



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT  
7400 LEAKE AVE  
NEW ORLEANS LA 70118-3651

November 25, 2019

Operations Division  
Eastern Evaluation Section, ODR-E

Subject: MVN-2016-1482-EPP

Coastal Protection and Restoration Authority  
Post Office box 44027  
Baton Rouge, Louisiana 70804

Dear Mr. Dobson,

The proposed work, to restore the barrier shoreline along West Grand Terre Island (BA-0197), in Jefferson Parish, Louisiana, as shown on the enclosed drawings, is authorized under Category II of the Programmatic General Permit provided that all conditions of the permit are met. In addition, the following special conditions are made part of this authorization:

1. The permittee shall comply with the enclosed: STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES and AVOIDANCE AND MINIMIZATION MEASURES FOR PIPING PLOVERS FOR SHORELINE ACTIVITIES.”

2. The permittee is aware the Rock Revetment, extending from the access canal around the Marsh Fill template and tying into an existing marsh area south of the Chevron Pipeline canal, will required a minimum of three (3) sections of the rock revetment to be degraded, no later than three (3) years post construction, to create at least 3 separate fish dips to allow for ingress and egress.

3. The permittee is aware the earthen containment dike, located on the northeast side of the island, along the south bank of the Chevron Pipeline Canal, will require gapping no later than three (3) years post construction. A minimum of three (3) gaps shall be cut along the earthen dike to allow marine access.

4. The permittee shall coordinate the location and size of the fish dips and marine access cuts with the National Marine Fisheries Service (Mr. Craig Gothreaux 225-380-0078) to insure the optimum number and best placement of gaps.

This authorization has a blanket water quality certification from the Louisiana Department of Environmental Quality; therefore, no additional authorization from DEQ is required.

-2-

However, prior to commencing work on your project, you must obtain approvals from state and local agencies as required by law and by terms of this permit. These approvals include, but are not limited to, a permit, consistency determination or determination of "no direct or significant impact (NDSI) on coastal waters" from the Louisiana Department of Natural Resources, Office of Coastal Management.

This approval to perform work is valid for 5 years from the date of this letter.

Permittee is aware that this office may reevaluate its decision on this permit at any time the circumstances warrant.

Should you have any further questions concerning this matter, please call Stephanie Castaing of this office at (504) 862-1564.

Sincerely,

For Martin S. Mayer  
Chief, Regulatory Branch

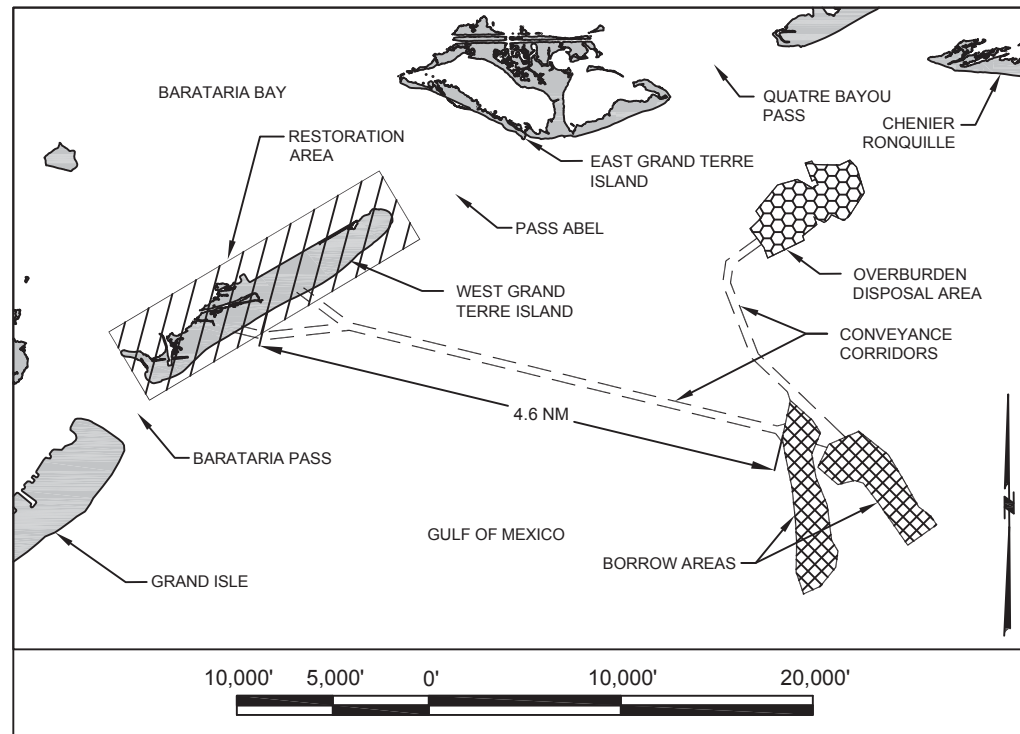
Enclosures

STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION (BA-0197)  
JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA  
PRELIMINARY

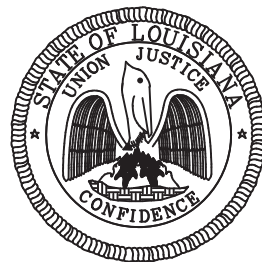
INDEX TO SHEETS

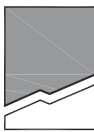
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PERMIT NOTES
3	PROJECT OVERVIEW
4	RESTORATION AREA PLAN VIEW
5 - 6	RESTORATION AREA TYPICAL SECTIONS
7	ACCESS CHANNELS PLAN VIEW AND TYPICAL SECTION
8	ROCK REVETMENT OVERVIEW
9	ROCK REVETMENT PLAN VIEW AND TYPICAL SECTIONS
10	ROCK REVETMENT SPUR PLAN VIEW
11	ROCK REVETMENT SPUR DETAILS
12	BORROW AREA PLAN VIEW
13	BORROW AREA TYPICAL SECTIONS
14	OVERBURDEN DISPOSAL AREA PLAN VIEW
15	OVERBURDEN DISPOSAL AREA TYPICAL SECTIONS
16	CONVEYANCE CORRIDORS PLAN VIEW
17	SAND FENCING DETAILS
18	SETTLEMENT / OVERWASH MONITORING SYSTEM DETAILS
19	VEGETATIVE PLANTING DETAILS
20	INFRASTRUCTURE DEMOLITION
21 - 23	ALIGNMENT AND COORDINATE TABLES



NOTES:

1. FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION.
2. RETAIN ENTIRE SET AS ONE, INDIVIDUAL SHEETS SHOULD NOT BE REMOVED.



BY	DESCRIPTION	DATE			
JSD	SHEET NAME CHANGE	11/14 2018	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION
					STATE PROJECT NUMBER: BA-0197
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197
					SHEET 1 OF 23

GENERAL NOTES:

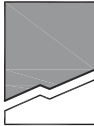
1. ANY EXCAVATED MATERIAL WILL BE, TO THE BEST OF KNOWLEDGE, FREE OF CONTAMINANTS AND/OR WILL BE DISPOSED OF IN AN APPROVED LANDFILL.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE, CONSTRUCTION PLANS, AND CONTRACT DOCUMENTS AND SHALL CONDUCT WORK IN STRICT ACCORDANCE WITH ALL PERMITS AND APPROVALS OBTAINED FOR THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES IN THE PLANS PRIOR TO BIDDING.
3. PROBABLE PIPELINES SHOWN ARE FROM LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT - 2010, BUREAU OF OCEAN ENERGY MANAGEMENT - 2007, FUGRO GEOSPATIAL, INC. 2017, T. BAKER SMITH, 2018, AND OCEAN SURVEYS, INC. - 2018.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT THE TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 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. THE CONTRACTOR SHALL ALSO NOTIFY PIPELINE AND UTILITY OPERATORS 72 HOURS PRIOR TO ANY EXCAVATION.
6. THE WATER BOTTOM SHALL NOT BE DISTURBED DURING ACCESS TO THE PROPOSED WORK LOCATION, OR BY THE AUTHORIZED ACTIVITIES WHETHER IT BE BY DREDGING, WHEEL WASHING, PROPWASHING, JETTING, MUCKING, PLOWING, BULL DOZING OR ANY MEANS OF MOVING BOTTOM MATERIAL, EXCEPT AS DEPICTED ON THE PERMIT SHEETS. POWERED VESSELS SHALL BE OPERATED SO AS NOT TO DISTURB THE WATER BOTTOM BY PROPELLER OR JET ACTION.
7. ALL LOGS, STUMPS, AND OTHER DEBRIS UNEARTHED DURING DREDGING SHALL BE REMOVED TO AN APPROVED OFFSITE DISPOSAL AREA.
8. THE CONTRACTOR MUST INSTALL AND MAINTAIN ANY SAFETY LIGHTS, SIGNS, AND SIGNALS PRESCRIBED BY THE U.S. COAST GUARD, THROUGH REGULATIONS OR OTHERWISE ON THE AUTHORIZED FACILITIES.
9. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
10. PIPELINES IN OPEN WATER AND/OR NAVIGABLE WATERS SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS.
11. THE PROPOSED PROJECT AND ANY FUTURE MAINTENANCE WORK INVOLVING THE USE OF FLOATING CONSTRUCTION EQUIPMENT (BARGE MOUNTED CRANES, BARGE MOUNTED PILE DRIVING EQUIPMENT, FLOATING DREDGE EQUIPMENT, DREDGE DISCHARGE PIPELINES, ETC.) IN FEDERAL WATERS, SHALL NOTIFY THE U.S. COAST GUARD SO THAT A NOTICE TO MARINERS, IF REQUIRED, MAY BE PREPARED. NOTIFICATION, WITH A COPY OF THE PERMIT APPROVAL AND DRAWINGS, SHALL BE MAILED TO THE U.S. COAST GUARD, SECTOR NEW ORLEANS COMMAND CENTER, 201 HAMMOND HIGHWAY, METAIRIE, LOUISIANA 70005, 30 DAYS BEFORE COMMENCEMENT OF WORK.
12. THE OFFSHORE WORK AREAS SHALL CONSIST OF THE BORROW AREAS AND CONVEYANCE CORRIDORS. THE INSHORE WORK AREA IS DEFINED BY A 150' OFFSET FROM THE OUTER LIMITS OF THE ACCESS CHANNELS, TEMPORARY SIDECAST DISPOSAL AREAS, AND THE TOE OF THE HYDRAULIC FILL TEMPLATE. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS/HER PLANT, EQUIPMENT, AND OPERATIONS OF PERSONNEL WITHIN THE LIMITS OF THE WORK AREA, AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH PLANT OR EQUIPMENT.
13. THE CONTRACTOR SHALL FOLLOW CONVEYANCE CORRIDORS, ACCESS CHANNELS, AND / OR FILL TEMPLATES, AND SHALL NOT, AT ANY TIME, TRAVEL ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS SPECIFIED IN THE PERMIT OR THROUGH WRITTEN DIRECTION FROM ENGINEER.
14. THE CONTRACTOR SHALL WORK COOPERATIVELY WITH THE OWNER TO ADDRESS THE NOTIFICATION AND COORDINATION REQUIREMENTS WITH THE LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES.
15. 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.
16. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

SURVEY NOTES:





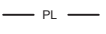

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B, U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983, (NAD 83) (2011) EPOCH 2010.00, LOUISIANA STATE PLANE SOUTH ZONE U.S. SURVEY FEET. ALL BEACH, DUNE, AND MARSH RESTORATION AREA ELEVATIONS ARE BASED ON SURVEY CONTROL MONUMENTS LISTED BELOW.

<u>MONUMENTS</u>	<u>ELEVATION</u>	<u>NORTHING</u>	<u>EASTING</u>
CP 603	2.19'	280,758.40	3,720,446.02

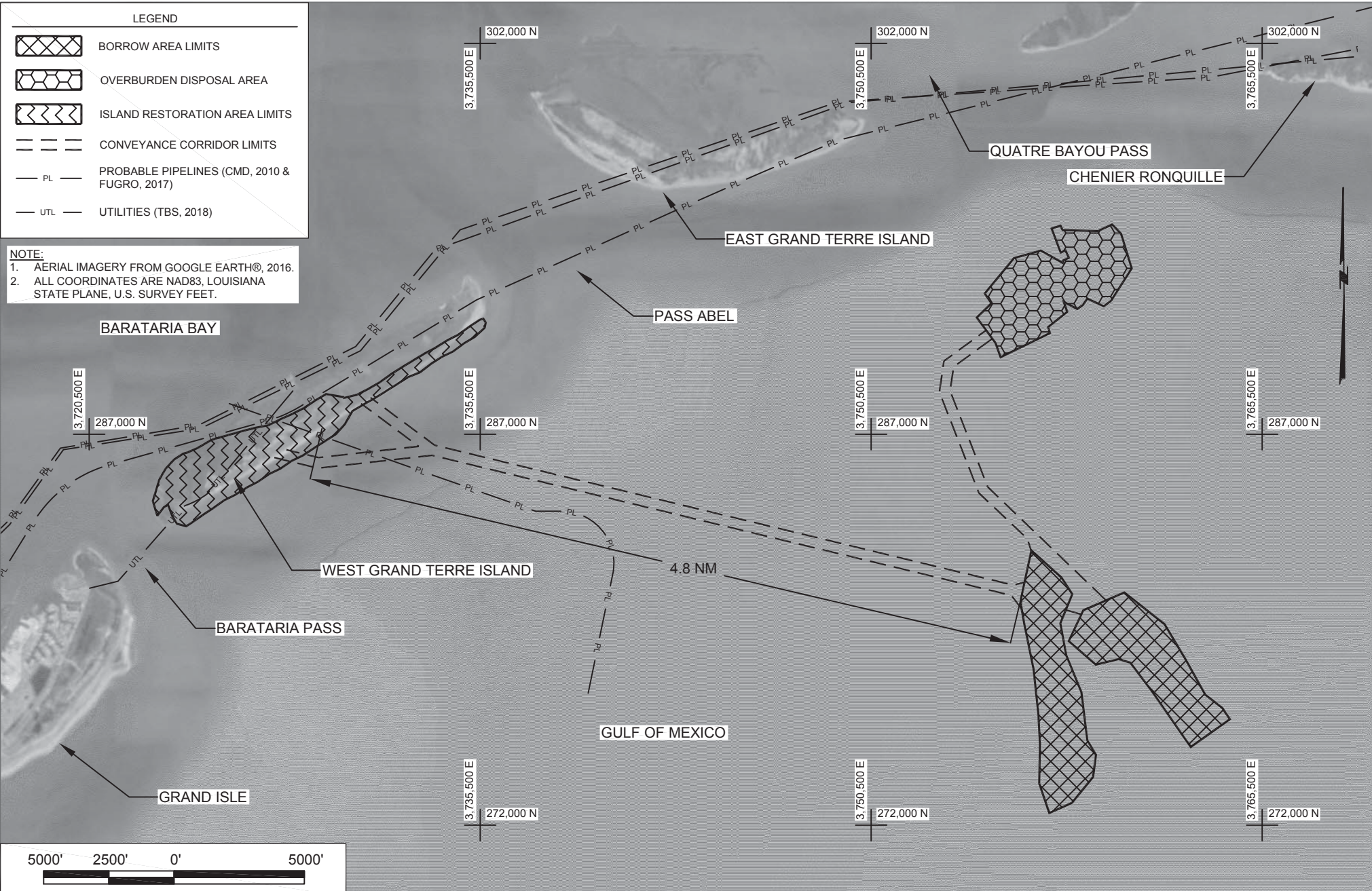
2. WEST GRAND TERRE RESTORATION AREA SURVEY WAS PERFORMED BY FURGO GEOSPATIAL, INC. IN APRIL - JUNE 2017. WEST GRAND TERRE BORROW AREA SURVEY WAS PERFORMED BY OCEAN SURVEYS, INC. IN SEPTEMBER 2017. WEST GRAND TERRE CONVEYANCE CORRIDOR AND OVERBURDEN DISPOSAL CONVEYANCE CORRIDOR WAS PERFORMED BY OCEAN SURVEYS, INC. IN JUNE 2018.
3. INFORMATION SHOWN HEREON REFLECTS CONDITIONS AS THEY EXISTED ON SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
4. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ARE BASED ON TIDAL DATUM OBTAINED FROM THE NOAA OPERATED TIDE STATION, "GRAND ISLE - EAST POINT", STATION DESIGNATION 8761724. TIDAL EPOCH REFERENCED AT TIDE STATION IS BASED ON 5-YEAR RECORD FROM 2012 - 2016.

BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	PERMIT NOTES
JSD	UPDATED SURVEY NOTE FOR CORRIDORS	11/14 2018			STATE PROJECT NUMBER: BA-0197	
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 2 OF 23

**LEGEND**

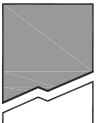
-  BORROW AREA LIMITS
-  OVERBURDEN DISPOSAL AREA
-  ISLAND RESTORATION AREA LIMITS
-  CONVEYANCE CORRIDOR LIMITS
-  PROBABLE PIPELINES (CMD, 2010 & FUGRO, 2017)
-  UTILITIES (TBS, 2018)

**NOTE:**  
 1. AERIAL IMAGERY FROM GOOGLE EARTH®, 2016.  
 2. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.



BY	DESCRIPTION	DATE
JSD	UPDATE BA2 BOUNDARY	05/21 2019

DRAWN BY: STEVE DARTEZ



**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

STATE PROJECT NUMBER: BA-0197

FEDERAL PROJECT NUMBER: BA-0197

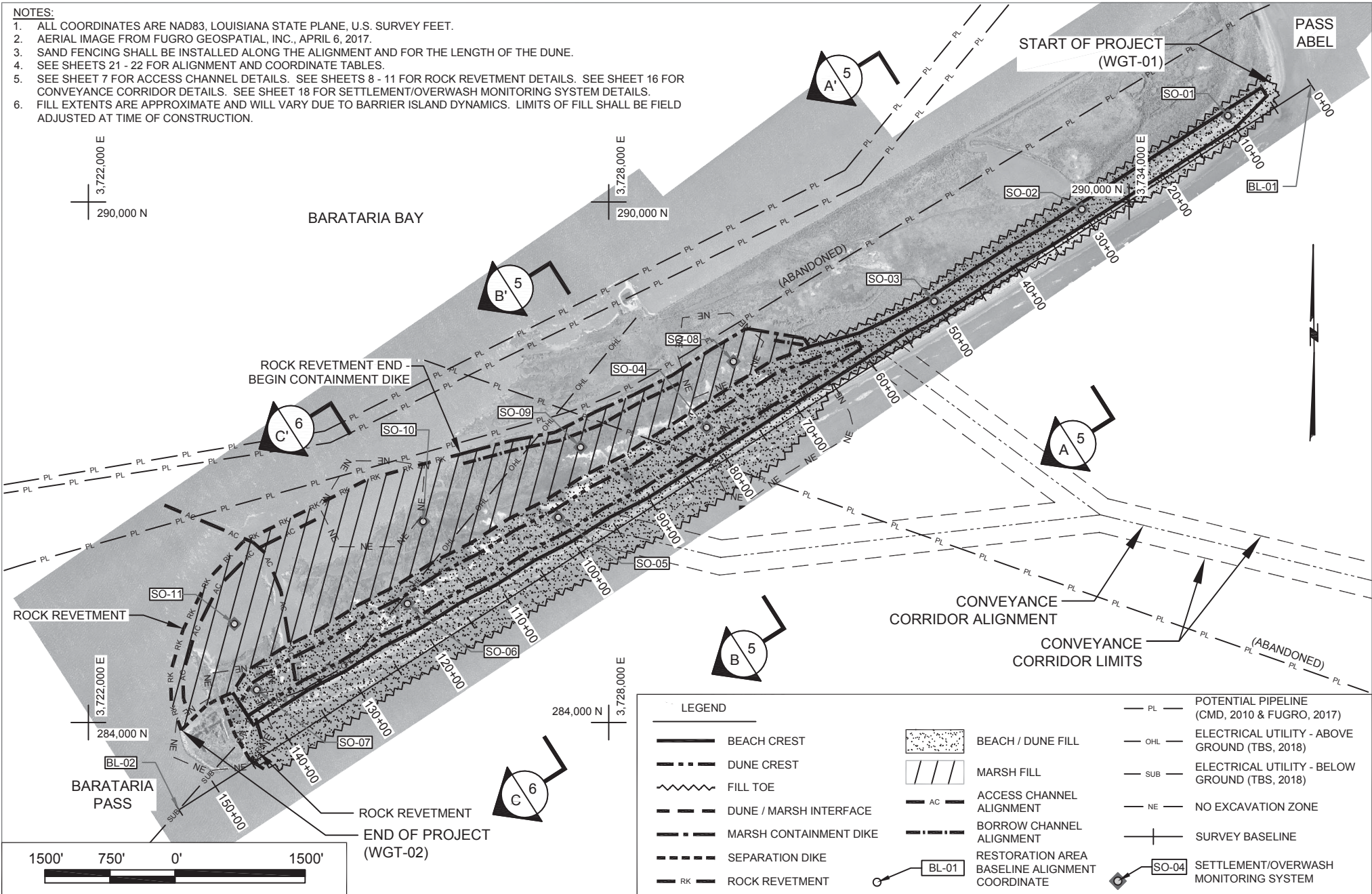
PROJECT OVERVIEW

DATE: OCTOBER 2018

SHEET 3 OF 23

**NOTES:**

1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
2. AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.
3. SAND FENCING SHALL BE INSTALLED ALONG THE ALIGNMENT AND FOR THE LENGTH OF THE DUNE.
4. SEE SHEETS 21 - 22 FOR ALIGNMENT AND COORDINATE TABLES.
5. SEE SHEET 7 FOR ACCESS CHANNEL DETAILS. SEE SHEETS 8 - 11 FOR ROCK REVETMENT DETAILS. SEE SHEET 16 FOR CONVEYANCE CORRIDOR DETAILS. SEE SHEET 18 FOR SETTLEMENT/OVERWASH MONITORING SYSTEM DETAILS.
6. FILL EXTENTS ARE APPROXIMATE AND WILL VARY DUE TO BARRIER ISLAND DYNAMICS. LIMITS OF FILL SHALL BE FIELD ADJUSTED AT TIME OF CONSTRUCTION.



BY	DESCRIPTION	DATE
JSD	ROCK REVETMENT CALLOUTS ADDED	11/14 2018
JSD	CHANGE TO NO EXCAVATION ZONES, BORROW CHANNEL, AND TEMPORARY SIDECAST DISPOSAL	05/21 2019

DRAWN BY: STEVE DARTEZ

**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

**LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.







**WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION**

STATE PROJECT NUMBER: BA-0197  
 FEDERAL PROJECT NUMBER: BA-0197

**RESTORATION AREA PLAN VIEW**

DATE: OCTOBER 2018  
 SHEET 4 OF 23

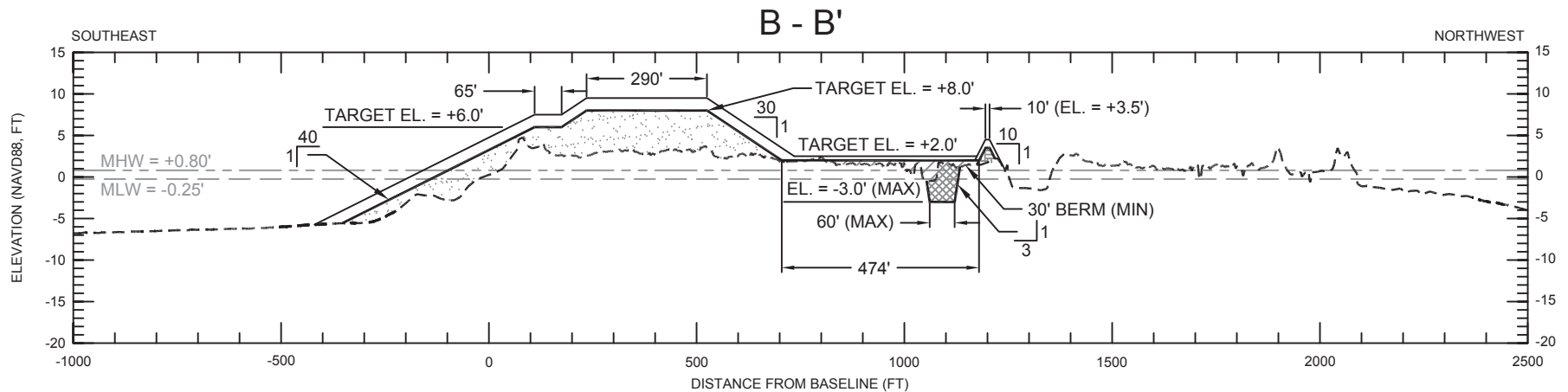
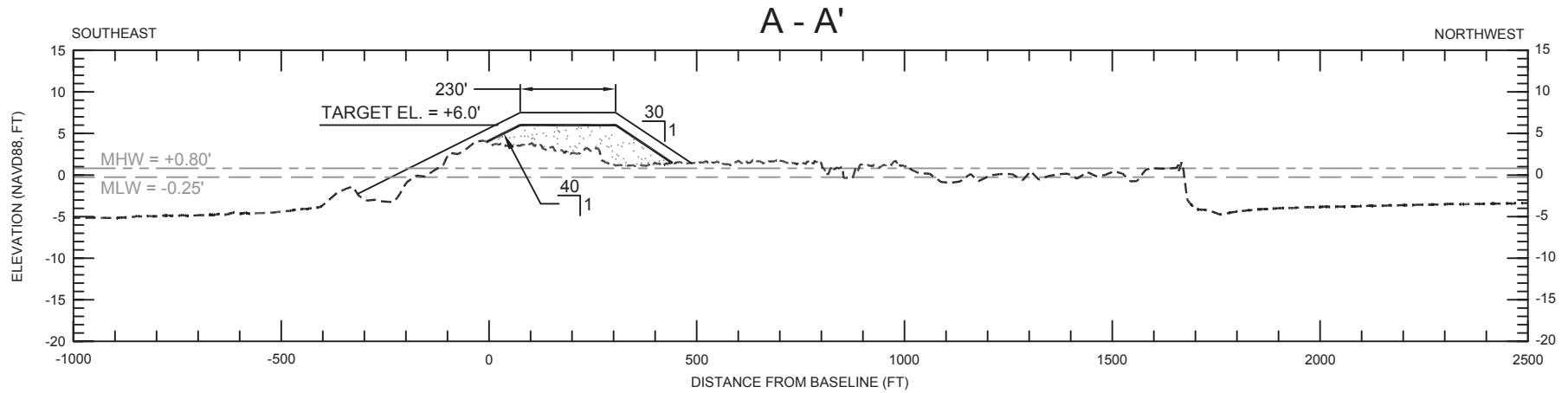
LEGEND:

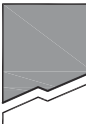
	EXISTING GRADE (FUGRO, 2017)		CONSTRUCTION TOLERANCE
	BEACH / DUNE FILL		MARSH CONTAINMENT DIKE
	MARSH FILL		BORROW CHANNEL

NOTES:

1. SURVEY PERFORMED BY FUGRO, JUNE 2017.
2. A 1.5 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR BEACH/DUNE FILL TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.
3. A 0.5 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR MARSH FILL.
4. A 1.0 FT VERTICAL CONSTRUCTION TOLERANCE FOR CONTAINMENT DIKE CONSTRUCTION TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.

SCALE:  
H: 1" = 400'  
V: 1" = 20'



BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	RESTORATION AREA TYPICAL SECTIONS
JSD	MARSH AND DIKE ELEVATION CHANGE	05/21 2019			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 5 OF 23

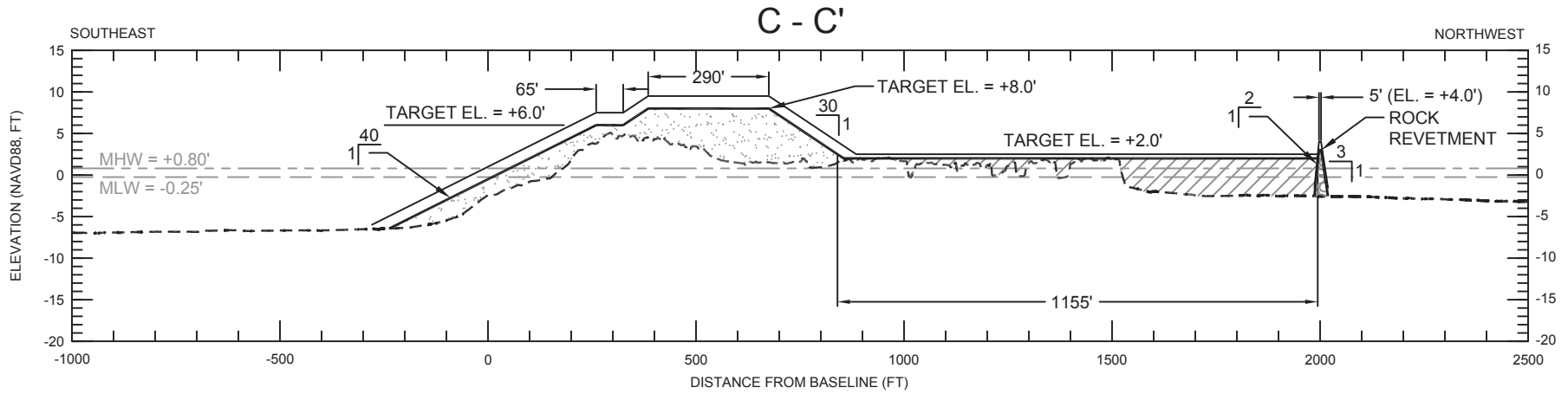
LEGEND:

---	EXISTING GRADE (FUGRO, 2017)	—	CONSTRUCTION TOLERANCE
	BEACH / DUNE FILL		ROCK REVETMENT
	MARSH FILL		ACCESS CHANNEL

NOTES:

1. SURVEY PERFORMED BY FUGRO, JUNE 2017.
2. A 1.5 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR BEACH/DUNE FILL TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.
3. A 0.5 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR MARSH FILL.
4. A 1.0 FT VERTICAL CONSTRUCTION TOLERANCE FOR ROCK REVETMENT CONSTRUCTION TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.

SCALE:  
H: 1" = 400'  
V: 1" = 20'

