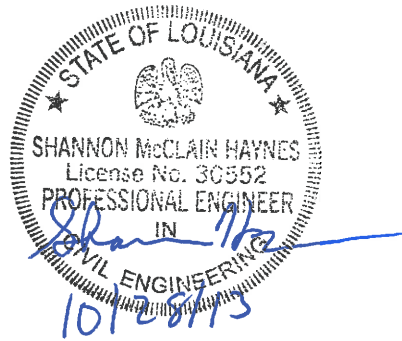
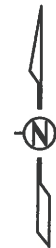
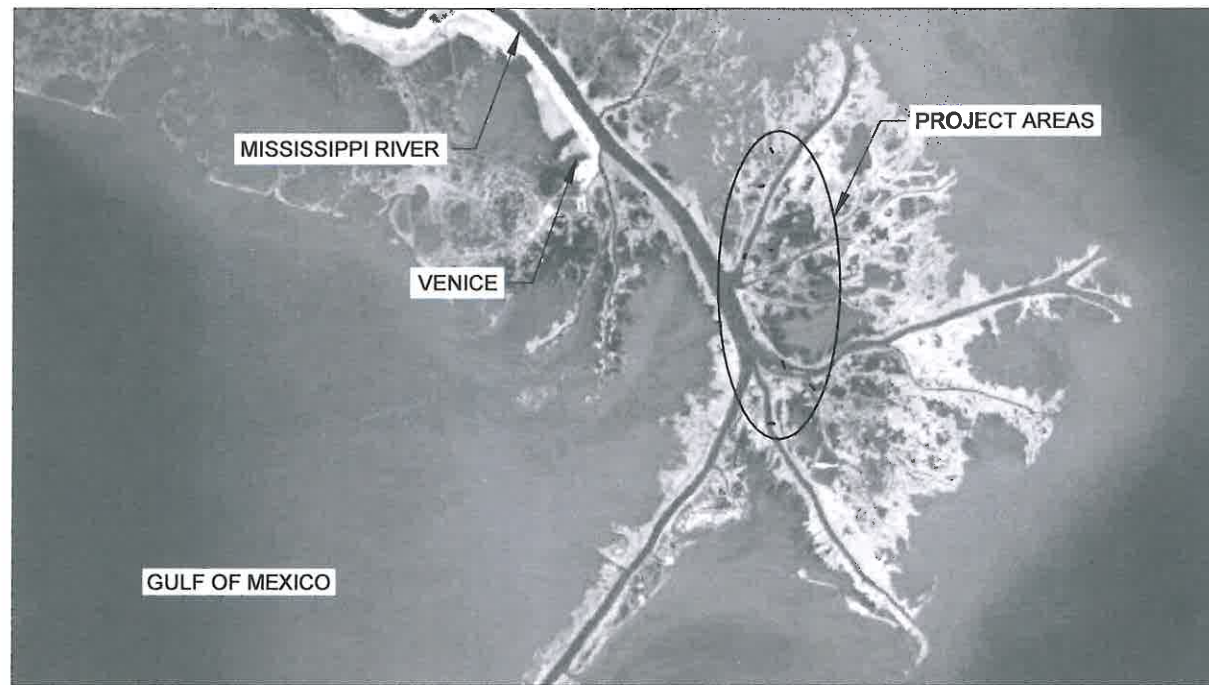


STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	PLAN VIEW
4	MP-1 CREVASSE LAYOUT
5	MP-3 CREVASSE LAYOUT
6	OP-4 CREVASSE LAYOUT
7	OP-5 CREVASSE LAYOUT
8	JOHNSON PASS CREVASSE LAYOUT
9	SAWDUST BEND CREVASSE LAYOUT
10	SOUTH PASS CREVASSE LAYOUT
11-12	CREVASSE DREDGING AND MECHANICAL PLACEMENT TYPICAL SECTIONS
13	HYDRAULIC DREDGE PLACEMENT TYPICAL SECTION
14	DESIGN SURVEY LAYOUT FOR MP-1 CREVASSE
15	DESIGN SURVEY LAYOUT FOR MP-3 CREVASSE
16	DESIGN SURVEY LAYOUT FOR OP-4 CREVASSE
17	DESIGN SURVEY LAYOUT FOR OP-5 CREVASSE
18	DESIGN SURVEY LAYOUT FOR JOHNSON PASS CREVASSE
19	DESIGN SURVEY LAYOUT FOR SAWDUST BEND CREVASSE
20	DESIGN SURVEY LAYOUT FOR SOUTH PASS CREVASSE
21	CONSTRUCTION SURVEY LAYOUT FOR MP-1 CREVASSE
22	CONSTRUCTION SURVEY LAYOUT FOR MP-3 CREVASSE
23	CONSTRUCTION SURVEY LAYOUT FOR OP-4 CREVASSE
24	CONSTRUCTION SURVEY LAYOUT FOR OP-5 CREVASSE
25	CONSTRUCTION SURVEY LAYOUT FOR JOHNSON PASS CREVASSE
26	CONSTRUCTION SURVEY LAYOUT FOR SAWDUST BEND CREVASSE
27	CONSTRUCTION SURVEY LAYOUT FOR SOUTH PASS CREVASSE

DELTA-WIDE CREVASSES
MAINTENANCE PROJECT
MR-09
PLAQUEMINES PARISH



Mary Chute
CHIEF - ENGINEERING DIVISION

James Powell
ENGINEERING MANAGER

Shannon Haynes
PROJECT ENGINEER

LICENSURE CLASSIFICATION REQUIREMENTS

MAJOR CLASSIFICATION: HEAVY CONSTRUCTION

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT STATE PROJECT NUMBER: MR-09 FEDERAL PROJECT NUMBER: MR-09		TITLE SHEET DATE: OCTOBER 2013	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.		SHEET 1 OF 27	

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE COASTAL PROTECTION AND RESTORATION AUTHORITY (CPRA) SECONDARY MONUMENTS LISTED BELOW.

SECONDARY SURVEY MONUMENTS	ELEVATION	NORTHING	EASTING
MR09-SM-06	3.89'	238,749.46	3,953,566.05
MR09-SM-07	3.91'	233,568.56	3,958,300.12
MR09-SM-31	7.60'	267,445.51	3,945,645.93
MR09-SM-36	4.34'	272,344.18	3,947,420.62
MR09-SM-38	4.00'	276,368.03	3,947,242.96

2. MARSH CREATION AREA ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED IN AUGUST 2012 BY C&C TECHNOLOGIES, INC. FOR THE CPRA.
3. DATA FROM USGS GAGE #07374550 AND NOAA STATION #8760849 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET. MHW = +1.01' AND MLW = +0.02'.
4. THE CONTRACTOR SHALL FOLLOW THE SPECIFIED DREDGE PIPELINE CORRIDORS AND SHALL NOT, AT ANY TIME, TRAVERSE ACROSS EXISTING MARSH OR VEGETATED WETLANDS BEYOND THE CORRIDORS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE, UTILITY OPERATORS, AND LANDOWNERS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. PIPELINES IN OPEN WATER SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN ONE-HUNDRED (100) FOOT OF ANY PIPELINE. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO EXCAVATION TO LOCATE ANY OTHER PIPELINES OR UTILITIES.

HIGH POINT ENERGY
ROBIN ASERVADO
 (504) 812-7151

7. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
8. 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.
9. THE PLACEMENT AND DREDGING AREAS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
10. ESTIMATED QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN OCTOBER 2012. QUANTITIES WERE CALCULATED USING THE AVERAGE END AREA METHOD OF SECTIONS. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES OF ANY BID ITEM HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
11. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDORS AND CREVASSES PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
12. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE PROPOSED PLACEMENT AREAS.
13. THE CUBIC YARDAGE FOR THE DREDGING OF THE CREVASSES WERE ESTIMATED USING AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

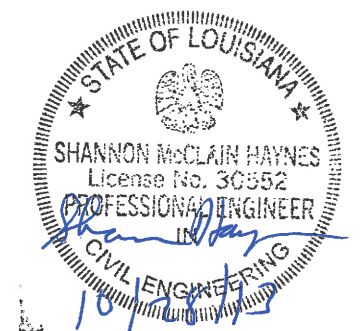
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	SURVEYING	LUMP SUM	1
3	DREDGING CREVASSES MP-1, OP-4, OP-5, JOHNSON PASS, SAWDUST BEND, AND SOUTH PASS	CUBIC YARD	212,695

* QUANTITIES SHOWN ARE FOR BID PURPOSED ONLY AND WERE CALCULATED ACCORDING TO THE CONDITIONS SURVEYED IN AUGUST, 2012. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENTS OF THE UNIT PRICE.

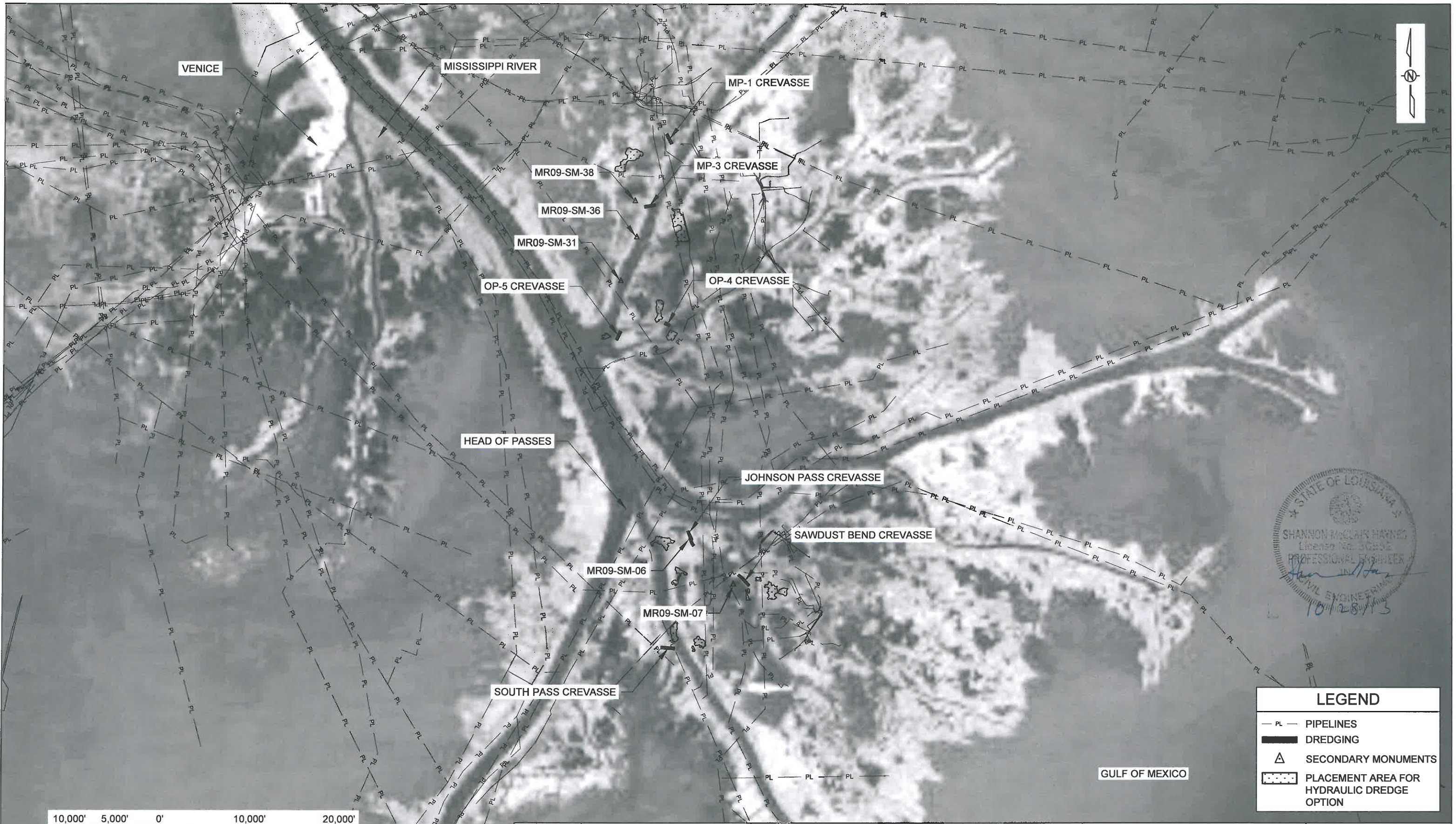
* DREDGING QUANTITIES ARE BASED ON CUT VOLUME.

ADDITIVE ALTERNATE

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
4	DREDGING CREVASSE MP-3	CUBIC YARD	56,974



				COASTAL PROTECTION AND RESTORATION AUTHORITY		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		GENERAL NOTES	
				450 LAUREL STREET BATON ROUGE, LOUISIANA 70801					
						STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.		SHEET 2 OF 27	



LEGEND	
— PL —	PIPELINES
█	DREDGING
△	SECONDARY MONUMENTS
▤	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION



NOTES:
 1. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 2. LOCATION OF PIPELINES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.

DELTA-WIDE CREVASSES MAINTENANCE PROJECT

STATE PROJECT NUMBER: MR-09
 FEDERAL PROJECT NUMBER: MR-09
 APPROVED BY: SHANNON HAYNES, P.E.

PLAN VIEW

DATE: OCTOBER 2013
 SHEET 3 OF 27

CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	283,723.88	3,950,767.61
2	282,839.76	3,951,234.86
3	282,697.93	3,951,287.26
4	279,080.71	3,948,974.03
5	279,050.08	3,948,753.93
6	279,177.20	3,948,634.72
7	279,322.01	3,948,328.64
8	279,418.56	3,948,277.09
9	279,828.48	3,948,403.67
10	279,968.83	3,948,401.66
11	280,374.19	3,948,117.50
12	280,441.15	3,948,015.34
13	280,527.24	3,947,737.61
14	280,799.49	3,947,294.10
15	280,899.79	3,947,228.22
16	283,638.85	3,950,607.09
17	282,781.81	3,951,061.38
18	283,133.10	3,951,286.59
19	283,809.01	3,950,928.30

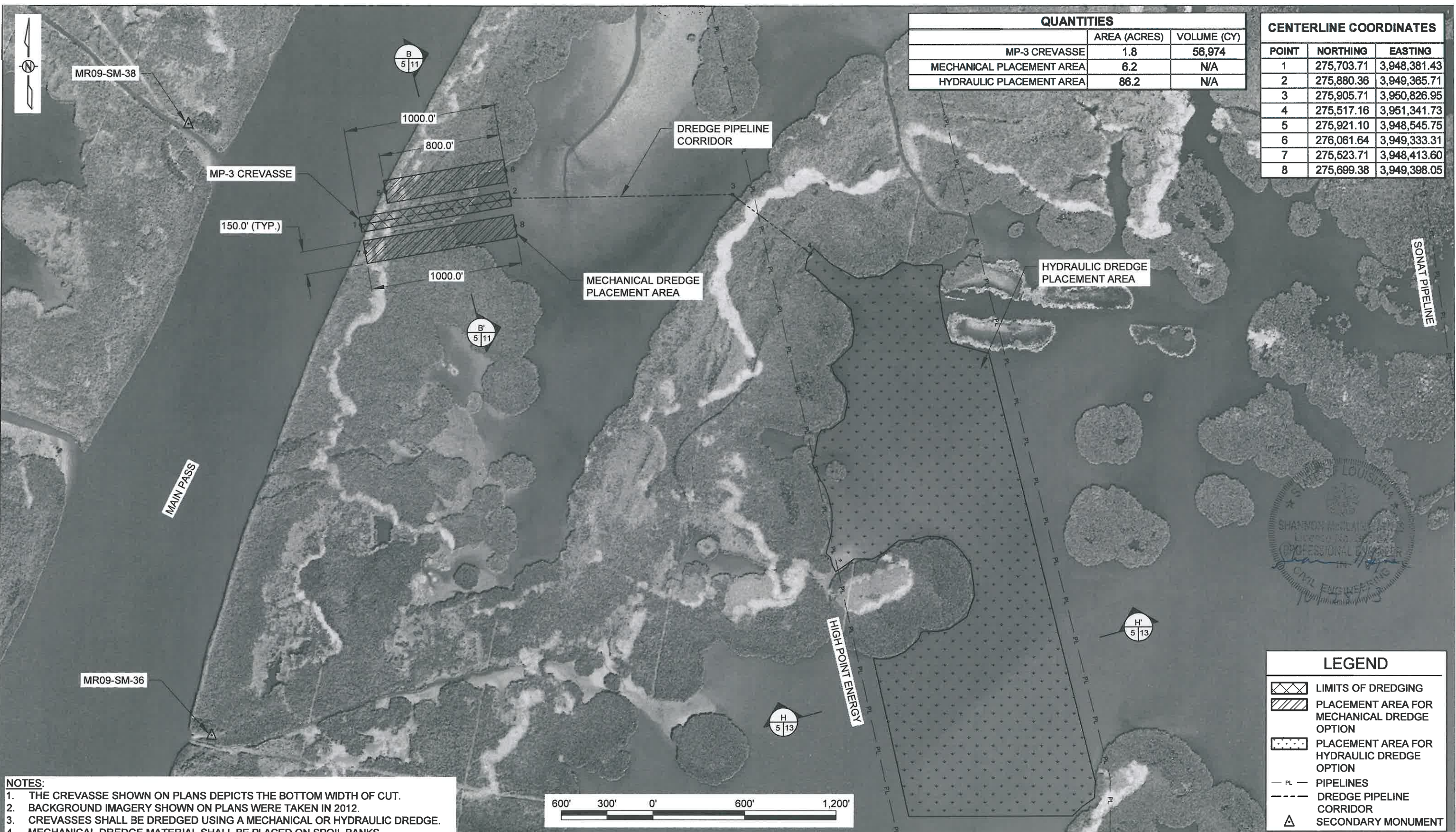
QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
MP-1 CREVASSE	2.3	56,215
MECHANICAL PLACEMENT AREA	6.0	N/A
HYDRAULIC PLACEMENT AREA	69.9	N/A



- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS PIPELINES.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		MP-1 CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09		FEDERAL PROJECT NUMBER: MR-09	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.	SHEET 4 OF 27		



QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
MP-3 CREVASSE	1.8	56,974
MECHANICAL PLACEMENT AREA	6.2	N/A
HYDRAULIC PLACEMENT AREA	86.2	N/A

CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	275,703.71	3,948,381.43
2	275,880.36	3,949,365.71
3	275,905.71	3,950,826.95
4	275,517.16	3,951,341.73
5	275,921.10	3,948,545.75
6	276,061.64	3,949,333.31
7	275,523.71	3,948,413.60
8	275,699.38	3,949,398.05

- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR CROSSING THE HIGH POINT ENTERGY PIPELINE.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.



LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		MP-3 CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
FEDERAL PROJECT NUMBER: MR-09				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	
REV.	DATE	DESCRIPTION	BY					SHEET 5 OF 27	

CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	262,677.13	3,950,656.36
2	262,486.19	3,951,007.84
3	261,921.41	3,951,180.88
4	262,330.57	3,950,923.30
5	262,521.52	3,950,571.82
6	2,627,250.99	3,950,936.40
7	262,606.65	3,951,156.07

QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
OP-4 CREVASSE	0.9	16,216
MECHANICAL PLACEMENT AREA	2.2	N/A
HYDRAULIC PLACEMENT AREA	19.8	N/A



LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		OP-4 CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	
REV.	DATE	DESCRIPTION	BY					SHEET 6 OF 27	

CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	260,937.73	3,945,219.83
2	261,697.18	3,945,578.76
3	261,215.93	3,944,543.74
4	261,335.07	3,944,655.04
5	261,214.70	3,945,065.31
6	261,017.07	3,945,312.63
7	261,226.41	3,946,998.59
8	261,704.28	3,946,998.59
9	262,712.79	3,947,540.13
10	263,322.56	3,948,281.24
11	263,947.88	3,948,483.85
12	264,860.24	3,949,652.83
13	261,775.40	3,945,413.26
14	261,124.44	3,945,105.60
15	261,621.29	3,945,525.69
16	261,621.29	3,945,739.34

QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
OP-5 CREVASSE	1.9	36,072
MECHANICAL PLACEMENT AREA	4.2	N/A
HYDRAULIC PLACEMENT AREA	41.2	N/A



- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS PIPELINES.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.



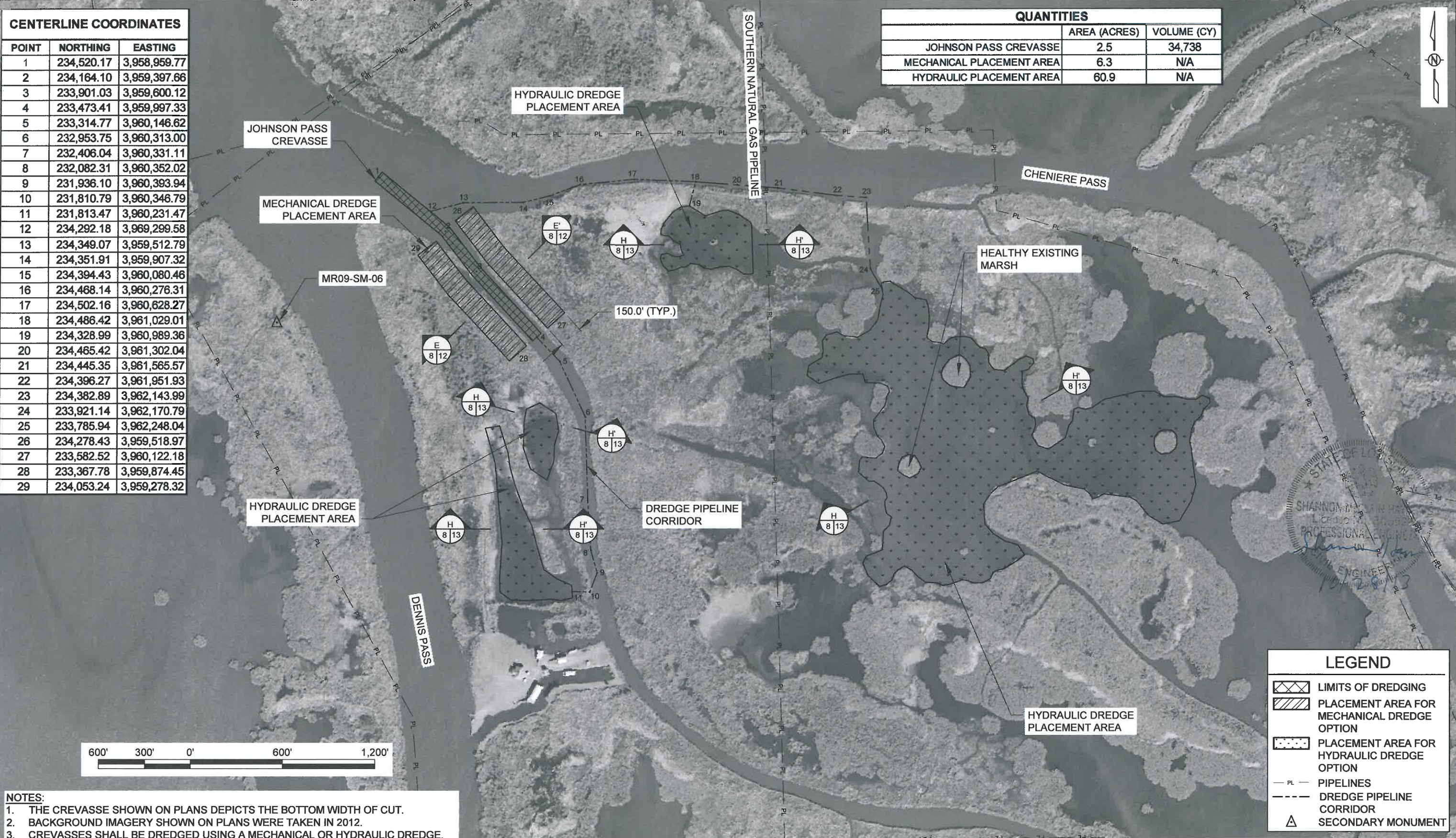
LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		OP-5 CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
						FEDERAL PROJECT NUMBER: MR-09		APPROVED BY: SHANNON HAYNES, P.E.	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.		SHEET 7 OF 27	

CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	234,520.17	3,958,959.77
2	234,164.10	3,959,397.66
3	233,901.03	3,959,600.12
4	233,473.41	3,959,997.33
5	233,314.77	3,960,146.62
6	232,953.75	3,960,313.00
7	232,406.04	3,960,331.11
8	232,082.31	3,960,352.02
9	231,936.10	3,960,393.94
10	231,810.79	3,960,346.79
11	231,813.47	3,960,231.47
12	234,292.18	3,969,299.58
13	234,349.07	3,959,512.79
14	234,351.91	3,959,907.32
15	234,394.43	3,960,080.46
16	234,468.14	3,960,276.31
17	234,502.16	3,960,628.27
18	234,486.42	3,961,029.01
19	234,328.99	3,960,989.36
20	234,465.42	3,961,302.04
21	234,445.35	3,961,565.57
22	234,396.27	3,961,951.93
23	234,382.89	3,962,143.99
24	233,921.14	3,962,170.79
25	233,785.94	3,962,248.04
26	234,278.43	3,959,518.97
27	233,582.52	3,960,122.18
28	233,367.78	3,959,874.45
29	234,053.24	3,959,278.32

QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
JOHNSON PASS CREVASSE	2.5	34,738
MECHANICAL PLACEMENT AREA	6.3	N/A
HYDRAULIC PLACEMENT AREA	60.9	N/A



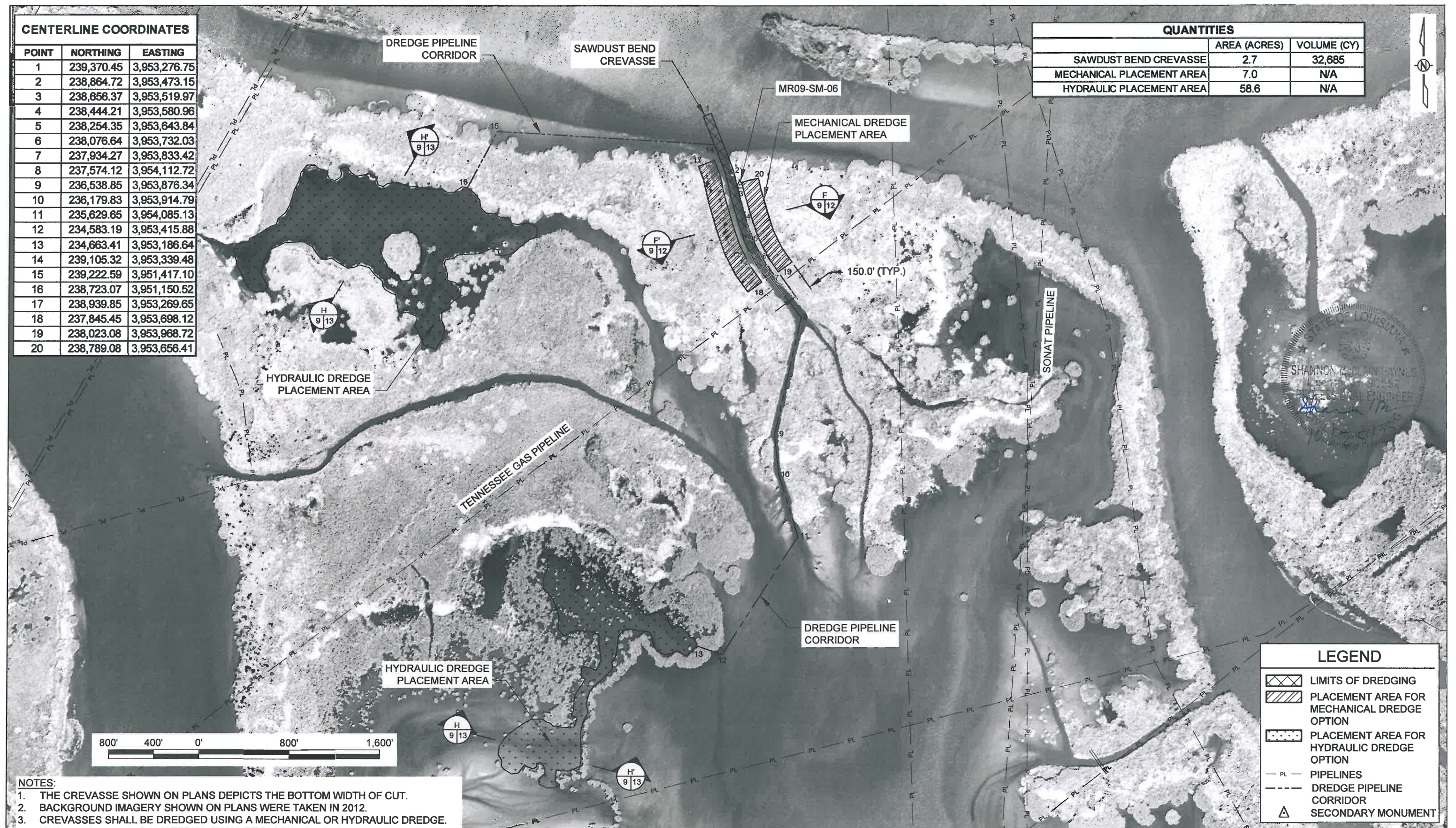
LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS PIPELINES.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		JOHNSON PASS CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
FEDERAL PROJECT NUMBER: MR-09		APPROVED BY: SHANNON HAYNES, P.E.		DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		SHEET 8 OF 27	
REV.	DATE	DESCRIPTION	BY						

CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	239,370.45	3,953,276.75
2	238,864.72	3,953,473.15
3	238,656.37	3,953,519.97
4	238,444.21	3,953,580.96
5	238,254.35	3,953,643.84
6	238,076.64	3,953,732.03
7	237,934.27	3,953,833.42
8	237,574.12	3,954,112.72
9	236,538.85	3,953,876.34
10	236,179.83	3,953,914.79
11	235,629.65	3,954,085.13
12	234,583.19	3,953,415.88
13	234,663.41	3,953,186.64
14	239,105.32	3,953,339.48
15	239,222.59	3,951,417.10
16	238,723.07	3,951,150.52
17	238,939.85	3,953,269.65
18	237,845.45	3,953,698.12
19	238,023.08	3,953,968.72
20	238,789.08	3,953,656.41

QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
SAWDUST BEND CREVASSE	2.7	32,685
MECHANICAL DREDGE PLACEMENT AREA	7.0	N/A
HYDRAULIC DREDGE PLACEMENT AREA	58.6	N/A



LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

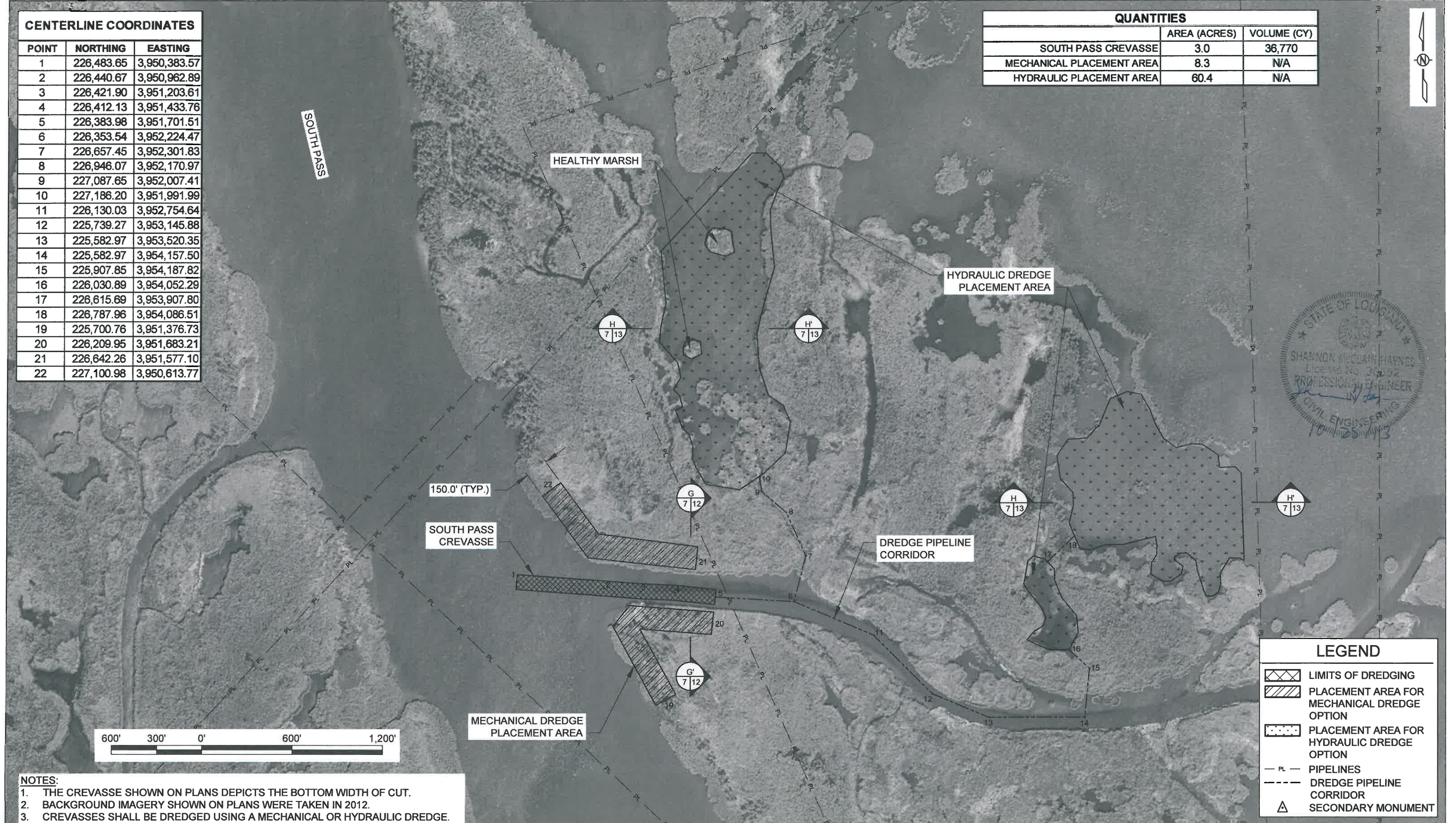
- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS PIPELINES.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		SAWDUST BEND CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
FEDERAL PROJECT NUMBER: MR-09		APPROVED BY: SHANNON HAYNES, P.E.		DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		SHEET 9 OF 27	
REV.	DATE	DESCRIPTION	BY						

