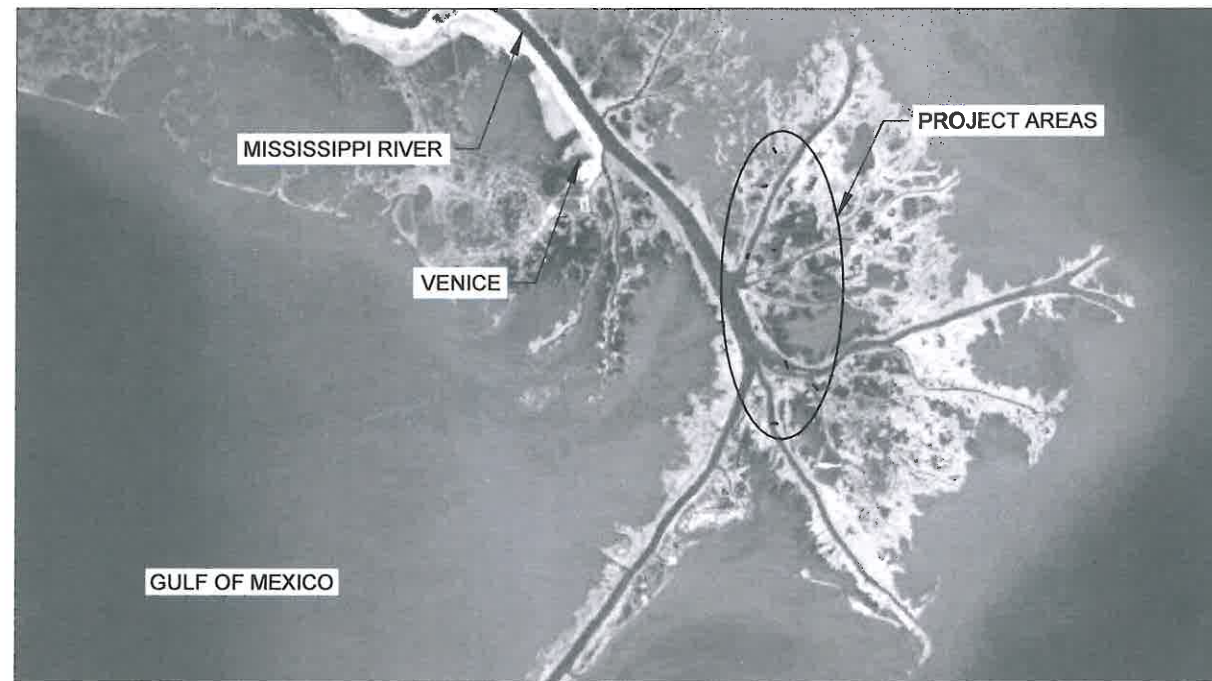
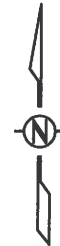


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40,000' 20,000' 0' 40,000' 80,000'




CHIEF - ENGINEERING DIVISION


ENGINEERING MANAGER


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		TITLE SHEET	
					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 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.

<u>SECONDARY SURVEY MONUMENTS</u>	<u>ELEVATION</u>	<u>NORTHING</u>	<u>EASTING</u>
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

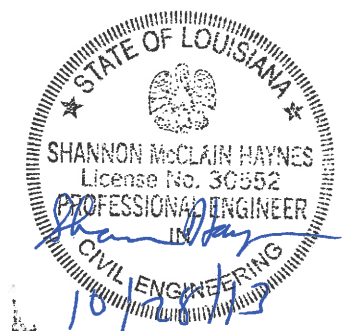
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	SURVEYING	LUMP SUM	1
3	DREDGING CREVASSES MP-1, OP-4, OP-5, JOHNSON PASS, SAWDUST BEND, AND SOUTH PASS	CUBIC YARD	212,695

* 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 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DELTA-WIDE CREVASSES MAINTENANCE PROJECT	GENERAL NOTES		
					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

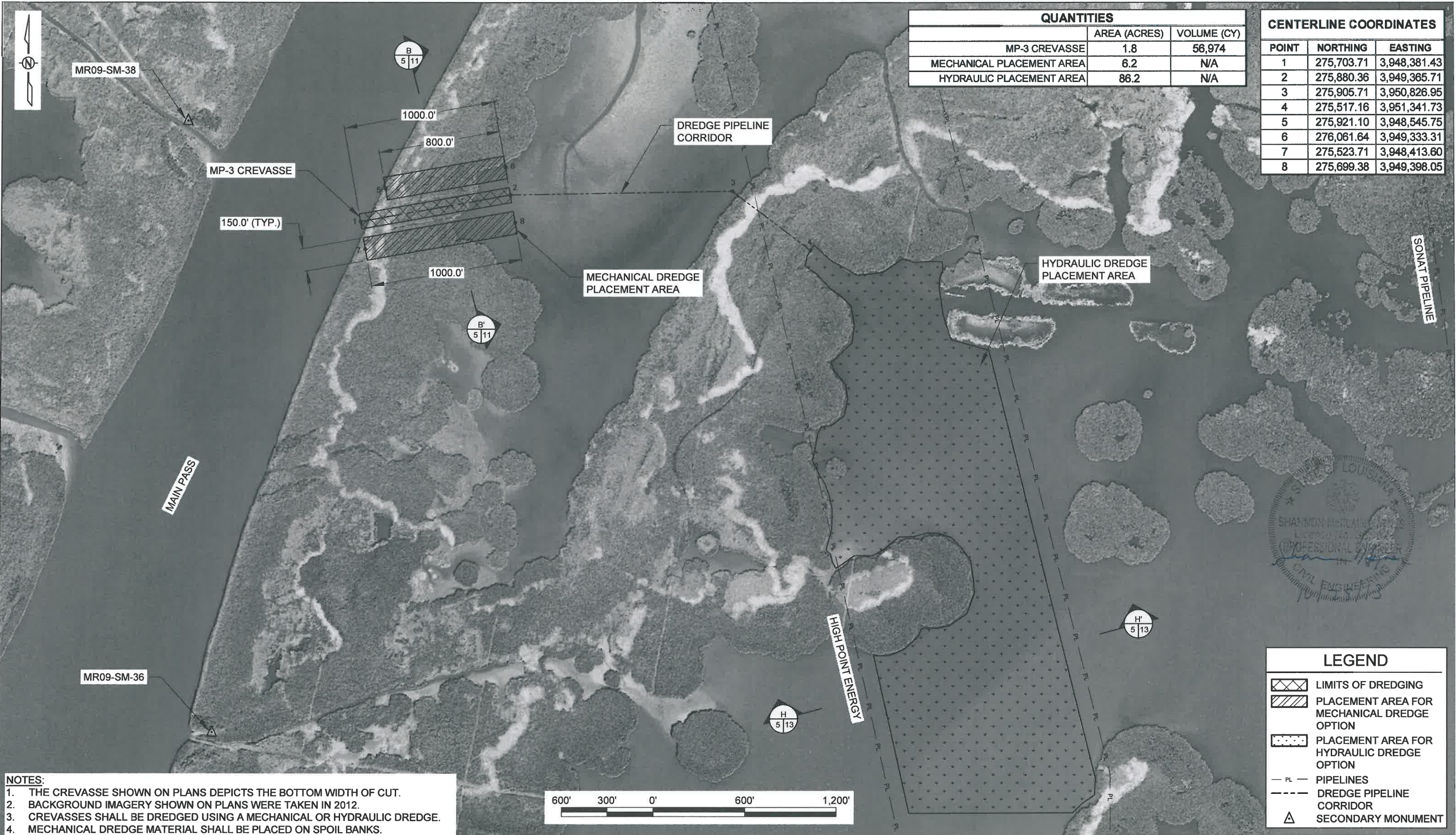
CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	283,723.88	3,950,767.61
2	282,839.76	3,951,234.86
3	282,697.93	3,951,287.26
4	279,080.71	3,948,974.03
5	279,050.08	3,948,753.93
6	279,177.20	3,948,634.72
7	279,322.01	3,948,328.64
8	279,418.56	3,948,277.09
9	279,828.48	3,948,403.67
10	279,968.83	3,948,401.66
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.

				COASTAL PROTECTION AND RESTORATION AUTHORITY		DELTA-WIDE CREVASSES MAINTENANCE PROJECT	MP-1 CREVASSE LAYOUT
				450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: MR-09	
						FEDERAL PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
						APPROVED BY: SHANNON HAYNES, P.E.	SHEET 4 OF 27
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.	



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

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. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR CROSSING THE HIGH POINT ENTERGY PIPELINE.
 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

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.	

MP-3 CREVASSE LAYOUT	
DATE: OCTOBER 2013	
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

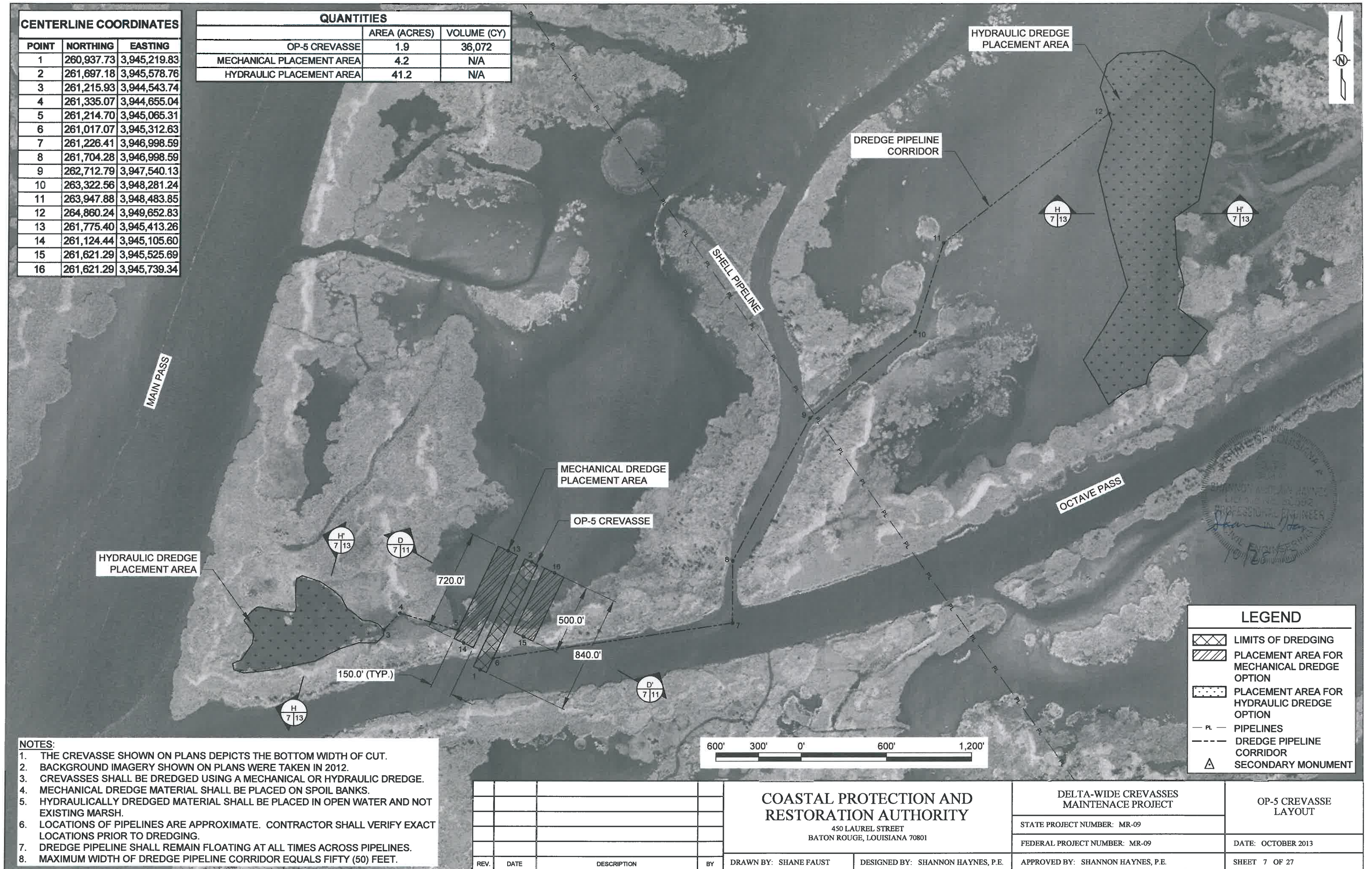


- NOTES:
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL 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	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.		APPROVED BY: SHANNON HAYNES, P.E.	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.