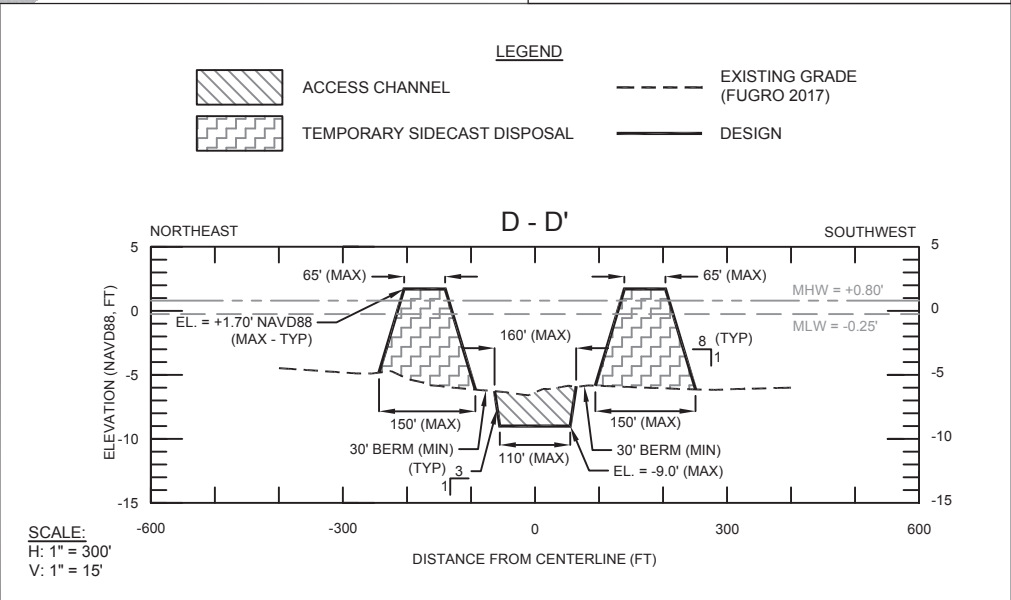
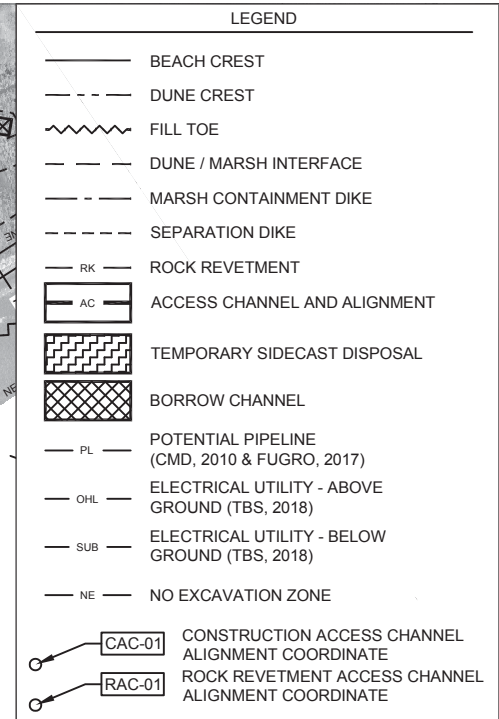
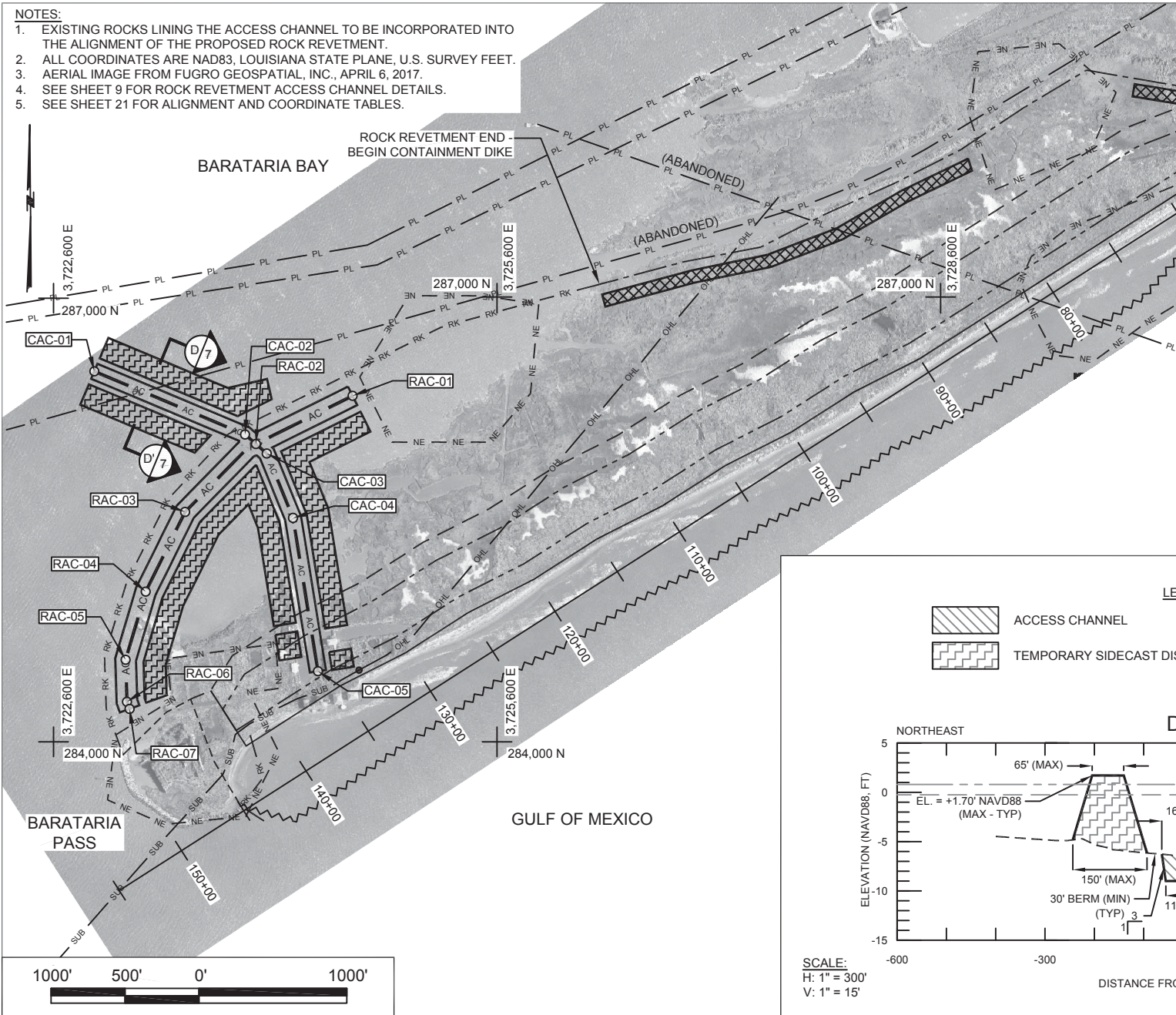


BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION  STATE PROJECT NUMBER: BA-0197	RESTORATION AREA TYPICAL SECTIONS  DATE: OCTOBER 2018
JSD	ROCK REVETMENT CALLOUTS ADDED	11/14 2018				
JSD	CHANGE TO BORROW CHANNEL	05/21 2019				
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 6 OF 23



**NOTES:**

- EXISTING ROCKS LINING THE ACCESS CHANNEL TO BE INCORPORATED INTO THE ALIGNMENT OF THE PROPOSED ROCK REVETMENT.
- ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
- AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.
- SEE SHEET 9 FOR ROCK REVETMENT ACCESS CHANNEL DETAILS.
- SEE SHEET 21 FOR ALIGNMENT AND COORDINATE TABLES.



BY	DESCRIPTION	DATE
JSD	DEFINED MAXIMUM CREST WIDTH OF TEMPORARY SIDECAST DISPOSAL	11/14 2018
JSD	CHANGE TO NO EXCAVATION ZONES, ACCESS CHANNEL LENGTH, BORROW CHANNEL, AND SIDECAST DISPOSAL	05/21 2019
DRAWN BY: STEVE DARTEZ		

**COASTAL ENGINEERING CONSULTANTS, INC.**  
PH: (225) 768-1982  
8570 ANSELMO LANE  
BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
LA LICENSE NO. 30048

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
150 TERRACE AVENUE  
BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

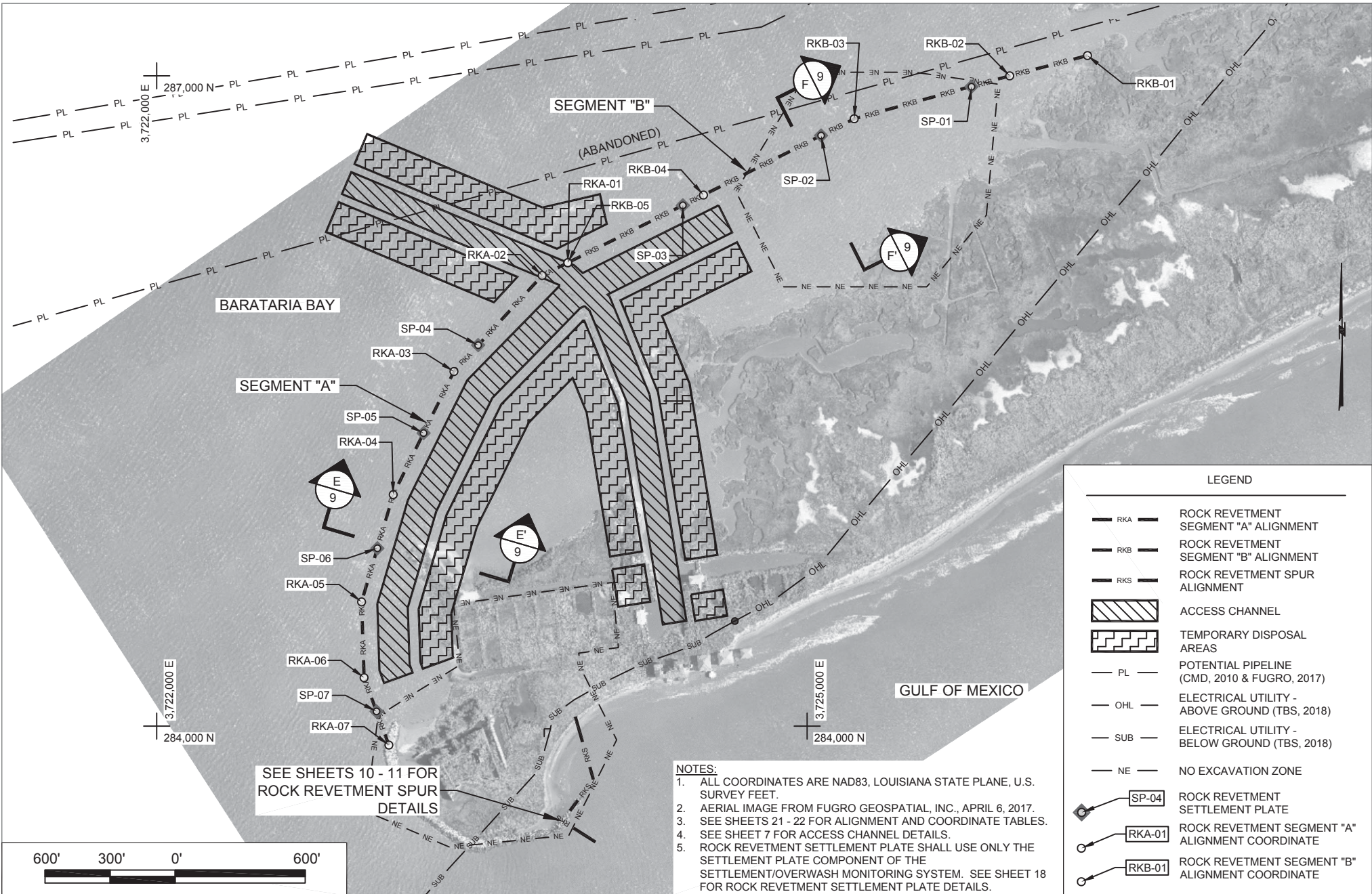
STATE PROJECT NUMBER: BA-0197

FEDERAL PROJECT NUMBER: BA-0197

ACCESS CHANNELS PLAN VIEW & TYPICAL SECTION

DATE: OCTOBER 2018

SHEET 7 OF 23



LEGEND	
	RKA ROCK REVETMENT SEGMENT "A" ALIGNMENT
	RKB ROCK REVETMENT SEGMENT "B" ALIGNMENT
	RKS ROCK REVETMENT SPUR ALIGNMENT
	ACCESS CHANNEL
	TEMPORARY DISPOSAL AREAS
	PL POTENTIAL PIPELINE (CMD, 2010 & FUGRO, 2017)
	OHL ELECTRICAL UTILITY - ABOVE GROUND (TBS, 2018)
	SUB ELECTRICAL UTILITY - BELOW GROUND (TBS, 2018)
	NE NO EXCAVATION ZONE
	SP-04 ROCK REVETMENT SETTLEMENT PLATE
	RKA-01 ROCK REVETMENT SEGMENT "A" ALIGNMENT COORDINATE
	RKB-01 ROCK REVETMENT SEGMENT "B" ALIGNMENT COORDINATE

- NOTES:**
1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
  2. AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.
  3. SEE SHEETS 21 - 22 FOR ALIGNMENT AND COORDINATE TABLES.
  4. SEE SHEET 7 FOR ACCESS CHANNEL DETAILS.
  5. ROCK REVETMENT SETTLEMENT PLATE SHALL USE ONLY THE SETTLEMENT PLATE COMPONENT OF THE SETTLEMENT/OVERWASH MONITORING SYSTEM. SEE SHEET 18 FOR ROCK REVETMENT SETTLEMENT PLATE DETAILS.

BY	DESCRIPTION	DATE
JSD	CHANGE TO NO EXCAVATION ZONES, ACCESS CHANNEL, AND SIDECAST DISPOSAL	05/21 2019

DRAWN BY: STEVE DARTEZ

**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

**LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

**WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION**

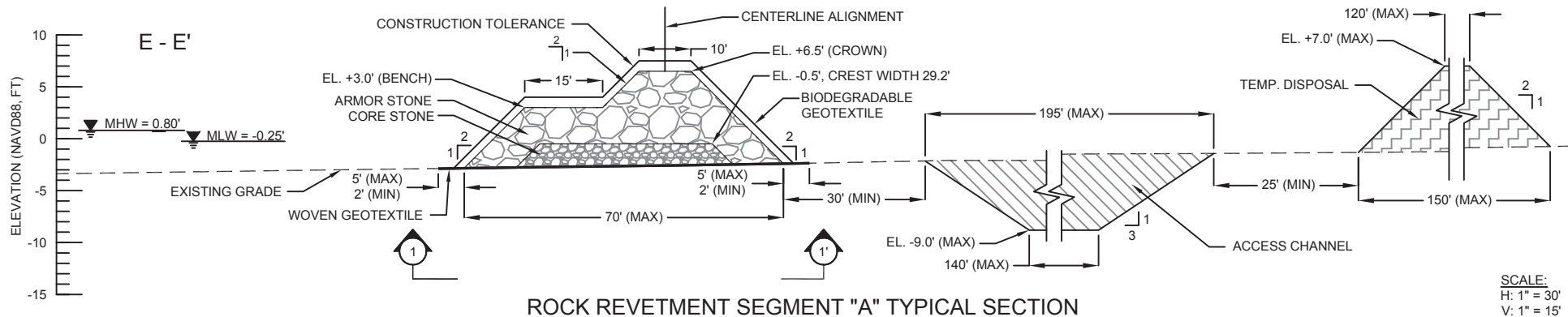
STATE PROJECT NUMBER: BA-0197

FEDERAL PROJECT NUMBER: BA-0197

**ROCK REVETMENT OVERVIEW**

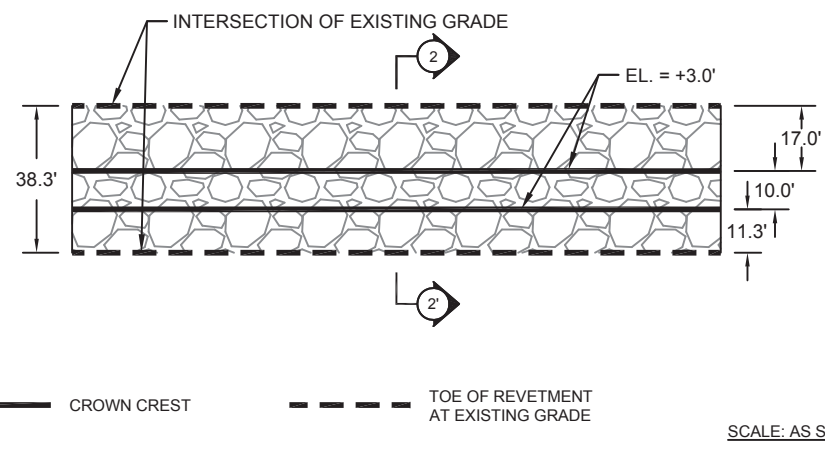
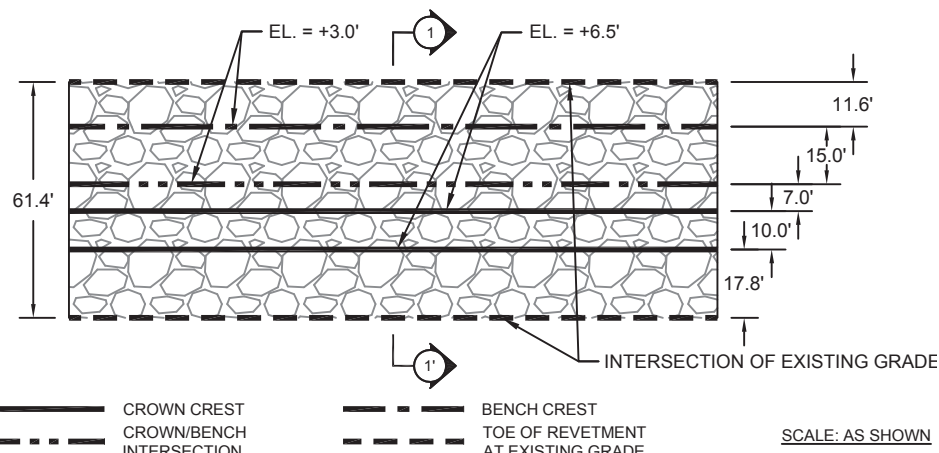
DATE: OCTOBER 2018

SHEET 8 OF 23

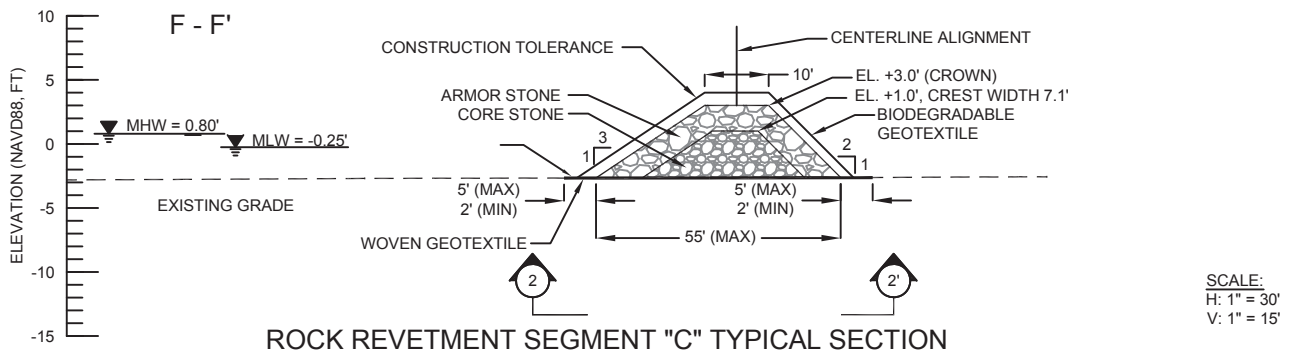


ROCK REVETMENT SEGMENT "A" TYPICAL SECTION

SCALE:  
H: 1" = 30'  
V: 1" = 15'

