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STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

RABBIT ISLAND RESTORATION
SHORELINE PROTECTION
CS-0080
CAMERON PARISH

LICENSURE CLASSIFICATION REQUIREMENTS
MAJOR CLASSIFICATION: HEAVY CONSTRUCTION AND/OR COASTAL RESTORATION AND HABITAT ENHANCEMENT

STATE OF LOUISIANA
ZACHARY J. ROMAINE
License No. 45158
PROFESSIONAL ENGINEER
5/23/23

REV.	DATE	DESCRIPTION	BY

ROYAL engineering possibilities.
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
635 CAJUNDOME BOULEVARD
LAFAYETTE, LOUISIANA 70506

TITLE SHEET

DESIGNED BY: ZR
APPROVED BY: ZR

RABBIT ISLAND RESTORATION SHORELINE PROTECTION

STATE PROJECT NUMBER: CS-0080
DRAWN BY: REC

DATE: MAY 2023

GENERAL NOTES

1. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. SURVEY FEET (FEET), GEOID 12B. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET)
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE SITE. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM, AS WELL AS AT THE PROJECT SITE. NO DREDGING WILL BE ALLOWED FOR EQUIPMENT ACCESS OR PERFORMANCE OF THE WORK.
3. THE CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL AT LEAST 5 WORKING DAYS PRIOR TO MOBILIZATION.
4. THE PLANS AND BID DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED IN ONE IS AS BINDING AS IF REQUIRED BY THE OTHER. ALL CLARIFICATIONS, INTERPRETATIONS, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS WILL BE ISSUED BY THE ENGINEER, IF NECESSARY.
5. THE ELEVATIONS SHOWN ON THE PLANS ARE BASED ON SURVEYS PERFORMED BY T. BAKER SMITH NOVEMBER 2021. THE ALIGNMENT OF THE BREAKWATER MAY BE REVISED BY THE ENGINEER BEFORE CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS BASED ON THE RESULTS OF THE CONTRACTOR'S INITIAL SURVEY.
6. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) WERE CALCULATED FROM NOAA GAUGE 8768094 IN THE CALCASIEU SHIP CHANNEL.
7. AVOID IMPACT TO EXISTING VEGETATION. NO EQUIPMENT WILL BE ALLOWED ON EXISTING MARSH AT ANY TIME.

UNIT ABBREVIATIONS:

CY	CUBIC YARD
EA	EACH
EL	ELEVATION
FT	FOOT
LF	LINEAR FOOT
LS	LUMP SUM
NTS	NOT TO SCALE
SF	SQUARE FOOT
SY	SQUARE YARD

LEGEND - PLAN VIEWS

— — —	SURVEY TRANSECT
▫	GABION BASKET

LEGEND - SECTION VIEWS

— — —	EXISTING WATER BOTTOM
	GABION BASKET

SURVEY MONUMENT LAYOUT / STAGING AREA

NTS

SURVEY MONUMENT	GEOID	ELEVATION	NORTHING	EASTING
REFUGE2	12B	3.213'	503,503.36	2,609,406.24
C523-SM-02	12B	2.514'	511,302.46	2,625,699.14

STAGING AREA	NORTHING	EASTING
1	497,265.23	2,639,975.15
2	497,277.87	2,640,317.74
3	495,790.61	2,640,388.16
4	495,785.69	2,640,093.30

STATE OF LOUISIANA
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SUMMARY OF ESTIMATED QUANTITIES

Base Bid			
Item No.	Description	Unit	Estimated Quantity
1	Mobilization and Demobilization	LS	1
2	Surveys	LS	1
3	Non-Woven Geotextile Fabric	SY	1,382
4	Gabion Basket Shoreline Protection Unit	EA	267
5	Permanent Warning Signs	EA	4

Alternate 1			
Item No.	Description	Unit	Estimated Quantity
1-1	Mobilization and Demobilization	LS	1
2-1	Surveys	LS	1
3-1	Non-Woven Geotextile Fabric	SY	356
4-1	Gabion Baskets Shoreline Protection Unit	EA	69
5-1	Permanent Warning Signs	EA	1

Alternate 2			
Item No.	Description	Unit	Estimated Quantity
1-2	Mobilization and Demobilization	LS	1
2-2	Surveys	LS	1
3-2	Non-Woven Geotextile Fabric	SY	356
4-2	Gabion Baskets Shoreline Protection Unit	EA	69
5-2	Permanent Warning Signs	EA	1

1. WHERE THE QUANTITY OF WORK WITH RESPECT TO ANY ITEM IS COVERED BY A UNIT PRICE, SUCH QUANTITIES ARE ESTIMATED QUANTITIES TO BE USED WHEN COMPARING BIDS AND THE RIGHT IS RESERVED BY THE OWNER TO INCREASE/DECREASE SUCH QUANTITIES UP TO 25% WITHOUT ADJUSTMENT OF THE UNIT PRICE AS MAY BE NECESSARY TO COMPLETE THE WORK AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS AND/OR REMAIN WITHIN FUNDING LIMITS.