CENTERLINE COORDINATES

POINT	NORTHING	EASTING
1	226,483.65	3,950,383.57
2	226,440.67	3,950,962.89
3	226,421.90	3,951,203.61
4	226,412.13	3,951,433.76
5	226,383.98	3,951,701.51
6	226,353.54	3,952,224.47
7	226,657.45	3,952,301.83
8	226,946.07	3,952,170.97
9	227,087.65	3,952,007.41
10	227,186.20	3,951,991.99
11	226,130.03	3,952,754.64
12	225,739.27	3,953,145.88
13	225,582.97	3,953,520.35
14	225,582.97	3,954,157.50
15	225,907.85	3,954,187.82
16	226,030.89	3,954,052.29
17	226,615.69	3,953,907.80
18	226,787.96	3,954,086.51
19	225,700.76	3,951,376.73
20	226,209.95	3,951,683.21
21	226,642.26	3,951,577.10
22	227,100.98	3,950,613.77

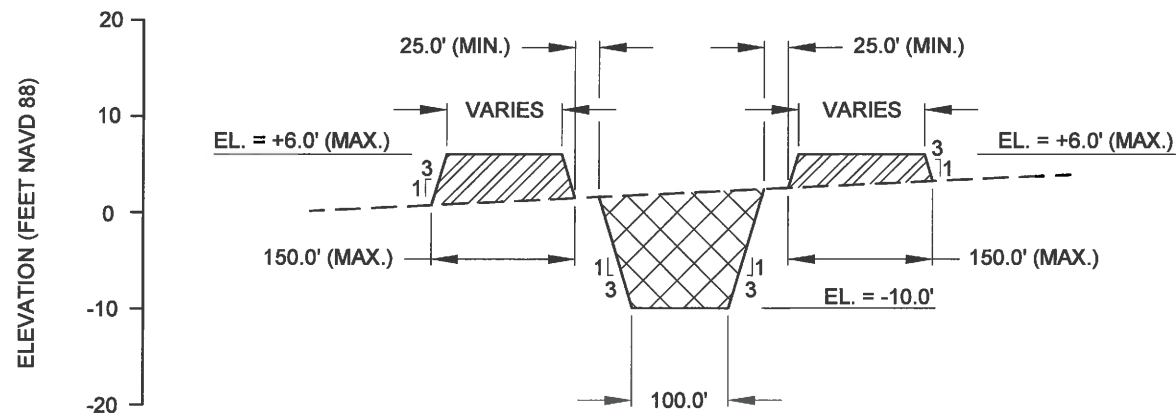
QUANTITIES		
	AREA (ACRES)	VOLUME (CY)
SOUTH PASS CREVASSE	3.0	36,770
MECHANICAL PLACEMENT AREA	8.3	N/A
HYDRAULIC PLACEMENT AREA	60.4	N/A



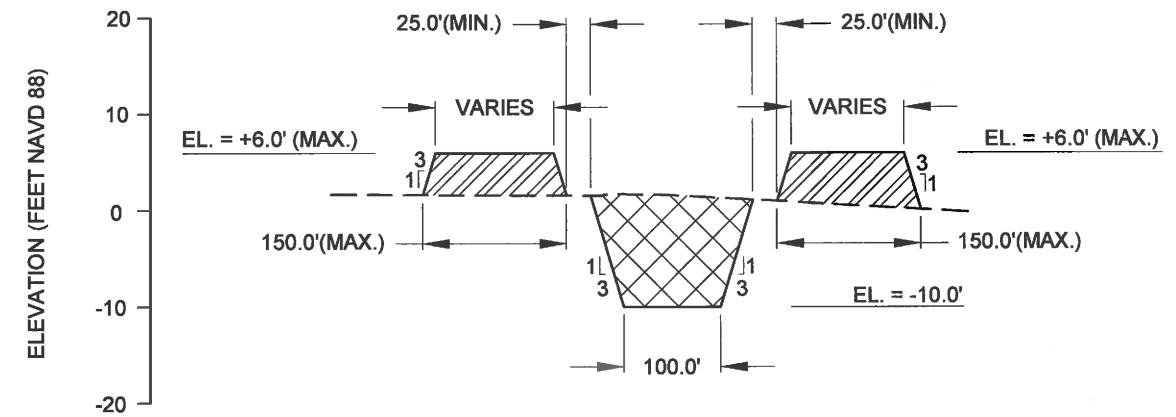
- NOTES:**
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL BE PLACED IN OPEN WATER AND NOT EXISTING MARSH.
 6. LOCATIONS OF PIPELINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO DREDGING.
 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS PIPELINE.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

LEGEND	
	LIMITS OF DREDGING
	PLACEMENT AREA FOR MECHANICAL DREDGE OPTION
	PLACEMENT AREA FOR HYDRAULIC DREDGE OPTION
	PIPELINES
	DREDGE PIPELINE CORRIDOR
	SECONDARY MONUMENT

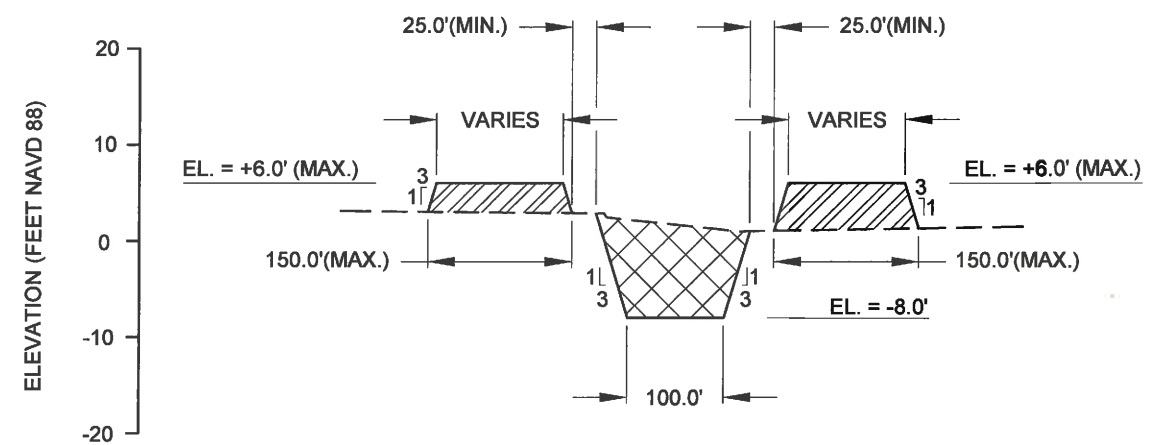
<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>		<p>DELTA-WIDE CREVASSES MAINTENANCE PROJECT</p>		<p>SOUTH PASS CREVASSE LAYOUT</p>	
		<p>STATE PROJECT NUMBER: MR-09</p>		<p>DATE: OCTOBER 2013</p>	
<p>FEDERAL PROJECT NUMBER: MR-09</p>		<p>APPROVED BY: SHANNON HAYNES, P.E.</p>		<p>SHEET 10 OF 27</p>	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.



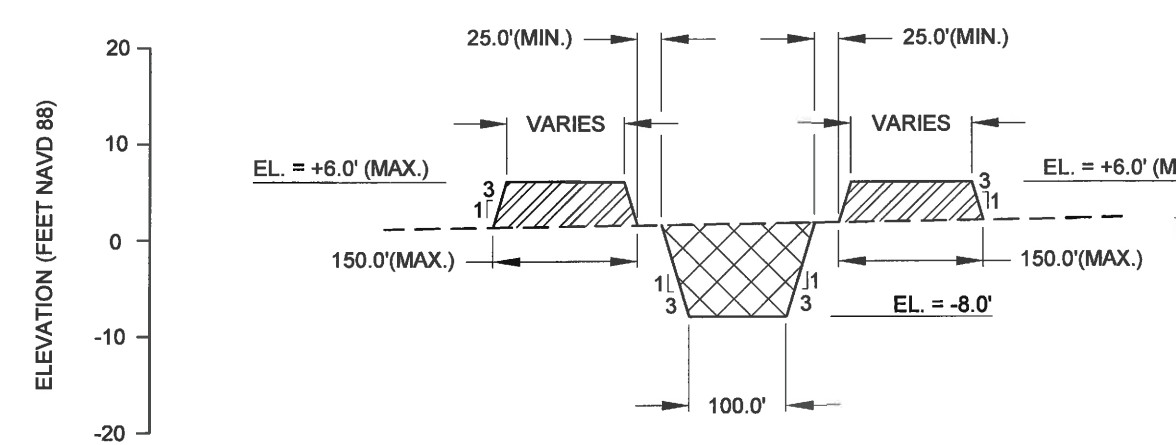
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 A-A' 11/4
 MP-1 CREVASSE



TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 B-B' 11/5
 MP-3 CREVASSE



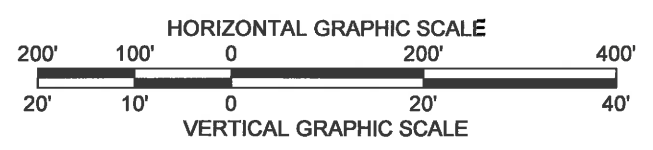
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 C-C' 11/6
 OP-4 CREVASSE



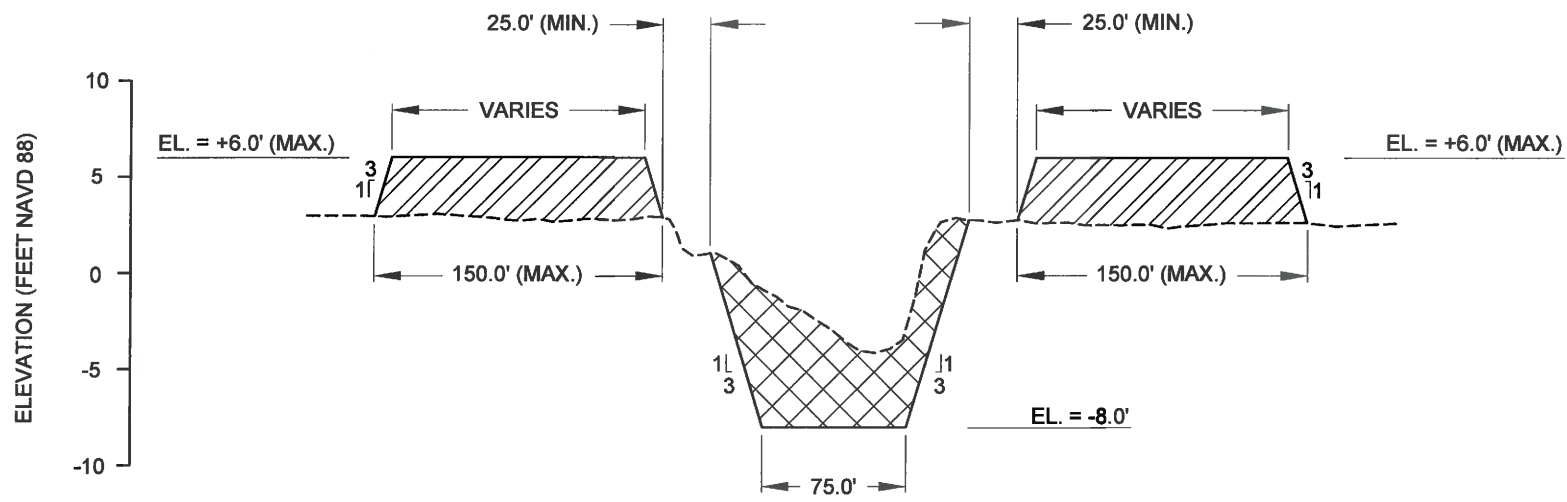
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 D-D' 11/7
 OP-5 CREVASSE



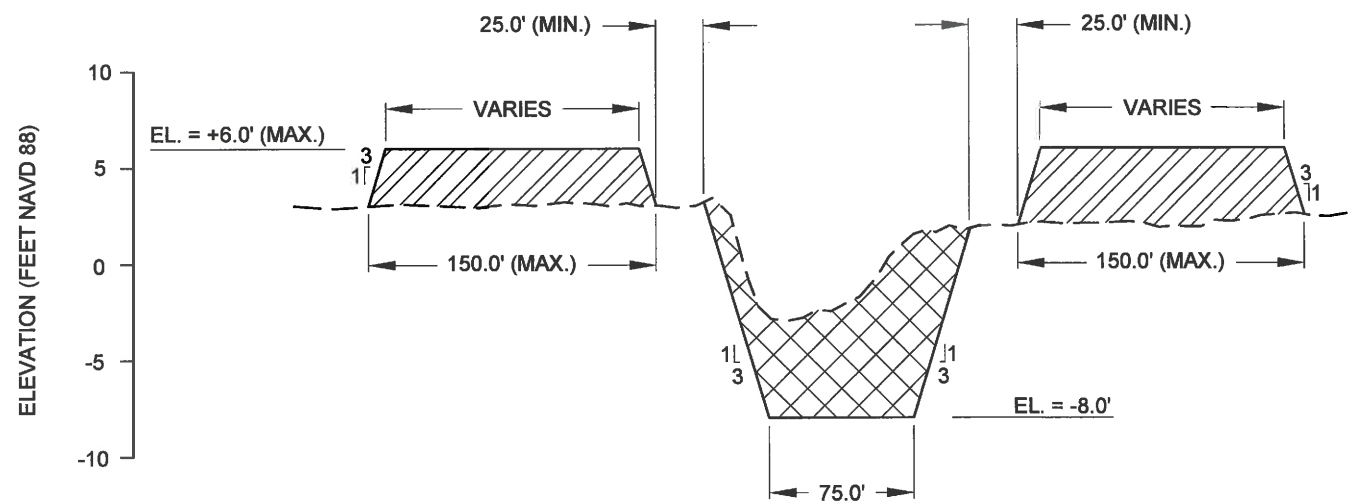
LEGEND	
	CREVASSE
	MECHANICAL DREDGE PLACEMENT OPTION
	EXISTING BOTTOM



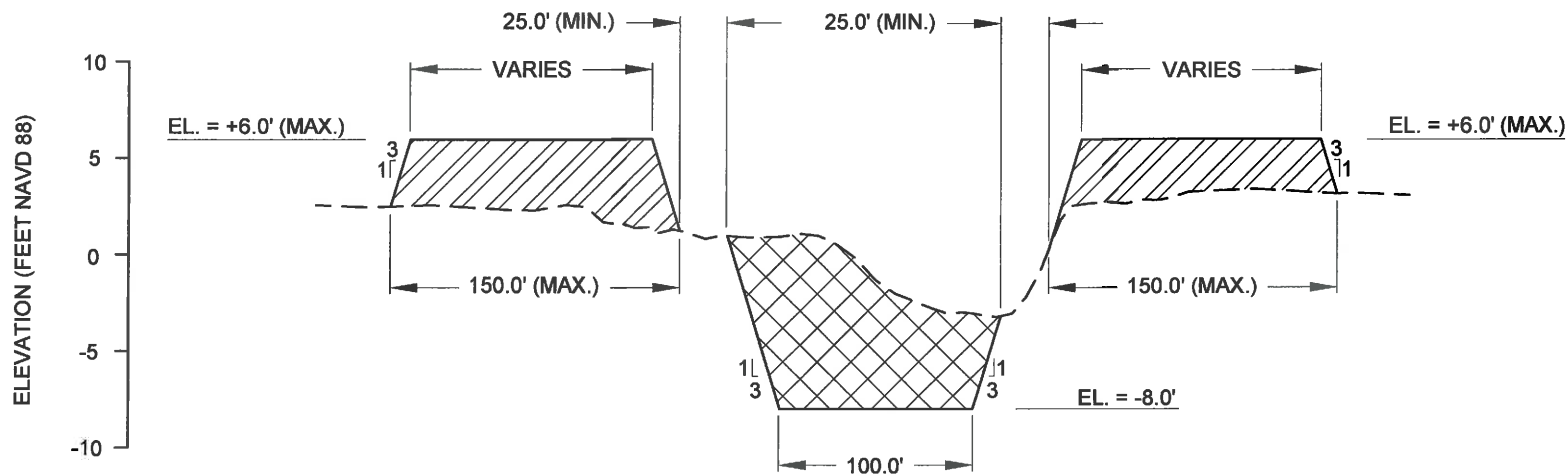
				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		CREVASSE DREDGING AND MECHANICAL PLACEMENT TYPICAL SECTIONS	
						STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09			
						APPROVED BY: SHANNON HAYNES, P.E.			
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	DATE: OCTOBER 2013		SHEET 11 OF 27	



TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 JOHNSON PASS CREVASSE
 E-E
 12/8



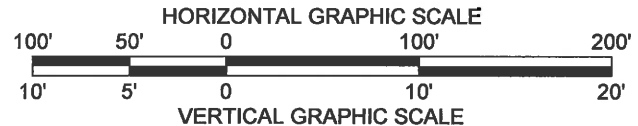
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 SAWDUST BEND CREVASSE
 F-F
 12/9



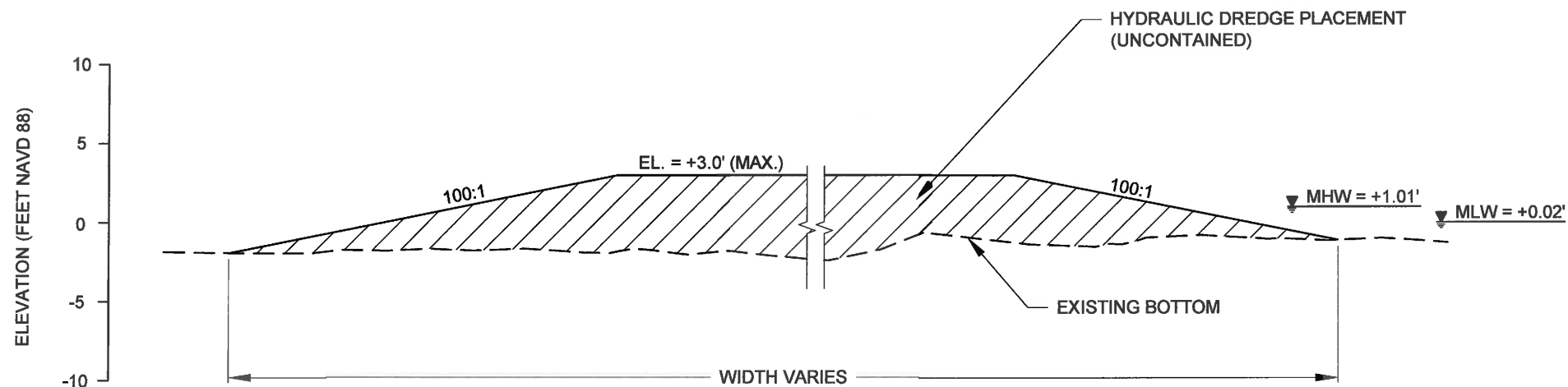
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 SOUTH PASS CREVASSE
 G-G
 12/10



LEGEND	
	CREVASSE
	MECHANICAL DREDGE PLACEMENT OPTION
	EXISTING BOTTOM



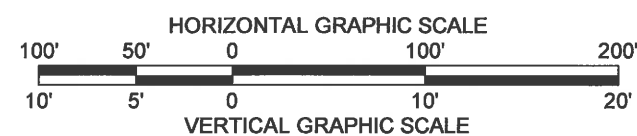
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				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		STATE PROJECT NUMBER: MR-09	
								FEDERAL PROJECT NUMBER: MR-09	
								DATE: OCTOBER 2013	
								APPROVED BY: SHANNON HAYNES, P.E.	
								SHEET 12 OF 27	
REV.	DATE	DESCRIPTION	BY						



TYPICAL SECTION H-H'
 HYDRAULIC DREDGE PLACEMENT
 TYPICAL

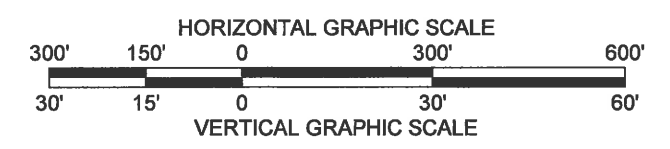
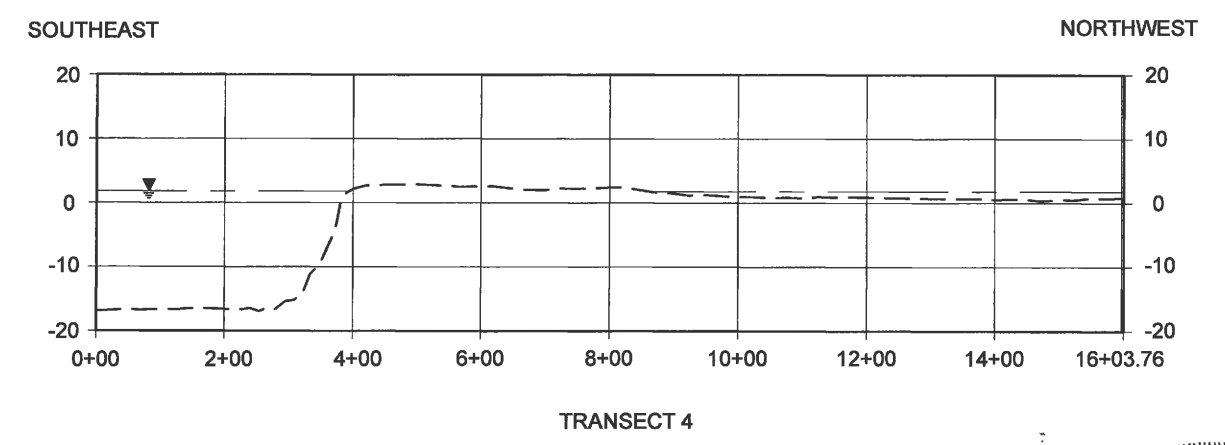
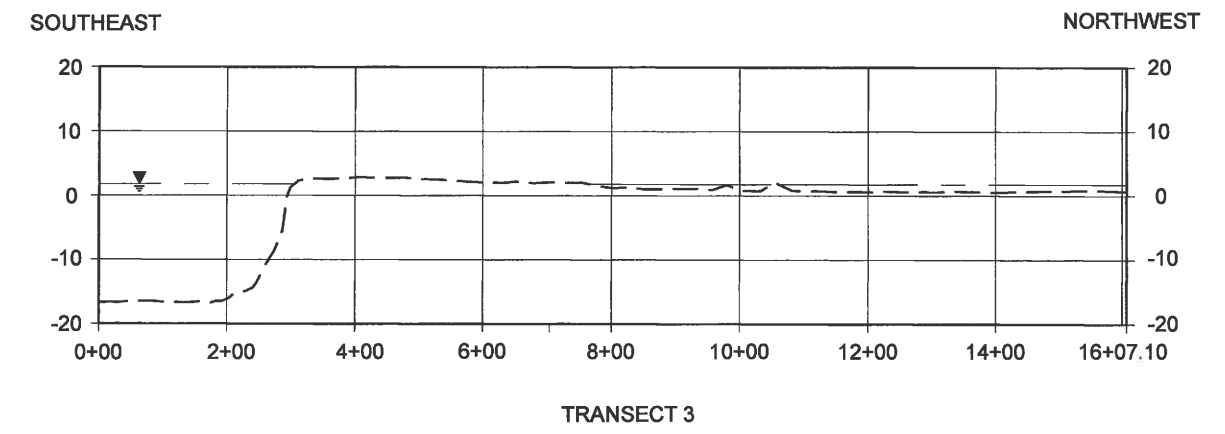


LEGEND	
	CREVASSE
	HYDRAULIC DREDGE PLACEMENT OPTION
	EXISTING BOTTOM



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		HYDRAULIC DREDGE PLACEMENT TYPICAL SECTION	
						STATE PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
						FEDERAL PROJECT NUMBER: MR-09			
				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	
REV.	DATE	DESCRIPTION	BY					SHEET 13 OF 27	

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	282,553.64	3,951,311.23	283,969.89	3,950,551.26	1,607.10
4	282,619.32	3,951,426.84	284,040.57	3,950,683.81	1,603.76



COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES
MAINTENANCE PROJECT

DESIGN SURVEY LAYOUT
FOR MP-1 CREVASSE

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

DATE: OCTOBER 2013

DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

APPROVED BY: SHANNON HAYNES, P.E.

SHEET 14 OF 27

REV.	DATE	DESCRIPTION	BY

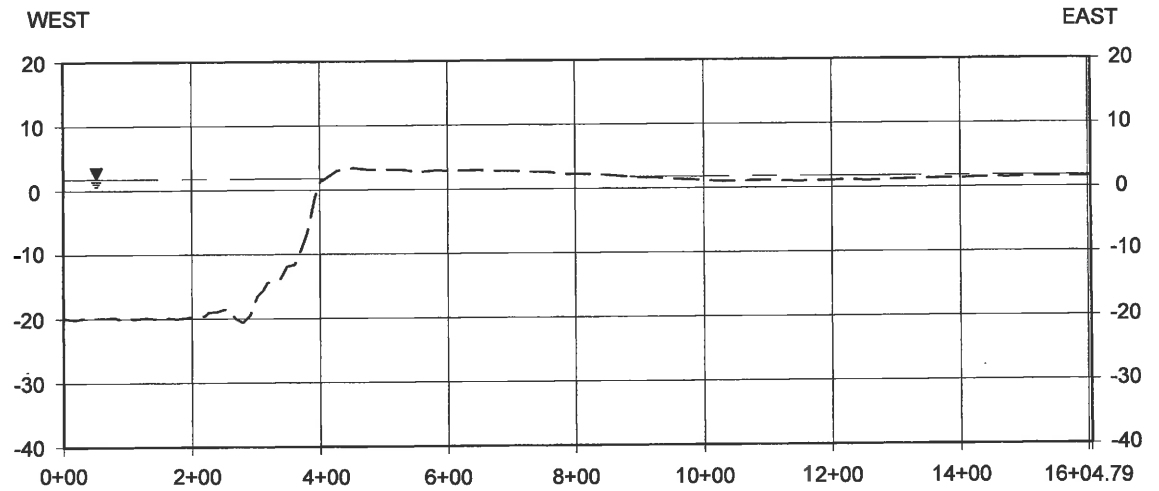
TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	275,562.06	3,948,014.09	275,847.36	3,949,593.31	1,604.79
4	275,668.61	3,947,762.90	275,968.35	3,949,556.30	1,821.69



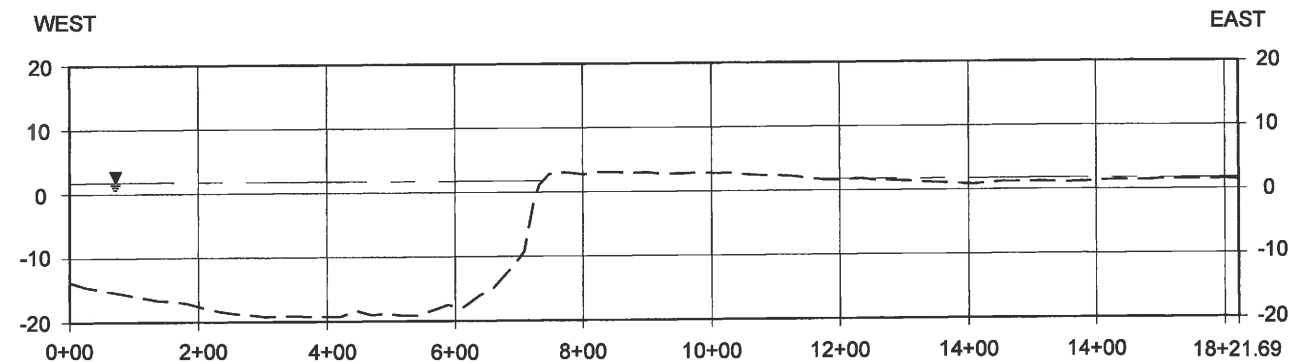
MAIN PASS

TRANSECT 4

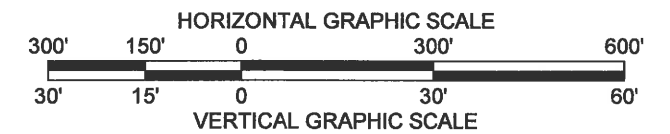
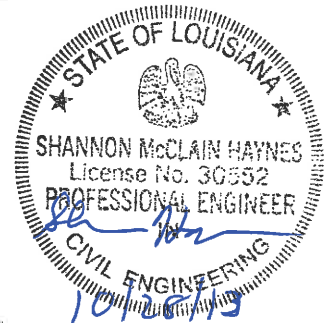
TRANSECT 3



TRANSECT 3



TRANSECT 4

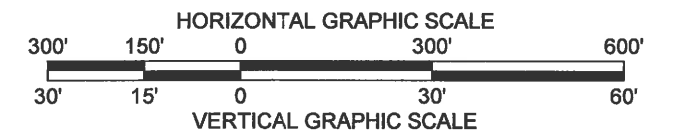
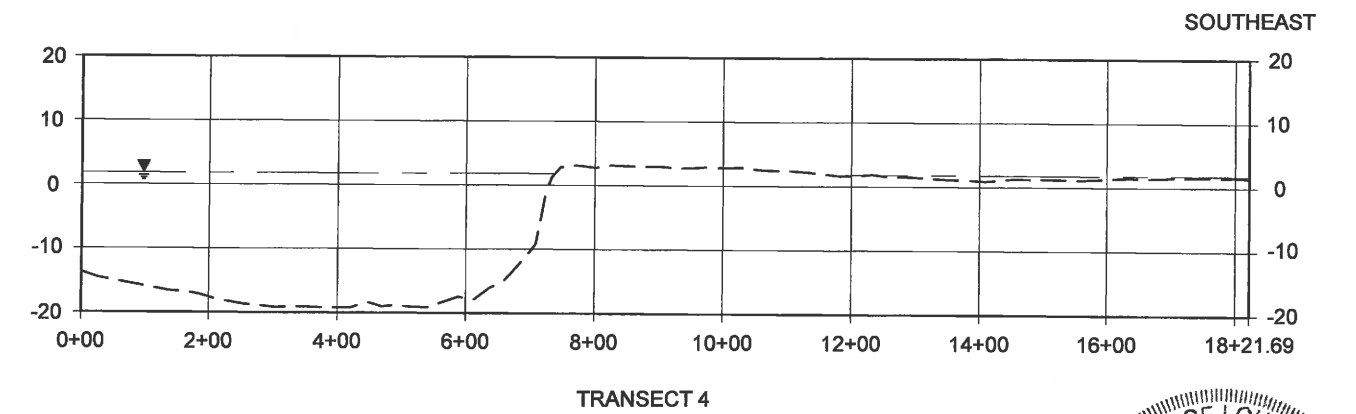
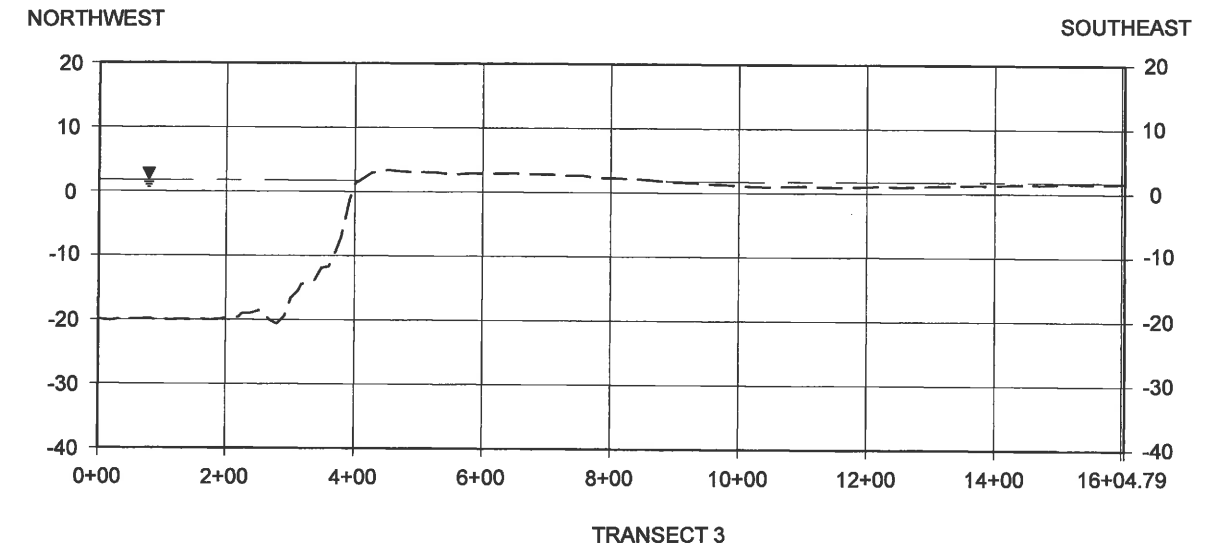


COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801				DELTA-WIDE CREVASSES PROJECT		DESIGN SURVEY LAYOUT FOR MP-3 CREVASSE
				STATE PROJECT NUMBER: MR-09		
				FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013
				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.
REV.	DATE	DESCRIPTION	BY			