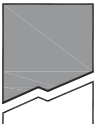


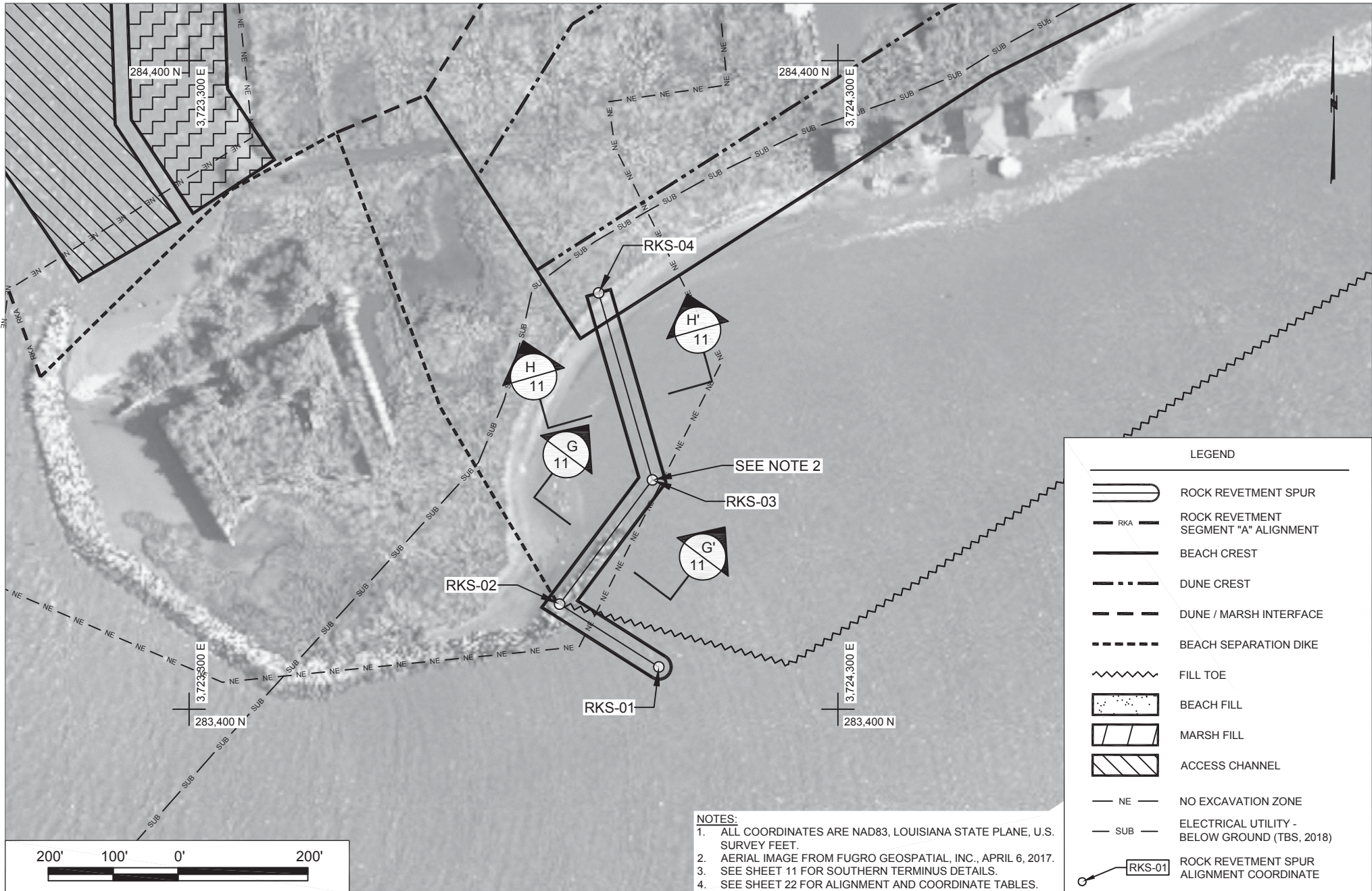
- NOTES:**
1. EXISTING GRADE SURVEY FROM FUGRO GEOSPATIAL, 2017.
  2. A 1.0 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR MARSH FILL AND ROCK REVETMENT CONSTRUCTION TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.



ROCK REVETMENT SEGMENT "C" TYPICAL SECTION

SCALE:  
H: 1" = 30'  
V: 1" = 15'

BY: JSD	DESCRIPTION: MAXIMUM DIMENSIONS DEFINED AND TYPICAL PLAN VIEWS ADDED	DATE: 11/14 2018	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	ROCK REVETMENT PLAN VIEW AND TYPICAL SECTIONS
DRAWN BY: STEVE DARTEZ					DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.
					FEDERAL PROJECT NUMBER: BA-0197	SHEET 9 OF 23



**LEGEND**

- ROCK REVETMENT SPUR
- ROCK REVETMENT SEGMENT "A" ALIGNMENT
- BEACH CREST
- DUNE CREST
- DUNE / MARSH INTERFACE
- BEACH SEPARATION DIKE
- FILL TOE
- BEACH FILL
- MARSH FILL
- ACCESS CHANNEL
- NO EXCAVATION ZONE
- ELECTRICAL UTILITY - BELOW GROUND (TBS, 2018)
- ROCK REVETMENT SPUR ALIGNMENT COORDINATE

**NOTES:**  
 1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.  
 2. AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.  
 3. SEE SHEET 11 FOR SOUTHERN TERMINUS DETAILS.  
 4. SEE SHEET 22 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE
JSD	WIDTH OF SPUR UPDATED. PRE-EXCAVATION ELIMINATED, CHANGE IN CONSTRUCTED ELEVATION ADDED.	11/14 2018

DRAWN BY: STEVE DARTEZ



**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

STATE PROJECT NUMBER: BA-0197

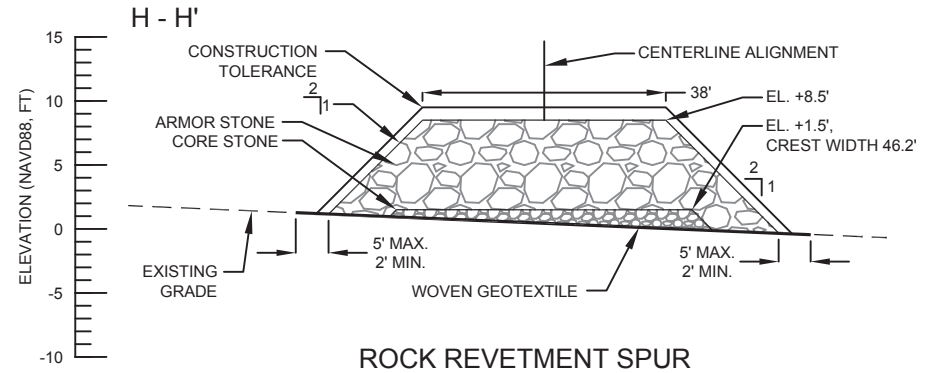
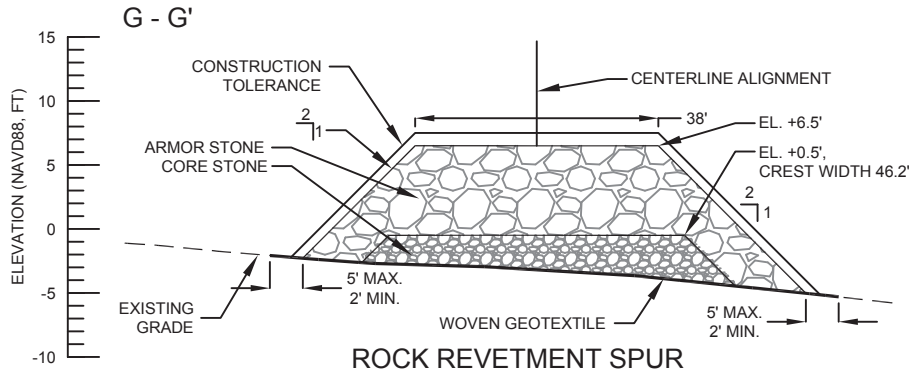
FEDERAL PROJECT NUMBER: BA-0197

ROCK REVETMENT SPUR PLAN VIEW

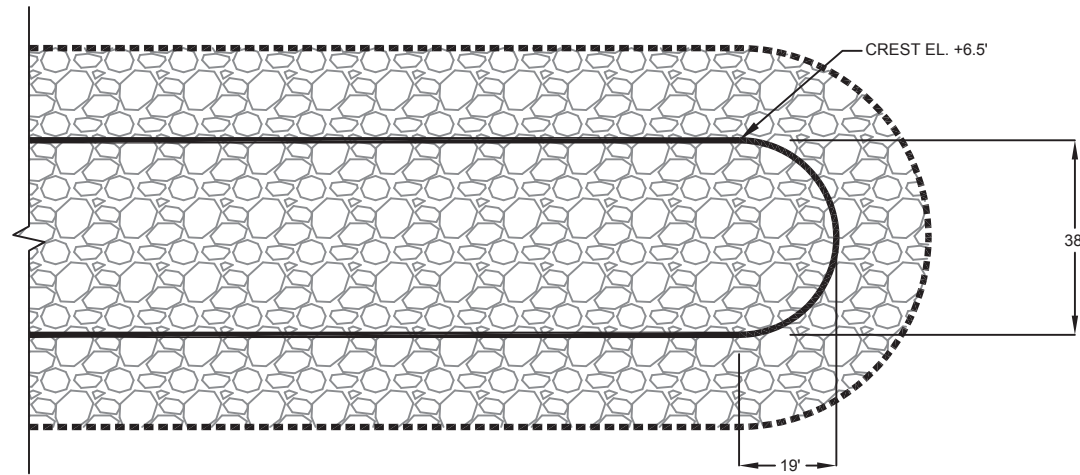
DATE: OCTOBER 2018

SHEET 10 OF 23

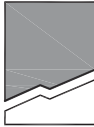
SCALE:  
H: 1" = 30'  
V: 1" = 15'



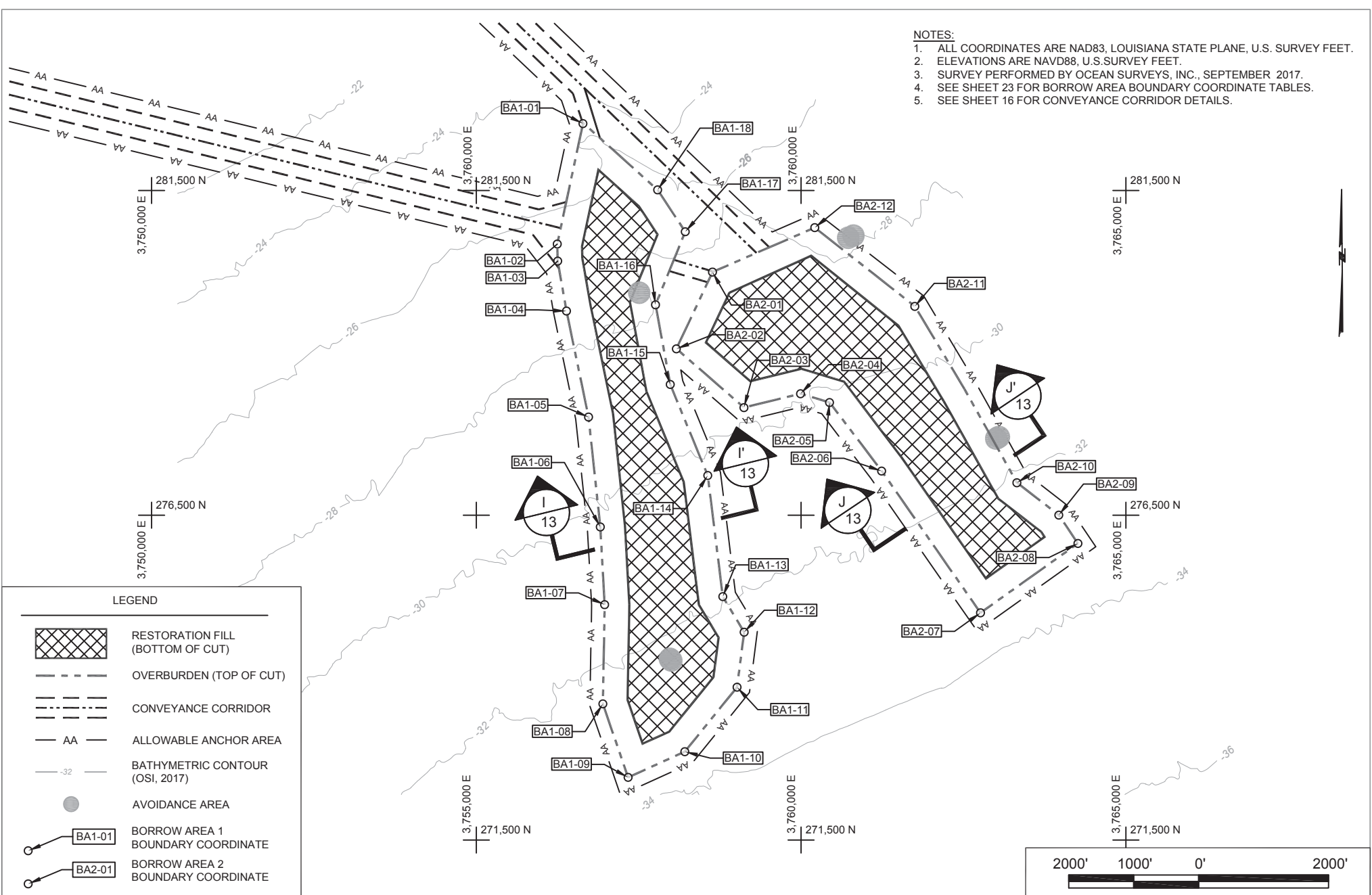
- NOTES:
1. EXISTING GRADE SURVEY FROM FUGRO GEOSPATIAL, 2017.
  2. A 1.0 FT VERTICAL CONSTRUCTION TOLERANCE WAS INCLUDED FOR MARSH FILL AND ROCK REVETMENT CONSTRUCTION TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION / SETTLEMENT.



ROCK REVETMENT SPUR SOUTHERN TERMINUS  
(SCALE AS SHOWN)

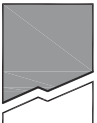
BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	ROCK REVETMENT SPUR DETAILS
JSD	MAXIMUM DIMENSIONS DEFINED	11/14 2018			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
JSD	WIDTH OF SPUR UPDATED. PRE-EXCAVATION ELIMINATED, CHANGE IN CONSTRUCTED ELEVATION ADDED.	05/21 2019			FEDERAL PROJECT NUMBER: BA-0197	SHEET 11 OF 23
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.		

- NOTES:**
1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
  2. ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
  3. SURVEY PERFORMED BY OCEAN SURVEYS, INC., SEPTEMBER 2017.
  4. SEE SHEET 23 FOR BORROW AREA BOUNDARY COORDINATE TABLES.
  5. SEE SHEET 16 FOR CONVEYANCE CORRIDOR DETAILS.