MINIMUM GABION BASKET REQUIREMENTS

TYPE OF WIRE	MESH SIZE (INCHES)	WIRE DIAMETER (INCHES)	GALVANIZED COATING (OZ./SF)
LACING WIRE		0.086	0.70
WELDED MESH	1.5 x 1.5	0.118	0.80
SPIRAL BINDER		0.105	0.80

WIRE FOR FABRICATION AND ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED. THE WIRE SHALL HAVE A MINIMUM TENSILE STRENGTH OF 60,000 PSI. GALVANIZED STEEL WIRE SHALL CONFORM TO ASTM A 641, CLASS 3, AND SOFT TEMPER.

MINIMUM ROCK REQUIREMENTS

PREDOMINANT ROCK SIZE (INCHES)	MINIMUM ROCK DIMENSIONS (INCHES)	MAXIMUM ROCK DIMENSIONS (INCHES)
4 TO 8	4	8

MINIMUM GEOTEXTILE FABRIC REQUIREMENTS

GEOTEXTILE FABRIC			
PRODUCT: WINFAB 700N OR EQUIVALENT			
PHYSICAL PROPERTY	UNIT	TEST METHOD	MEASURE (2)
FABRIC TYPE	-	-	NON-WOVEN
APPARENT OPENING SIZE (MAX.) (1)	µm	ASTM D 4751	212
GRAB TENSILE STRENGTH (MIN.)	N	ASTM D 4632	800
TENSILE ELONGATION (MARV)	%	ASTM D 4632	50
CBR PUNCTURE (MIN.)	N	ASTM D 6241	330
TRAPEZOID TEAR STRENGTH (MIN.)	N	ASTM D 4533	220
ULTRAVIOLET RESISTANCE (500 HOURS) (MIN.)	%	ASTM D 4355	70

NOTES:
1. APPARENT OPENING SIZE SPECIFIED IS MAXIMUM (ACTUAL OPENING) ALLOWED.
2. MARV IS THE MINIMUM AVERAGE ROLL VALUE.

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GENERAL NOTES

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RABBIT ISLAND RESTORATION SHORELINE PROTECTION

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EXISTING SITE CONDITIONS

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SHEET 3 OF 9

LEGEND

▲ MAGNETOMETER ANOMALY

200' 100' 0' 200'

NOTE:
NO ACCESS DREDGING WILL BE ALLOWED AS PART OF THIS PROJECT.

Point Number	Easting	Northing	Inflection
24	2631173.8800	497843.2673	32
73	2631573.8970	497370.6833	53
101	2631717.0790	497007.3407	56
102	2631854.0390	497081.1317	49
116	2631837.0110	496838.7431	155
139	2632177.1160	496563.2655	89

Point Number	Easting	Northing	Inflection
1158	2630614.0000	498357.0000	355.96
1159	2631025.0000	498095.0000	42.38
1160	2631473.0000	497825.0000	40.72
1161	2631913.0000	497222.0000	77.12
1162	2632247.0000	496846.0000	154.39
1169	2630609.0000	498446.0000	122.04
1178	2631048.0000	498299.0000	811.65
1179	2632509.0000	496793.0000	54.62

GABION BASKET ALIGNMENT

	NORTHING	EASTING
1	496,768.1945	2,632,163.8285
2	496,856.4867	2,631,994.3033
3	497,010.6766	2,631,866.4307
4	497,108.1642	2,631,840.7755
5	497,184.4607	2,631,763.5274
6	497,363.6922	2,631,663.6002
7	497,480.7620	2,631,654.4299
8	497,567.4527	2,631,592.8872
9	497,709.3687	2,631,444.5510
10	497,828.4649	2,631,285.1593
11	497,940.3549	2,631,107.7160
12	498,026.2572	2,630,903.4482
13	498,120.6703	2,630,707.0631
14	498,276.7940	2,630,582.2580

NOTE:
GABION BASKET ALIGNMENT COORDINATES INDICATE CENTERLINE OF THE GABION BASKETS.

