALL SITE PLAN

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CORPUS CHRISTI SHIP CHANNEL

±40' LONG BULKHEAD FAILURE
(SEE NOTE 1.)

EXISTING
BULKHEAD WALL

EXISTING SIDEWALK

APPROXIMATE AREA OF SOIL LOSS
THROUGH BULKHEAD FAILURE,
LIMITS TO BE DETERMINED

PORT ST.

PHOTO LOCATION (TYP.),
SEE SHEET 3 OF 6

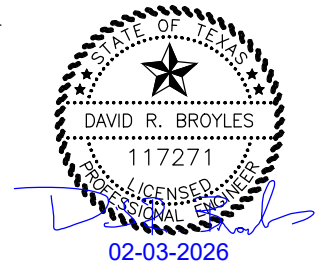
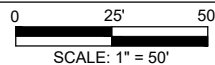
CONSTRUCTION
ACCESS ROAD

PORT ARANAS
NATURE PRESERVE

NOTE:

1. EXISTING CONCRETE PANELS HAVE FALLEN TOWARDS CHANNEL ARE ANTICIPATED TO BE UNDER THE MUDLINE IN THIS AREA. EXCAVATE AND REMOVE AND DISPOSE OF CONCRETE PANELS. DO NOT EXCAVATE MORE THAN EL. -10.0' IN THE AREA OF FAILURE. AFTER SHEETS ARE INSTALLED, FILL THE WATERSIDE WITH #57 STONE TO EL. -3.0'.
2. THE CONSTRUCTION ZONE HAS EXPERIENCED SUBSTANTIAL SHIP WAKES FROM PASSING VESSELS. CONTRACTORS MUST FAMILIARIZE THEMSELVES WITH THE CONDITIONS PRIOR TO CONSTRUCTION.

AREA 1 -EXISTING CONDITIONS PLAN



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PROJECT TITLE EMERGENCY BULKHEAD REPAIR
CHARLIES PASTURE

SHEET TITLE
EXISTING CONDITIONS PLAN

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EXHIBIT NUMBER

3 OF 6

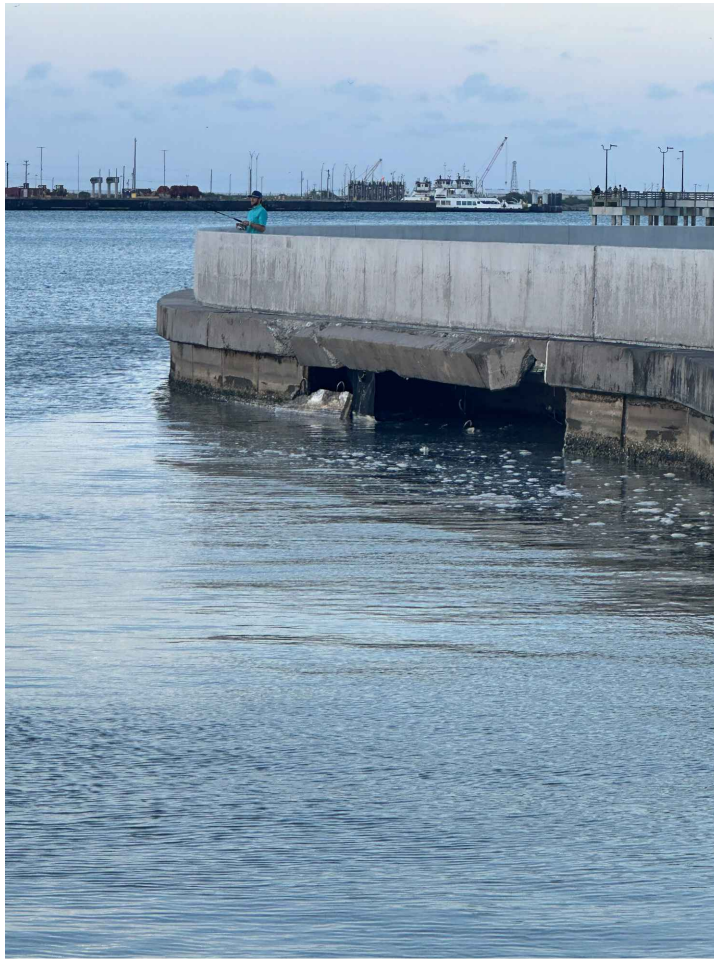
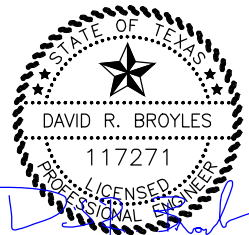


PHOTO 1 - BULKHEAD FAILURE



PHOTO 2 - SOIL LOSS BEHIND BULKHEAD FAILURE



02-03-2026

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PROJECT TITLE **EMERGENCY BULKHEAD REPAIR
CHARLIES PASTURE**

SHEET TITLE
AREA PHOTOS

PROJECT NUMBER

10474482

PROJECT MANAGER

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DATE

09/10/2026

REFERENCE SHEET

-

REFERENCE DOCUMENT

-

EXHIBIT NUMBER

4 OF 6

12"x0.625 WT DIA. PIPE PILE W/INTERLOCK FOR SHEET CONNECTION, TIP EL. -52.0'.