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	262,750.84	3,950,360.19	261,984.77	3,951,770.32	1,604.79
4	262,851.78	3,950,490.53	261,982.17	3,952,091.26	1,821.69

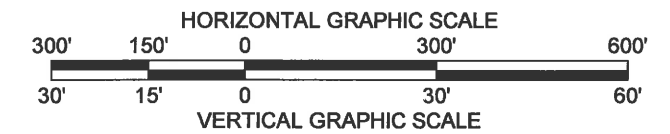
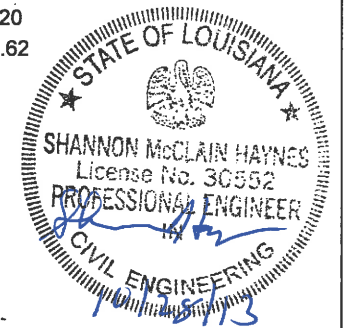
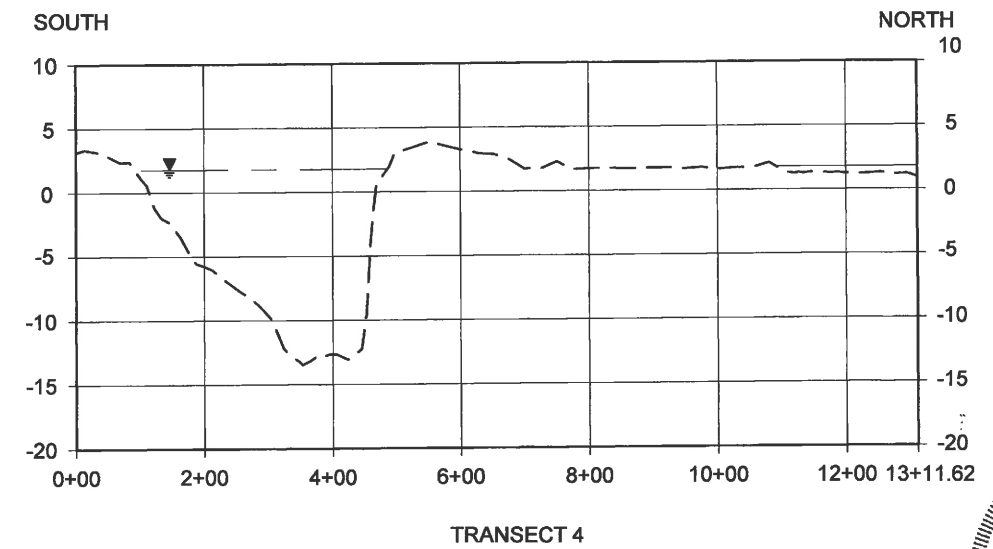
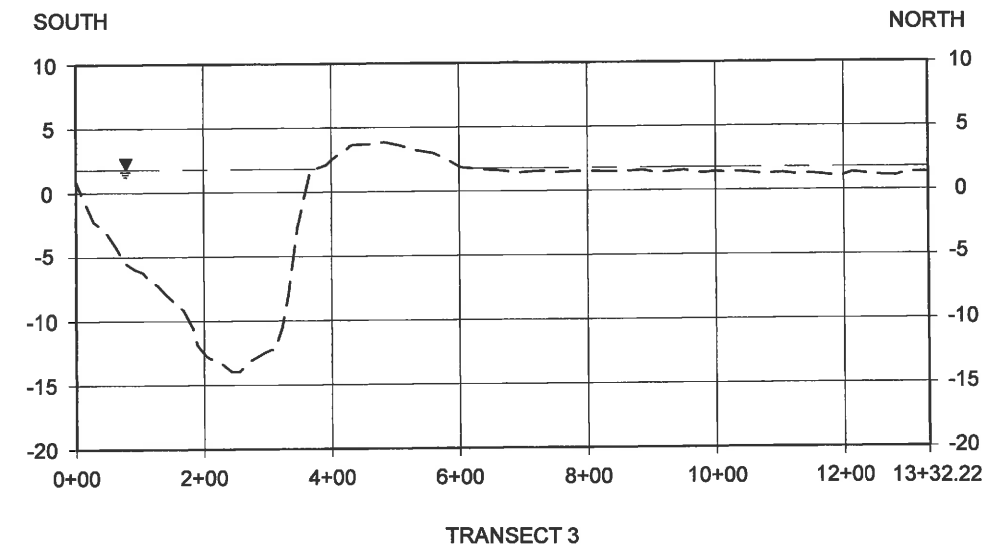
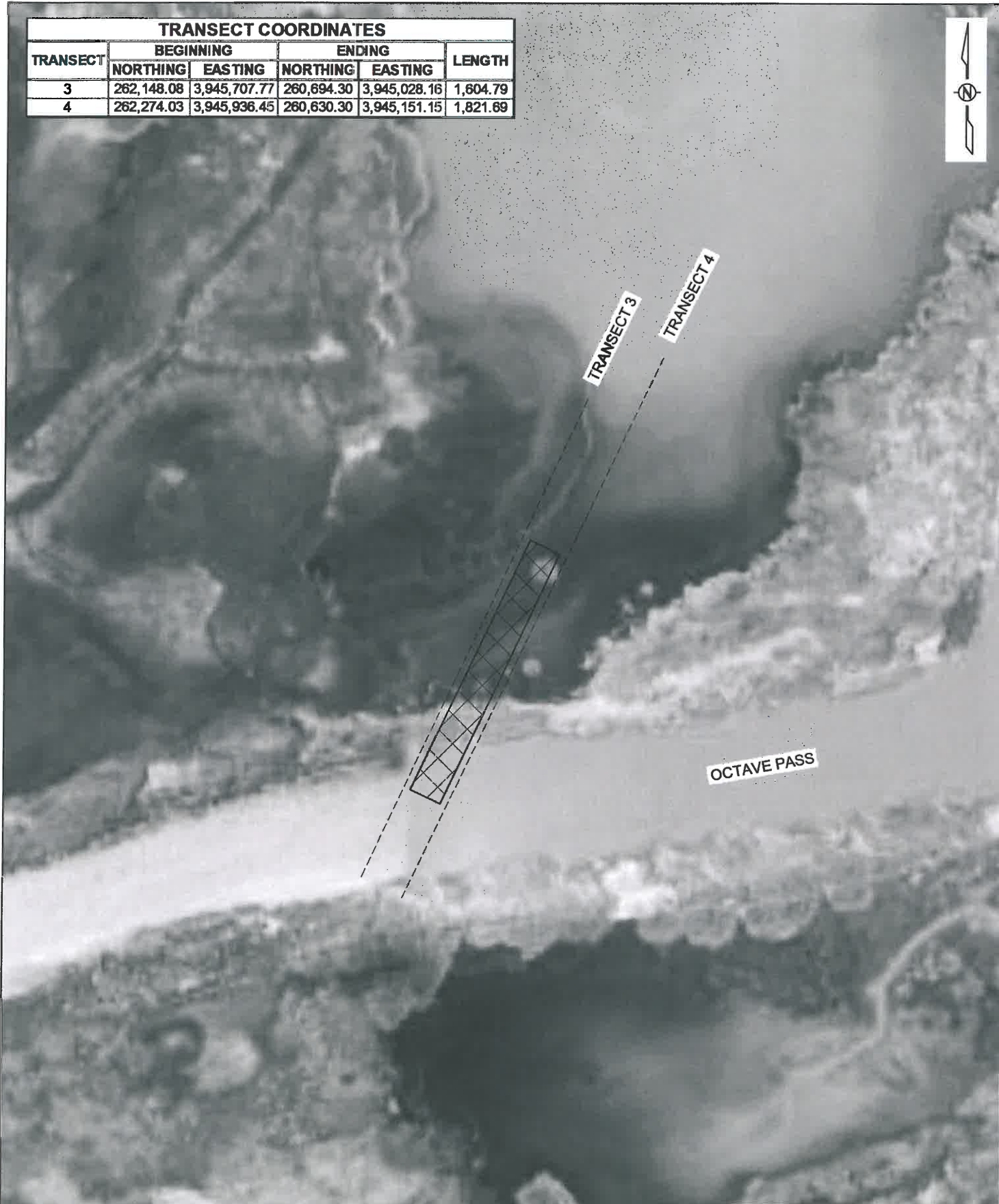


400' 200' 0' 400' 800'



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		DESIGN SURVEY LAYOUT FOR OP-4 CREVASSE	
						STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	
REV.	DATE	DESCRIPTION	BY					SHEET 16 OF 27	

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	262,148.08	3,945,707.77	260,694.30	3,945,028.16	1,604.79
4	262,274.03	3,945,936.45	260,630.30	3,945,151.15	1,821.69



REV.	DATE	DESCRIPTION	BY

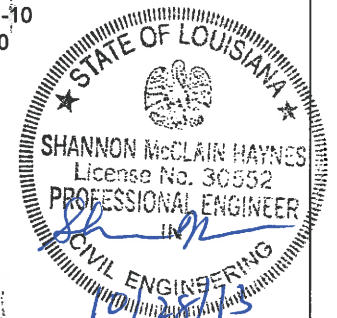
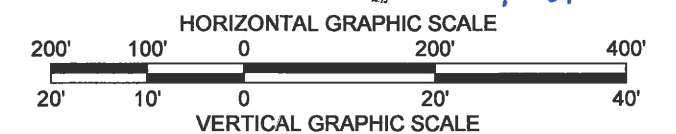
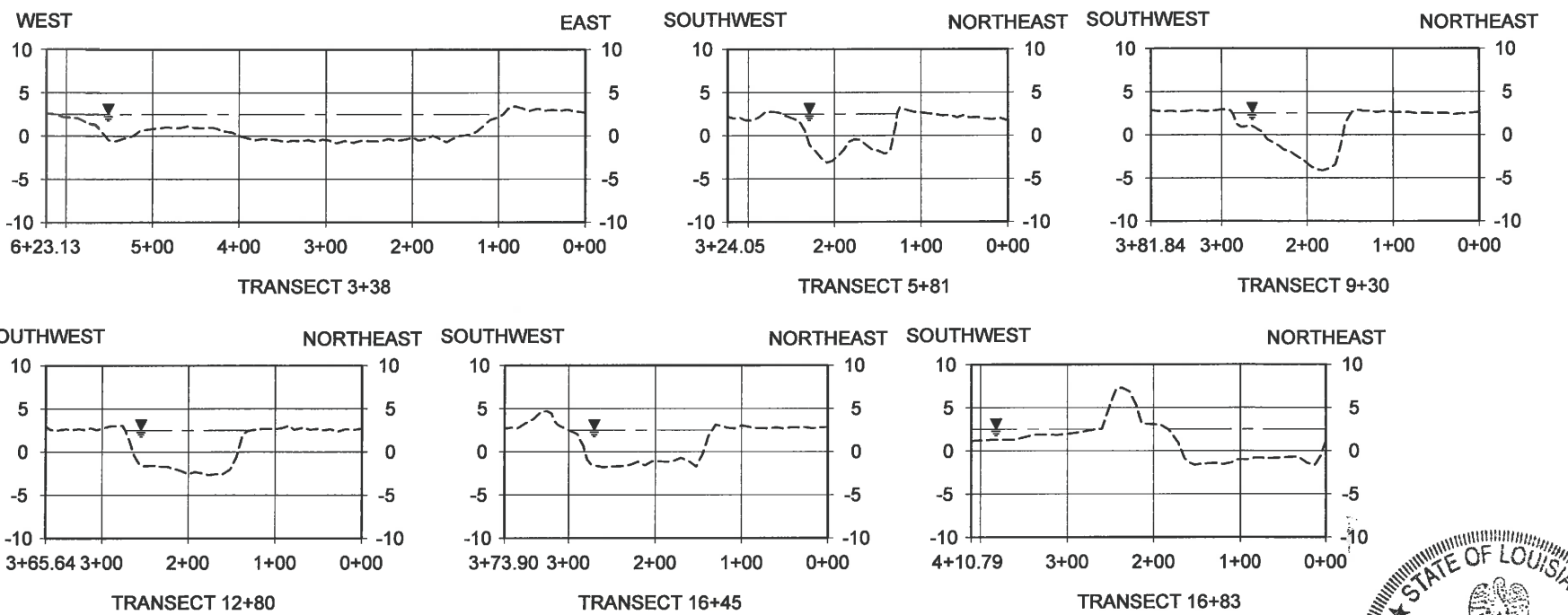
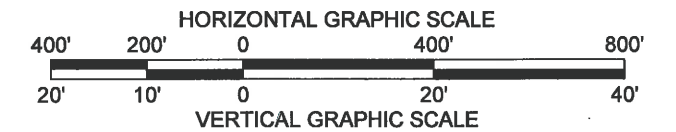
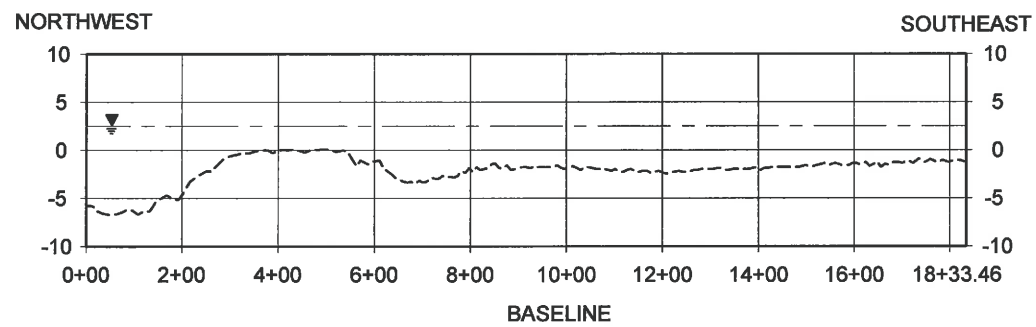
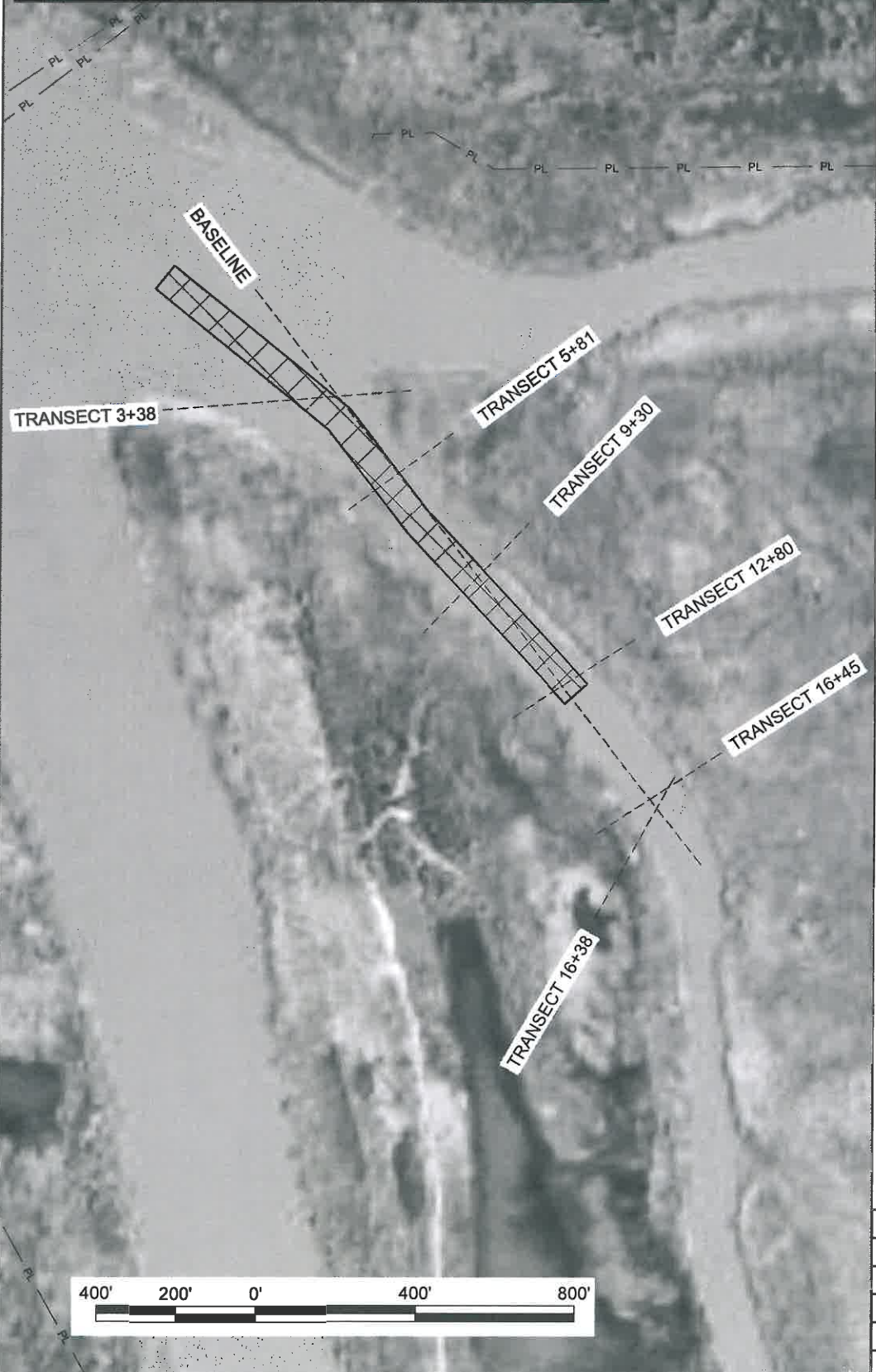
COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES PROJECT
 STATE PROJECT NUMBER: MR-09
 FEDERAL PROJECT NUMBER: MR-09
 APPROVED BY: SHANNON HAYNES, P.E.