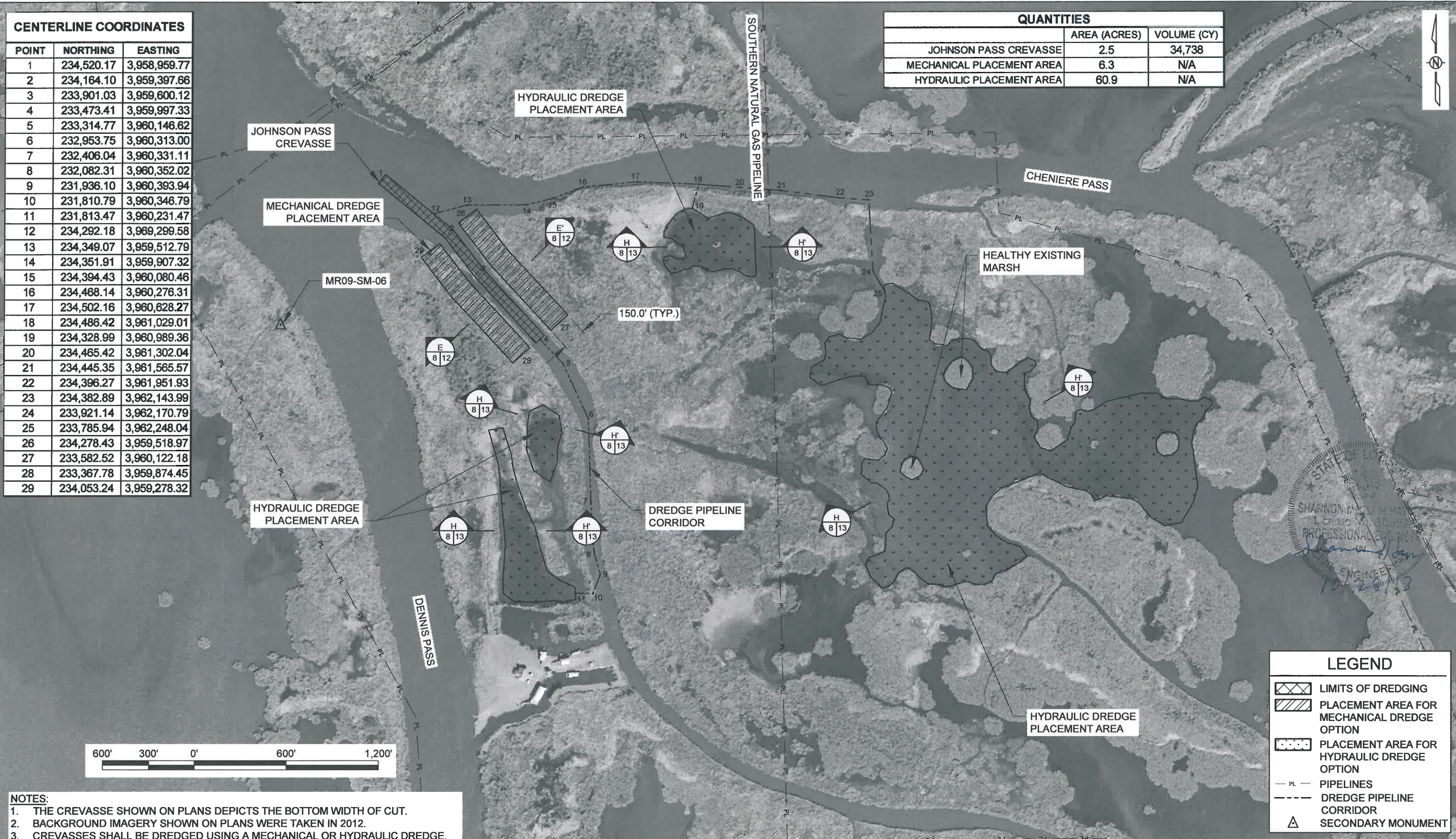
REV.	DATE	DESCRIPTION	BY

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	OP-5 CREVASSE LAYOUT
STATE PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
FEDERAL PROJECT NUMBER: MR-09	SHEET 7 OF 27
APPROVED BY: SHANNON HAYNES, P.E.	

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

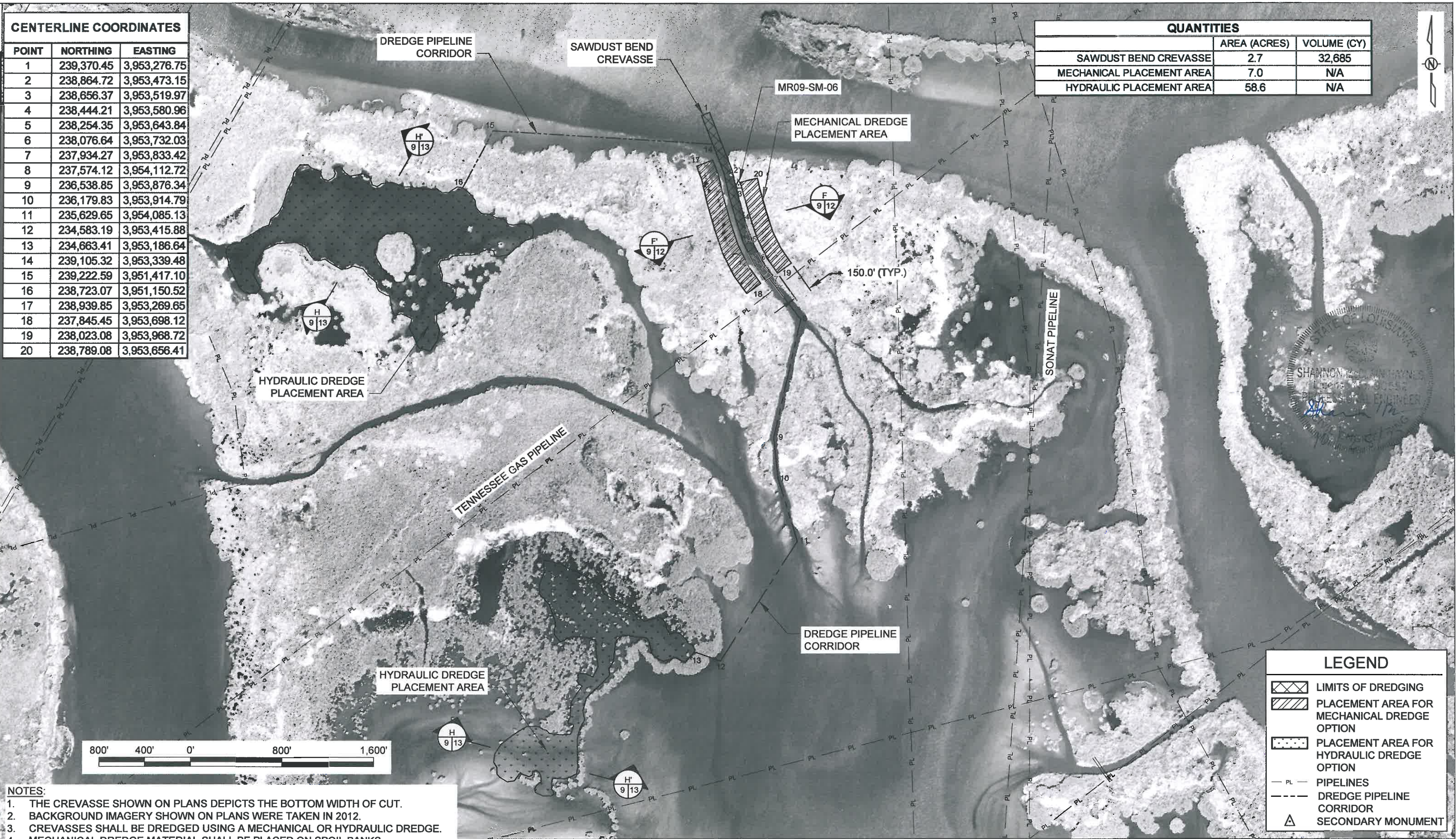


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 8. MAXIMUM WIDTH OF DREDGE PIPELINE CORRIDOR EQUALS FIFTY (50) FEET.

				COASTAL PROTECTION AND RESTORATION AUTHORITY		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		JOHNSON PASS CREVASSE LAYOUT	
				450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		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 8 OF 27	

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



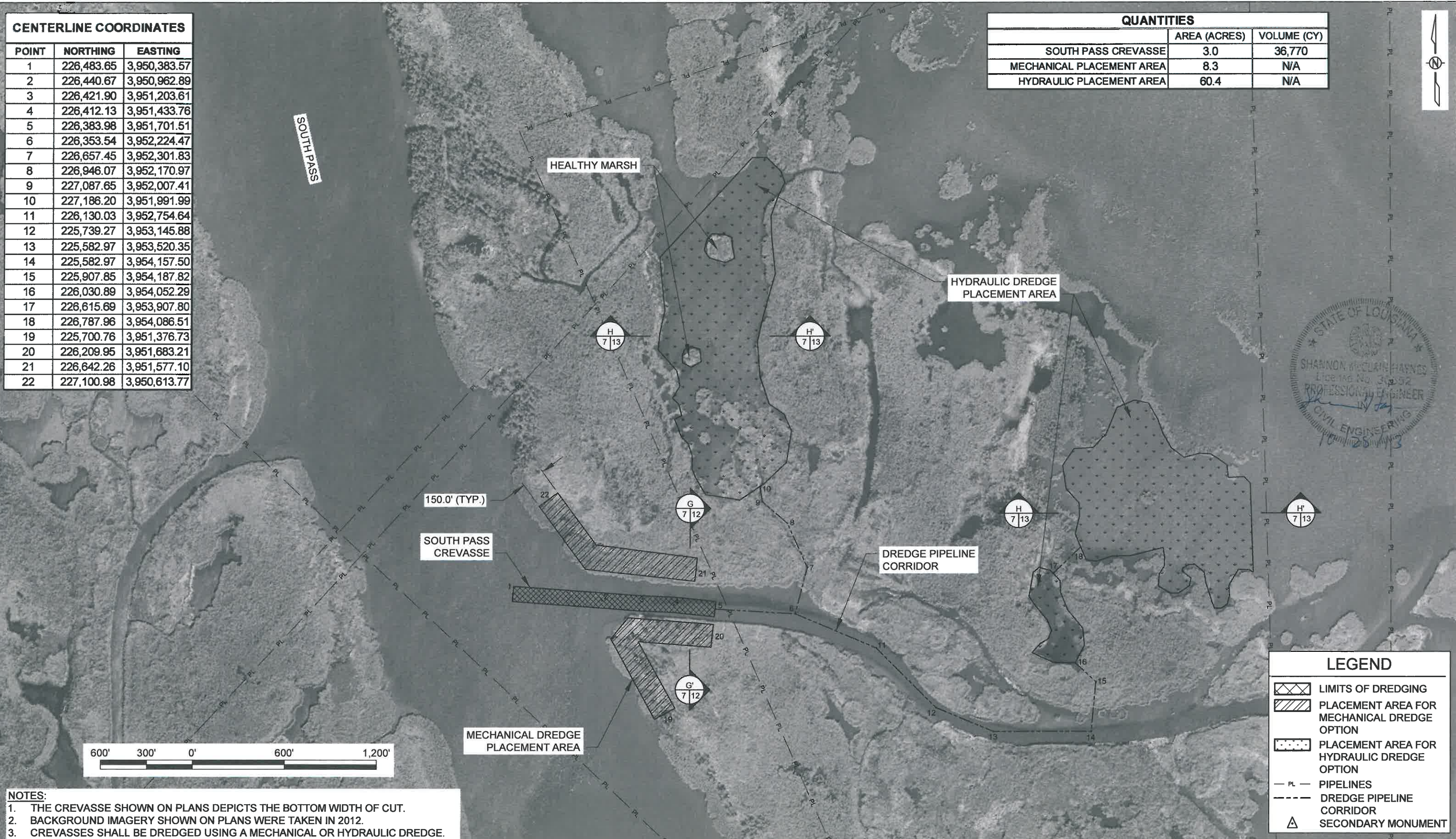
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 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
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 7. DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES ACROSS 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		SAWDUST BEND CREVASSE LAYOUT	
						STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
						APPROVED BY: SHANNON HAYNES, P.E.		SHEET 9 OF 27	
REV.	DATE	DESCRIPTION			BY	DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON HAYNES, P.E.	