STEEL SHEET PILE (AZ-26 A572 GR. 50)

1/2" PLATE CUT TO FIT UNDER CONCRETE CAP AGAINST EXISTING BULKHEAD WALL PANEL (SEE NOTE 1).

NOTE

1. PLATE SHALL PENETRATE MUD LINE MINIMUM 2'-0" AND SHALL HAVE A MAXIMUM 1" GAP BELOW THE CONCRETE BULKHEAD CAP.

DETAIL 1 - WALL END ENCLOSURE

0 2.5' 5'
SCALE: 1" = 5'

EXISTING BULKHEAD WALL CONCRETE CAP

CORPUS CHRISTI SHIP CHANNEL

100'± NEW STEEL SHEET PILE BULKHEAD CENTERED ON FAILURE POINT

WALL END ENCLOSURE SEE DETAIL 1, (TYP. EACH END)

#57 CRUSHED STONE

NATIVE FILL

EXISTING BOLLARDS

PLACE FILL UP TO EL. +5.0' AFTER SHEET PILE WALL IS INSTALLED.

CONSTRUCTION ACCESS ROAD

PORT ST.

PORT ARANSAS NATURE PRESERVE

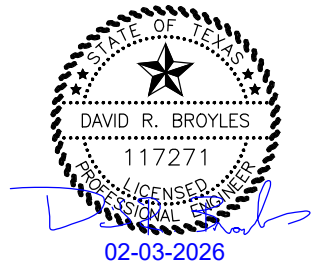
AREA 1 - PROPOSED PLAN

0 25' 50'
SCALE: 1" = 50'

NOTE

1. CONTRACTOR TO REINSTALL OR REPLACE BOLLARDS IN KIND AFTER CONSTRUCTION.
2. THE CONTRACTOR MUST TAKE THE NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING BULKHEAD. ANY DAMAGE THAT OCCURS DURING CONSTRUCTION SHALL BE FIXED AT THE CONTRACTOR'S EXPENSE TO THE OWNER AND ENGINEER'S SATISFACTION.
3. CONTRACTOR MUST TAKE SURVEY MEASUREMENTS ON THE EXISTING BULKHEAD CAP AT THE BEGINNING AND END OF EACH WORKDAY AT 1FT, 50FT, AND 100FT FROM THE ENDS OF THE NEW SHEET PILE WALL DURING PILE DRIVING ACTIVITIES.
4. CONSTRUCTION LIVE LOADS NOT PERMITTED WITHIN 30 FEET BEHIND EXISTING WALL, UNLESS SHORING PROVIDED BY CONTRACTOR.
5. CONTRACTOR SHALL CHECK FOR UNDERGROUND PIPELINES PRIOR TO DRIVING NEW SHEET PILES.