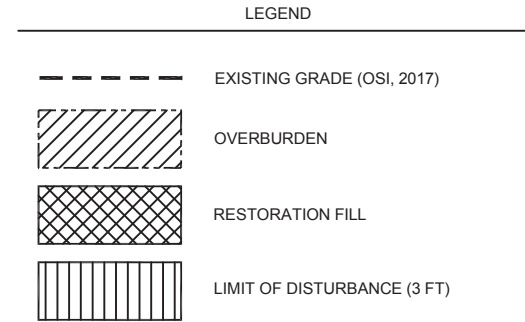
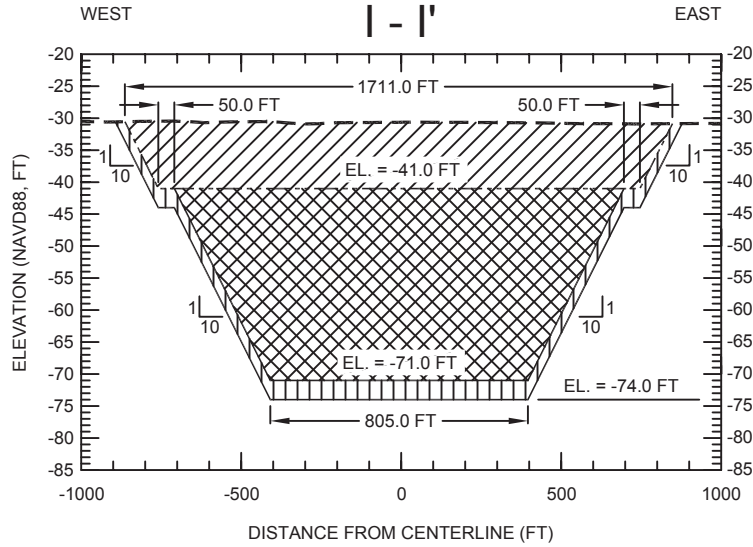
**LEGEND**

- RESTORATION FILL (BOTTOM OF CUT)
- OVERBURDEN (TOP OF CUT)
- CONVEYANCE CORRIDOR
- ALLOWABLE ANCHOR AREA
- BATHYMETRIC CONTOUR (OSI, 2017)
- AVOIDANCE AREA
- BORROW AREA 1 BOUNDARY COORDINATE
- BORROW AREA 2 BOUNDARY COORDINATE

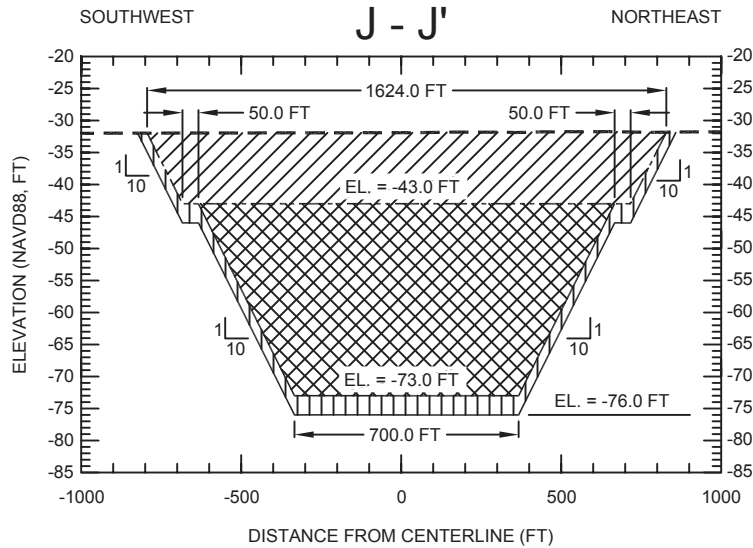
BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	<b>LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802	<b>WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION</b>	<b>BORROW AREA PLAN VIEW</b>
JSD	UPDATED AVOIDANCE AREAS	11/26 2018				
JSD	UPDATE BA2 BOUNDARY, SECTION DESIGNATIONS UPDATED	05/21 2019				
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
					FEDERAL PROJECT NUMBER: BA-0197	SHEET 12 OF 23

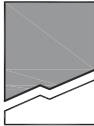
NOTES:

- EXISTING GRADE FROM RECONNAISSANCE LEVEL SURVEY, OCEAN SURVEYS, INC., SEPTEMBER, 2017.



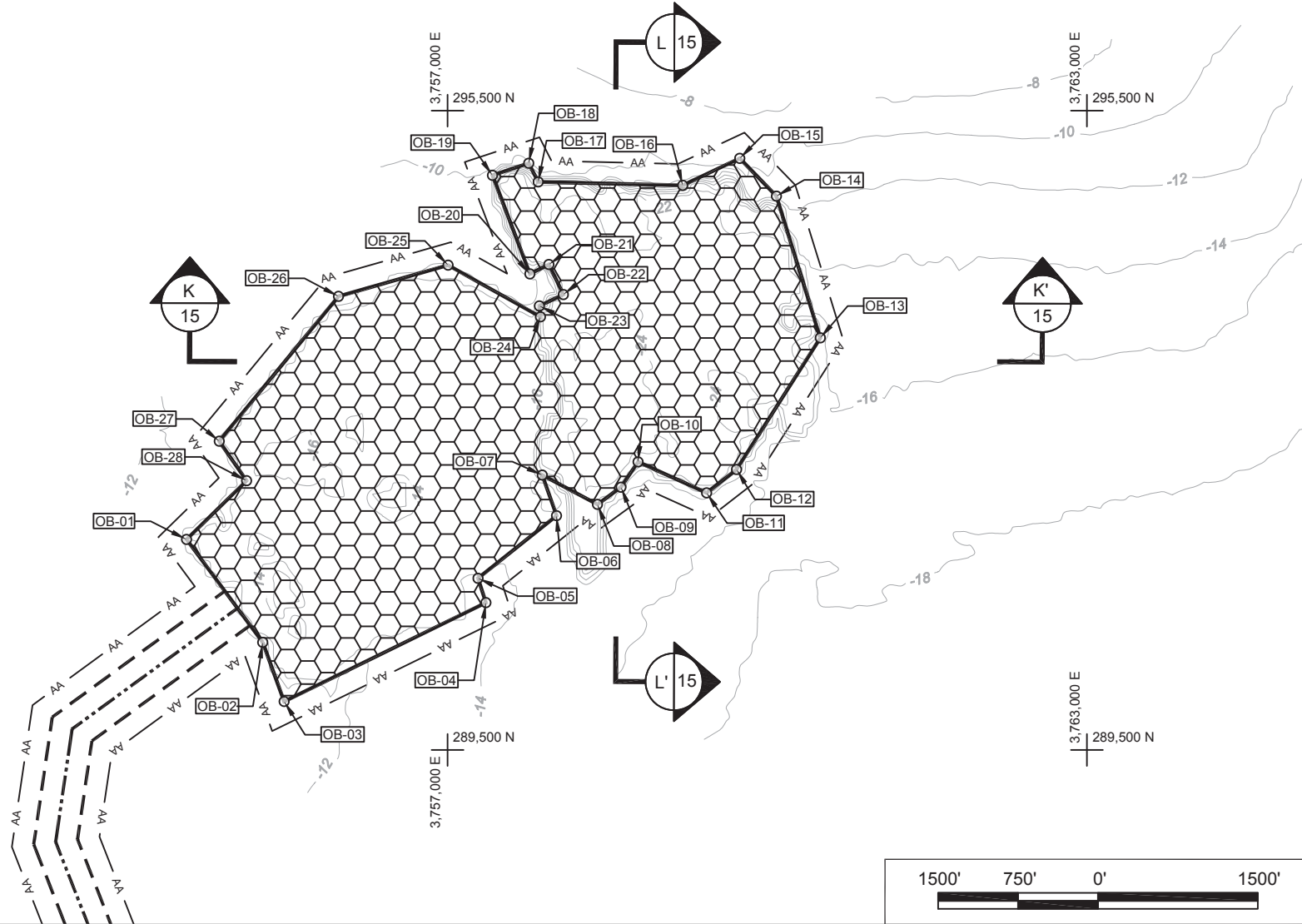
SCALE:  
H: 1" = 600'  
V: 1" = 30'



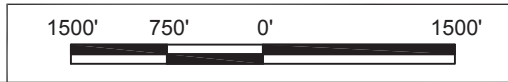
BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	BORROW AREA TYPICAL SECTIONS
JSD	SECTION DESIGNATIONS UPDATED	05/21 2019			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ					DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.

**NOTES:**

1. OVERBURDEN DISPOSAL AREA CONTAINED WITHIN THE PREVIOUSLY PERMITTED AND EXCAVATED BA-76 BORROW AREAS D1 AND S1 (MVN-2011-03148-ETT).
2. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
3. ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
4. BATHYMETRIC SURVEY DATA FROM BA-76 AS-BUILT SURVEY, APTIM, 2017.
5. SEE SHEET 22 FOR OVERBURDEN DISPOSAL AREA BOUNDARY COORDINATE TABLE.
6. SEE SHEET 16 FOR CONVEYANCE CORRIDOR DETAILS.



LEGEND	
	OVERBURDEN DISPOSAL
	CONVEYANCE CORRIDOR
	ALLOWABLE ANCHOR AREA
	BATHYMETRIC CONTOUR (APTIM, 2017)
	OVERBURDEN DISPOSAL AREA BOUNDARY COORDINATE



BY	DESCRIPTION	DATE
JSD	SECTION DESIGNATIONS UPDATED	05/21 2019

**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

STATE PROJECT NUMBER: BA-0197

FEDERAL PROJECT NUMBER: BA-0197

OVERBURDEN DISPOSAL AREA PLAN VIEW

DATE: OCTOBER 2018

SHEET 14 OF 23

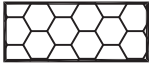


**NOTES:**

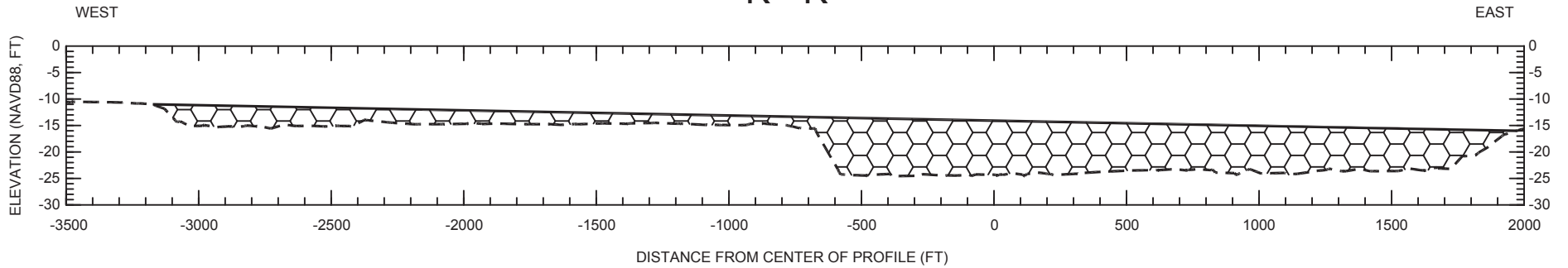
1. BATHYMETRIC SURVEY DATA FROM BA-76 AS-BUILT SURVEY, APTIM, 2017.
2. OVERBURDEN SHALL BE PLACED WITHIN THE EXCAVATION LIMITS OF THE PREVIOUSLY UTILIZED BA-76 BORROW AREAS D1 AND S1 (MVN-2011-03148-ETT).
3. VERTICAL TOLERANCE FOR THE OVERBURDEN PLACEMENT IS +1.0 FT ABOVE SURROUNDING GRADE BEYOND THE PERIMETER OF THE PRIOR EXCAVATION LIMITS.

**SCALE:**  
H: 1" = 600'  
V: 1" = 30'

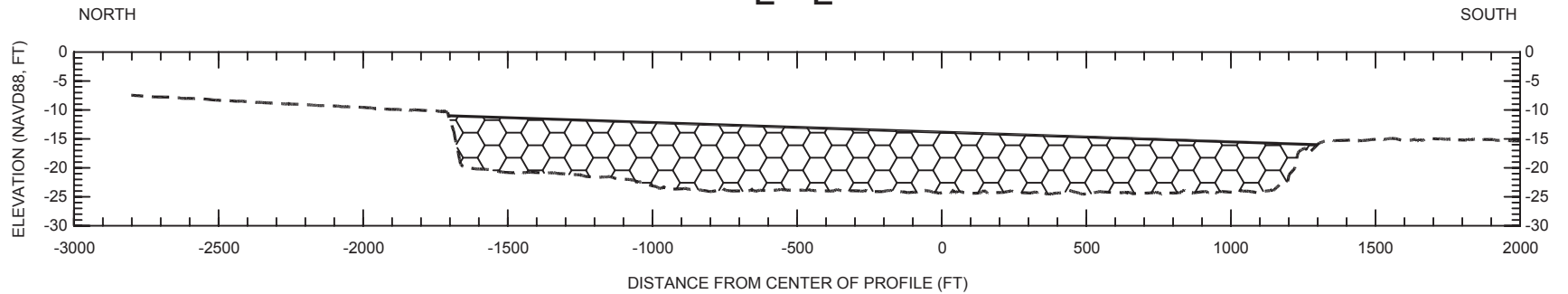
**LEGEND**

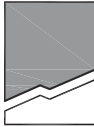
- EXISTING GRADE (APTIM, 2017)
-  OVERBURDEN DISPOSAL

**K - K'**



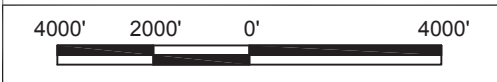
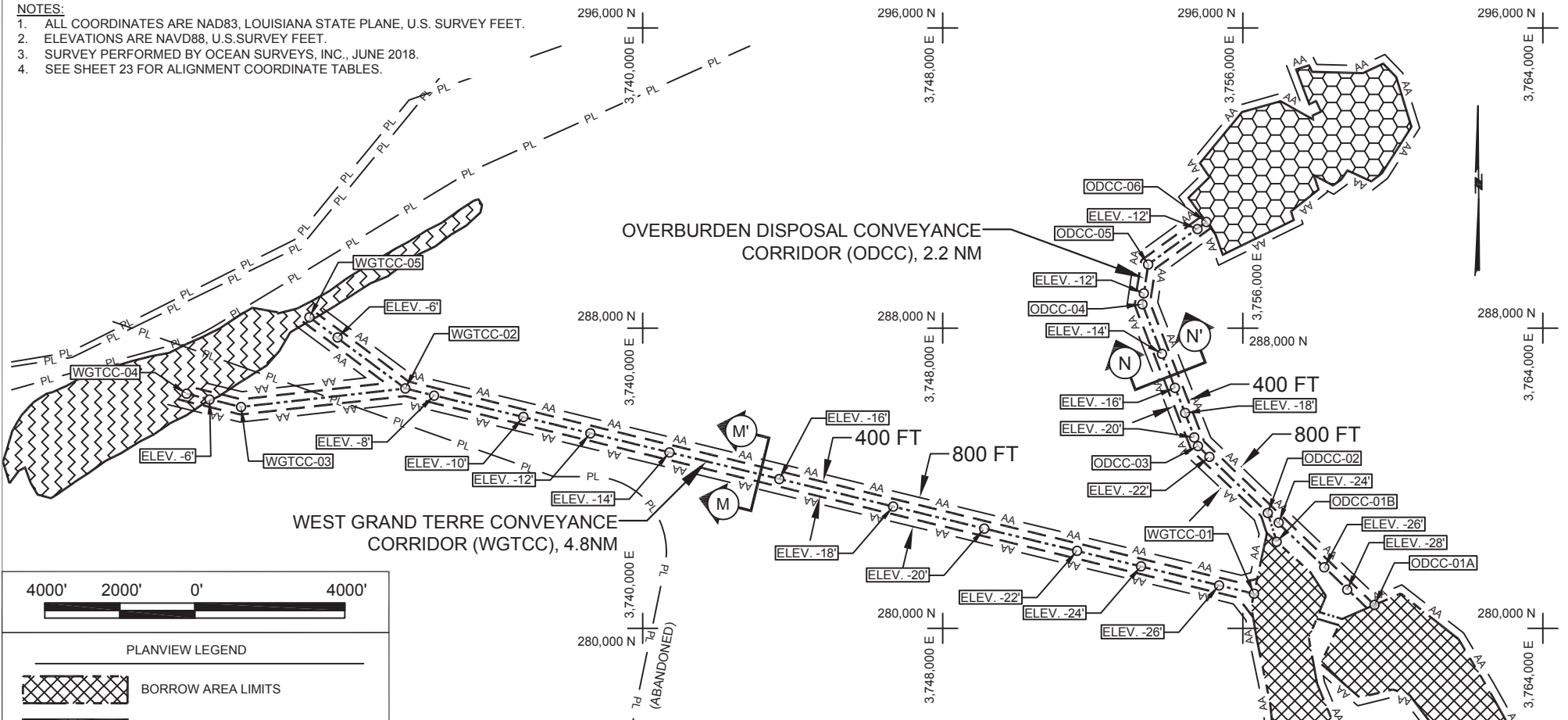
**L - L'**



BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	OVERBURDEN DISPOSAL AREA TYPICAL SECTIONS
JSD	SECTION DESIGNATIONS UPDATED	05/21 2019			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
					FEDERAL PROJECT NUMBER: BA-0197	SHEET 15 OF 23
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.		