DESIGN SURVEY LAYOUT FOR OP-5 CREVASSE
 DATE: OCTOBER 2013
 SHEET 17 OF 27

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
BASELINE	234,488.46	3,959,185.54	233,042.83	3,960,313.25	1,833.46
3+38	234,186.90	3,958,956.29	234,235.94	3,959,577.49	623.13
5+81	234,128.13	3,959,683.54	233,935.90	3,959,422.66	324.05
9+30	233,902.79	3,959,876.45	233,626.53	3,959,612.84	381.84
12+80	233,609.84	3,960,144.13	233,411.84	3,959,836.73	365.64
16+38	232,907.30	3,960,046.87	233,266.35	3,960,246.47	410.79
16+45	233,324.59	3,960,362.52	233,120.33	3,960,049.34	373.90



COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES
MAINTENANCE PROJECT

DESIGN SURVEY LAYOUT
FOR JOHNSON PASS
CREVASSE

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

APPROVED BY: SHANNON HAYNES, P.E.

DATE: OCTOBER 2013

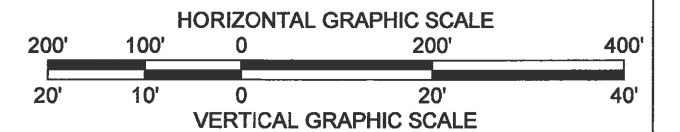
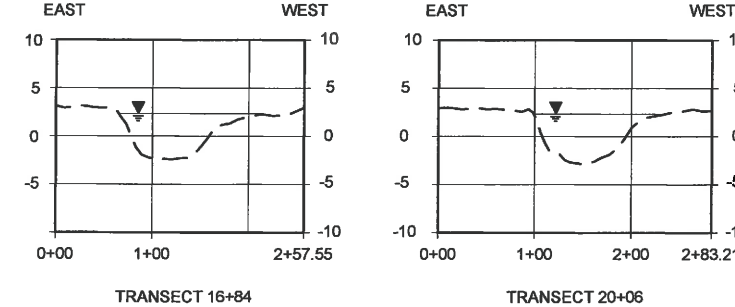
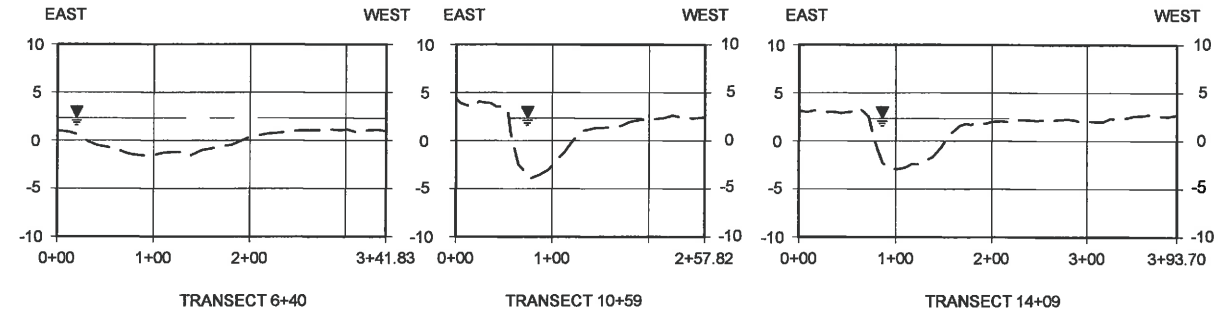
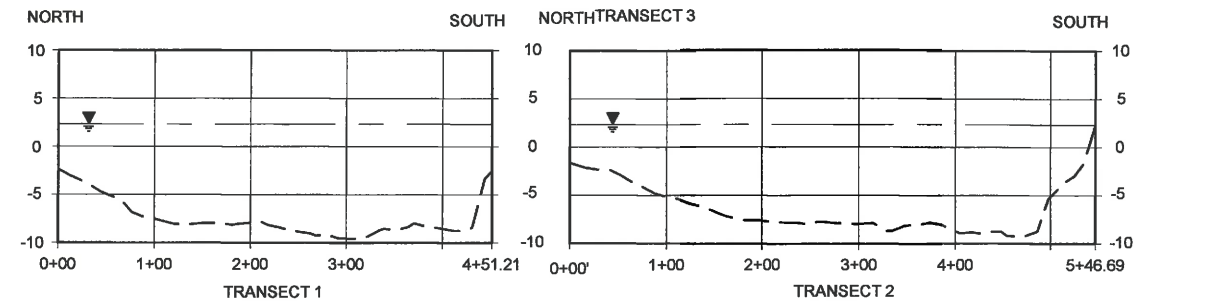
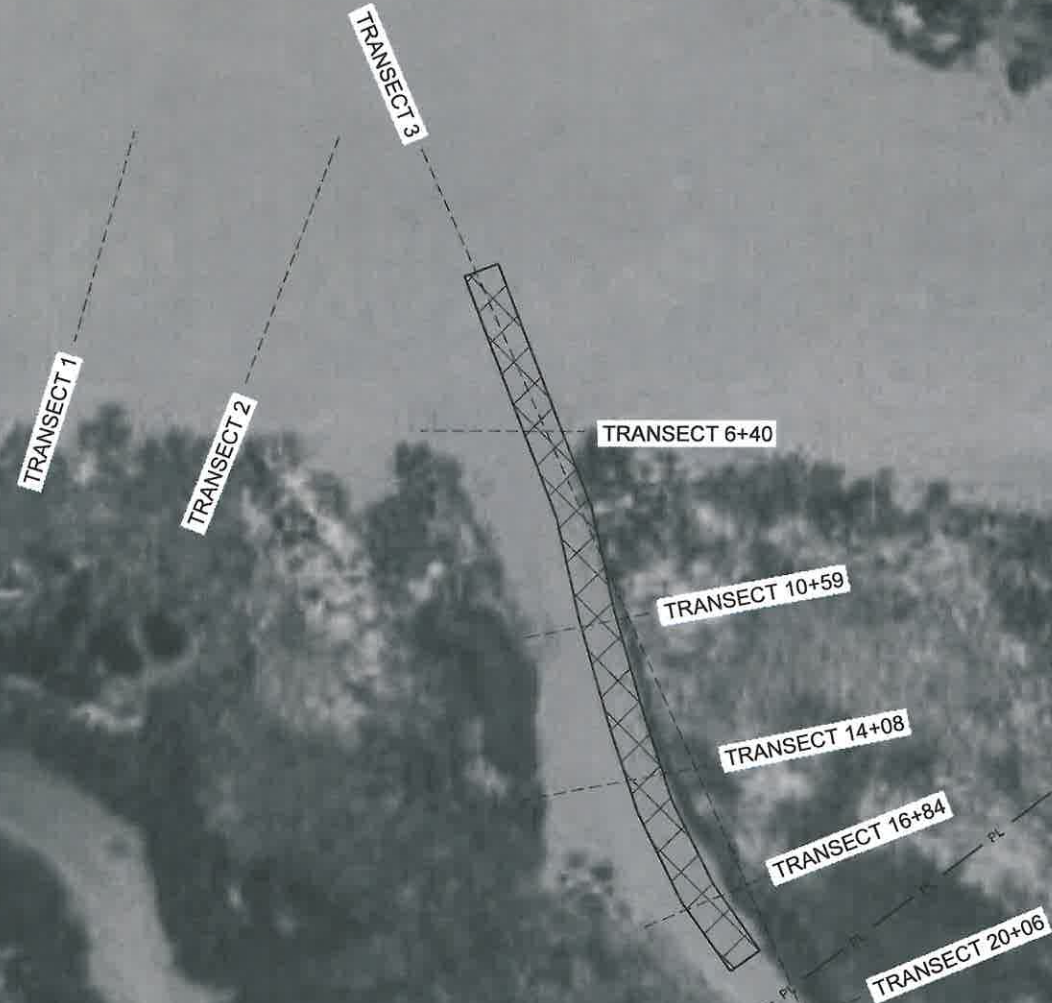
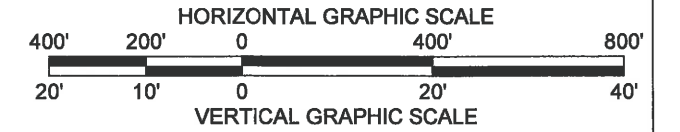
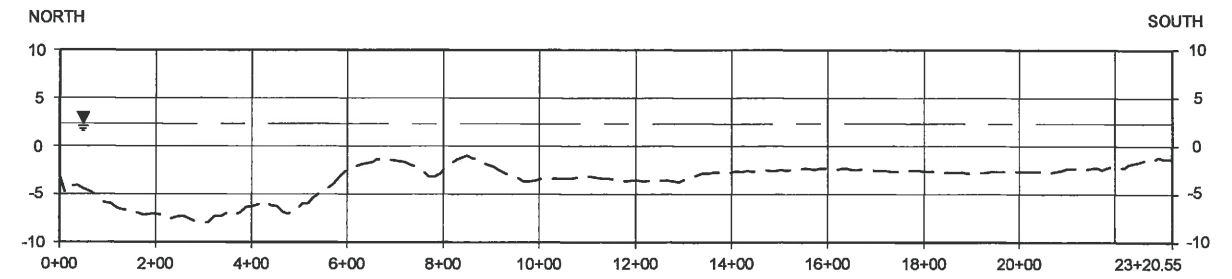
SHEET 18 OF 27

REV.	DATE	DESCRIPTION	BY

DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
1	239,221.34	3,952,432.05	239,655.94	3,952,553.35	451.21
2	239,134.66	3,952,787.05	239,646.27	3,952,979.74	546.69
3	239,621.43	3,953,151.38	237,503.37	3,954,099.43	2,320.55
6+40	239,034.88	3,953,494.55	239,035.96	3,953,152.72	341.83
10+59	238,655.81	3,953,628.21	238,605.63	3,953,375.31	257.82
14+08	238,338.74	3,953,750.63	238,265.84	3,953,363.73	393.70
16+84	238,102.58	3,953,862.00	238,003.98	3,953,624.07	257.55
20+06	237,858.22	3,954,074.30	237,750.91	3,953,812.20	283.21



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.

DELTA-WIDE CREVASSES MAINTENANCE PROJECT

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

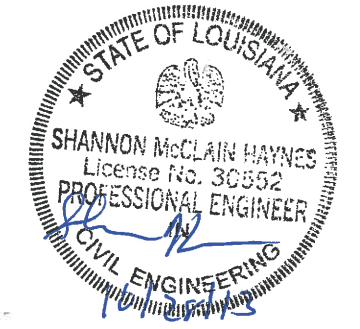
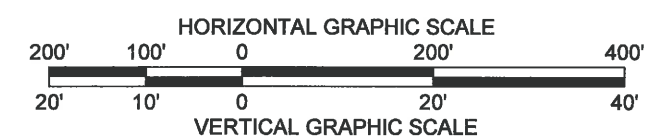
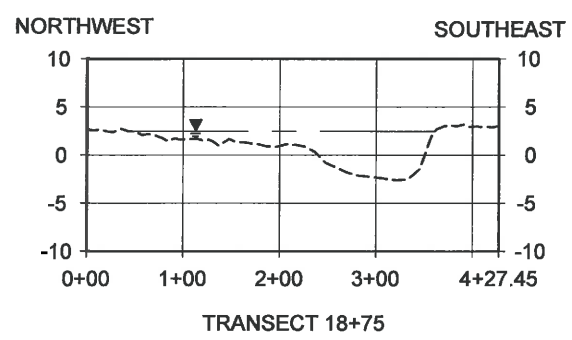
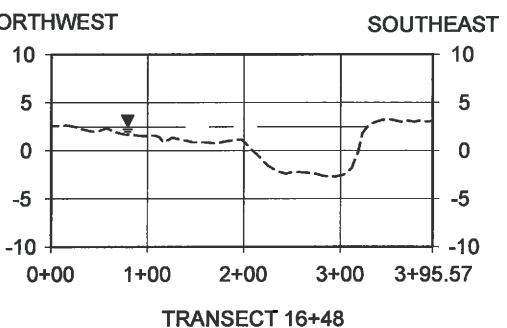
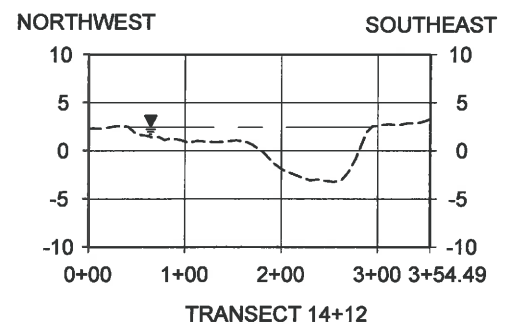
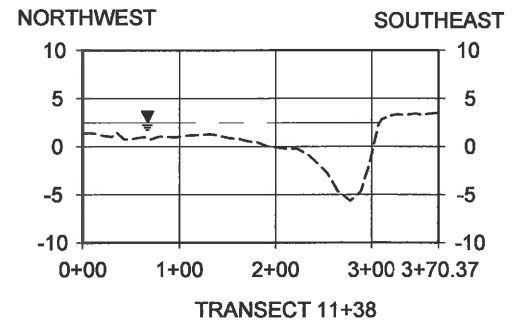
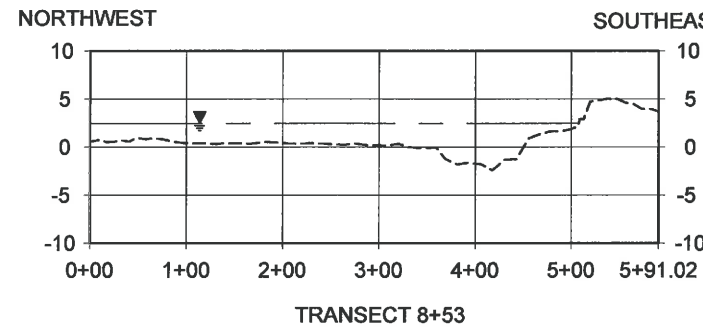
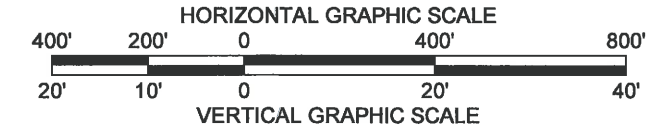
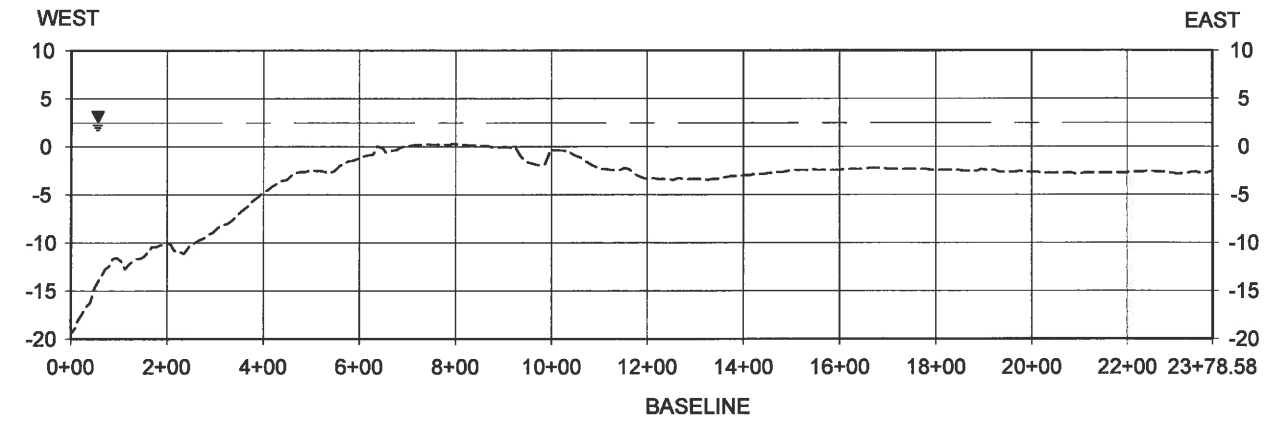
APPROVED BY: SHANNON HAYNES, P.E.