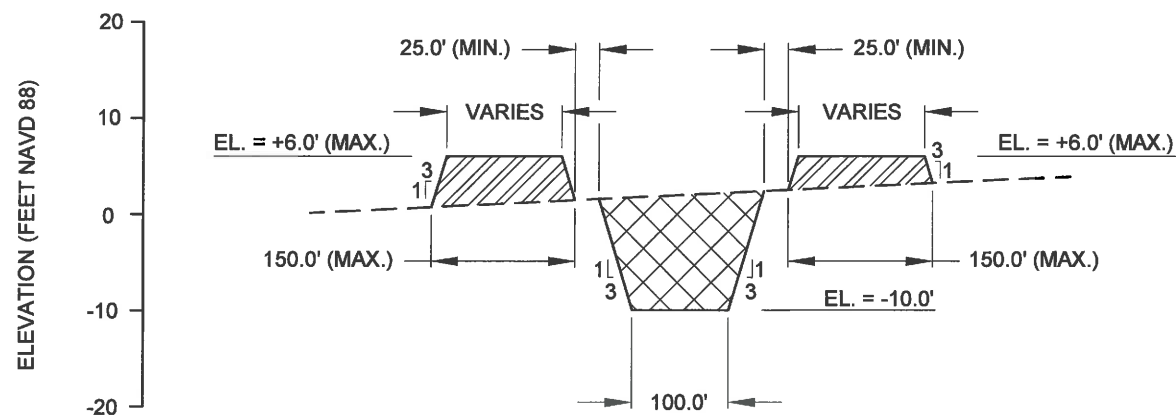
CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
1	226,483.65	3,950,383.57
2	226,440.67	3,950,962.89
3	226,421.90	3,951,203.61
4	226,412.13	3,951,433.76
5	226,383.98	3,951,701.51
6	226,353.54	3,952,224.47
7	226,657.45	3,952,301.83
8	226,946.07	3,952,170.97
9	227,087.65	3,952,007.41
10	227,186.20	3,951,991.99
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

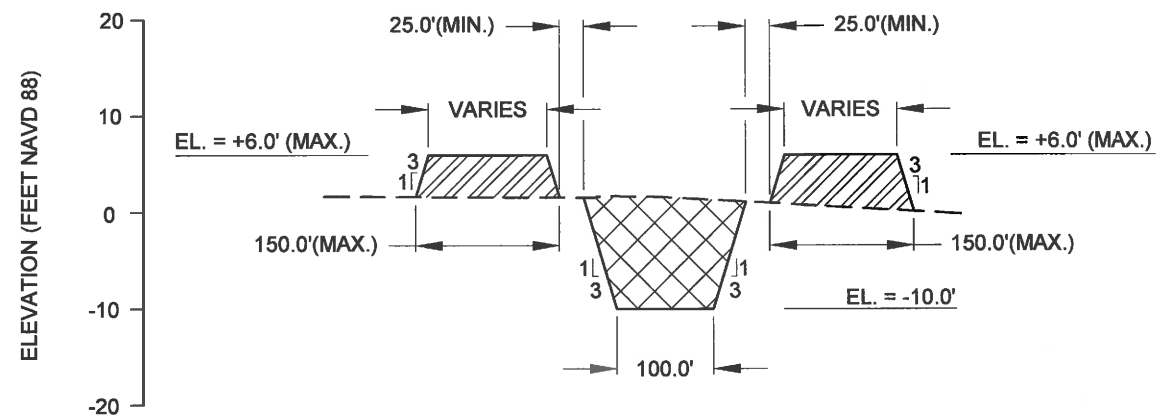


- NOTES:
1. THE CREVASSE SHOWN ON PLANS DEPICTS THE BOTTOM WIDTH OF CUT.
 2. BACKGROUND IMAGERY SHOWN ON PLANS WERE TAKEN IN 2012.
 3. CREVASSES SHALL BE DREDGED USING A MECHANICAL OR HYDRAULIC DREDGE.
 4. MECHANICAL DREDGE MATERIAL SHALL BE PLACED ON SPOIL BANKS.
 5. HYDRAULICALLY DREDGED MATERIAL SHALL 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.

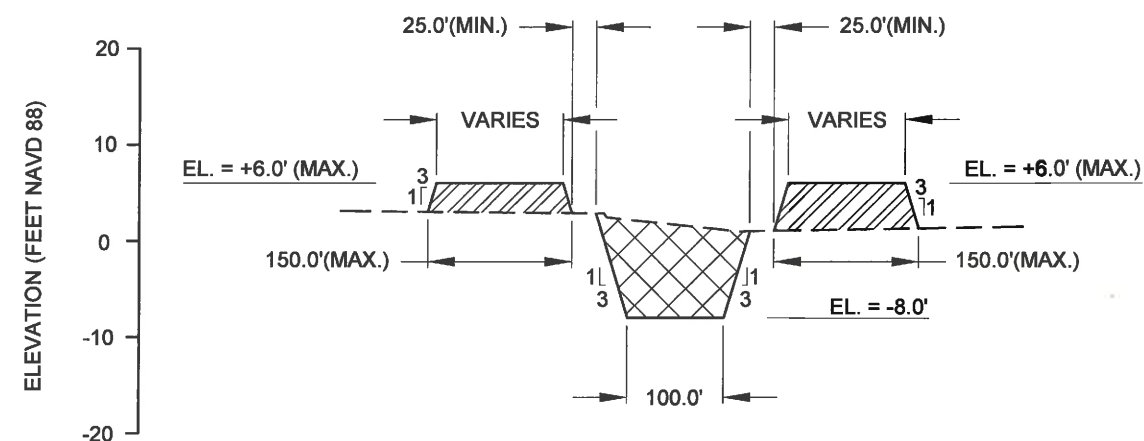
				COASTAL PROTECTION AND RESTORATION AUTHORITY		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		SOUTH PASS CREVASSE LAYOUT	
				450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: MR-09			
						FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013	
				DRAWN BY: SHANE FAUST		DESIGNED BY: SHANNON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



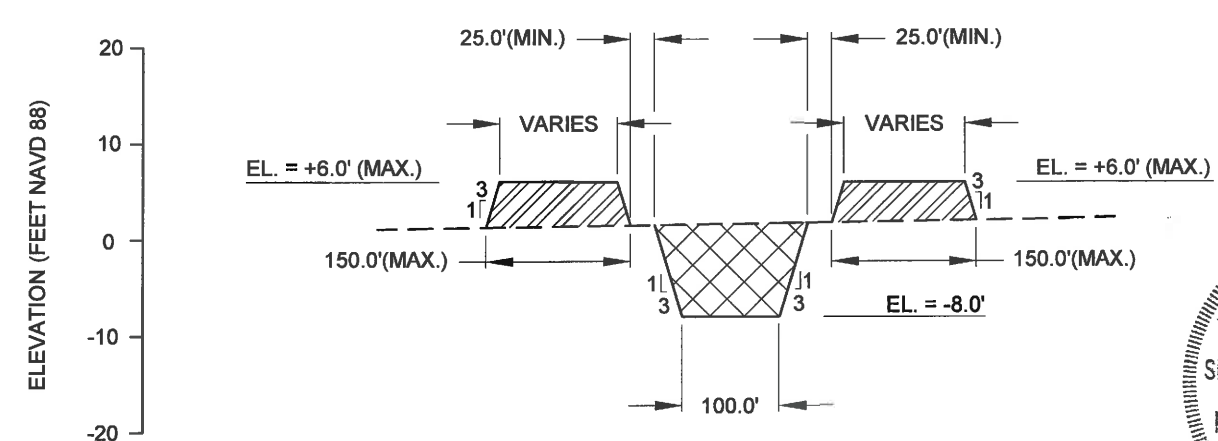
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 A-A' 11 4
 MP-1 CREVASSE



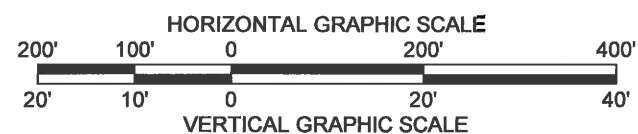
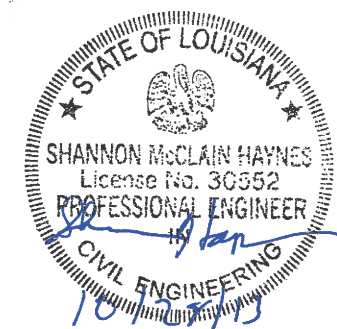
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 B-B' 11 5
 MP-3 CREVASSE