CENTER OF GAP LOCATIONS

	NORTHING	EASTING
A	496,898.4335	2,631,959.5161
B	497,319.8711	2,631,688.0318
C	497,727.4602	2,631,420.3384
D	497,992.0062	2,630,984.8939

WARNING SIGN LOCATIONS

	NORTHING	EASTING
WS1	496,788.5188	2,632,173.5141
WS2	496,920.4569	2,631,986.0720
WS3	497,336.6713	2,631,718.1649
WS4	497,755.0974	2,631,440.9887
WS5	498,023.8085	2,630,998.2679
WS6	498,288.4999	2,630,601.7059

SEE SHEET 6 FOR WARNING SIGN DETAIL

PROJECT LAYOUT

ENLARGED DETAIL

SCALE: 1" = 20'

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PROJECT LAYOUT

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TYPICAL SECTION

SCALE: 1" = 1'

NOTES:

1. CENTER OF BASKET TO BE PLACED ON -1' CONTOUR.
2. GEOTEXTILE FABRIC TO EXTEND ONE FOOT BEYOND EDGES OF BASKETS.
3. SEE SHEET 2 FOR GABION BASKET AND ROCK REQUIREMENTS.
4. CONTRACTOR SHALL ASSEMBLE BASKET ACCORDING TO MANUFACTURER RECOMMENDATIONS. INCLUDING INTERIOR DIAPHRAGMS, HARDWARE SUCH AS STIFFENERS AND FASTENERS, AND ANY OTHER BASKET COMPONENT.

SIGN DETAIL

(NOT TO SCALE)

ELEVATION VIEW

(NOT TO SCALE)

SIDE VIEW

(NOT TO SCALE)

ISOMETRIC VIEW

SCALE: 1" = 3'

TYPICAL TIMBER PILE CAP SIDE VIEW

(NOT TO SCALE)

NOTES:

1. PERMANENT WARNINGS SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON PLANS FACING OPEN WATER. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a)(1) WHICH CAN BE DOWNLOADED AT http://www.access.gpo.gov/nara/cfr/waisdx_0233cfr330_02.html.
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE CCA TREATED WITH A 2.5 RETENTION VALVE.
5. TIMBER PILINGS SHALL BE 40' IN LENGTH WITH NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS. SEE SECTION 812.6 OF THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.

PERMANENT WARNING SIGN TYPICAL DETAIL

SEE SHEET 4 FOR WARNING SIGN LOCATIONS

STATE OF LOUISIANA
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TYPICAL SECTION AND WARNING SIGN DETAIL

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RABBIT ISLAND RESTORATION SHORELINE PROTECTION

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RABBIT ISLAND

WEST COVE

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

STATE OF LOUISIANA
ZACHARY J. ROMAINE
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PROFESSIONAL ENGINEER
5/23/23

NOTE:
NO ACCESS DREDGING WILL BE ALLOWED AS PART OF THIS PROJECT.

10' 5' 0'
HORIZONTAL GRAPHIC SCALE

10' 5' 0'
VERTICAL GRAPHIC SCALE

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CROSS SECTIONS

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SHEET 6 OF 9

RABBIT ISLAND

WEST COVE

SECTION 6

SECTION 7

SECTION 8

SECTION 9

SECTION 10

NOTE:
NO ACCESS DREDGING WILL BE ALLOWED AS PART OF THIS PROJECT.

10' 5' 0'
HORIZONTAL GRAPHIC SCALE

10' 5' 0'
VERTICAL GRAPHIC SCALE

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SHEET 7 OF 9

RABBIT ISLAND

WEST COVE

SECTION 11

SECTION 12

NOTE:
NO ACCESS DREDGING WILL BE ALLOWED AS PART OF THIS PROJECT.

10' 5' 0'
HORIZONTAL GRAPHIC SCALE

10' 5' 0'
VERTICAL GRAPHIC SCALE

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CROSS SECTIONS

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SHEET 8 OF 9

Point Number	Easting	Northing	Inflection
1000	2641368.0000	495132.0000	39.5
1001	2640326.0000	495758.0000	1196.98
1002	2640080.0000	495904.0000	266.41
1003	2639982.0000	495959.0000	730.34
1004	2635774.0000	498269.0000	59.58
1005	2637250.0000	497384.0000	259.78
1006	2637554.0000	497215.0000	80.2
1007	2639448.0000	496092.0000	87.08
1008	2640384.0000	495545.0000	1768.85
1009	2640939.0000	495214.0000	100.31
1010	2641181.0000	495071.0000	61.43
1011	2641363.0000	494972.0000	250.66
1012	2641501.0000	494880.0000	100.19
1013	2641460.0000	494995.0000	65.44
1014	2640328.0000	495669.0000	402.4
1015	2639834.0000	495960.0000	140.85
1016	2639048.0000	496428.0000	254.02
1017	2637537.0000	497315.0000	487.03
1018	2637824.0000	496443.0000	157.97
1019	2635088.0000	495533.0000	137.37
1020	2636175.0000	496423.0000	448.62
1021	2636738.0000	497133.0000	56.95
1022	2635351.0000	496679.0000	61.71
1023	2635147.0000	496609.0000	99.72
1024	2634715.0000	496475.0000	43.81
1025	2633782.0000	496172.0000	82.44
1026	2633634.0000	496642.0000	1027.18
1027	2635152.0000	497670.0000	46.53

Point Number	Easting	Northing	Inflection
1028	2635093.0000	497645.0000	56.39
1029	2632964.0000	496948.0000	80.1
1030	2634921.0000	498122.0000	232.25
1031	2635538.0000	498507.0000	48.37
1032	2636474.0000	498164.0000	481.12
1033	2637057.0000	497191.0000	44.86
1034	2637233.0000	497474.0000	110.35
1035	2638703.0000	496067.0000	89.85
1036	2639193.0000	496870.0000	39.78
1037	2639908.0000	496100.0000	241.43
1038	2639823.0000	495962.0000	52.59
1039	2640554.0000	495227.0000	44.45
1040	2641798.0000	494561.0000	137.11
1041	2641833.0000	495315.0000	261.18
1042	2642068.0000	495264.0000	72.79
1043	2641943.0000	496304.0000	439.82
1044	2642010.0000	496798.0000	171.95
1045	2642333.0000	498256.0000	60.49
1046	2642375.0000	499787.0000	388.17
1047	2642443.0000	499762.0000	216.79
1048	2642362.0000	500012.0000	88.03
1049	2642560.0000	501002.0000	57.67
1050	2642501.0000	501267.0000	91.91
1051	2642592.0000	501504.0000	263.49
1052	2642533.0000	501506.0000	98.92
1053	2643622.0000	502132.0000	205.51
1054	2643687.0000	502138.0000	375.63
1055	2643815.0000	502126.0000	112.77

Point Number	Easting	Northing	Inflection
1056	2643668.0000	502639.0000	65.83
1057	2643705.0000	502865.0000	180.21
1058	2642748.0000	503239.0000	436.31
1059	2642873.0000	503217.0000	82.41
1060	2643769.0000	503136.0000	164.97
1061	2643858.0000	503358.0000	45.77
1062	2643724.0000	503387.0000	355.25
1063	2643579.0000	503404.0000	1733.51
1064	2643936.0000	503618.0000	427.73
1065	2643986.0000	503876.0000	250.24
1066	2642879.0000	504244.0000	1305.04
1067	2642947.0000	504220.0000	62.05
1068	2642918.0000	504473.0000	233.12
1069	2643494.0000	504673.0000	64.41
1070	2643953.0000	504857.0000	4240.39
1071	2643778.0000	504893.0000	301.08
1072	2643726.0000	504894.0000	119.93
1073	2644033.0000	505356.0000	49.27
1136	2633622.0000	498130.0000	78.08
1137	2632396.0000	497733.0000	136.56
1138	2633966.0000	497949.0000	122.4
1139	2634110.0000	497995.0000	205.77
1140	2635203.0000	498364.0000	67.92
1141	2635496.0000	498453.0000	544.13
1148	2633565.0000	497966.0000	122.63
1149	2631009.0000	494526.0000	63.44
1150	2630704.0000	494486.0000	223.16
1151	2630546.0000	494489.0000	73.04

Point Number	Easting	Northing	Inflection
1152	2629462.0000	494620.0000	99.53
1153	2629373.0000	494742.0000	55.89
1154	2628986.0000	495352.0000	209.23
1155	2628962.0000	495795.0000	48.55
1156	2629083.0000	496903.0000	333.13
1157	2629309.0000	497378.0000	222.44
1158	2630614.0000	498357.0000	355.96
1159	2631025.0000	498095.0000	42.38
1160	2631473.0000	497825.0000	40.72
1161	2631913.0000	497222.0000	77.12
1162	2632247.0000	496846.0000	154.39
1163	2632837.0000	496362.0000	443.91
1164	2630280.0000	494278.0000	268.76
1165	2629269.0000	497420.0000	800.98
1166	2628811.0000	496139.0000	86.64
1167	2628866.0000	496322.0000	61.34
1168	2629567.0000	497931.0000	289.07
1169	2630609.0000	498446.0000	122.04
1170	2633257.0000	495594.0000	76.67
1171	2631846.0000	494270.0000	128.33
1172	2630368.0000	494133.0000	46.72
1173	2629026.0000	494743.0000	52.63
1174	2628693.0000	496250.0000	89.12
1175	2628780.0000	496599.0000	68.25
1176	2628811.0000	496665.0000	129.24
1177	2629436.0000	497871.0000	90.9
1178	2631048.0000	498299.0000	811.65
1179	2632509.0000	496793.0000	54.62

LEGEND

—PL— VERIFIED PIPELINE

▲ MAGNETOMETER ANOMALY

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MAGNETOMETER SURVEY ANOMALIES

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SHEET 9 OF 9