DESIGN SURVEY LAYOUT FOR SAWDUST BEND CREVASSE

DATE: OCTOBER 2013

SHEET 19 OF 27

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
BASELINE	226,476.30	3,950,139.17	226,259.20	3,952,507.82	2,378.58
8+53	226,705.78	3,950,824.60	226,175.56	3,951,101.18	598.02
11+38	226,627.28	3,951,217.59	226,264.48	3,951,292.09	370.37
14+12	226,590.76	3,951,570.89	226,238.40	3,951,532.02	354.49
16+48	226,620.79	3,951,786.54	226,225.80	3,951,765.08	395.57
18+79	226,628.42	3,952,052.37	226,206.13	3,951,986.11	427.45



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES PROJECT		DESIGN SURVEY LAYOUT FOR SOUTH PASS CREVASSE																					
						STATE PROJECT NUMBER: MR-09			DATE: OCTOBER 2013																				
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				REV.	DATE	DESCRIPTION	BY																	DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	SHEET 20 OF 27
				REV.	DATE	DESCRIPTION	BY																						

HYDRAULIC PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	283,063.86	3,951,230.66	282,970.24	3,951,053.93	200.00
T2	283,284.75	3,951,113.57	283,191.13	3,950,936.84	200.00
T3	283,505.63	3,950,996.48	283,412.01	3,950,819.75	200.00
T4	283,726.52	3,950,879.39	283,632.90	3,950,702.66	200.00
T5	283,768.06	3,950,744.19	282,796.17	3,951,259.39	1,100.00
T6	281,966.25	3,947,835.21	280,751.55	3,946,854.75	1,561.02
T7	282,201.30	3,947,382.38	279,540.21	3,945,234.45	3,419.79
T8	282,276.09	3,946,800.19	281,459.09	3,946,140.74	1,049.93
T9	282,274.73	3,946,203.75	281,069.03	3,947,697.51	1,919.64
T10	281,771.66	3,946,030.94	280,799.63	3,947,235.20	1,547.60
T11	281,066.03	3,946,109.09	280,747.69	3,946,503.47	506.82
T12	280,826.90	3,945,609.28	280,298.90	3,946,263.42	840.65
T13	280,344.19	3,945,411.24	279,715.52	3,946,190.10	1,000.92
T14	280,187.44	3,944,908.49	279,492.95	3,945,669.78	978.35
T15	279,859.61	3,944,849.70	280,310.67	3,945,213.77	579.65
T16	279,485.86	3,945,833.13	279,911.67	3,946,176.83	547.22

DREDGE PIPELINE CORRIDOR COORDINATES		
POINT	NORTHING	EASTING
1	282,839.76	3,951,234.86
2	282,697.93	3,951,287.26
3	279,080.71	3,948,974.03
4	279,050.08	3,948,753.93
5	279,177.20	3,948,634.72
6	279,322.01	3,948,328.64
7	279,418.56	3,948,277.09
8	279,828.48	3,948,403.67
9	279,968.83	3,948,401.66
10	280,374.19	3,948,117.50
11	280,441.15	3,948,015.34
12	280,527.24	3,947,737.61
13	280,799.49	3,947,294.10
14	280,899.79	3,947,228.22

MECHANICAL PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	283,160.68	3,951,413.43	282,873.50	3,950,871.29	613.50
T2	283,381.60	3,951,296.40	283,094.42	3,950,754.27	613.50
T3	283,602.52	3,951,179.38	283,315.33	3,950,637.24	613.50
T4	283,823.43	3,951,062.35	283,536.25	3,950,520.21	613.50
T5	283,768.06	3,950,744.19	282,796.17	3,951,259.39	1,100.00



SHANNON HAYNES
 License No. 30852
 PROFESSIONAL ENGINEER
 IN STATE OF LOUISIANA
 CIVIL ENGINEERING
 11/2013

LEGEND	
-----	CREVASSE
-----	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
-----	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.

DELTA-WIDE CREVASSES MAINTENANCE PROJECT

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

APPROVED BY: SHANNON HAYNES, P.E.

CONSTRUCTION SURVEY LAYOUT FOR MP-1 CREVASSE

DATE: OCTOBER 2013

SHEET 21 OF 27

HYDRAULIC PLACEMENT - TRANSECT COORDINATES

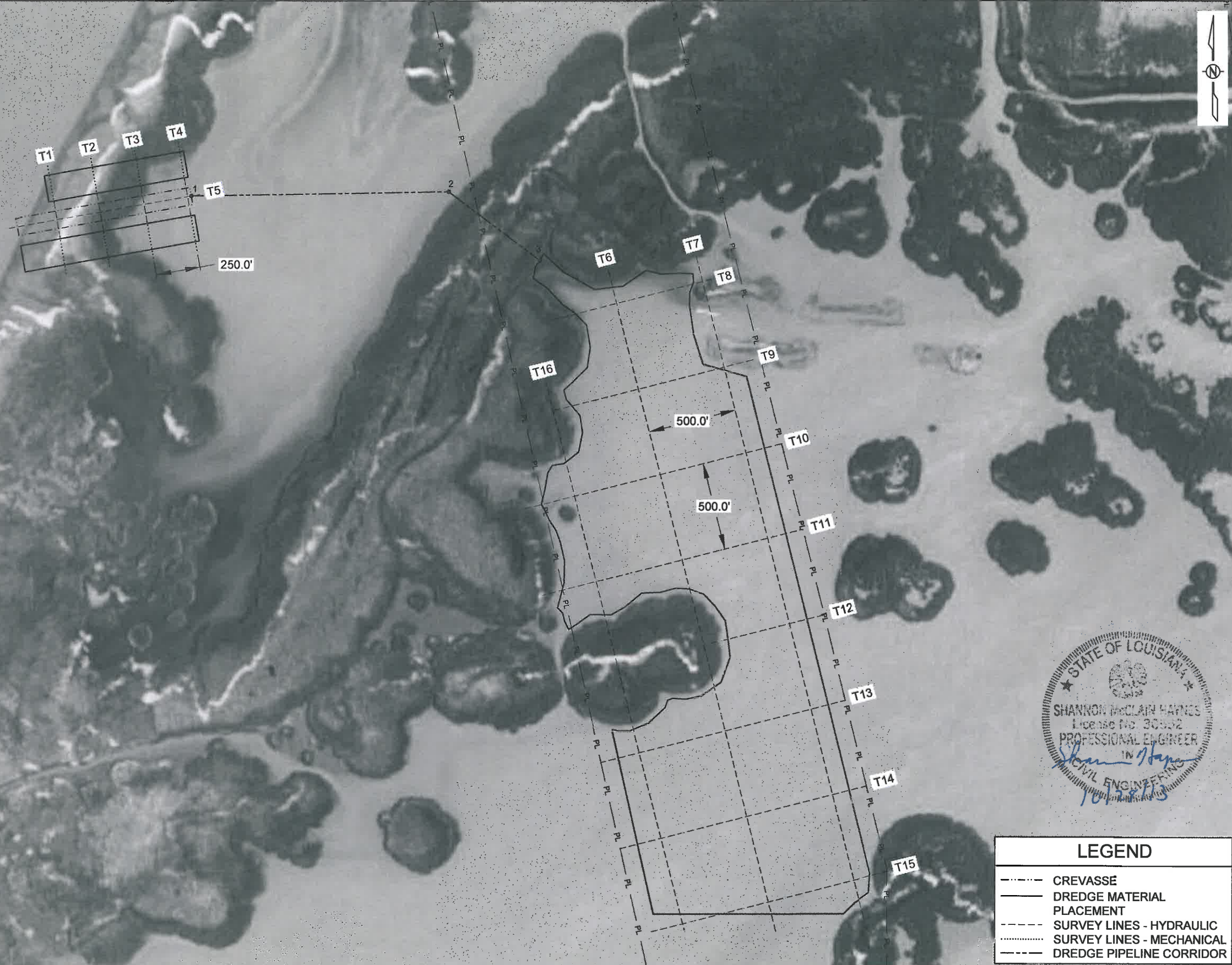
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	275,843.33	3,948,588.95	275,646.44	3,948,624.08	200.00
T2	275,887.25	3,948,835.06	275,690.36	3,948,870.19	200.00
T3	275,931.17	3,949,081.17	275,734.28	3,949,116.31	200.00
T4	275,975.08	3,949,327.29	375,778.19	3,949,362.42	200.00
T5	275,889.14	3,949,414.93	275,695.91	3,948,332.03	1,100.00
T6	275,461.84	3,951,732.93	271,714.23	3,952,689.15	3,867.68
T7	275,540.53	3,952,228.87	271,787.09	3,953,186.58	3,873.69
T8	275,407.93	3,952,313.22	275,179.92	3,951,419.63	922.22
T9	274,953.40	3,952,554.24	274,663.76	3,951,419.07	1,171.53
T10	274,478.37	3,952,714.86	274,106.60	3,951,257.84	1,503.70
T11	273,993.27	3,952,836.05	273,617.49	3,951,363.31	1,519.92
T12	273,508.18	3,952,957.25	273,344.63	3,952,316.27	661.51
T13	273,023.08	3,953,078.45	272,671.36	3,951,700.00	1,422.60
T14	272,537.99	3,953,199.64	272,183.54	3,951,810.52	1,433.63
T15	272,052.89	3,953,320.84	271,712.68	3,951,987.49	1,376.06
T16	274,824.35	3,951,379.57	271,713.09	3,952,173.42	3,210.94

MECHANICAL PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	276,049.23	3,948,552.21	275,440.84	3,948,660.77	618.00
T2	276,093.15	3,948,798.32	275,484.76	3,948,906.88	618.00
T3	276,137.06	3,949,044.43	275,528.67	3,949,152.99	618.00
T4	276,180.98	3,949,290.55	275,572.59	3,949,399.11	618.00
T5	275,889.14	3,949,414.93	275,695.91	3,948,332.03	1,100.00

DREDGE PIPELINE CORRIDOR COORDINATES

POINT	NORTHING	EASTING
1	275,880.36	3,949,365.71
2	275,905.71	3,950,826.95
3	275,517.16	3,951,341.73



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT	CONSTRUCTION SURVEY LAYOUT FOR MP-3 CREVASSE
		STATE PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.
FEDERAL PROJECT NUMBER: MR-09		SHEET 22 OF 27	

HYDRAULIC PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	262,701.00	3,950,612.42	262,462.32	3,951,051.78	500.00
T2	262,557.19	3,950,667.65	262,732.93	3,950,763.13	200.00
T3	262,437.85	3,950,887.33	262,613.59	3,950,982.80	200.00
T4	261,460.17	3,950,852.31	260,806.89	3,950,852.31	653.27
T5	261,912.15	3,951,352.31	260,752.64	3,951,352.31	1,159.50
T6	261,870.57	3,951,466.41	261,870.57	3,951,074.66	391.74
T7	261,690.90	3,951,852.31	26,133.46	3,951,852.31	357.44
T8	261,370.57	3,951,908.05	261,370.57	3,950,774.21	1,133.84
T9	260,870.57	3,951,576.27	260,870.57	3,950,820.88	755.38

DREDGE PIPELINE CORRIDOR COORDINATES

POINT	NORTHING	EASTING
1	262,677.13	3,950,656.36
2	262,486.19	3,951,007.84

MECHANICAL PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	262,701.00	3,950,612.42	262,462.32	3,951,051.78	500.00
T2	262,379.61	3,950,571.18	262,732.93	3,950,763.13	603.71
T3	262,260.27	3,950,790.85	262,789.27	3,951,078.27	603.71



LEGEND	
-----	CREVASSE
————	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
-----	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT	CONSTRUCTION SURVEY LAYOUT FOR OP-4 CREVASSE
		STATE PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.	SHEET 23 OF 27

HYDRAULIC PLACEMENT - TRANSECT COORDINATES

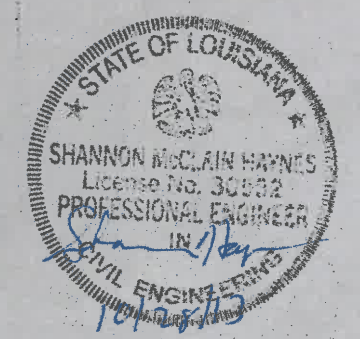
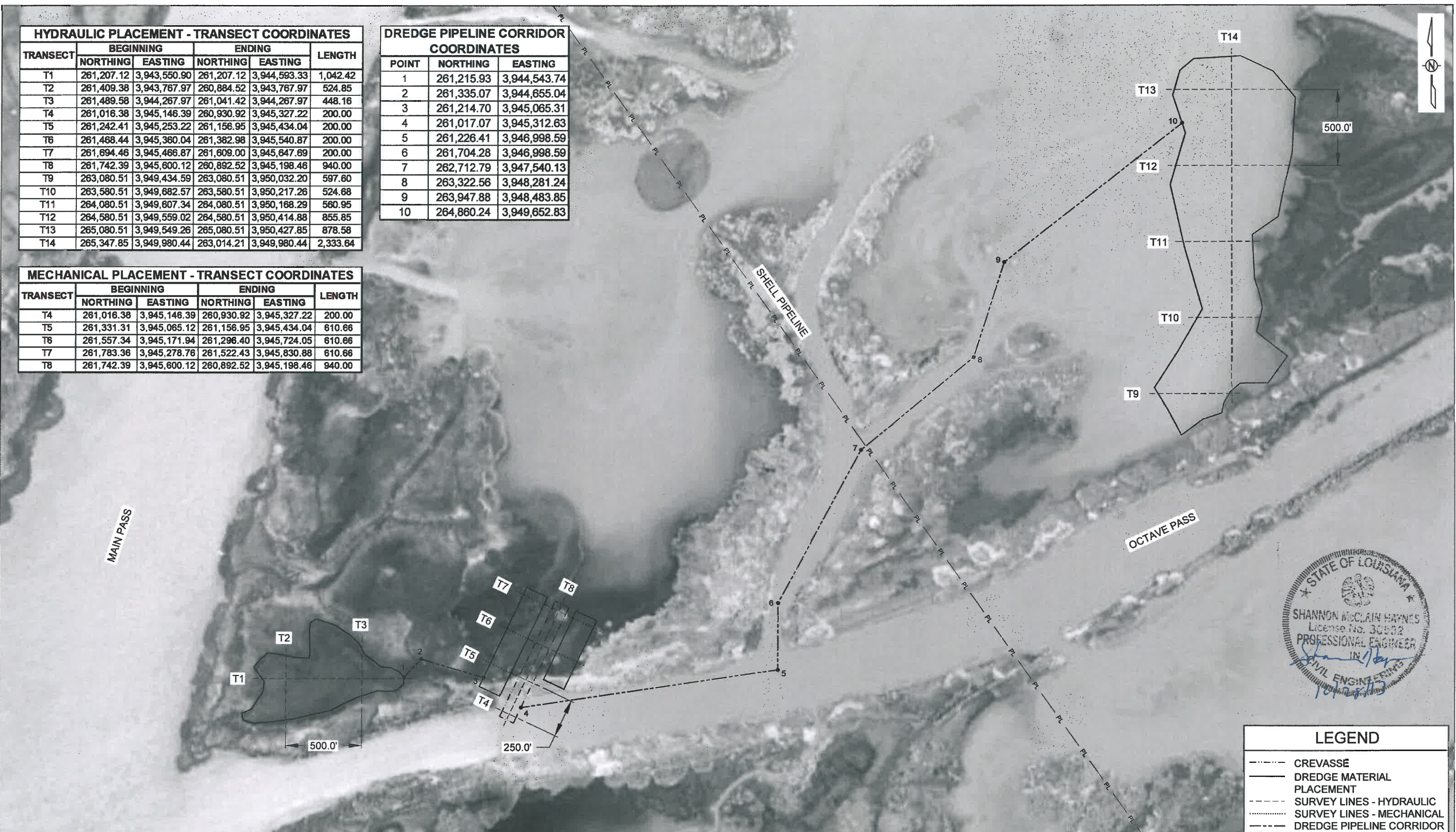
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	261,207.12	3,943,550.90	261,207.12	3,944,593.33	1,042.42
T2	261,409.38	3,943,767.97	260,884.52	3,943,767.97	524.85
T3	261,489.58	3,944,267.97	261,041.42	3,944,267.97	448.16
T4	261,016.38	3,945,146.39	260,930.92	3,945,327.22	200.00
T5	261,242.41	3,945,253.22	261,156.95	3,945,434.04	200.00
T6	261,468.44	3,945,360.04	261,382.98	3,945,540.87	200.00
T7	261,694.46	3,945,466.87	261,609.00	3,945,647.69	200.00
T8	261,742.39	3,945,600.12	260,892.52	3,945,198.46	940.00
T9	263,080.51	3,949,434.59	263,080.51	3,950,032.20	597.60
T10	263,580.51	3,949,682.57	263,580.51	3,950,217.26	524.68
T11	264,080.51	3,949,607.34	264,080.51	3,950,168.29	560.95
T12	264,580.51	3,949,559.02	264,580.51	3,950,414.88	855.85
T13	265,080.51	3,949,549.26	265,080.51	3,950,427.85	878.58
T14	265,347.85	3,949,980.44	263,014.21	3,949,980.44	2,333.64

DREDGE PIPELINE CORRIDOR COORDINATES

POINT	NORTHING	EASTING
1	261,215.93	3,944,543.74
2	261,335.07	3,944,655.04
3	261,214.70	3,945,065.31
4	261,017.07	3,945,312.63
5	261,226.41	3,946,998.59
6	261,704.28	3,946,998.59
7	262,712.79	3,947,540.13
8	263,322.56	3,948,281.24
9	263,947.88	3,948,483.85
10	264,860.24	3,949,652.83

MECHANICAL PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T4	261,016.38	3,945,146.39	260,930.92	3,945,327.22	200.00
T5	261,331.31	3,945,065.12	261,156.95	3,945,434.04	610.66
T6	261,557.34	3,945,171.94	261,296.40	3,945,724.05	610.66
T7	261,783.36	3,945,278.76	261,522.43	3,945,830.88	610.66
T8	261,742.39	3,945,600.12	260,892.52	3,945,198.46	940.00



LEGEND	
-----	CREVASSE
-----	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
-----	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES MAINTENACE PROJECT
 STATE PROJECT NUMBER: MR-09
 FEDERAL PROJECT NUMBER: MR-09
 APPROVED BY: SHANNON HAYNES, P.E.