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

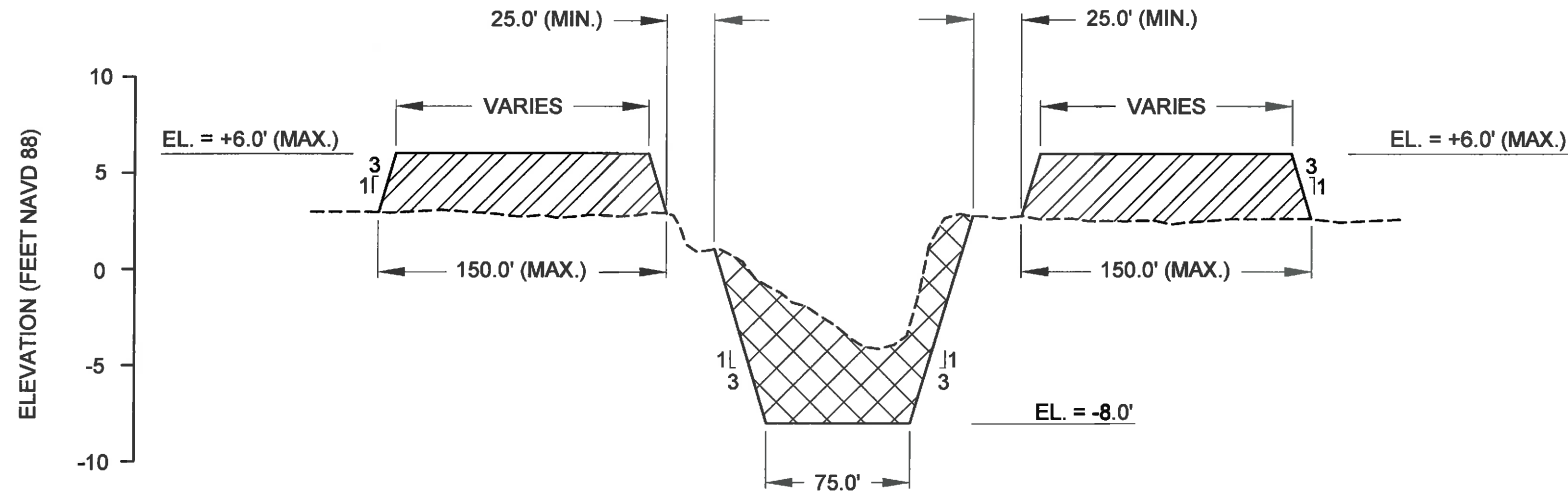


TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
 D-D' 11 7
 OP-5 CREVASSE

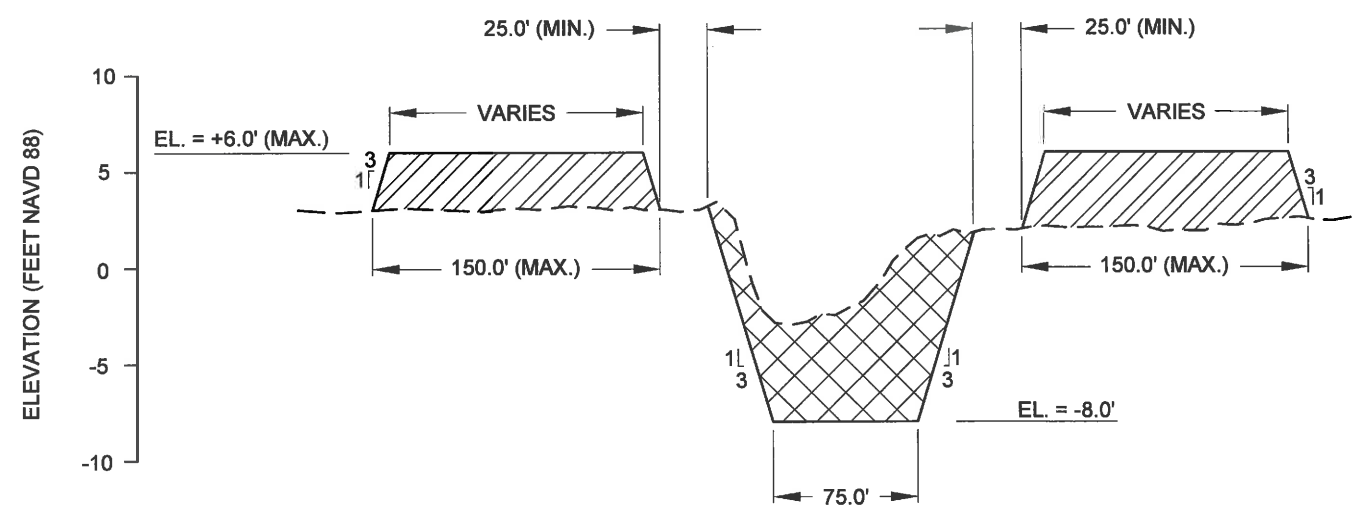


LEGEND	
	CREVASSE
	MECHANICAL DREDGE PLACEMENT OPTION
	EXISTING BOTTOM

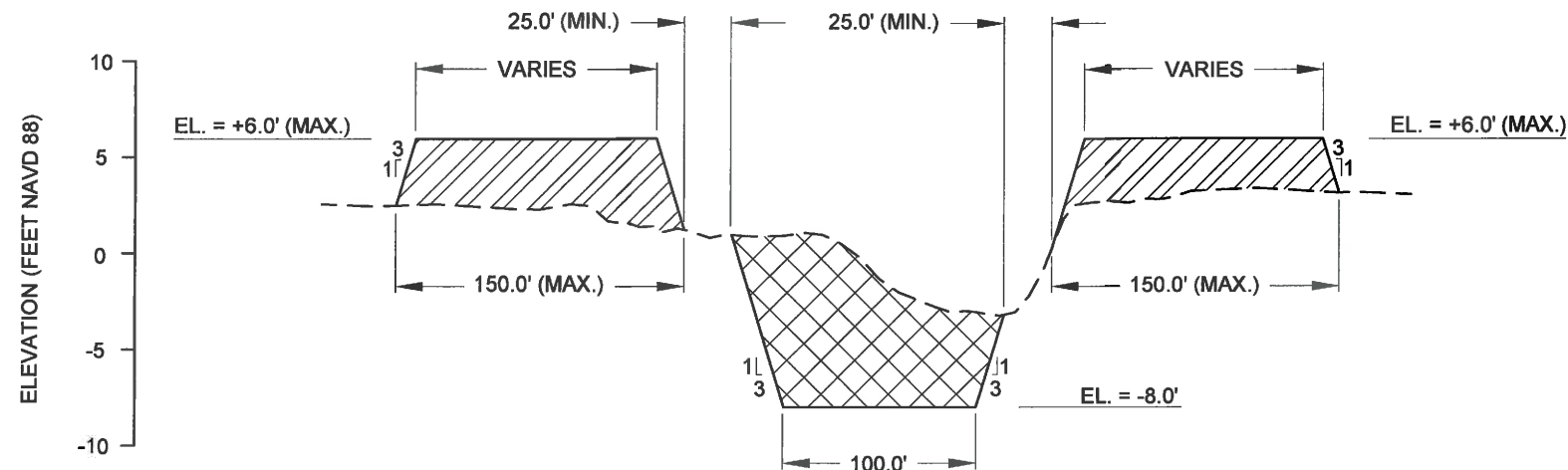
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						STATE PROJECT NUMBER: MR-09	
						FEDERAL PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
REV.	DATE	DESCRIPTION	BY		DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.



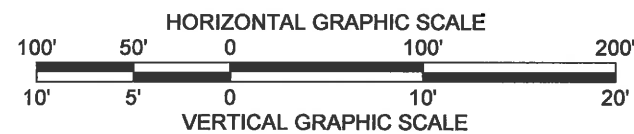
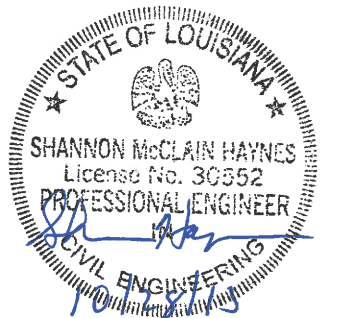
TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
JOHNSON PASS CREVASSE



TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
SAWDUST BEND CREVASSE

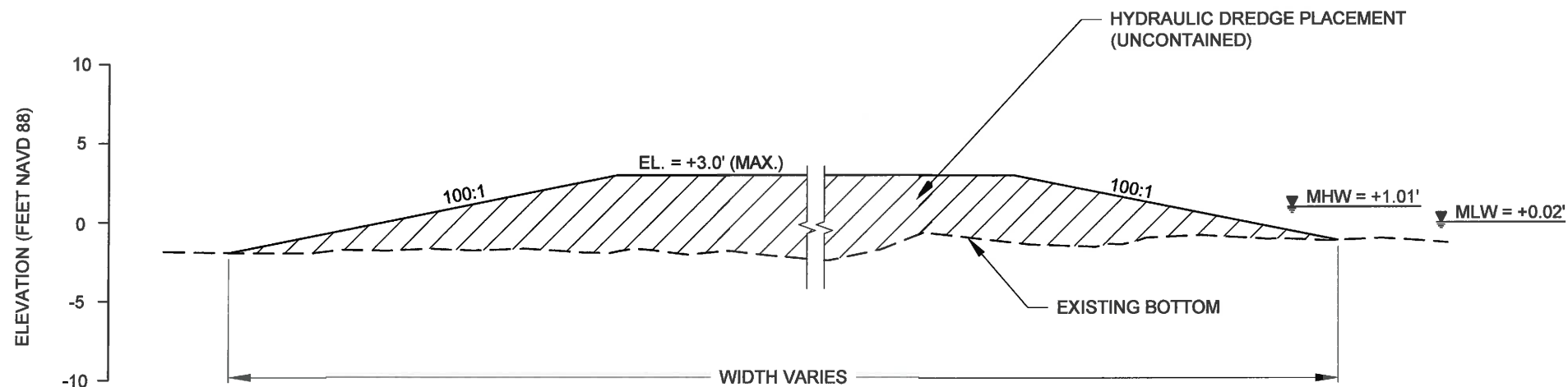


TYPICAL CREVASSE DREDGING AND MECHANICAL PLACEMENT SECTION
SOUTH PASS CREVASSE

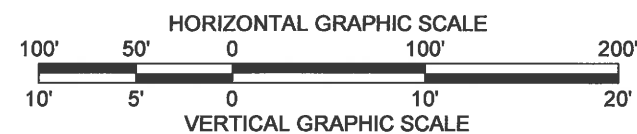
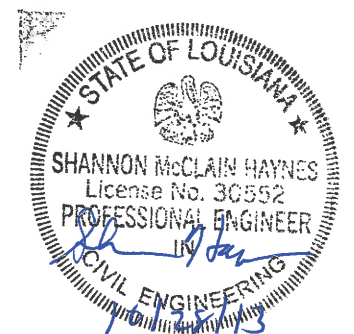


LEGEND	
	CREVASSE
	MECHANICAL DREDGE PLACEMENT OPTION
	EXISTING BOTTOM

				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	DATE: OCTOBER 2013	
REV.	DATE	DESCRIPTION	BY		DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.	SHEET 12 OF 27



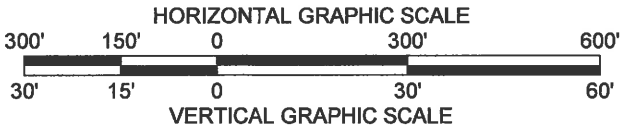
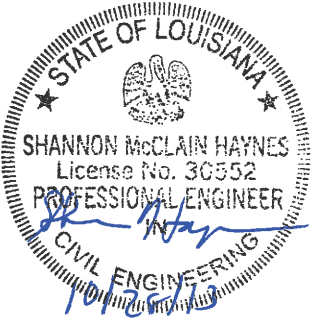
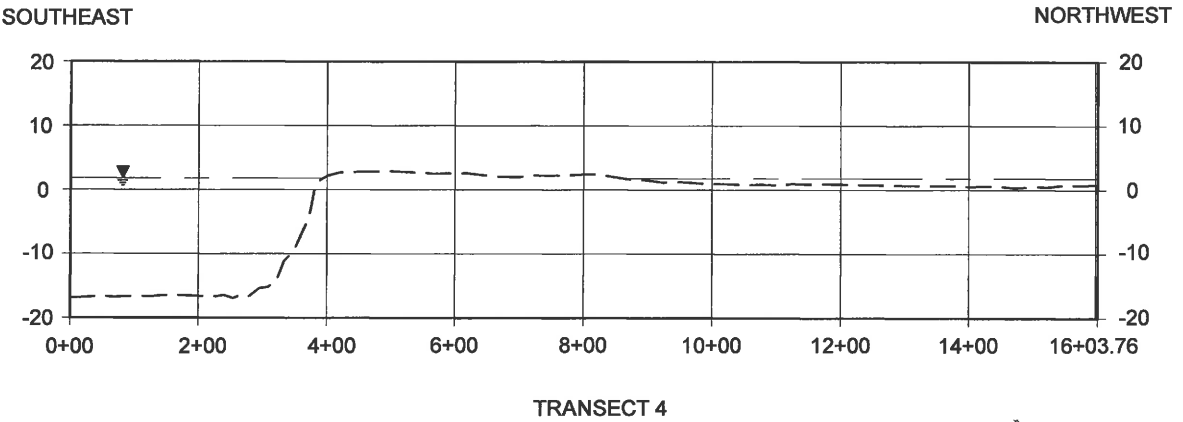
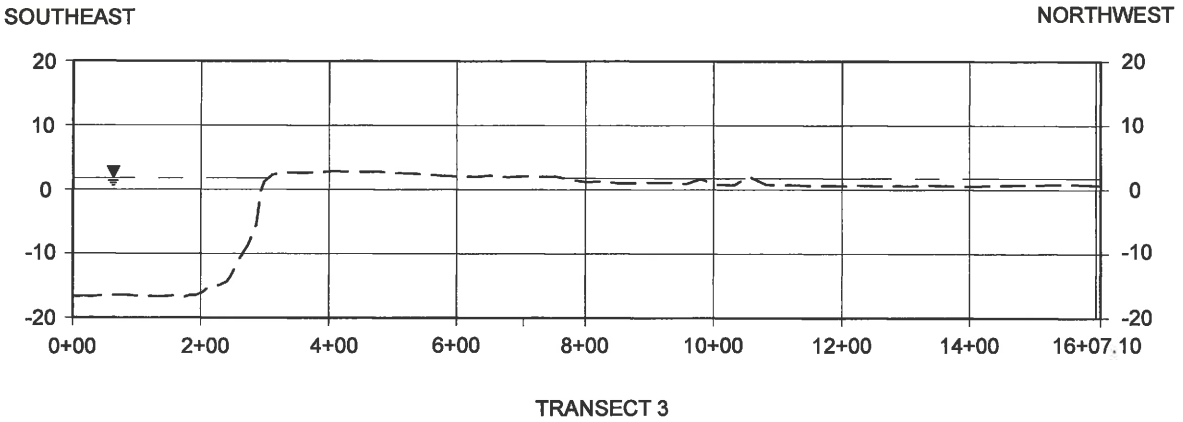
TYPICAL SECTION H-H'
HYDRAULIC DREDGE PLACEMENT
TYPICAL



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		
					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.

TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	282,553.64	3,951,311.23	283,969.69	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

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

APPROVED BY: SHANNON HAYNES, P.E.