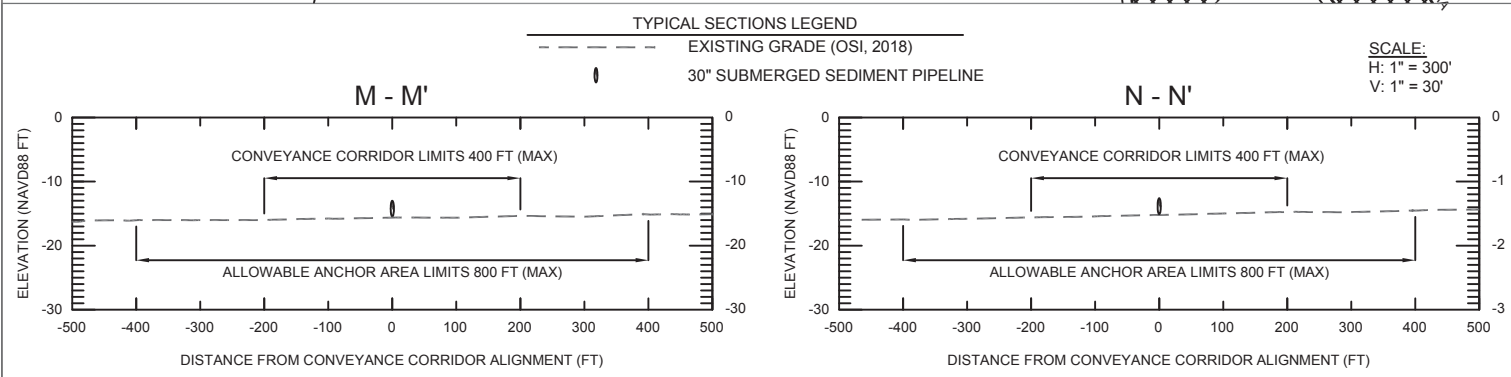
**NOTES:**

1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
2. ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
3. SURVEY PERFORMED BY OCEAN SURVEYS, INC., JUNE 2018.
4. SEE SHEET 23 FOR ALIGNMENT COORDINATE TABLES.

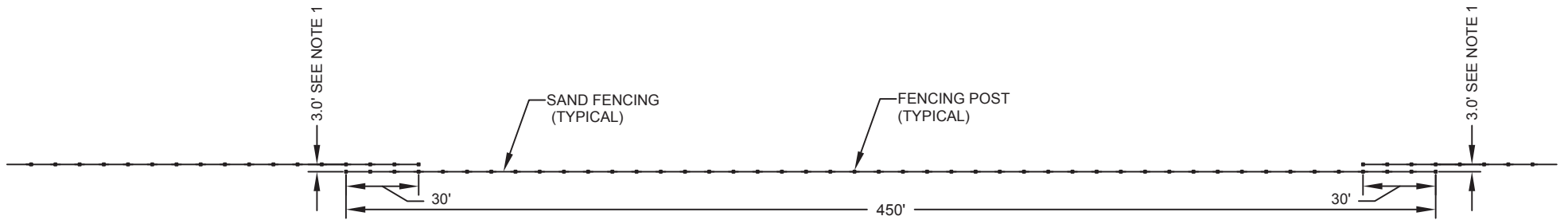


**PLANVIEW LEGEND**

	BORROW AREA LIMITS
	OVERBURDEN DISPOSAL AREA
	RESTORATION AREA
	CONVEYANCE CORRIDOR
	ALLOWABLE ANCHOR AREA
	POTENTIAL PIPELINE (CMD, 2010 & FUGRO, 2017)
	WEST GRAND TERRE CONVEYANCE CORRIDOR ALIGNMENT COORDINATE
	OVERBURDEN DISPOSAL CONVEYANCE CORRIDOR ALIGNMENT COORDINATE
	SEAFLOOR ELEVATION

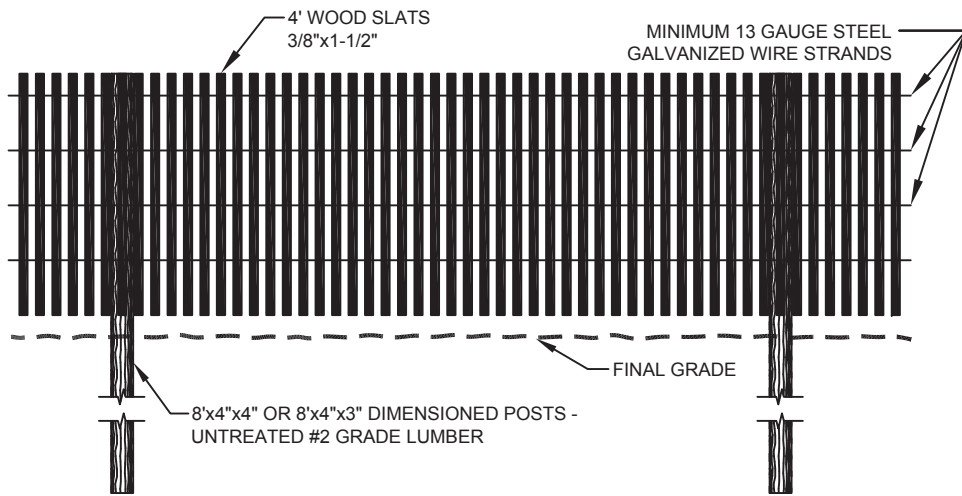


BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	CONVEYANCE CORRIDORS PLAN VIEW
JSD	ELEVATION DATA, COORDINATE GRID, AND TYPICAL SECTIONS ADDED	10/25 2018			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
JSD	UPDATE BA2 BOUNDARY, SECTION DESIGNATIONS UPDATED	05/21 2019			FEDERAL PROJECT NUMBER: BA-0197	SHEET 16 OF 23
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.		

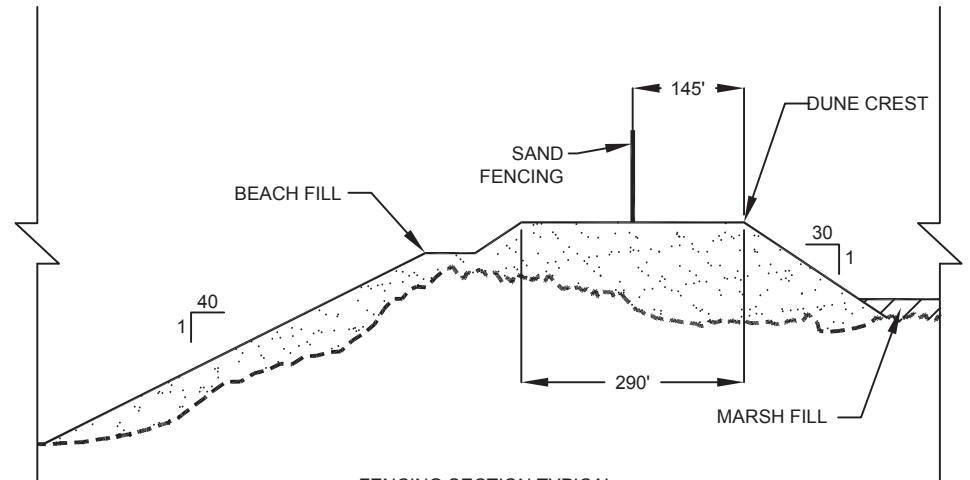


**NOTES:**  
 1. THE DISTANCE BETWEEN FENCES SHALL BE INCREASED FROM 3.0' TO 8.0' AT EVERY FIFTH GAP TO ALLOW ALL-TERRAIN VEHICLE ACCESS.

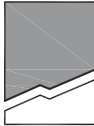
**FENCING GAPPING DIMENSIONS**  
 NOT TO SCALE

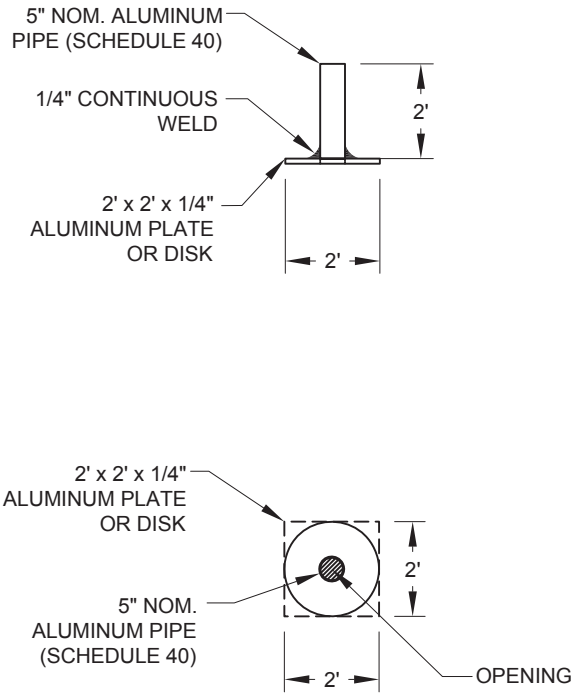


**FENCING DETAIL**  
 NOT TO SCALE

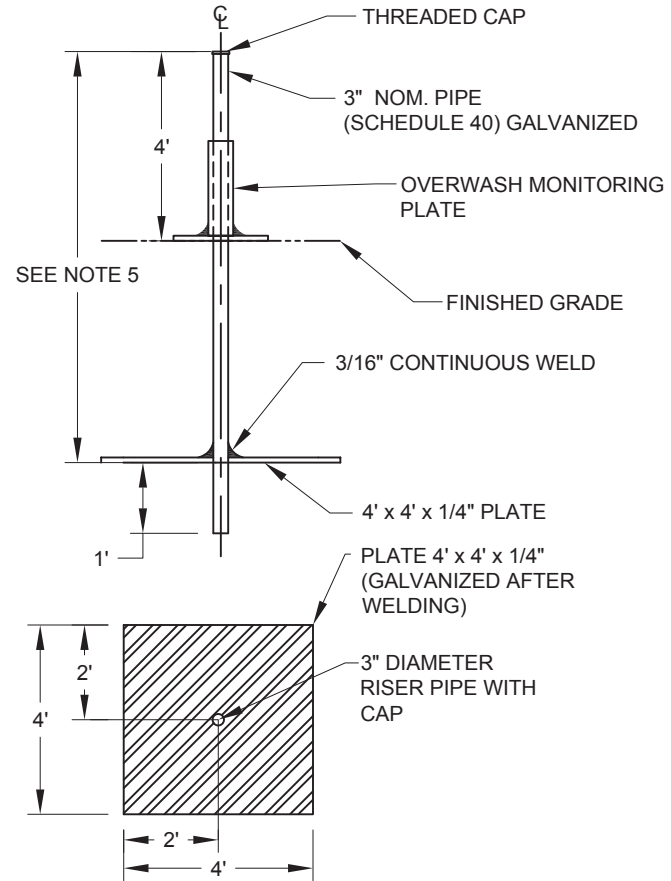


**FENCING SECTION TYPICAL**  
 NOT TO SCALE

BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	
					STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 17 OF 23



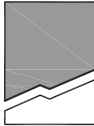
**OVERWASH MONITORING PLATE**  
(NOT TO SCALE)



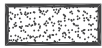
**SETTLEMENT PLATE**  
(NOT TO SCALE)

**SETTLEMENT/OVERWASH MONITORING SYSTEM NOTES:**

1. SETTLEMENT PLATES SHALL BE CONSTRUCTED USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. ALL SETTLEMENT PLATES SHALL BE SURVEYED WITHIN A DAY OF INSTALLATION AND WEEKLY THROUGHOUT THE DURATION OF THE PROJECT.
3. ALL SETTLEMENT PLATES MUST BE INSTALLED AND MAINTAINED WITHIN 10.5 DEGREES OF VERTICAL.
4. ALL SETTLEMENT PLATES SHALL BE MARKED WITH SURVEY FLAGGING.
5. LENGTH OF THE SETTLEMENT PLATE RISER PIPE SHALL BE SUCH THAT THE ELEVATION OF THE TOP CAP BE NO LESS THAN 4 FEET ABOVE MAXIMUM FINAL DESIGN GRADE FOR ITS LOCATION.
6. OVERWASH MONITORING PLATES SHALL BE FABRICATED USING 6061-TS GRADE ALUMINUM.

BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	SETTLEMENT / OVERWASH MONITORING SYSTEM DETAILS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 18 OF 23

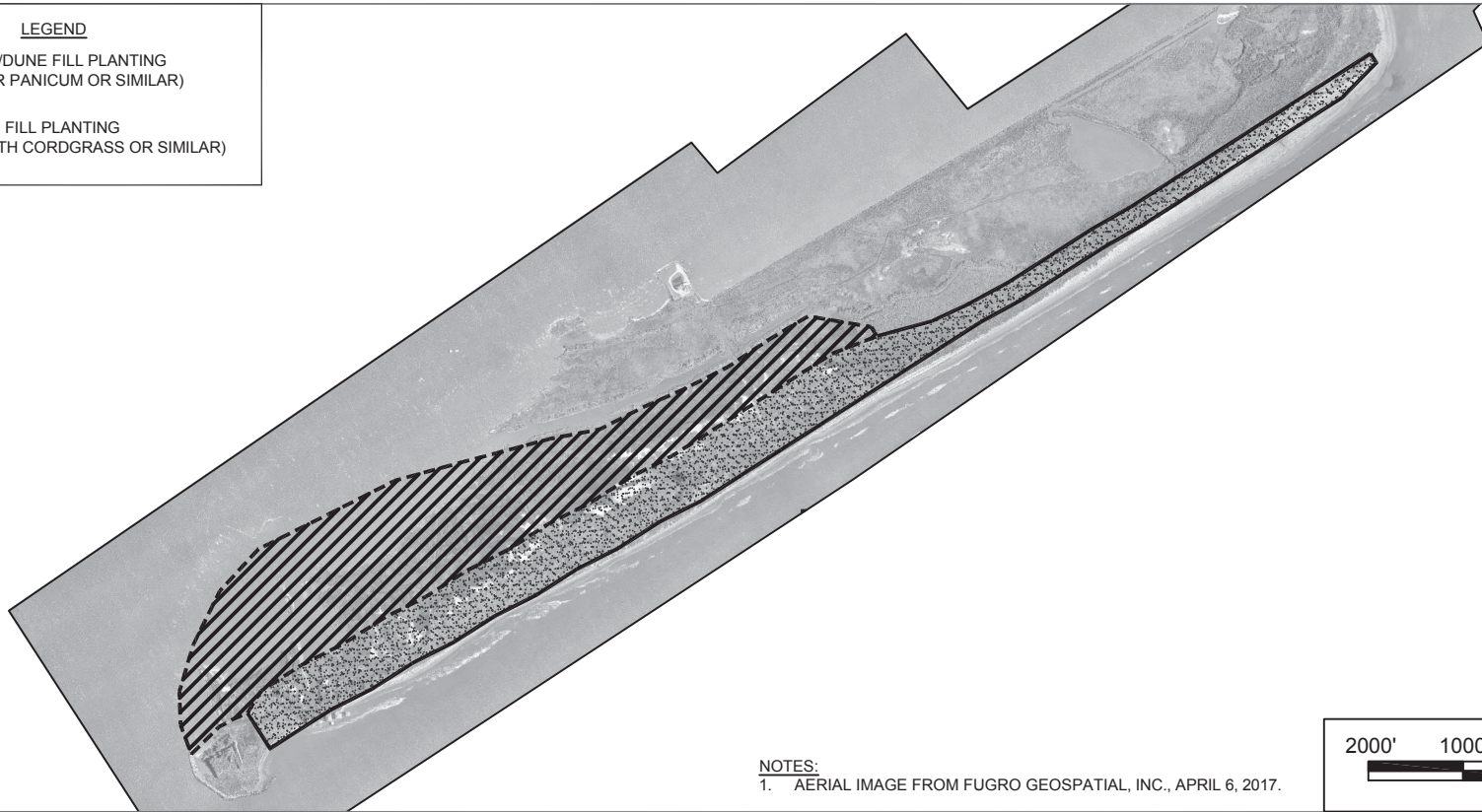
**LEGEND**



BEACH/DUNE FILL PLANTING  
(BITTER PANICUM OR SIMILAR)

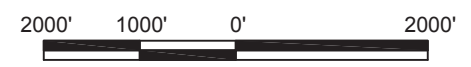


MARSH FILL PLANTING  
(SMOOTH CORDGRASS OR SIMILAR)



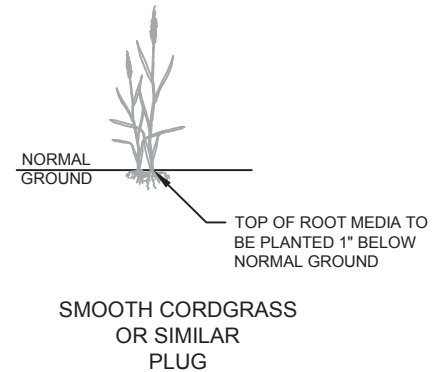
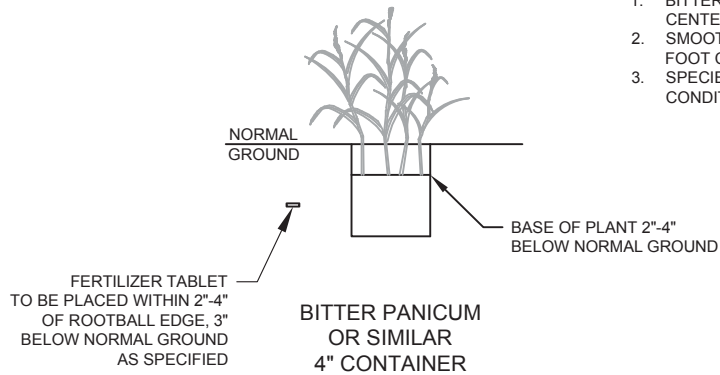
**NOTES:**

1. AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.

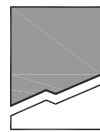


**NOTES:**

1. BITTER PANICUM PLANTS SHALL BE PLANTED ON SEVEN (7) FOOT CENTERS WITH ROWS TEN (10) FEET APART.
2. SMOOTH CORDGRASS PLANTS SHALL BE PLANTED ON THREE (3) FOOT CENTERS WITH ROWS THREE (3) FEET APART.
3. SPECIES OF PLANTS ARE SUBJECT TO CHANGE DUE TO SITE CONDITIONS AND / OR CONSTRUCTION VARIABLES.