ISSUED FOR CONSTRUCTION



PROJECT TITLE EMERGENCY BULKHEAD REPAIR CHARLIES PASTURE

SHEET TITLE PROPOSED PLAN

PROJECT NUMBER

10474482

PROJECT MANAGER

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REFERENCE SHEET

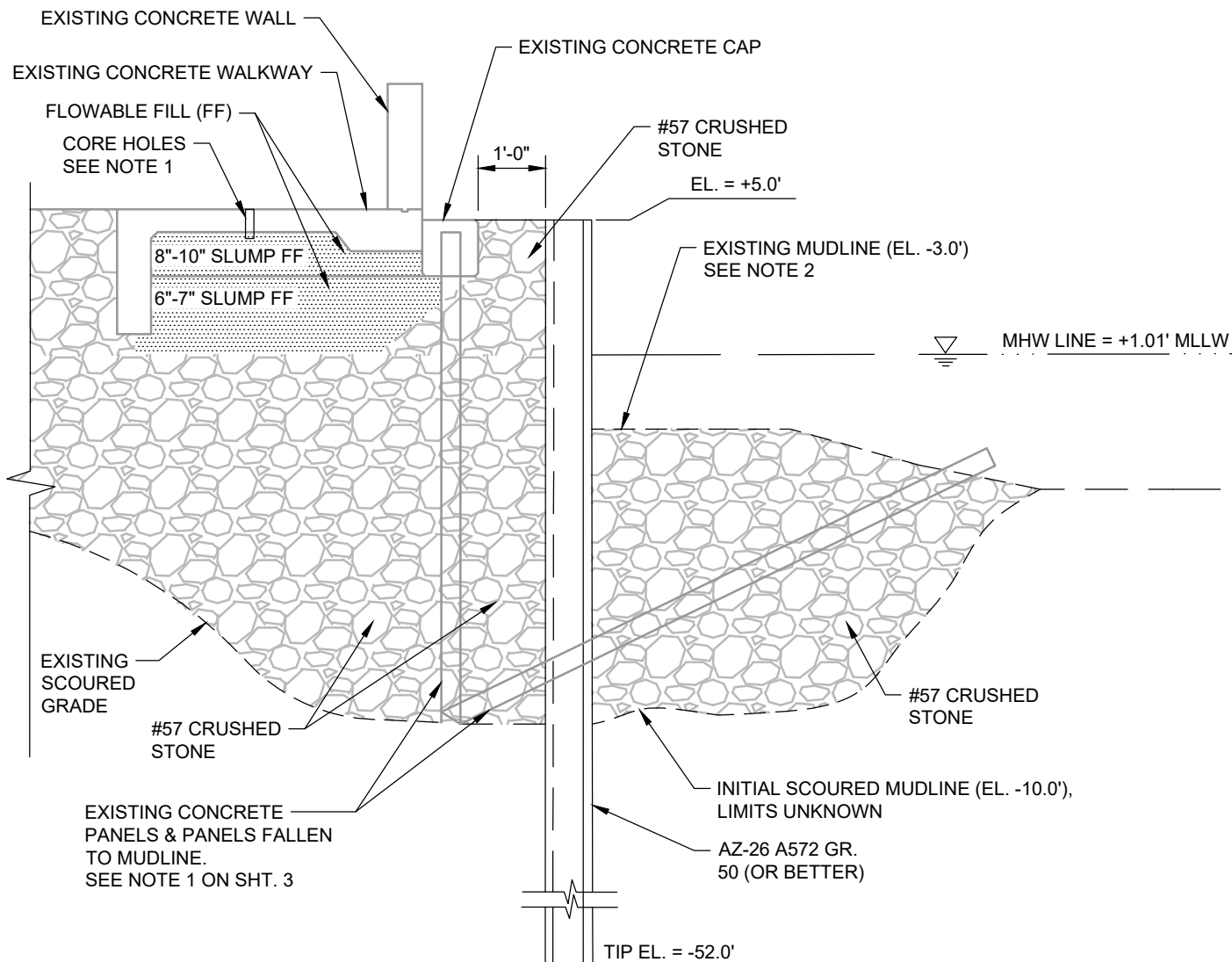
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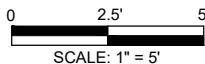
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5 OF 6



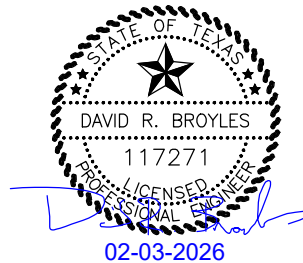
A TYPICAL SECTION THROUGH BULKHEAD



NOTES:

1. CORE 4" DIA HOLES AT THE END OF THE VOID AND AT 10'-0" O.C. TO PUMP 200 PSI (MAXIMUM) FLOWABLE FILL PER SPECIFICATION 31 23 23 IN 2 STAGES. STAGE 1 WITH 6"-7" SLUMP FLOWABLE FILL TO SEAL OFF THE #57 STONE. STAGE 2 WITH 8"-10" SLUMP FLOWABLE FILL TO FILL THE REST OF THE VOID. ESTIMATED VOID VOLUME = 60CY.
2. FILL THE SHIP CHANNEL SIDE OF THE SHEET PILE WITH #57 STONE TO EL. -3.0' PRIOR TO BACK FILLING THE LANDSIDE TO LIMIT DEFLECTION.
3. ALL ELEVATIONS ARE IN NAVD88 UNLESS OTHERWISE NOTED.

ISSUED FOR CONSTRUCTION



PROJECT TITLE **EMERGENCY BULKHEAD REPAIR
CHARLIES PASTURE**

SHEET TITLE
TYPICAL SECTION

PROJECT NUMBER

10474482

PROJECT MANAGER

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REFERENCE SHEET

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