CONSTRUCTION SURVEY LAYOUT FOR OP-5 CREVASSE
 DATE: OCTOBER 2013
 SHEET 24 OF 27

REV.	DATE	DESCRIPTION	BY

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.

HYDRAULIC PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	234,551.71	3,958,920.97	233,436.19	3,960,030.71	1,580.00
T2	234,480.35	3,959,147.43	234,344.57	3,959,037.02	175.00
T3	234,322.63	3,959,341.40	234,186.85	3,959,230.63	175.00
T4	234,130.14	3,959,534.21	234,023.41	3,959,395.52	175.00
T5	233,939.43	3,959,684.01	233,819.90	3,959,556.19	175.00
T6	233,756.84	3,959,854.77	233,637.31	3,959,726.96	175.00
T7	233,573.69	3,960,024.94	233,454.13	3,959,897.09	175.00
T8	234,204.02	3,960,764.35	234,103.38	3,961,448.98	691.98
T9	234,370.27	3,960,924.26	233,851.30	3,960,847.96	524.54
T10	234,265.76	3,961,414.27	233,834.56	3,961,350.88	435.84
T11	233,540.90	3,962,106.98	232,473.39	3,963,087.53	1,449.51
T12	233,727.72	3,962,583.88	233,164.01	3,961,970.18	833.30
T13	233,406.72	3,962,973.57	232,561.63	3,962,053.51	1,249.30
T14	232,866.79	3,963,405.09	232,372.08	3,963,859.51	671.73
T15	233,137.42	3,963,791.38	232,539.57	3,964,340.54	811.79
T16	233,130.87	3,964,151.47	232,458.59	3,963,419.58	993.79
T17	232,614.64	3,964,328.58	232,268.16	3,963,951.38	512.18
T18	232,174.43	3,963,110.22	231,814.81	3,962,718.71	513.59
T19	231,851.85	3,962,979.53	232,735.54	3,962,167.81	1,199.90
T20	231,925.91	3,962,100.55	232,990.41	3,963,259.43	1,573.57
T21	231,708.38	3,960,026.52	231,927.49	3,959,710.28	384.72
T22	232,012.23	3,960,083.65	231,706.73	3,959,871.99	371.85
T23	232,355.63	3,959,970.28	232,255.57	3,959,686.02	345.81
T24	232,818.61	3,960,179.99	233,023.67	3,959,884.03	360.05
T25	233,007.40	3,960,164.86	232,343.26	3,959,704.72	807.96

MECHANICAL PLACEMENT - TRANSECT COORDINATES

TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	234,551.71	3,958,920.97	233,436.19	3,960,030.71	1,580.00
T2	234,480.35	3,959,147.43	234,344.57	3,959,037.02	175.00
T3	234,322.63	3,959,341.40	234,186.85	3,959,230.63	175.00
T4	234,254.18	3,959,695.37	233,901.62	3,959,237.27	578.06
T5	234,078.22	3,959,832.41	233,683.58	3,959,410.43	577.75
T6	233,895.03	3,960,002.53	233,500.43	3,959,580.60	577.70
T7	233,711.84	3,960,172.66	233,317.28	3,959,750.76	577.64

DREDGE PIPELINE CORRIDOR COORDINATES

POINT	NORTHING	EASTING
1	233,473.41	3,959,997.33
2	233,314.77	3,960,146.62
3	232,953.75	3,960,313.00
4	232,406.04	3,960,331.11
5	232,082.31	3,960,352.02
6	231,936.10	3,960,393.94
7	231,810.79	3,960,346.79
8	231,813.47	3,960,231.47
9	234,292.18	3,969,299.58
10	234,349.07	3,959,512.79
11	234,351.91	3,959,907.32
12	234,394.43	3,960,080.46
13	234,468.14	3,960,276.31
14	234,502.16	3,960,628.27
15	234,486.42	3,961,029.01
16	234,328.99	3,960,989.36
17	234,465.42	3,961,302.04
18	234,445.35	3,961,565.57
19	234,396.27	3,961,951.93
20	234,382.89	3,962,143.99
21	233,921.14	3,962,170.79
22	233,785.94	3,962,248.04



LEGEND	
-----	CREVASSE
————	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
-----	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR

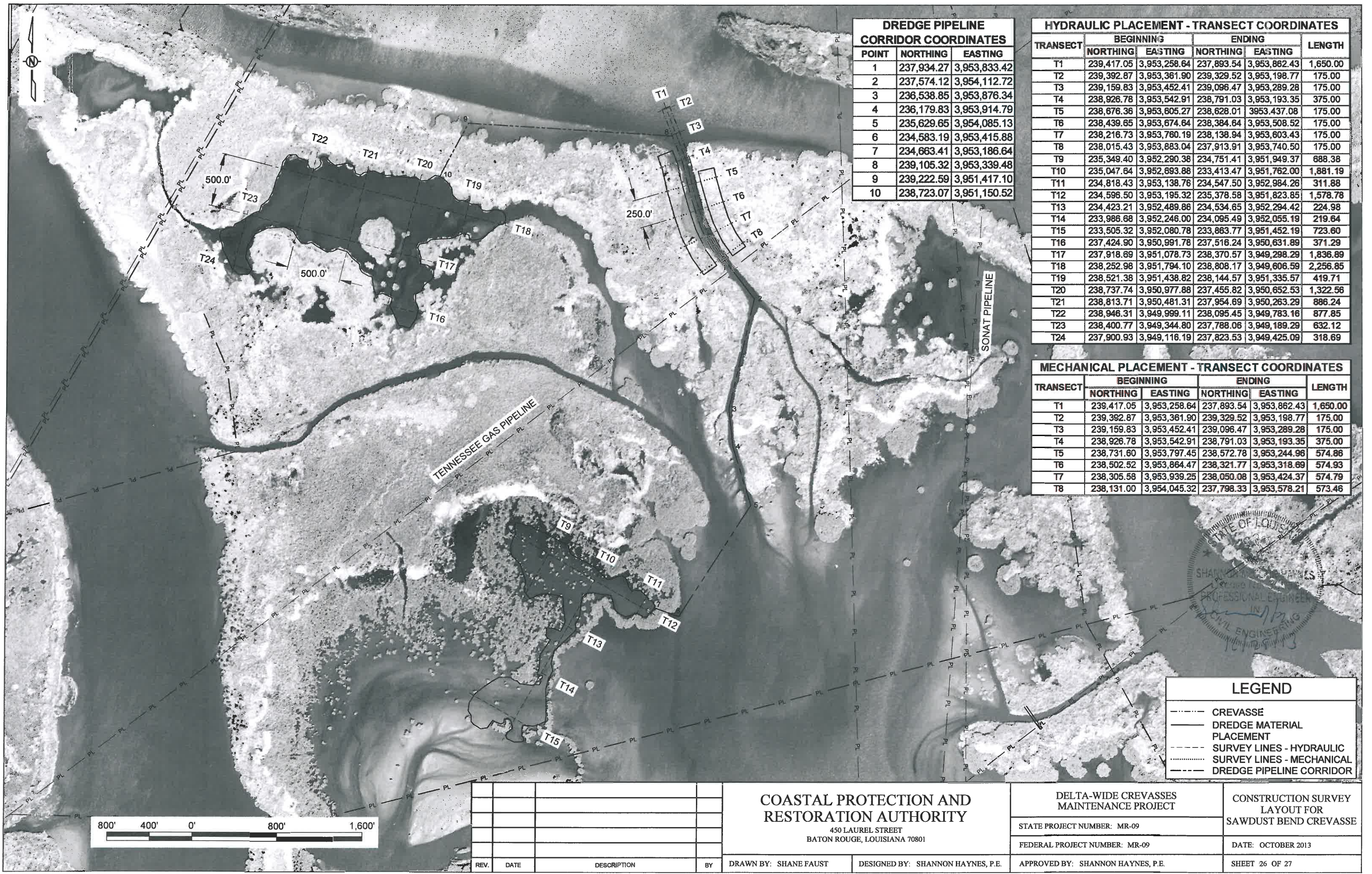
COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES MAINTENANCE PROJECT
 STATE PROJECT NUMBER: MR-09
 FEDERAL PROJECT NUMBER: MR-09
 APPROVED BY: SHANNON HAYNES, P.E.

CONSTRUCTION SURVEY LAYOUT FOR JOHNSON PASS CREVASSE
 DATE: OCTOBER 2013
 SHEET 25 OF 27

REV.	DATE	DESCRIPTION	BY

DRAWN BY: SHANE FAUST DESIGNED BY: SHANNON HAYNES, P.E.



DREDGE PIPELINE CORRIDOR COORDINATES		
POINT	NORTHING	EASTING
1	237,934.27	3,953,833.42
2	237,574.12	3,954,112.72
3	236,538.85	3,953,876.34
4	236,179.83	3,953,914.79
5	235,629.65	3,954,085.13
6	234,583.19	3,953,415.88
7	234,663.41	3,953,186.64
8	239,105.32	3,953,339.48
9	239,222.59	3,951,417.10
10	238,723.07	3,951,150.52

HYDRAULIC PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	239,417.05	3,953,258.64	237,893.54	3,953,862.43	1,650.00
T2	239,392.87	3,953,361.90	239,329.52	3,953,198.77	175.00
T3	239,159.83	3,953,452.41	239,096.47	3,953,289.28	175.00
T4	238,926.78	3,953,542.91	238,791.03	3,953,193.35	375.00
T5	238,676.36	3,953,605.27	238,628.01	3,953,437.08	175.00
T6	238,439.65	3,953,674.64	238,384.64	3,953,508.52	175.00
T7	238,216.73	3,953,760.19	238,138.94	3,953,603.43	175.00
T8	238,015.43	3,953,883.04	237,913.91	3,953,740.50	175.00
T9	235,349.40	3,952,290.38	234,751.41	3,951,949.37	688.38
T10	235,047.64	3,952,693.88	233,413.47	3,951,762.00	1,881.19
T11	234,818.43	3,953,138.76	234,547.50	3,952,984.26	311.88
T12	234,596.50	3,953,195.32	235,378.58	3,951,823.85	1,578.78
T13	234,423.21	3,952,489.86	234,534.65	3,952,294.42	224.98
T14	233,986.68	3,952,246.00	234,095.49	3,952,055.19	219.64
T15	233,505.32	3,952,080.78	233,863.77	3,951,452.19	723.60
T16	237,424.90	3,950,991.78	237,516.24	3,950,631.89	371.29
T17	237,918.69	3,951,078.73	238,370.57	3,949,298.29	1,836.89
T18	238,252.98	3,951,794.10	238,808.17	3,949,606.59	2,256.85
T19	238,521.38	3,951,438.82	238,144.57	3,951,335.57	419.71
T20	238,737.74	3,950,977.88	237,455.82	3,950,652.53	1,322.56
T21	238,813.71	3,950,481.31	237,954.69	3,950,263.29	886.24
T22	238,946.31	3,949,999.11	238,095.45	3,949,783.16	877.85
T23	238,400.77	3,949,344.80	237,788.06	3,949,189.29	632.12
T24	237,900.93	3,949,116.19	237,823.53	3,949,425.09	318.69

MECHANICAL PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	239,417.05	3,953,258.64	237,893.54	3,953,862.43	1,650.00
T2	239,392.87	3,953,361.90	239,329.52	3,953,198.77	175.00
T3	239,159.83	3,953,452.41	239,096.47	3,953,289.28	175.00
T4	238,926.78	3,953,542.91	238,791.03	3,953,193.35	375.00
T5	238,731.60	3,953,797.45	238,572.78	3,953,244.96	574.86
T6	238,502.52	3,953,864.47	238,321.77	3,953,318.69	574.93
T7	238,305.58	3,953,939.25	238,050.08	3,953,424.37	574.79
T8	238,131.00	3,954,045.32	237,798.33	3,953,578.21	573.46

LEGEND	
-----	CREVASSE
-----	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
-----	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR



REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT STATE PROJECT NUMBER: MR-09 FEDERAL PROJECT NUMBER: MR-09 APPROVED BY: SHANNON HAYNES, P.E.	CONSTRUCTION SURVEY LAYOUT FOR SAWDUST BEND CREVASSE DATE: OCTOBER 2013 SHEET 26 OF 27
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HYDRAULIC PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	226,487.34	3,950,333.70	226,378.75	3,951,751.24	1,421.95
T2	226,582.23	3,950,406.38	226,382.78	3,950,391.58	200.00
T3	226,563.73	3,950,655.69	226,364.28	3,950,640.90	200.00
T4	226,545.24	3,950,905.01	226,345.78	3,950,890.21	200.00
T5	226,526.02	3,951,154.64	226,326.63	3,951,139.10	200.00
T6	226,513.61	3,951,400.89	226,313.79	3,951,392.40	200.00
T7	226,489.28	3,951,656.31	226,290.38	3,951,635.40	200.00
T10	227,070.21	3,951,712.52	227,731.54	3,952,131.84	783.06
T11	227,167.71	3,952,053.22	227,583.93	3,951,396.80	777.25
T12	227,666.39	3,952,200.47	228,239.51	3,951,296.60	1,070.25
T13	228,339.35	3,952,072.85	228,788.86	3,951,363.92	839.42
T14	228,664.19	3,952,131.17	227,535.36	3,951,415.42	1,336.62
T15	228,905.76	3,952,113.26	229,161.90	3,951,709.31	478.31
T16	229,386.07	3,951,996.85	228,303.55	3,951,310.46	1,281.78
T17	227,289.36	3,953,923.05	226,592.48	3,955,265.47	1,512.52
T18	227,677.59	3,954,260.41	227,165.26	3,955,247.32	1,111.97
T19	227,783.80	3,954,507.96	228,831.95	3,954,013.83	1,072.46
T20	227,447.65	3,954,896.81	226,702.84	3,954,510.17	839.18
T21	227,044.97	3,955,251.13	226,386.21	3,954,909.16	742.23
T22	226,058.81	3,954,123.06	226,214.33	3,953,823.49	337.53
T23	226,357.40	3,953,767.49	226,666.32	3,953,927.85	348.06

DREDGE PIPELINE CORRIDOR COORDINATES		
POINT	NORTHING	EASTING
1	226,383.98	3,951,701.51
2	226,353.54	3,952,224.47
3	226,657.45	3,952,301.83
4	226,946.07	3,952,170.97
5	227,087.65	3,952,007.41
6	227,186.20	3,951,991.99
7	226,130.03	3,952,754.64
8	225,739.27	3,953,145.88
9	225,582.97	3,953,520.35
10	225,582.97	3,954,157.50
11	225,907.85	3,954,187.82
12	226,030.89	3,954,052.29
13	226,615.69	3,953,907.80
14	226,787.96	3,954,086.51

MECHANICAL PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	226,487.34	3,950,333.70	226,378.75	3,951,751.24	1,421.95
T2	226,582.23	3,950,406.38	226,382.78	3,950,391.58	200.00
T3	227,191.69	3,950,702.28	226,364.28	3,950,640.90	829.68
T4	226,880.86	3,950,929.91	226,345.78	3,950,890.21	536.54
T5	226,820.99	3,951,177.63	225,929.54	3,951,108.15	773.29
T6	226,790.99	3,951,412.67	226,107.66	3,951,383.65	581.32
T7	226,489.28	3,951,656.31	226,089.94	3,951,614.33	401.54
T8	225,884.55	3,951,132.91	226,005.08	3,951,351.94	250.00
T9	225,664.52	3,951,253.44	225,786.05	3,951,472.47	250.00



LEGEND	
.....	CREVASSE
————	DREDGE MATERIAL PLACEMENT
-----	SURVEY LINES - HYDRAULIC
.....	SURVEY LINES - MECHANICAL
-----	DREDGE PIPELINE CORRIDOR



COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801				DELTA-WIDE CREVASSES MAINTENANCE PROJECT		CONSTRUCTION SURVEY LAYOUT FOR SOUTH PASS CREVASSE	
				STATE PROJECT NUMBER: MR-09		FEDERAL PROJECT NUMBER: MR-09	
DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.		SHEET 27 OF 27	
REV.	DATE	DESCRIPTION	BY				