BY	DESCRIPTION	DATE



**COASTAL ENGINEERING CONSULTANTS, INC.**  
PH: (225) 768-1982  
8570 ANSELMO LANE  
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
150 TERRACE AVENUE  
BATON ROUGE, LA 70802

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

VEGETATIVE PLANTING DETAILS

STATE PROJECT NUMBER: BA-0197

DATE: OCTOBER 2018

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.  
LA LICENSE NO. 30048

APPROVED BY: TRAVIS BYLAND, P.E.

FEDERAL PROJECT NUMBER: BA-0197

SHEET 19 OF 23

2000' 1000' 0' 2000'

**NOTES:**

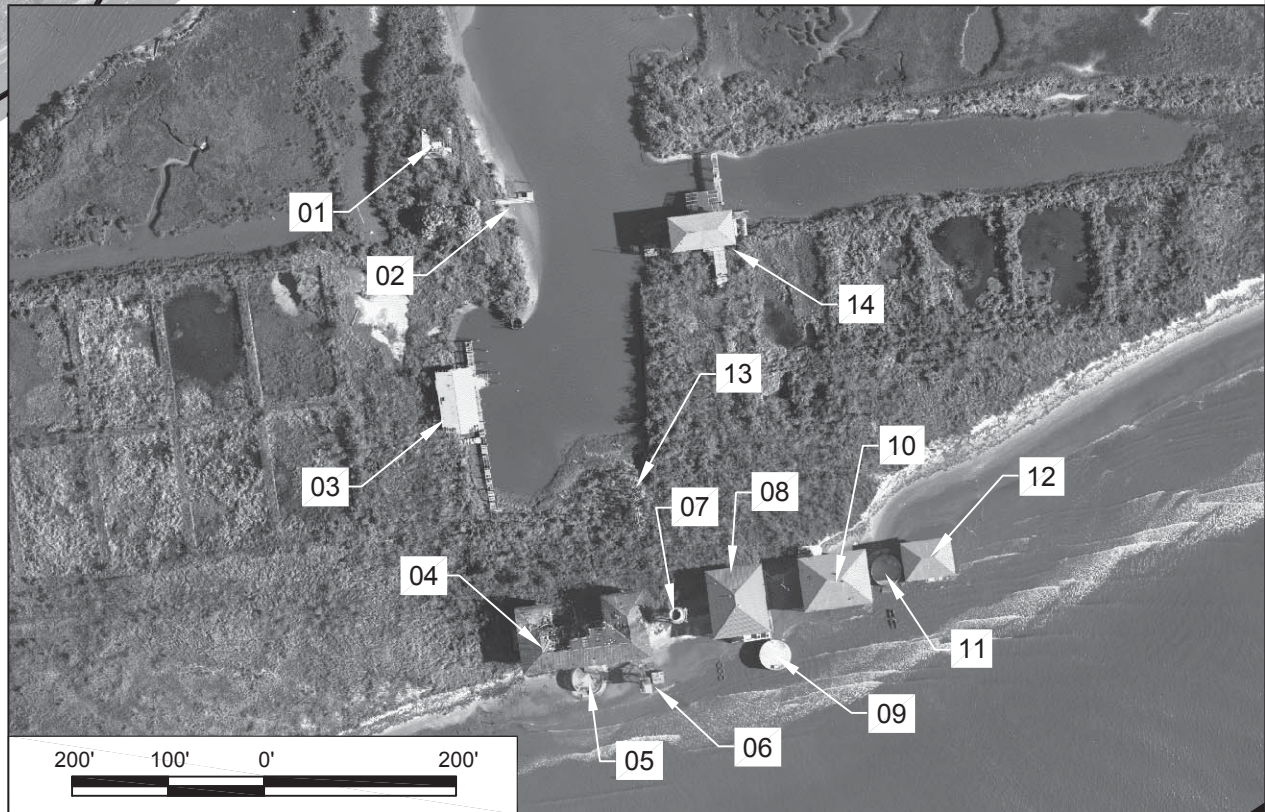
1. AERIAL IMAGE FROM FUGRO GEOSPATIAL, INC., APRIL 6, 2017.
2. ALL INFRASTRUCTURE REMOVAL IS WITHIN THE RESTORATION FILL EXTENTS.
3. ALL INFRASTRUCTURE DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REGULATIONS.

**INFRASTRUCTURE INDEX:**

- 01: PAVILLION
- 02: BOAT DOCK
- 03: NET SHED AND DOCK
- 04: MARINE LABORATORY
- 05: WATER TANK NO. 1
- 06: RADIO TOWER AND COMMUNICATIONS SHED
- 07: SALTWATER CISTERN
- 08: DORMITORY NO. 2
- 09: WATER TANK NO. 3
- 10: DORMITORY NO. 1
- 11: WATER TANK NO. 3
- 12: DUPLEX BUILDING
- 13: BOAT LIFT
- 14: MAINTENANCE SHOP AND DOCK

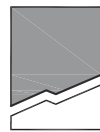
INSET VIEW EXTENTS

RESTORATION FILL EXTENTS



200' 100' 0' 200'

BY	DESCRIPTION	DATE



**COASTAL ENGINEERING CONSULTANTS, INC.**  
 PH: (225) 768-1982  
 8570 ANSELMO LANE  
 BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY  
 150 TERRACE AVENUE  
 BATON ROUGE, LA 70802

WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION

INFRASTRUCTURE DEMOLITION

STATE PROJECT NUMBER: BA-0197

DATE: OCTOBER 2018

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.  
 LA LICENSE NO. 30048

APPROVED BY: TRAVIS BYLAND, P.E.

FEDERAL PROJECT NUMBER: BA-0197

SHEET 20 OF 23

WEST GRAND TERRE RESTORATION AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
WGT-01	291,361.47	3,735,665.27	29° 17' 36.1723"N	89° 54' 23.3347"W
WGT-02	283,912.47	3,723,071.09	29° 16' 23.9664"N	89° 56' 46.5718"W

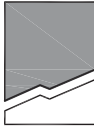
WEST GRAND TERRE RESTORATION AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
BL-01	291,352.07	3,736,098.26	29° 17' 36.0259"N	89° 54' 18.4465"W
BL-02	282,996.31	3,723,043.32	29° 16' 14.9008"N	89° 56' 47.0106"W

CONSTRUCTION ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
CAC-01	286,505.52	3,722,875.93	29° 16' 49.6581"N	89° 56' 48.4210"W
CAC-02	286,078.54	3,723,895.51	29° 16' 45.3092"N	89° 56' 36.9674"W
CAC-03	285,949.90	3,724,042.36	29° 16' 44.0182"N	89° 56' 35.3269"W
CAC-04	285,514.45	3,724,219.96	29° 16' 39.6864"N	89° 56' 33.3814"W
CAC-05	284,885.91	3,724,322.19	29° 16' 33.4522"N	89° 56' 32.3133"W

ROCK REVETMENT ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
RAC-01	286,339.91	3,724,622.78	29° 16' 47.8091"N	89° 56' 28.7200"W
RAC-02	286,014.22	3,723,968.93	29° 16' 44.6637"N	89° 56' 36.1472"W
RAC-03	285,554.51	3,723,489.98	29° 16' 40.1706"N	89° 56' 41.6178"W
RAC-04	285,015.93	3,723,223.69	29° 16' 34.8711"N	89° 56' 44.6981"W
RAC-05	284,554.82	3,723,087.68	29° 16' 30.3230"N	89° 56' 46.2967"W
RAC-06	284,270.53	3,723,097.15	29° 16' 27.5077"N	89° 56' 46.2287"W
RAC-07	284,222.85	3,723,114.72	29° 16' 27.0336"N	89° 56' 46.0368"W

SETTLEMENT/OVERWASH MONITORING SYSTEM COORDINATES				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SO-01	290,993.93	3,735,140.16	29° 17' 32.5988"N	89° 54' 29.3161"W
SO-02	289,915.51	3,733,455.81	29° 17' 22.1306"N	89° 54' 48.4871"W
SO-03	288,854.85	3,731,753.05	29° 17' 11.8398"N	89° 55' 07.8625"W
SO-04	287,400.53	3,729,129.02	29° 16' 57.7634"N	89° 55' 37.6936"W
SO-05	286,364.21	3,727,417.72	29° 16' 47.7125"N	89° 55' 57.1593"W
SO-06	285,370.01	3,725,679.46	29° 16' 38.0809"N	89° 56' 16.9225"W
SO-07	284,375.81	3,723,941.19	29° 16' 28.4486"N	89° 56' 36.6848"W
SO-08	288,160.54	3,729,438.05	29° 17' 05.2491"N	89° 55' 34.0989"W
SO-09	287,173.15	3,727,674.18	29° 16' 55.6890"N	89° 55' 54.1519"W
SO-10	286,317.91	3,725,859.97	29° 16' 47.4423"N	89° 56' 14.7541"W
SO-11	285,137.31	3,723,682.92	29° 16' 36.0176"N	89° 56' 39.4965"W

ROCK REVETMENT SETTLEMENT PLATE COORDINATES				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SP-01	287,093.72	3,726,292.93	29° 16' 55.0697"N	89° 56' 09.7587"W
SP-02	286,724.72	3,725,064.42	29° 16' 51.5651"N	89° 56' 23.6807"W
SP-03	286,402.49	3,724,426.72	29° 16' 48.4521"N	89° 56' 30.9252"W
SP-04	285,757.60	3,723,482.72	29° 16' 42.1818"N	89° 56' 41.6720"W
SP-05	285,352.00	3,723,231.00	29° 16' 38.1970"N	89° 56' 44.5696"W
SP-06	284,820.50	3,723,018.00	29° 16' 32.9613"N	89° 56' 47.0471"W
SP-07	284,067.82	3,723,013.87	29° 16' 25.5111"N	89° 56' 47.1966"W

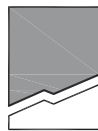
BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	ALIGNMENT AND COORDINATE TABLES
					STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER: BA-0197	SHEET 21 OF 23

ROCK REVETMENT SEGMENT "A" ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
RKA-01	286,137.91	3,723,896.13	29° 16' 45.8968"N	89° 56' 36.9522"W
RKA-02	286,079.00	3,723,778.00	29° 16' 45.3279"N	89° 56' 38.2941"W
RKA-03	285,636.00	3,723,371.00	29° 16' 40.9915"N	89° 56' 42.9501"W
RKA-04	285,068.00	3,723,091.00	29° 16' 35.4025"N	89° 56' 46.1891"W
RKA-05	284,573.00	3,722,945.00	29° 16' 30.5200"N	89° 56' 47.9052"W
RKA-06	284,223.17	3,722,956.65	29° 16' 27.0557"N	89° 56' 47.8214"W
RKA-07	283,912.47	3,723,071.09	29° 16' 23.9664"N	89° 56' 46.5718"W

ROCK REVETMENT SEGMENT "B" ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
RKB-01	287,093.72	3,726,292.93	29° 16' 55.0697"N	89° 56' 09.7587"W
RKB-02	287,000.00	3,725,934.00	29° 16' 54.1853"N	89° 56' 13.8244"W
RKB-03	286,802.00	3,725,217.00	29° 16' 52.3118"N	89° 56' 21.9473"W
RKB-04	286,450.00	3,724,522.00	29° 16' 48.9110"N	89° 56' 29.8428"W
RKB-05	286,137.91	3,723,896.13	29° 16' 45.8968"N	89° 56' 36.9522"W

ROCK REVETMENT SPUR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
RKS-01	283,465.19	3,724,024.00	29° 16' 19.4245"N	89° 56' 35.8745"W
RKS-02	283,561.99	3,723,871.09	29° 16' 20.4011"N	89° 56' 37.5877"W
RKS-03	283,753.53	3,724,014.08	29° 16' 22.2799"N	89° 56' 35.9471"W
RKS-04	284,041.86	3,723,931.23	29° 16' 25.1441"N	89° 56' 36.8130"W

OVERBURDEN DISPOSAL AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
OB-01	291,476.00	3,754,551.00	29° 17' 34.9297"N	89° 50' 50.0545"W
OB-02	290,510.00	3,755,266.00	29° 17' 25.2756"N	89° 50' 42.1222"W
OB-03	289,955.00	3,755,467.00	29° 17' 19.7560"N	89° 50' 39.9340"W
OB-04	290,883.00	3,757,360.00	29° 17' 28.6981"N	89° 50' 18.4219"W
OB-05	291,111.00	3,757,286.00	29° 17' 30.9645"N	89° 50' 19.2240"W
OB-06	291,699.00	3,758,023.00	29° 17' 36.6898"N	89° 50' 10.8149"W
OB-07	292,080.00	3,757,889.00	29° 17' 40.4785"N	89° 50' 12.2719"W
OB-08	291,805.00	3,758,407.00	29° 17' 37.6894"N	89° 50' 06.4630"W
OB-09	291,966.00	3,758,628.00	29° 17' 39.2545"N	89° 50' 03.9436"W
OB-10	292,204.00	3,758,788.00	29° 17' 41.5896"N	89° 50' 02.1017"W
OB-11	291,913.00	3,759,431.00	29° 17' 38.6258"N	89° 49' 54.8837"W
OB-12	292,132.00	3,759,712.00	29° 17' 40.7571"N	89° 49' 51.6781"W
OB-13	293,368.00	3,760,498.00	29° 17' 52.8899"N	89° 49' 42.6190"W
OB-14	294,698.00	3,760,086.00	29° 18' 06.1088"N	89° 49' 47.0745"W
OB-15	295,052.00	3,759,742.00	29° 18' 09.6577"N	89° 49' 50.9069"W
OB-16	294,799.00	3,759,207.00	29° 18' 07.2227"N	89° 49' 56.9863"W
OB-17	294,831.00	3,757,851.00	29° 18' 07.7150"N	89° 50' 12.2952"W
OB-18	295,006.00	3,757,762.00	29° 18' 09.4588"N	89° 50' 13.2745"W
OB-19	294,893.00	3,757,422.00	29° 18' 08.3842"N	89° 50' 17.1309"W
OB-20	293,968.00	3,757,773.00	29° 17' 59.1824"N	89° 50' 13.3034"W
OB-21	294,056.00	3,757,951.00	29° 18' 00.0305"N	89° 50' 11.2803"W
OB-22	293,774.00	3,758,087.00	29° 17' 57.2215"N	89° 50' 09.7860"W
OB-23	293,667.00	3,757,862.00	29° 17' 56.1914"N	89° 50' 12.3427"W
OB-24	293,565.00	3,757,872.00	29° 17' 55.1804"N	89° 50' 12.2448"W
OB-25	294,050.00	3,757,005.00	29° 18' 00.0933"N	89° 50' 21.9644"W
OB-26	293,757.00	3,755,977.00	29° 17' 57.3255"N	89° 50' 33.6167"W
OB-27	292,398.00	3,754,858.00	29° 17' 44.0170"N	89° 50' 46.4527"W
OB-28	292,027.00	3,755,114.00	29° 17' 40.3116"N	89° 50' 43.6162"W

BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	ALIGNMENT AND COORDINATE TABLES
					STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER: BA-0197	SHEET 22 OF 23