DESIGN SURVEY LAYOUT
FOR MP-1 CREVASSE

DATE: OCTOBER 2013

SHEET 14 OF 27

REV.	DATE	DESCRIPTION	BY

DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

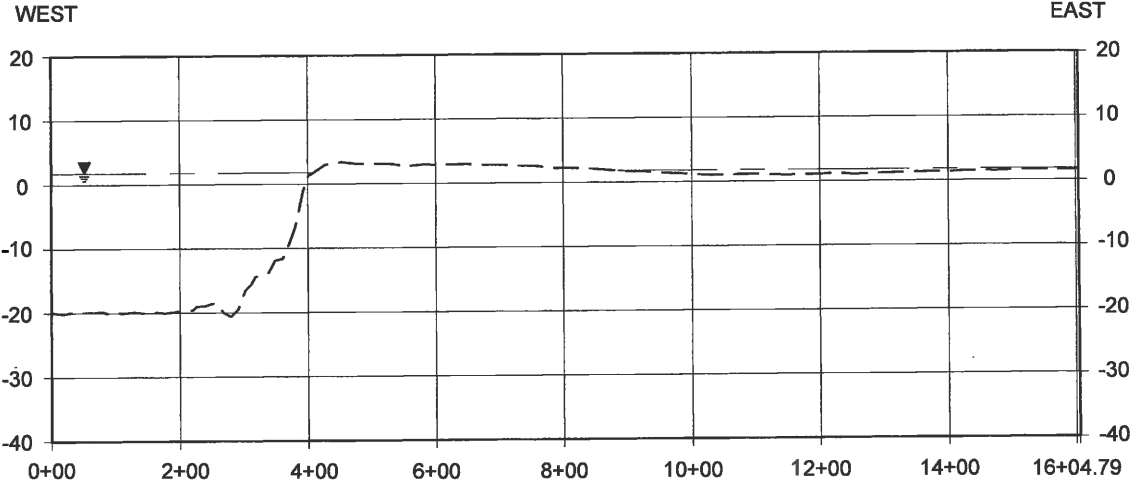
TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
3	275,562.06	3,948,014.09	275,847.36	3,949,593.31	1,604.79
4	275,668.61	3,947,762.90	275,988.35	3,949,556.30	1,821.69



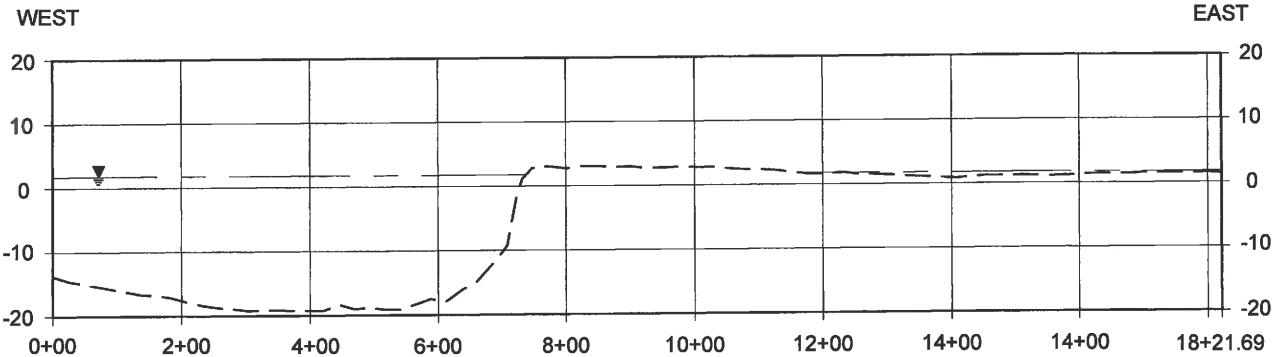
MAIN PASS

TRANSECT 4

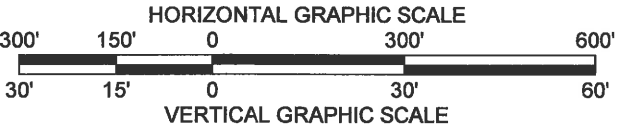
TRANSECT 3



TRANSECT 3

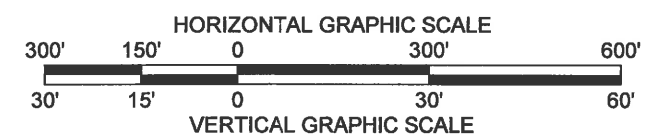
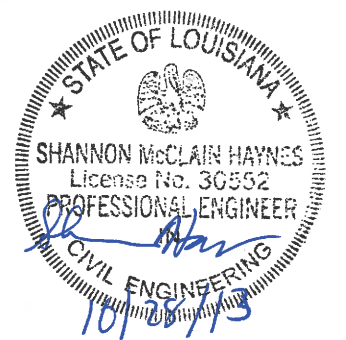
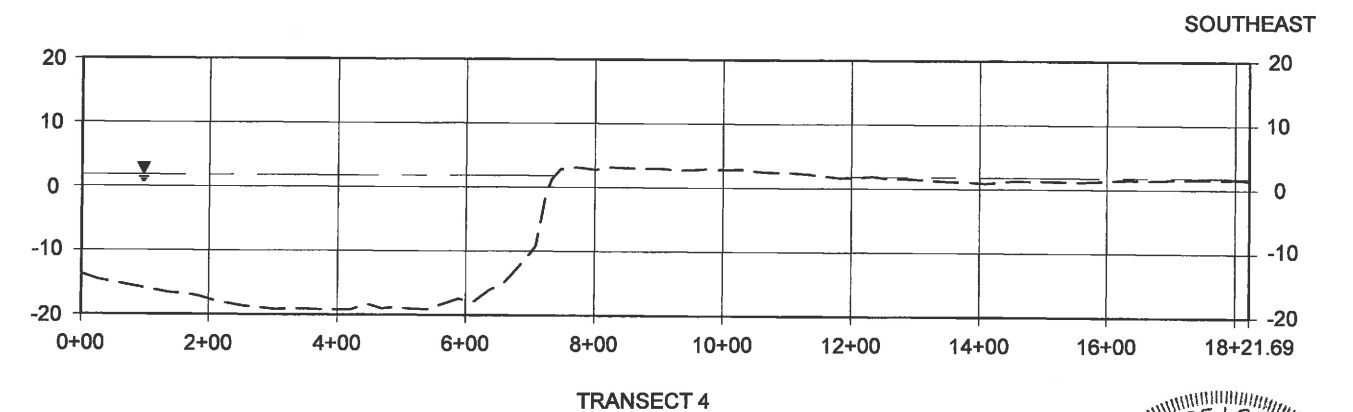
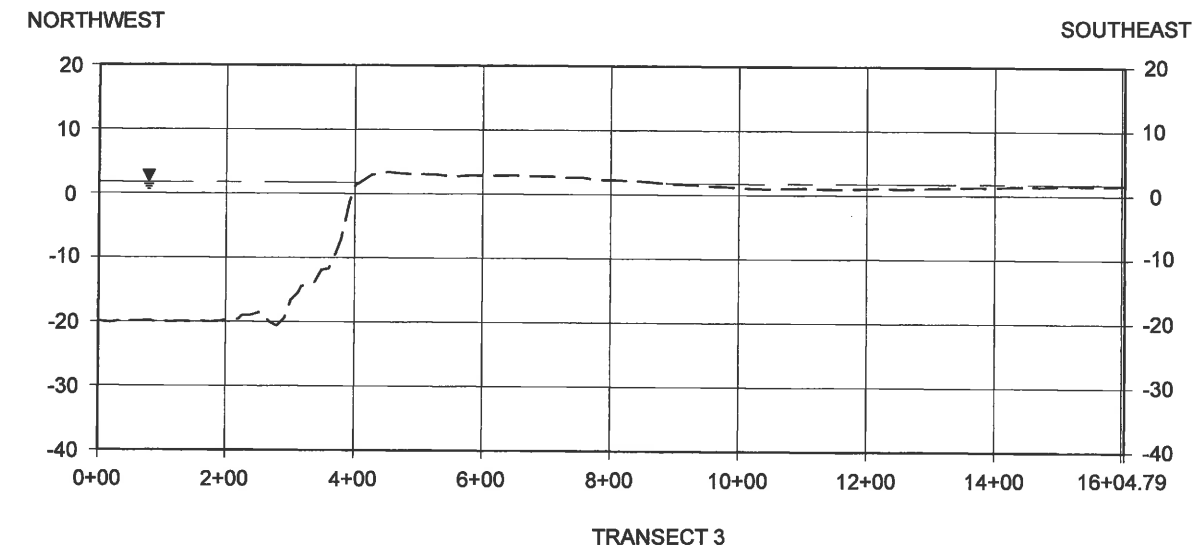


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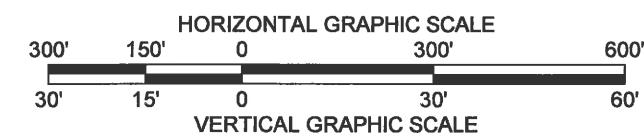
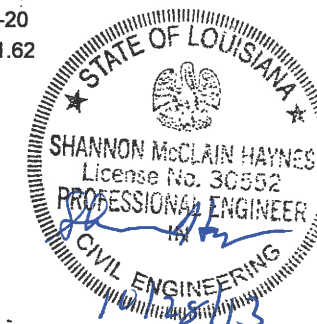
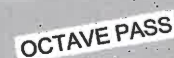


				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DELTA-WIDE CREVASSES PROJECT		DESIGN SURVEY LAYOUT FOR MP-3 CREVASSE
					STATE PROJECT NUMBER: MR-09		
					FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013
REV.	DATE	DESCRIPTION	BY		DRAWN BY: SHANE FAUST	DESIGNED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

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

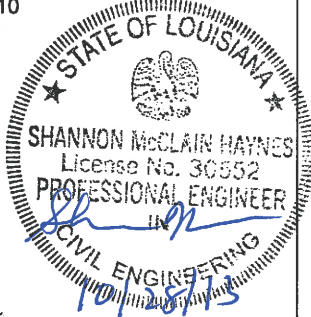
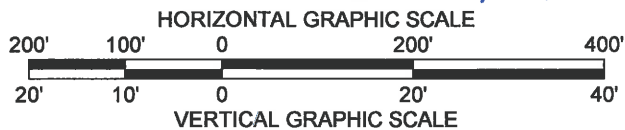
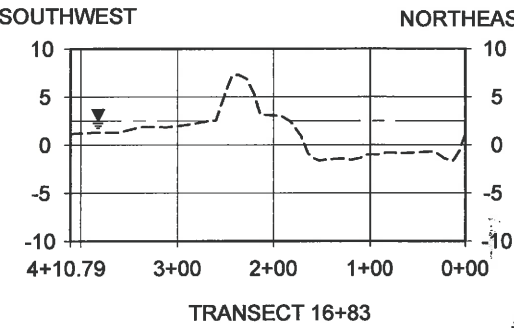
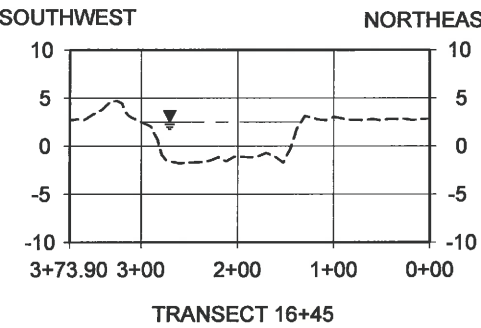
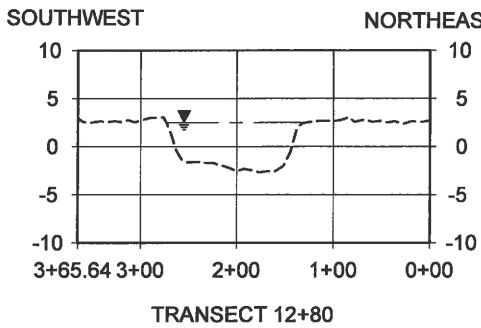
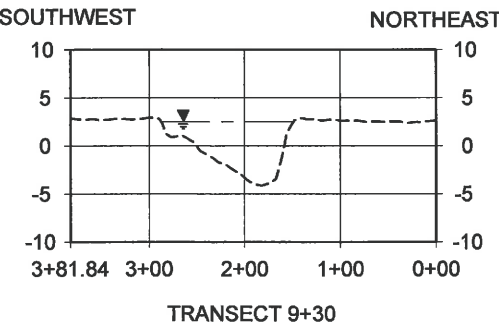
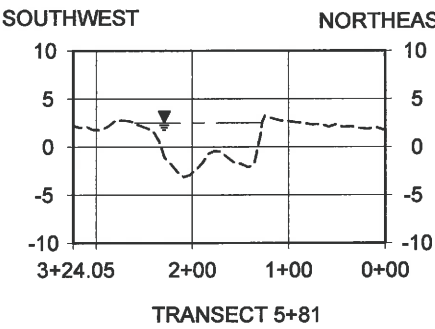
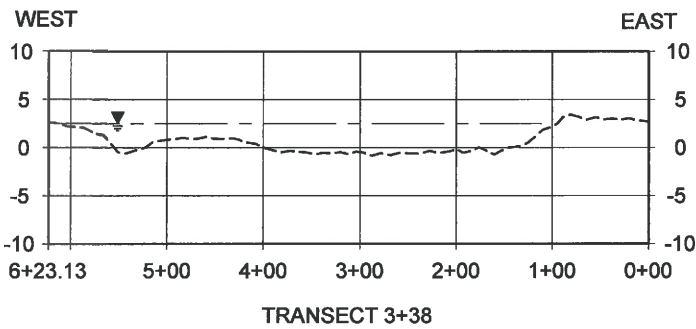
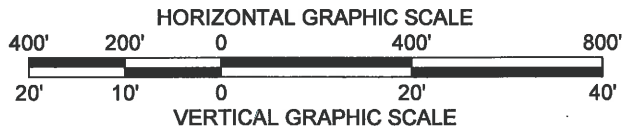
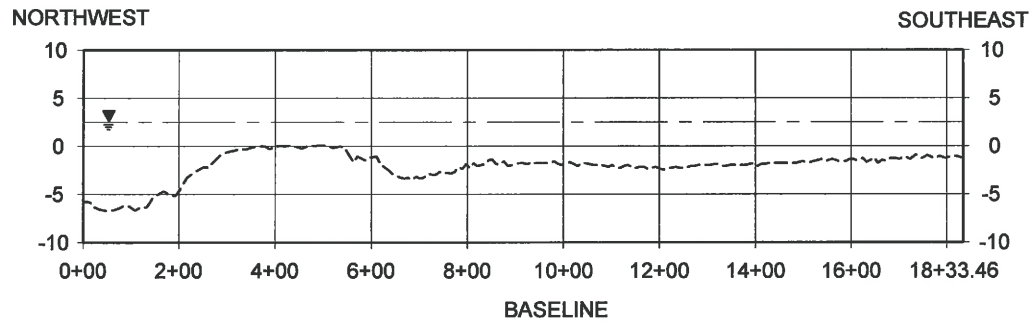
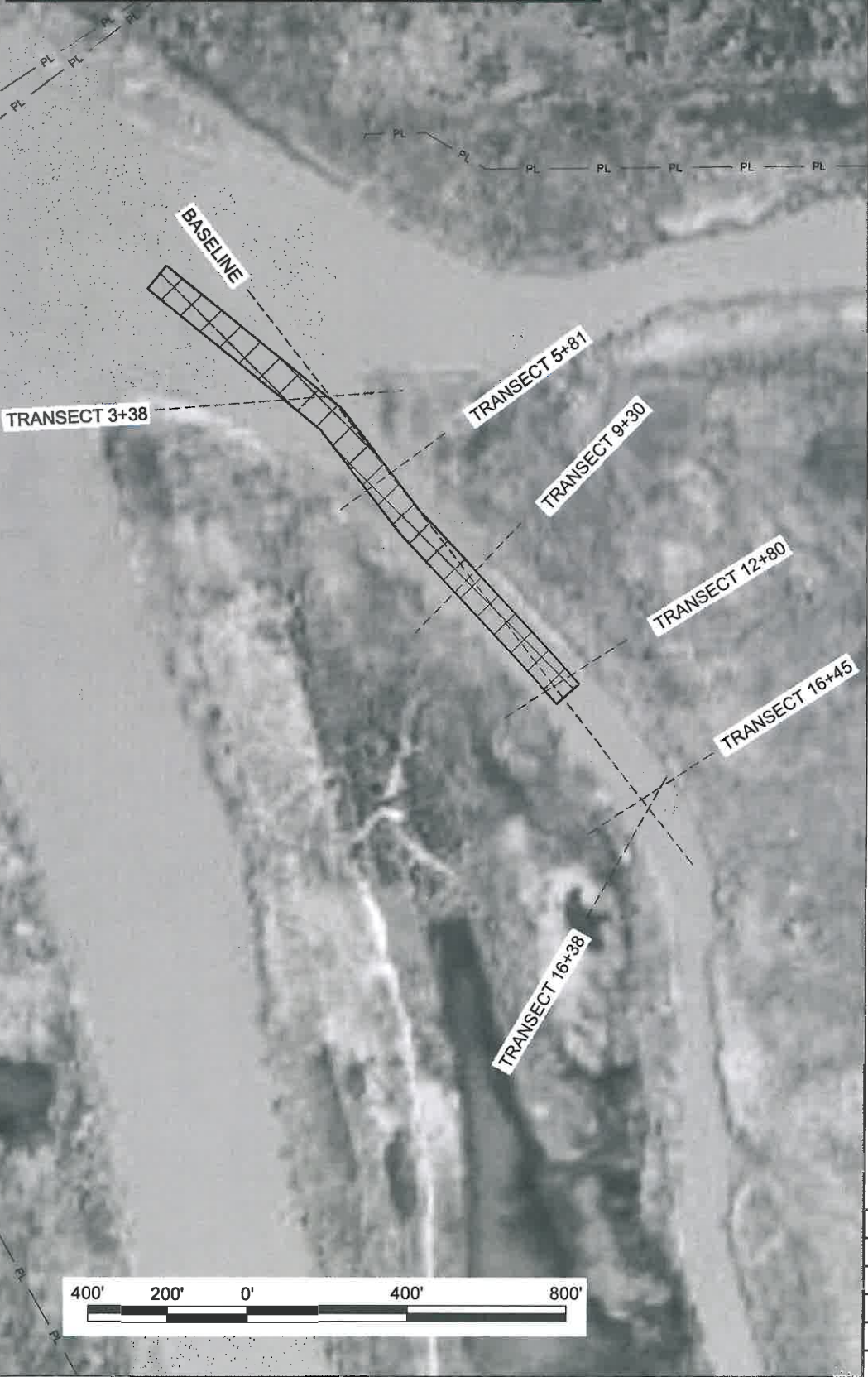


				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT	DESIGN SURVEY LAYOUT FOR OP-4 CREVASSE
						STATE PROJECT NUMBER: MR-09	
						FEDERAL PROJECT NUMBER: MR-09	DATE: OCTOBER 2013
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SHANE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



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DELTA-WIDE CREVASSES PROJECT	DESIGN SURVEY LAYOUT FOR OP-5 CREVASSE	
					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.

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

DATE: OCTOBER 2013

FEDERAL PROJECT NUMBER: MR-09

APPROVED BY: SHANNON HAYNES, P.E.

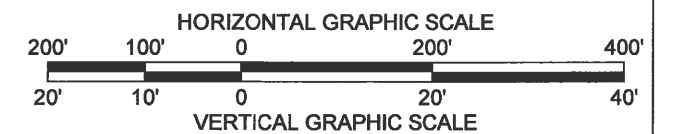
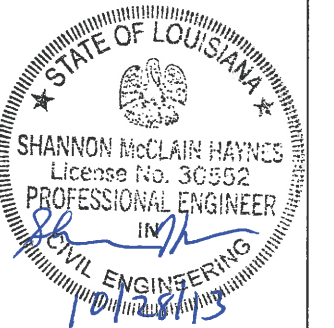
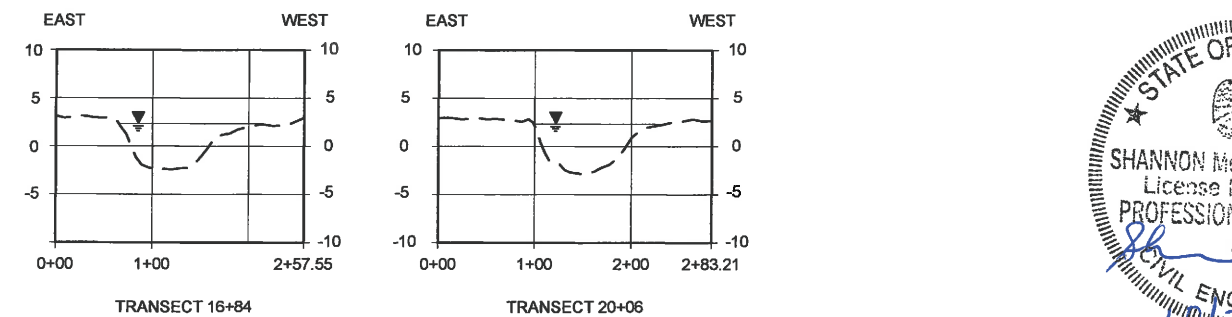
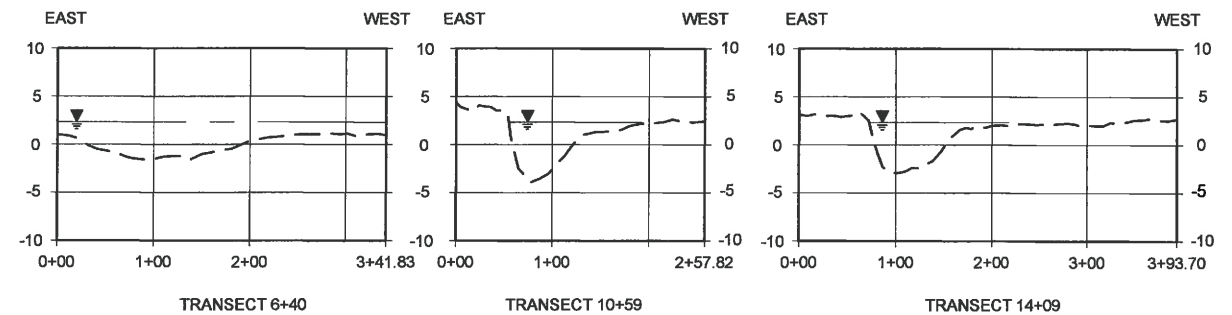
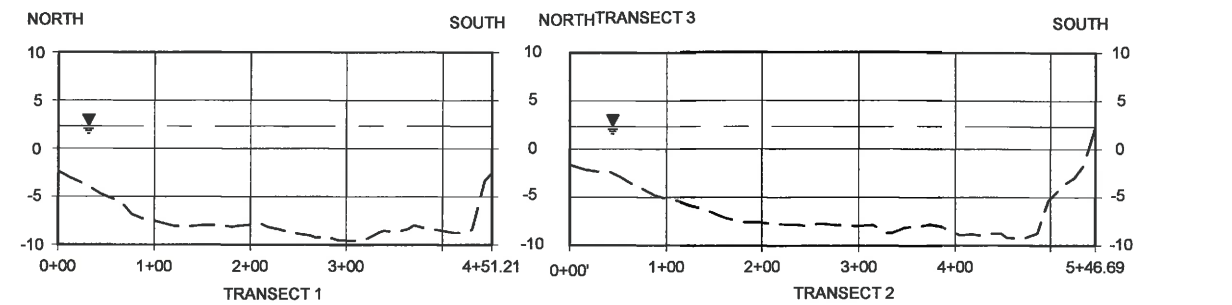
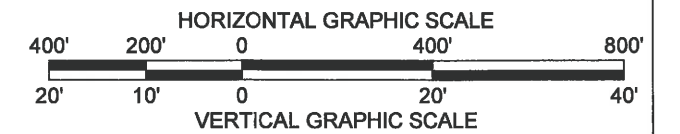
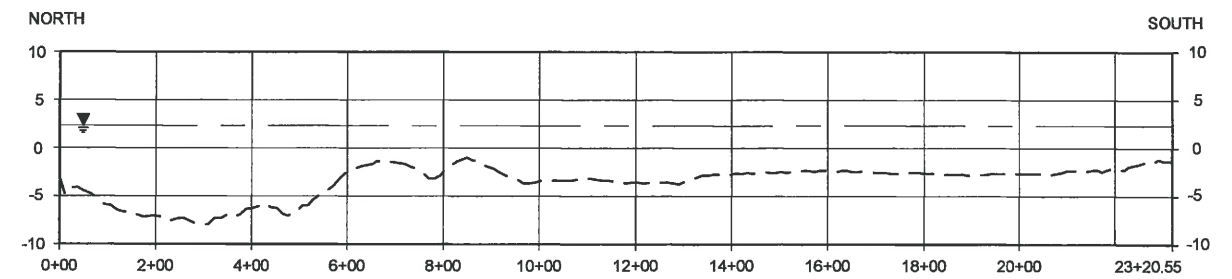
SHEET 18 OF 27

DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

REV. DATE DESCRIPTION BY

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



COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DELTA-WIDE CREVASSES
MAINTENANCE PROJECT

DESIGN SURVEY LAYOUT
FOR SAWDUST BEND
CREVASSE

STATE PROJECT NUMBER: MR-09

FEDERAL PROJECT NUMBER: MR-09

DATE: OCTOBER 2013

APPROVED BY: SHANNON HAYNES, P.E.

SHEET 19 OF 27

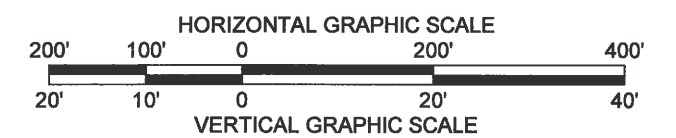
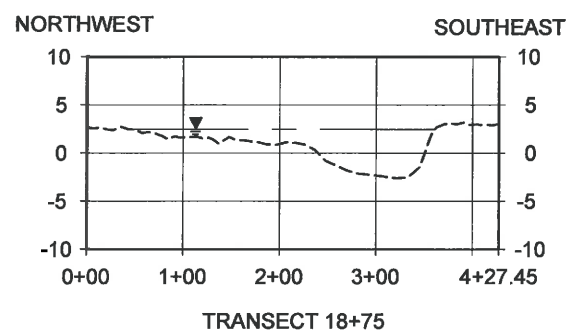
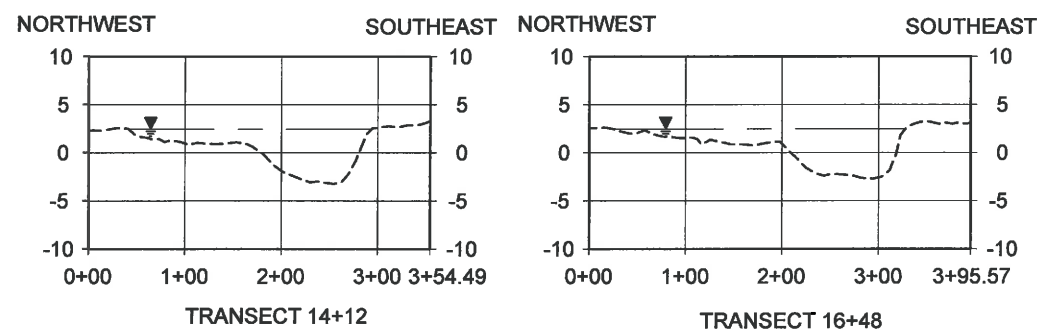
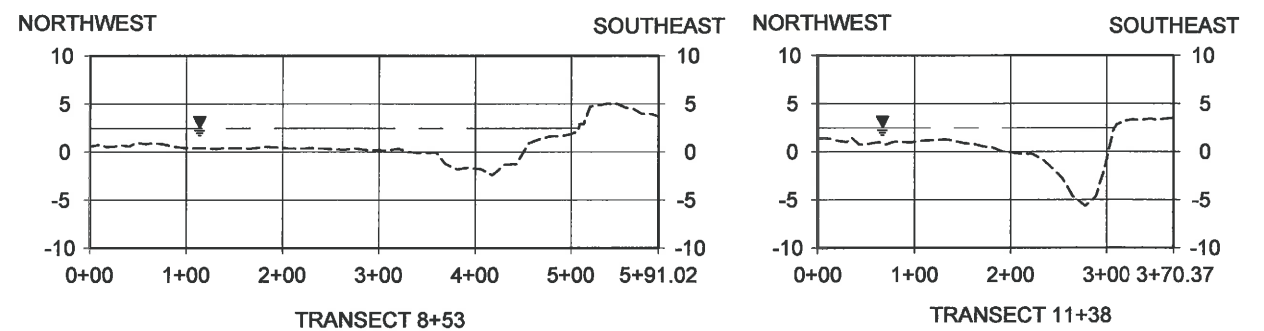
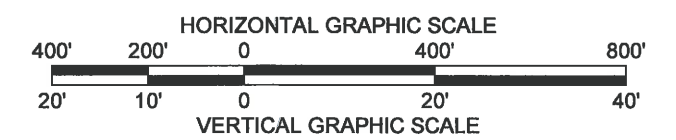
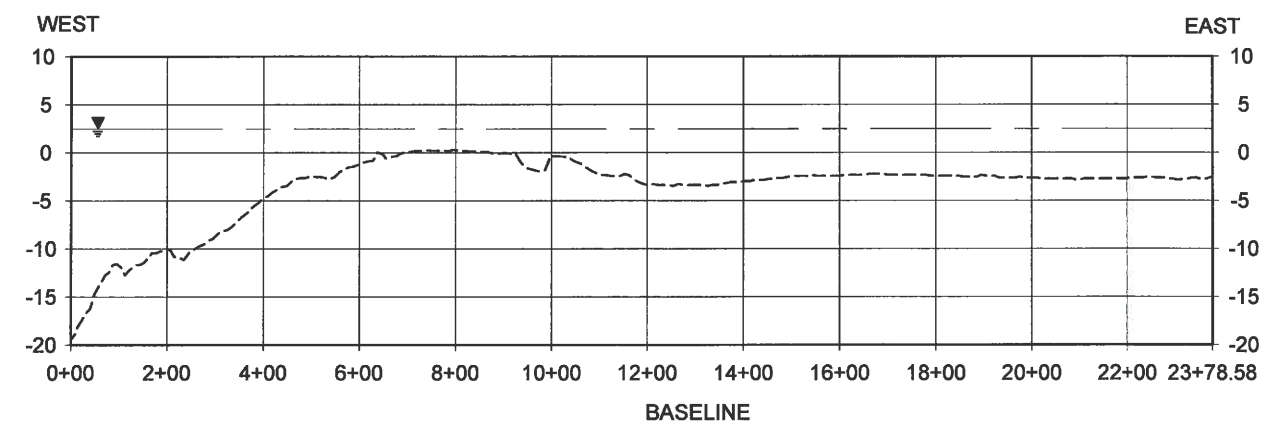
DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

REV.	DATE	DESCRIPTION	BY

400' 200' 0' 400' 800'

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

FEDERAL PROJECT NUMBER: MR-09

APPROVED BY: SHANNON HAYNES, P.E.

SHEET 20 OF 27

DRAWN BY: SHANE FAUST

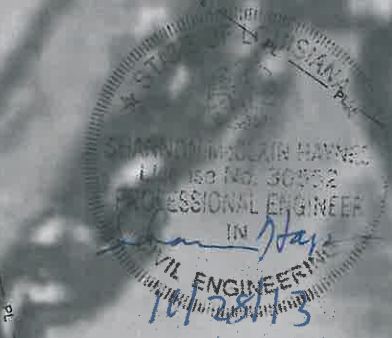
DESIGNED BY: SHANNON HAYNES, P.E.

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



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

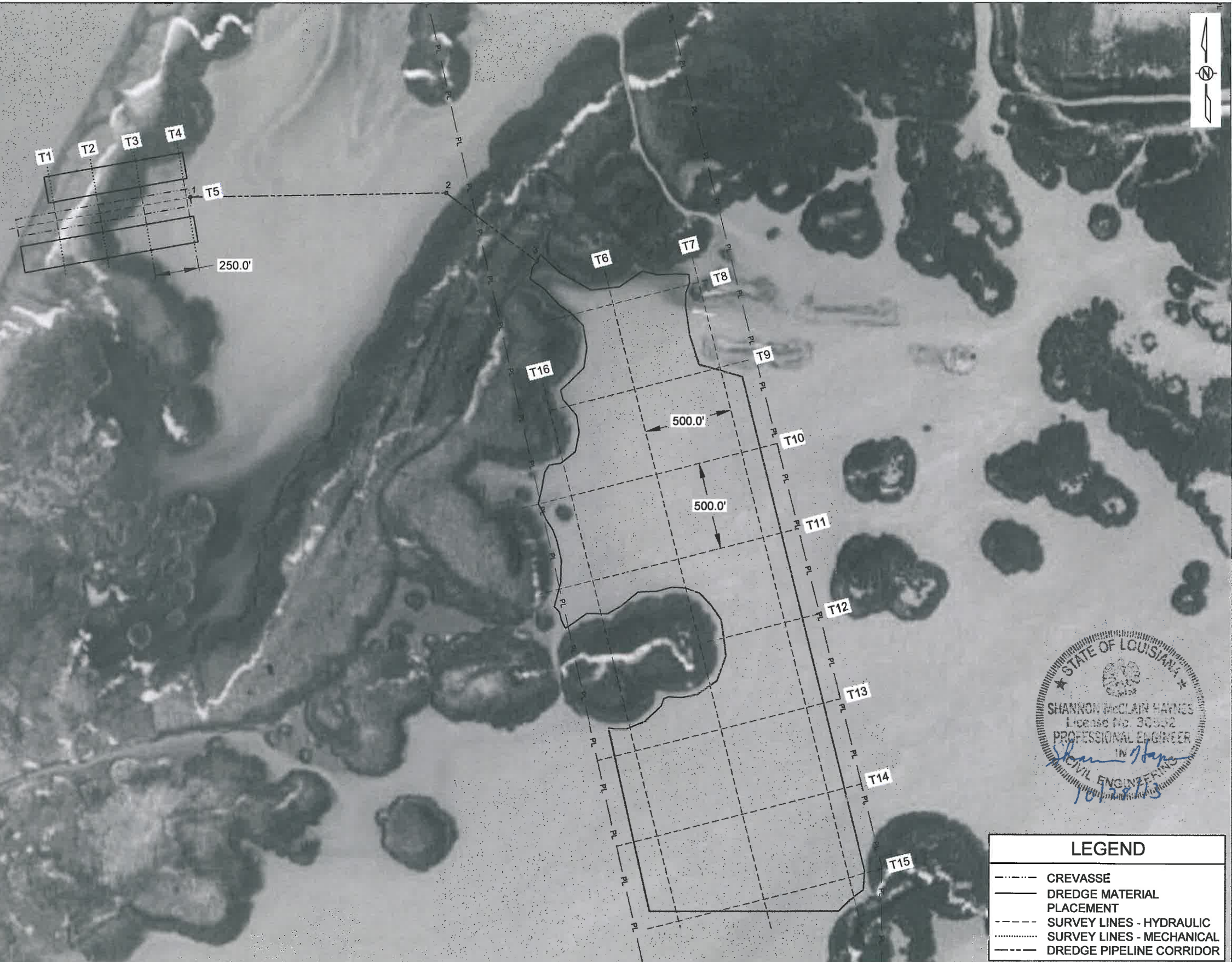


				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DELTA-WIDE CREVASSES MAINTENANCE PROJECT		CONSTRUCTION SURVEY LAYOUT FOR MP-1 CREVASSE
					STATE PROJECT NUMBER: MR-09		
					FEDERAL PROJECT NUMBER: MR-09		DATE: OCTOBER 2013
REV.	DATE	DESCRIPTION	BY		DRAWN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

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



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

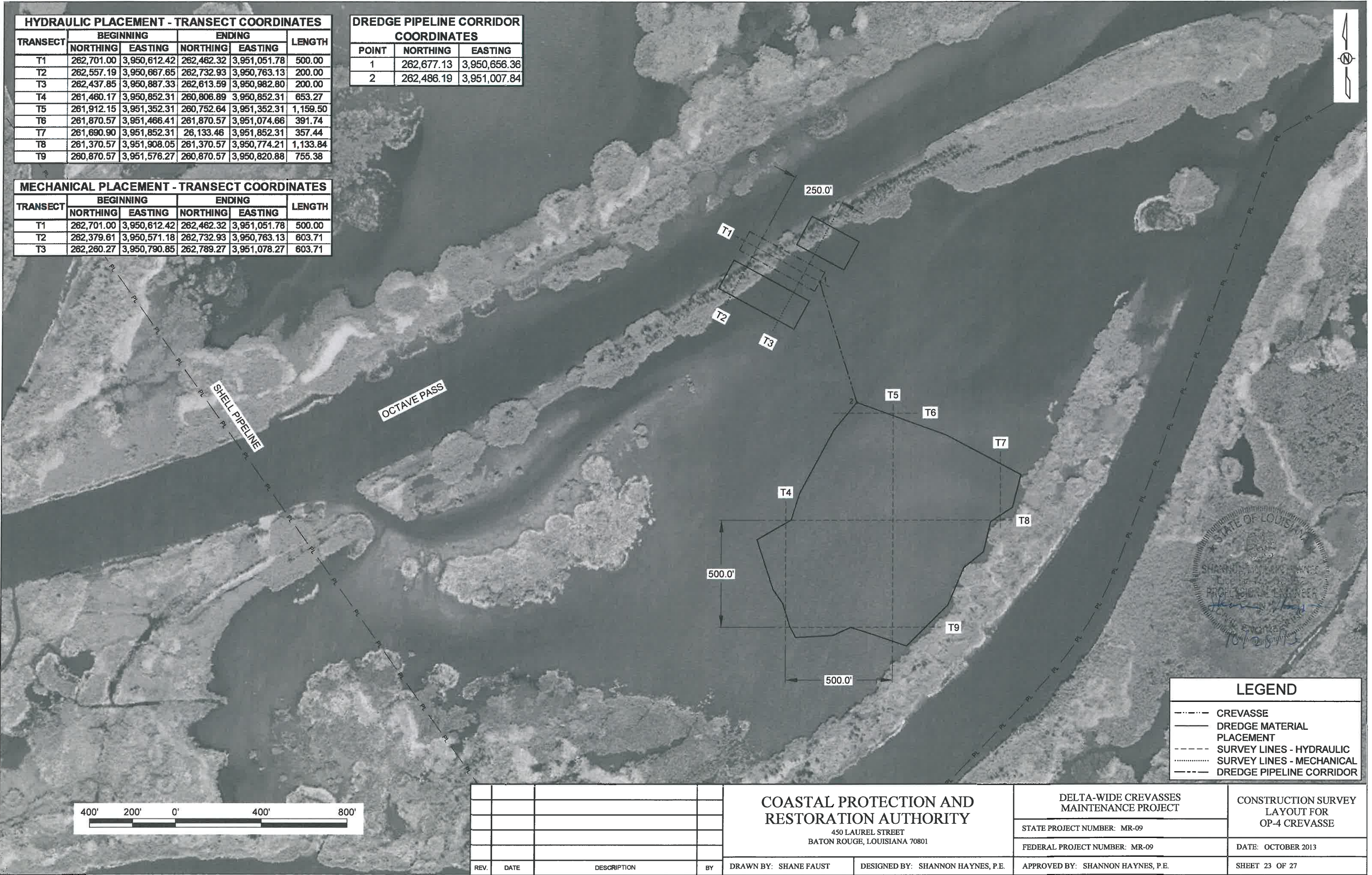
600' 300' 0' 600' 1,200'

				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 MP-3 CREVASSE DATE: OCTOBER 2013 SHEET 22 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	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

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

DREDGE PIPELINE CORRIDOR COORDINATES		
POINT	NORTHING	EASTING
1	262,677.13	3,950,656.36
2	262,486.19	3,951,007.84



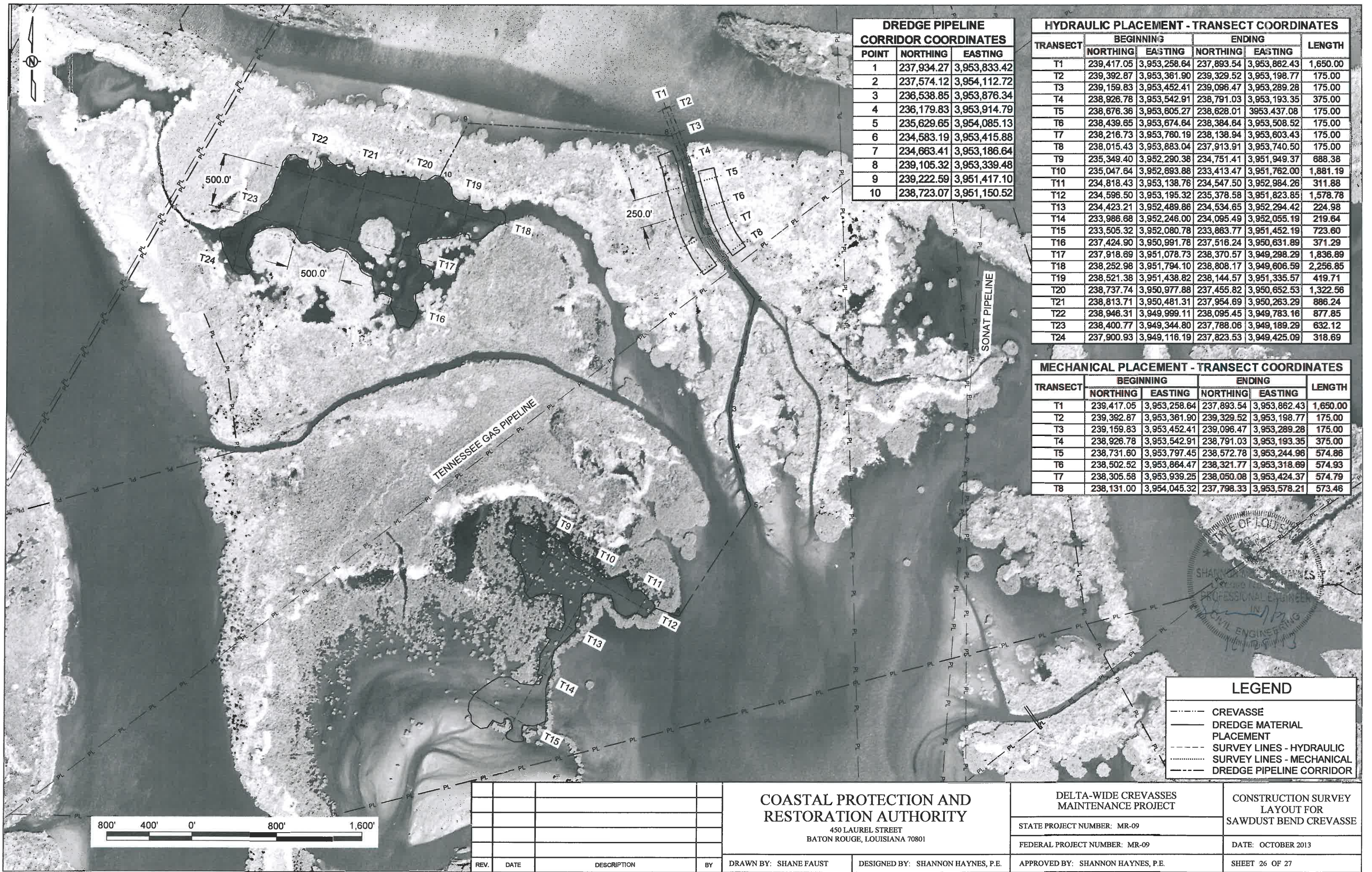
HYDRAULIC PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	234,551.71	3,958,920.97	233,436.19	3,960,030.71	1,580.00
T2	234,480.35	3,959,147.43	234,344.57	3,959,037.02	175.00
T3	234,322.63	3,959,341.40	234,186.85	3,959,230.63	175.00
T4	234,130.14	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	234,265.78	3,961,414.27	233,834.56	3,961,350.88	435.84
T11	233,540.90	3,962,108.98	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

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

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



				COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DELTA-WIDE CREVASSES MAINTENANCE PROJECT		CONSTRUCTION SURVEY LAYOUT FOR JOHNSON PASS CREVASSE	
						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 25 OF 27



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	233,986.88	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

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

REV.	DATE	DESCRIPTION	BY

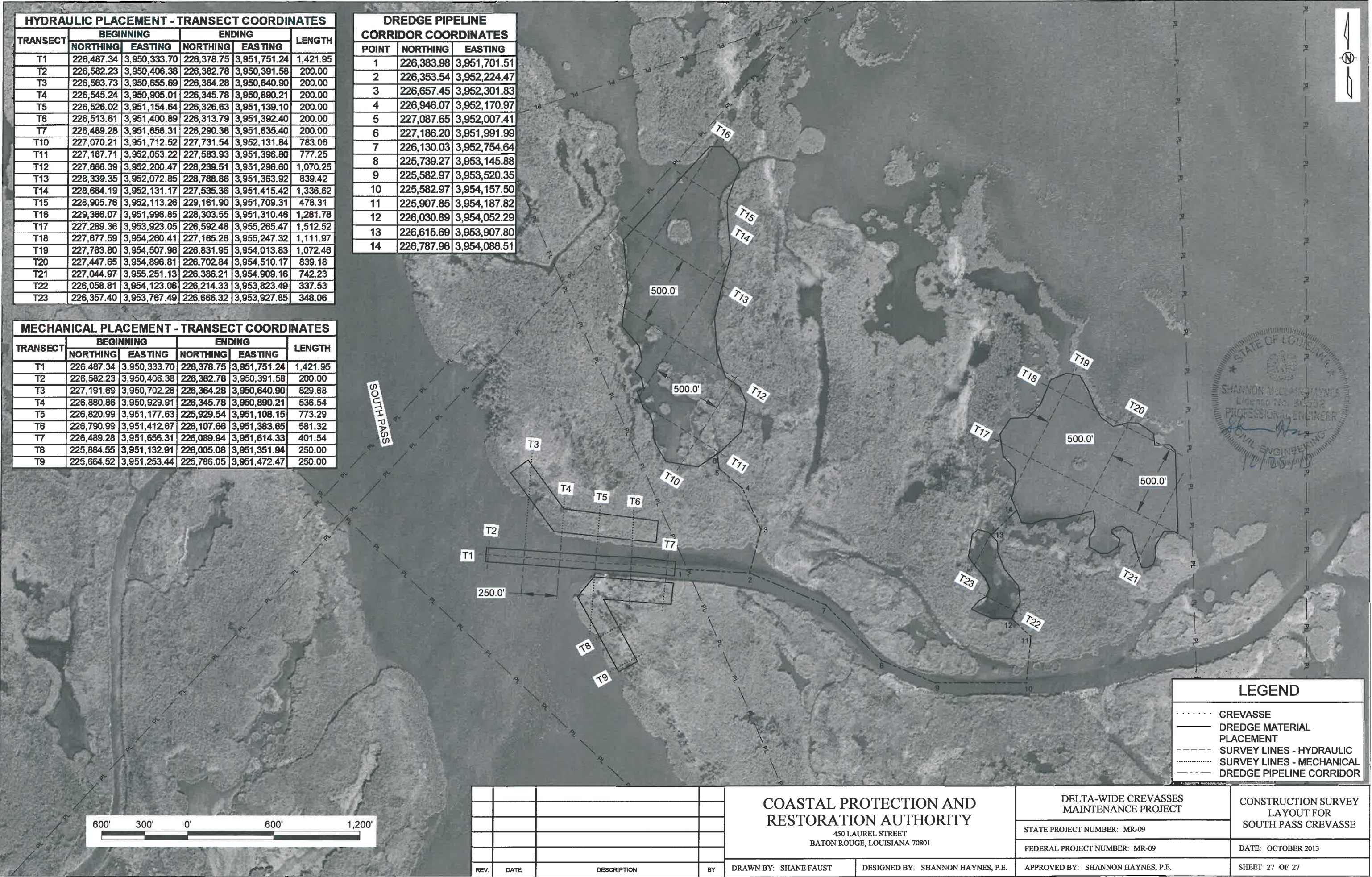
DRAWN BY: SHANE FAUST

DESIGNED BY: SHANNON HAYNES, P.E.

HYDRAULIC PLACEMENT - TRANSECT COORDINATES					
TRANSECT	BEGINNING		ENDING		LENGTH
	NORTHING	EASTING	NORTHING	EASTING	
T1	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

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

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



				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		DATE: OCTOBER 2013
REV.	DATE	DESCRIPTION	BY		DRAWN BY: SHANE FAUST	DESIGNED BY: SHANNON HAYNES, P.E.	APPROVED BY: SHANNON HAYNES, P.E.