**BORROW AREA 1 BOUNDARY**

PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
BA1-01	282,530.19	3,756,641.71	29° 16' 06.1081"N	89° 50' 27.7613"W
BA1-02	280,676.19	3,756,246.06	29° 15' 47.8068"N	89° 50' 32.5004"W
BA1-03	280,413.86	3,756,252.90	29° 15' 45.2092"N	89° 50' 32.4617"W
BA1-04	279,644.58	3,756,388.17	29° 15' 37.5768"N	89° 50' 31.0477"W
BA1-05	278,012.08	3,756,727.47	29° 15' 21.3734"N	89° 50' 27.4575"W
BA1-06	276,320.19	3,756,908.69	29° 15' 04.6024"N	89° 50' 25.6607"W
BA1-07	275,123.39	3,756,975.35	29° 14' 52.7470"N	89° 50' 25.0843"W
BA1-08	273,595.84	3,756,948.37	29° 14' 37.6296"N	89° 50' 25.6134"W
BA1-09	272,463.99	3,757,336.98	29° 14' 26.3756"N	89° 50' 21.3939"W
BA1-10	272,859.97	3,758,209.34	29° 14' 30.1826"N	89° 50' 11.4897"W
BA1-11	273,852.50	3,759,013.94	29° 14' 39.9032"N	89° 50' 02.2620"W
BA1-12	274,700.00	3,759,123.45	29° 14' 48.2782"N	89° 50' 00.9008"W
BA1-13	275,247.50	3,758,794.49	29° 14' 53.7404"N	89° 50' 04.5330"W
BA1-14	277,111.92	3,758,563.04	29° 15' 12.2258"N	89° 50' 06.8703"W
BA1-15	278,514.08	3,757,985.75	29° 15' 26.1801"N	89° 50' 13.1799"W
BA1-16	279,740.67	3,757,758.77	29° 15' 38.3512"N	89° 50' 15.5614"W
BA1-17	280,865.86	3,758,216.89	29° 15' 49.4299"N	89° 50' 10.2239"W
BA1-18	281,509.74	3,757,791.63	29° 15' 55.8585"N	89° 50' 14.9297"W

**BORROW AREA 2 BOUNDARY**

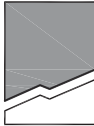
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
BA2-01	280,244.58	3,758,635.64	29° 15' 43.2258"N	89° 50' 05.5883"W
BA2-02	279,061.97	3,758,079.49	29° 15' 31.5914"N	89° 50' 12.0410"W
BA2-03	278,157.47	3,759,120.31	29° 15' 22.5033"N	89° 50' 00.4254"W
BA2-04	278,371.10	3,759,991.45	29° 15' 24.5050"N	89° 49' 50.5603"W
BA2-05	278,236.07	3,760,437.98	29° 15' 23.1103"N	89° 49' 45.5398"W
BA2-06	277,181.12	3,761,239.76	29° 15' 12.5634"N	89° 49' 36.6457"W
BA2-07	274,998.26	3,762,761.89	29° 14' 50.6585"N	89° 49' 19.7907"W
BA2-08	276,065.80	3,764,261.86	29° 15' 01.1286"N	89° 49' 02.6995"W
BA2-09	276,502.05	3,763,967.28	29° 15' 05.4855"N	89° 49' 05.9594"W
BA2-10	277,000.24	3,763,321.73	29° 15' 10.5014"N	89° 49' 13.1719"W
BA2-11	279,716.27	3,761,750.34	29° 15' 37.5917"N	89° 49' 30.5058"W
BA2-12	280,928.98	3,760,210.32	29° 15' 49.7964"N	89° 49' 47.7108"W

**WEST GRAND TERRE CONVEYANCE CORRIDOR ALIGNMENT**

PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
WGTCC-01	280,924.47	3,756,299.11	29° 15' 50.2576"N	89° 50' 31.8650"W
WGTCC-02	286,393.81	3,733,670.18	29° 16' 47.2436"N	89° 54' 46.5594"W
WGTCC-03	285,902.12	3,729,290.87	29° 16' 42.9111"N	89° 55' 36.0738"W
WGTCC-04	286,253.41	3,727,838.12	29° 16' 46.5647"N	89° 55' 52.4380"W
WGTCC-05	288,291.60	3,731,114.23	29° 17' 06.3423"N	89° 55' 15.1542"W

**OVERBURDEN DISPOSAL CONVEYANCE CORRIDOR ALIGNMENT**

PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
ODCC-01A	280,625.85	3,759,512.17	29° 15' 46.8864"N	89° 49' 55.6370"W
ODCC-01B	282,307.46	3,756,903.37	29° 16' 03.8696"N	89° 50' 24.8401"W
ODCC-02	283,074.85	3,756,666.51	29° 16' 11.4964"N	89° 50' 27.4012"W
ODCC-03	284,858.87	3,754,803.58	29° 16' 29.3957"N	89° 50' 48.1718"W
ODCC-04	288,637.64	3,753,322.75	29° 17' 06.9909"N	89° 51' 04.3388"W
ODCC-05	289,696.53	3,753,476.81	29° 17' 17.4529"N	89° 51' 02.4446"W
ODCC-06	290,830.32	3,755,028.80	29° 17' 28.4769"N	89° 50' 44.7537"W

BY	DESCRIPTION	DATE	 <b>COASTAL ENGINEERING CONSULTANTS, INC.</b> PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	WEST GRAND TERRE BEACH NOURISHMENT AND STABILIZATION	ALIGNMENT AND COORDINATE TABLES
JSD	BORROW AREA 2 BOUNDARY COORDINATES AND OVERBURDEN CONVEYANCE CORRIDOR ALIGNMENT UPDATE	05/21 2019			STATE PROJECT NUMBER: BA-0197	DATE: OCTOBER 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LA LICENSE NO. 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: BA-0197	SHEET 23 OF 23

1. Activities authorized under this general permit shall not be used for piecemeal work and shall be applied to single and complete projects. All components of a single and complete project shall be treated together as constituting one single and complete project. All planned phases of multi-phased projects shall be treated together as constituting one single and complete project. This general permit shall not be used for any activity that is part of an overall project for which an individual permit is required.
2. No activity is authorized under this general permit which may adversely affect significant cultural resources listed or eligible for listing in the National Register of Historic Places until the requirements for Section 106 of the National Historic Preservation Act are met. Upon discovery of the presence of previously unknown historic and/or prehistoric cultural resources, all work must cease and the permittee must notify the State Historic Preservation Office and the Corps of Engineers. The authorization is suspended until it is determined whether or not the activity will have an adverse effect on cultural resources. The authorization may be reactivated or modified through specific conditions if necessary, if it is determined that the activity will have no adverse effect on cultural resources. The PGP authorization will be revoked if it is determined that cultural resources would be adversely affected, and an individual permit may be necessary.
3. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein. The permittee will, at his or her expense, install and maintain any safety lights, signals, and signs prescribed by the United States Coast Guard, through regulations or otherwise, on authorized facilities or on equipment used in performing work under the authorization.
4. No activity may substantially disrupt the movement of those species of aquatic life indigenous to the water body, including those species which normally migrate through the area, unless the activity's primary purpose is to block or impound water.
5. If the **authorized** activity involves the installation of aerial transmission lines, submerged cable, or submerged pipelines across navigable waters of the United States the following is applicable:

The National Ocean Service (NOS) has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Your notification of completion must include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used). Notification to NOS will be sent to the following address: National Ocean Service, Office of Coast Survey, N/CS261, 1315 East West Highway, Silver Spring, Maryland 20910-3282.

6. For pipelines under an anchorage or a designated fairway in the Gulf of Mexico the following is applicable: The NOS has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Within 30 days of completion of the pipeline, 'as built' drawings certified by a professional engineer registered in Louisiana or by a registered surveyor shall be furnished to this office, the Commander (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, and to the Director, National Ocean Service, Office of Coast Survey, N/CS261, 1315 East West Highway, Silver Spring, Maryland 20910-3282. The plans must include the location, configuration and actual burial depth of the completed pipeline project.

7. If the **authorized** 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 (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, about 1 month before you plan to start work. Telephone inquiries can be directed to the Eighth Coast Guard District, Waterways Management at (504) 671-2107.

8. All activities authorized herein shall, if they involve, during their construction or operation, any discharge of pollutants into waters of the United States, be at all times consistent with applicable water quality standards, effluent limitations and standards of performance, prohibitions, pretreatment standards and management practices established pursuant to the Clean Water Act (PL 92-500:86 Stat 816), or pursuant to applicable state and local laws.

9. Substantive changes to the Louisiana Coastal Resources Program may require immediate suspension and revocation of this permit in accordance with 33 CFR 325.7.

10. Irrespective of whether a project meets the other conditions of this permit, the Corps of Engineers retains discretionary authority to require an individual Department of the Army permit when circumstances of the proposal warrant this requirement.

11. Any individual authorization granted under this permit may be modified, suspended, or revoked in whole or in part if the Secretary of the Army or his authorized representative determines that there has been a violation of any of the terms or conditions of this permit or that such action would otherwise be in the public interest.

12. The Corps of Engineers may suspend, modify, or revoke this general permit if it is found in the public interest to do so.

13. Activities proposed for authorization under the PGP must comply with all other necessary federal, state, and/or local permits, licenses, or approvals. Failure to do so would result in a violation of the terms and conditions of PGP.

14. The permittee shall permit the District Commander or his authorized representative(s) or designee(s) to make periodic inspections of the project site(s) and disposal site(s) if different from the project site(s) at any time deemed necessary in order to assure that the activity being performed under authority of this permit is in accordance with the terms and conditions prescribed herein.

15. This general permit does not convey any property rights, either in real estate or material, or any exclusive privileges; and it does not authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations nor does it obviate the requirements to obtain state or local assent required by law for the activity authorized herein.

16. In issuing authorizations under this permit, the federal government will rely upon information and data supplied by the applicant. If, subsequent to the issuance of an authorization, such information and data prove to be false, incomplete, or inaccurate, the authorization may be modified, suspended, or revoked, in whole or in part.

17. For activities resulting in sewage generation at the project site, such sewage shall be processed through a municipal sewage treatment system or, in areas where tie-in to a municipal system is not practical, the on-site sewerage system must be approved by the local parish sanitarian before construction.

18. Any modification, suspension, or revocation of the PGP, or any individual authorization granted under this permit, will not be the basis for any claim for damages against the United States.

19. Additional conditions deemed necessary to protect the public interest may be added to the general permit by the District Commander at any time. If additional conditions are added, the public will be advised by public notice. Individual authorizations under the PGP may include special conditions deemed necessary to ensure minimal impact and compliance with the PGP.

20. The PGP is subject to periodic formal review by MVN and OCM in coordination with the Environmental Protection Agency, US Fish and Wildlife Service, the National Marine Fisheries Service, and the Louisiana Department of Wildlife and Fisheries. Comments from reviewing agencies will be considered in determination as to whether modifications to the general permit are needed. Should the District Commander make a determination not to incorporate a change proposed by a reviewing agency, after normal negotiations between the respective agencies, the District Commander will explain in writing to the reviewing agency the basis and rationale for his decision.

21. CEMVN retains discretion to review the PGP, its terms, conditions, and processing procedures, and decide whether to modify, reissue, or revoke the permit. If the PGP is not modified or reissued within 5 years of its effective date, it automatically expires and becomes null and void.

22. 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.

23. 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 as described in Special Condition 25 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.

24. 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.

25. If you sell the property associated with this permit, you must provide this office with a copy of the permit and a letter noting your agreement to transfer the permit to the new owner and the new owner's agreement to accept the permit and abide by all conditions of the permit. This letter must be signed by both parties.

26. Many local governing bodies have instituted laws and/or ordinances in order to regulate dredge and/or fill activities in floodplains to assure maintenance of floodwater storage capacity and avoid disruption of drainage patterns that may affect surrounding properties. Your project involves dredging and/or placement of fill; therefore, you must contact the local municipal and/or parish governing body regarding potential impacts to floodplains and compliance of your proposed activities with local floodplain ordinances, regulations or permits.

27. In issuing authorizations under this permit, the federal government does not assume any liability for: damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes; 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; damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit, and; design or construction deficiencies associated with the permitted work.



## **AVOIDANCE AND MINIMIZATION MEASURES FOR PIPING PLOVERS FOR SHORELINE ACTIVITIES IN LOUISIANA**

- Do not disturb foraging or roosting piping plovers to the maximum extent practicable. The project area (i.e., operational site, access points, travel corridors, staging areas, etc.) should be surveyed by a qualified biologist for the presence of piping plovers or optimal habitat features (i.e., inlets, bayside sand and mud flats, tidal pools, and wrack lines). Educate personnel on avoiding those areas being utilized by the birds.
- When piping plovers are identified, vehicle and foot traffic should not occur within 150 feet from the birds or within 10 feet optimal habitat features (even when birds are not present). The recommended buffers should be maintained for the duration of the work activities even if the birds depart or relocate. Personnel and vehicles should follow existing/established travel and access corridors and maintain slow speeds to avoid disturbing birds.
- Stay 500 feet or more away from high tide roosting areas, including large flocks of shorebirds when possible, as piping plovers may occur in mixed flocks. If birds in the area are repeatedly being flushed (i.e., flying away), then you are too close and need to back away.
- Designate access points and travel corridors away from known foraging and roosting areas and keep all personnel, vehicles, and equipment within those designated corridors to minimize disturbance to birds and beach topographic alterations.
- Avoid driving up and down the shoreline to the maximum extent practicable to minimize disturbance to birds and beach topographic alterations. Keep all personnel, vehicles, and equipment within the designated work area/project footprint and access corridors.
- Use low-pressure tire (10 psi) or tracked vehicles (e.g., ATVs, dozers, etc.) or consult with a qualified biologist to avoid and minimize beach topographic alterations.
- Do not block major egress points in channels, rivers, passes, and bays to avoid disturbance to natural coastal processes.
- Staging areas and waste collection areas should be located to avoid beaches, dunes, inlets, and ephemeral tidal pools.
- Maintain a clean worksite and remove all trash and work-related debris on a daily basis.
- Avoid disturbing the wrack line during project work or while traveling to and from the project site. If the wrack line must be crossed by equipment or vehicles, gently rake the wrack out of the way to establish a designated travel corridor for crossing the wrack line. Restore the wrack to its original configuration once access across it is no longer needed.
- Avoid disturbing bay side sand and mud flats to the maximum extent practicable.
- Avoid impacts to dune systems, both vegetated and non-vegetated, including trampling any dune vegetation. Use existing designated travel and access corridors at all times. If necessary, establish a buffer with flagging from the toe of the slope of the dune to a distance of 10 feet. Where vegetation extends off the dune onto the beach, the buffer should extend 10 from the vegetation.
- Do not fly aircraft below 500 feet near bird concentration areas (i.e., foraging and roosting areas).
- Avoid hovering or landing aircraft near dunes and bird concentration areas (i.e., foraging and roosting areas).
- Restore beach topography and the wrack line to their natural pre-project conditions to the maximum extent practicable.

## **STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES**

During in-water work in areas that potentially support manatees, all personnel associated with the project shall be instructed and aware of the potential presence of manatees, manatee speed zones, and the need to avoid collisions with, and injury to, manatee. All personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel shall be instructed not to attempt to feed or otherwise interact with the animal.

All on-site personnel are responsible for observing water-related activities for the presence of manatee(s). To minimize potential impacts to manatees in areas of their potential presence, the permittee shall insure the following are adhered to:

- All work, equipment, and vessel operation shall cease if a manatee is spotted within a 50-foot radius (buffer zone) of the active work area. Once the manatee has left the buffer zone on its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings of manatee(s) in the buffer zone, in-water work can resume under careful observation for manatee(s).
- If a manatee(s) is sighted in or near the project area, all vessels associated with the project shall operate at “no wake/idle” speeds within the construction area and at all times while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom. Vessels shall follow routes of deep water whenever possible.
- If used, siltation or turbidity barriers shall be properly secured, made of material in which manatees cannot become entangled, and be monitored to avoid manatee entrapment or impeding their movement.
- Temporary signs concerning manatees shall be posted prior to and during all in-water project activities and removed upon completion. Each vessel involved in construction activities shall display at the vessel control station or in a prominent location, visible to all employees operating the vessel, a temporary sign at least 8½ " X 11" reading language similar to the following: “CAUTION BOATERS: MANATEE AREA/ IDLE SPEED IS REQUIRED IN CONSTRUCTION AREA AND WHERE THERE IS LESS THAN FOUR FOOT BOTTOM CLEARANCE WHEN MANATEE IS PRESENT”. A second temporary sign measuring 8½ " X 11" shall be posted at a location prominently visible to all personnel engaged in water-related activities and shall read language similar to the following: “CAUTION: MANATEE AREA/ EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION”.
- Collisions with, injury to, or sightings of manatees shall be immediately reported to the U.S. Fish and Wildlife Service’s, Louisiana Ecological Services Office (337/291-3100) and the Louisiana Department of Wildlife and Fisheries, Natural Heritage Program (225/765-2821). Please provide the nature of the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible.