

Project Completion Report



LAKE CHAPEAU SEDIMENT INPUT AND HYDROLOGIC RESTORATION TERREBONNE PARISH, LOUISIANA TE-0026

Prepared By:



4924 Hwy. 311 - Houma, LA 70360

Date: October 1, 2018

GENERAL TABLE OF CONTENTS

	Page No.
Project Manager/Contracting Officer/Construction Inspector.....	1
Location and Description of Project	1
Final As-Built Features	1
Items of Work	1
Construction and Construction Oversight.....	2
Major Equipment Used	2
Construction Sequences and Activities.....	2
Safety and Accidents	2
Side Scan Sonar	2
Significant Construction Dates	4
 Appendix A As-Built Surveys	
Appendix B Inspection Reports	
Appendix C Side Scan Sonar Image	

Project Completion Report

Project Name: Lake Chapeau Sediment Input and Hydrologic Restoration Project
CPRA/State Project No.: TE-0026
Report Date: October 1, 2018
By: Delta Coast Consultants

Project Managers/Contracting Officer/Construction Inspector

CPRA Project Manager	Brian Babin	Telephone	(985) 447-0956
Sr. Project Manager	David Boudreaux	Telephone	(985) 655-3108
Project Inspector	Randall Poincot	Telephone	(985) 860-3270

Location and Description of Project

The Lake Chapeau Sediment Input and Hydrologic Restoration Project (TE-0026) involved the degradation of the TE-26 Structure No. 4 and removal of existing timber piles, signage, and steel barricade system. This project was located in Terrebonne Parish, Louisiana along the west bank of Four League Bay bordering Point au Fer Island. A construction inspector was required on site for the duration of the project which took approximately (3) days.

Final As-Built Features

The Lake Chapeau Sediment Input and Hydrologic Restoration Project (TE-0026) consisted of the degradation of the TE-26 Structure No. 4 and removal of existing timber piles, signage, and steel barricade system. The "As-Built" plans submitted show the pre-construction and post-construction elevations of the project area.

Items of Work

Item No.	Description	Unit	Quantity	Unit Price	Final Amount
1	Mobilization/Demobilization	1	LS	\$80,000.00	\$80,000.00
2	Topographic and Bathymetric Surveying	1	LS	\$30,000.00	\$30,000.00
3	Pre-Construction Hazard Safety	1	LS	\$20,000.00	\$20,000.00
				Total:	\$ 130,000.00

Construction and Construction Oversight

ITEM	Lake Chapeau Weir No. 4 Removal
Prime Construction Contractor	Leblanc Marine, LLC
Subcontractor	N/A
Original Construction Contract	\$130,000.00
Change Orders	N/A
Over/Under Runs	N/A
Damages	N/A
Total Construction Contract Cost	\$130,000.00

Construction Oversight Contractor Delta Coast Consultants, LLC Amt. \$15,000.00

Construction OS/Admin Agency CPRA

Major Equipment Used

- 1 – Tug Boat
- 1 – Crane
- 1 – Excavator
- 1 – Crew Boat
- 4 – Barges

Construction Sequences and Activities

1. Cut and removed steel barricade system off the TE-Structure No. 4.
2. Removed existing timber piles and signage.
3. Moved northern portion of rip-rap into the channel to create access for the barge.
4. Rip-rap was relayed to the placement area.
5. Moved remaining rip-rap into the channel.
6. Removed geotextile liner and placed it on barge.
7. As-built survey was performed.

Safety and Accidents

Excellent safety record with no accidents reported.

Side Scan Sonar

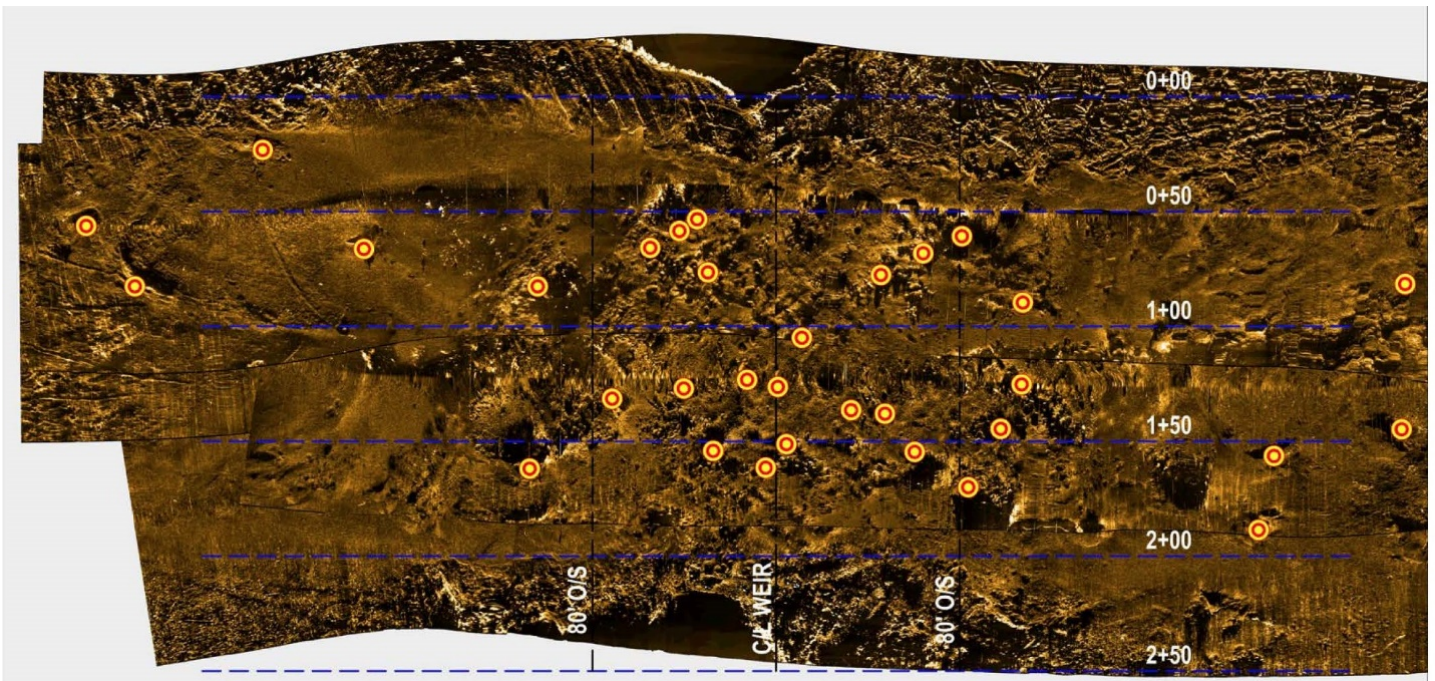
This is a category of sonar system that is used to efficiently create an image of water bottoms. This is accomplished by the sonar device emitting a pulse down towards the water bottom perpendicular to the path of the marine vessel that has this device mounted to it. The acoustic

reflections from the water bottom are recorded in a series of cross-track slices, and when stitched together these slices form an image of the water bottom.

The image below represents the water bottom of weir No. 4 after construction was completed on the degradation of the rock weir. The side-scan sonar survey was performed on September 11, 2018 and was conducted with a Klein 3900 (445kHz, 900kHz Side-scan Sonar interfaced with RTK GPS and Hypack v2017. The data was post processed in Chesapeake Sonar Wiz v6.

The targets on the image represent undulations of the water bottom that are higher in elevation than the adjacent bottom. However, none of these targets appear to be at an elevation that is above the plan design elevation of -8.0. Therefore, based on the as-built survey data that the contractor submitted to us for review and on this side-scan sonar survey, the project has been completed in accordance with the design grades for this project.

Side Scan Sonar Image of Removed Weir #4



Significant Construction Dates:

ACTION	Lake Chapeau Weir No. 4 Removal Date
BID I.D.	Construction
Bid Opening	June 7, 2018
Construction Contract Award	July 24, 2018
Preconstruction Conference	August 3, 2018
Notice to Proceed	August 1, 2018
Mobilization	August 16, 2018
Construction Start	August 17, 2018
Construction Completion	August 19, 2018
Final Acceptance	September 14, 2018

Appendix A

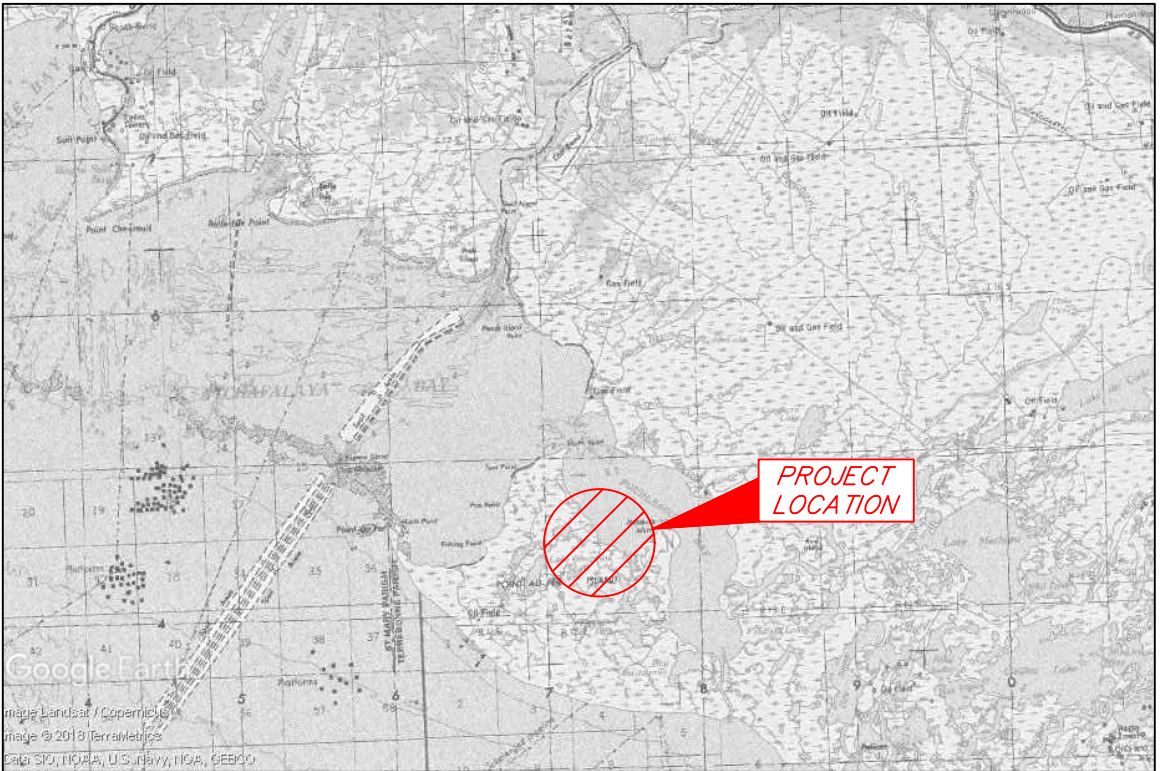
As-Built Survey

LEBLANC MARINE, LLC

AS-BUILT SURVEY (08/20/2018)

LAKE CHAPEAU SEDIMENT INPUT AND HYDROLOGIC
RESTORATION PROJECT - 2018 MAINTENANCE EVENT
PROJECT NO. TE-0026

TERREBONNE PARISH, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	PLAN VIEW
3	CENTERLINE PROFILE VIEW
4-6	CROSS-SECTION VIEWS



THIS MAP REPRESENTS AN ACTUAL FIELD
SURVEY MADE UNDER DIRECT
SUPERVISION OF THE UNDERSIGNED.

Keith J. Roberts

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
202 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:
PLAN SCALE SCALE: NTS	
NTS NTS NTS NTS	
DATE: 08/20/2018	JOB# 2181031



LEBLANC MARINE, LLC
AS-BUILT SURVEY
LAKE CHAPEAU SEDIMENT INPUT AND
HYDROLOGIC RESTORATION PROJECT
TITLE PAGE
TERREBONNE PARISH, LA

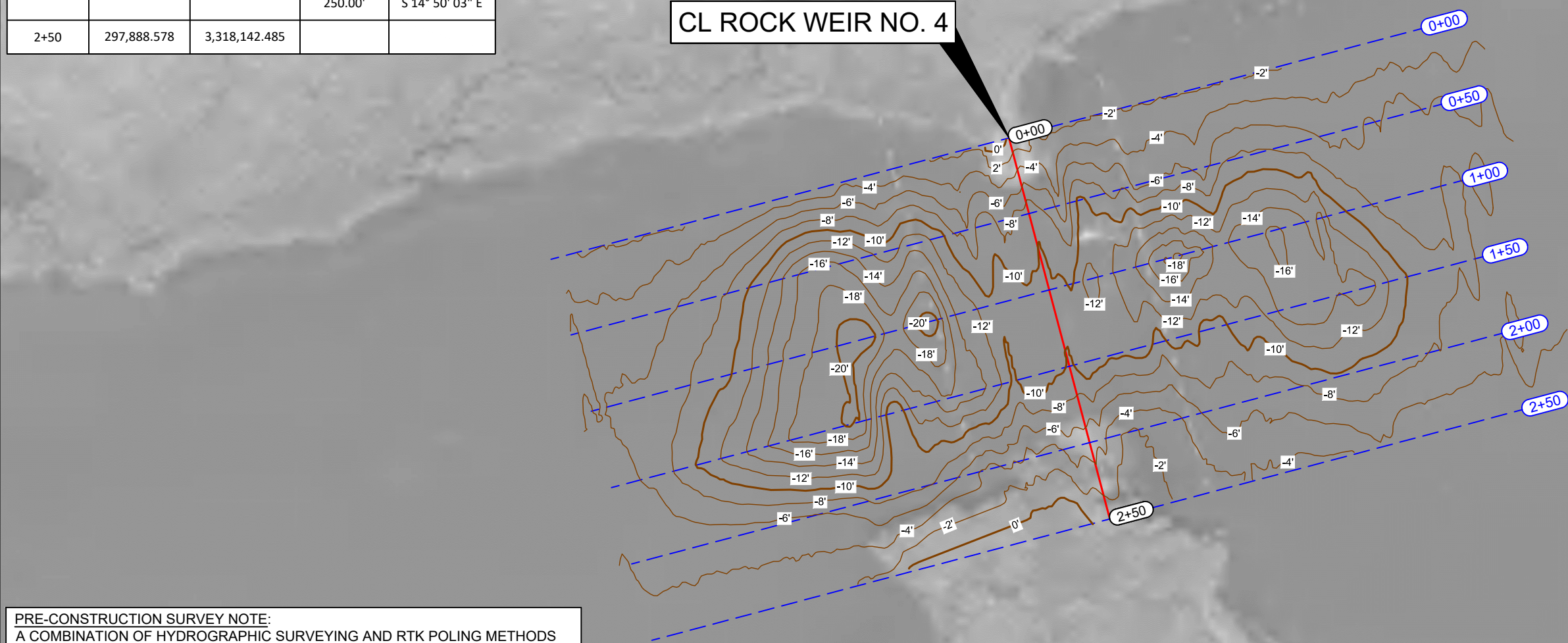
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg

SHEET: 1 OF 6

SURVEY CONTROL POINTS				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
080818TJR1R	298298.888	3318215.276	1.453	SET 1/2" x 4' REBAR WITH ALUMINUM CAP
080818TJR2R	298295.618	3318206.776	1.702	SET 1/2" x 4' REBAR WITH ALUMINUM CAP

CL ROCK WEIR NO. 4 ALIGNMENT REPORT				
STATION	NORTHING	EASTING	DISTANCE	DIRECTION
0+00	298,130.246	3,318,078.480		
			250.00'	S 14° 50' 03" E
2+50	297,888.578	3,318,142.485		



PRE-CONSTRUCTION SURVEY NOTE:
A COMBINATION OF HYDROGRAPHIC SURVEYING AND RTK POLING METHODS WERE USED TO OBTAIN THE CROSS-SECTION SURVEY DATA, AND RTK POLING WAS USED TO OBTAIN THE CENTERLINE PROFILE SURVEY DATA. AT THE INTERSECTIONS OF THE CROSS-SECTION SURVEY DATA AND THE CENTERLINE PROFILE SURVEY DATA THERE MAY BE SLIGHT DISCREPANCIES BETWEEN THE DATA DUE TO THE FACT THAT THE ROCK WEIR WAS COMPLETELY SUBMERGED AT THE TIME OF THE SURVEY AND SURVEY DATA POINTS MAY HAVE BEEN OBTAINED AT DIFFERENT POSITIONS ON THE ROCK.



- NOTES
- ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN (2011)(EPOCH:2010.0000) DATUM, US SURVEY FOOT AS DERIVED FROM OPUS SOLUTIONS OBTAINED ON ESTABLISHED PROJECT CONTROL POINT 080818TJR1R.
 - ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12B) AS DERIVED FROM SAID OPUS SOLUTIONS ON CONTROL POINT 080818TJR1R.
 - HYDROGRAPHIC SURVEY DATA ACQUISITION PERFORMED WITH AN ODOM MKIII 24/200kHz TRANSDUCER INTEGRATED WITH RTK.
 - ADDITIONAL SURVEY DATA WAS OBTAINED USING RTK POLING METHODS.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 - AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON AUGUST 20, 2018.

LEGEND	
	CL ROCK WEIR NO. 4
	SURVEY TRANSECT LINES
	2' CONTOUR LINES

REVISED BY:	DATE:
<div>HORIZONTAL SCALE 1" = 80' </div>	
DATE: 08/20/2018	JOB# 2181031

HYDROTERRA
TECHNOLOGIES, LLC
LAND SURVEY AND HYDROGRAPHIC SOLUTIONS

LEBLANC MARINE, LLC
237-364-4701

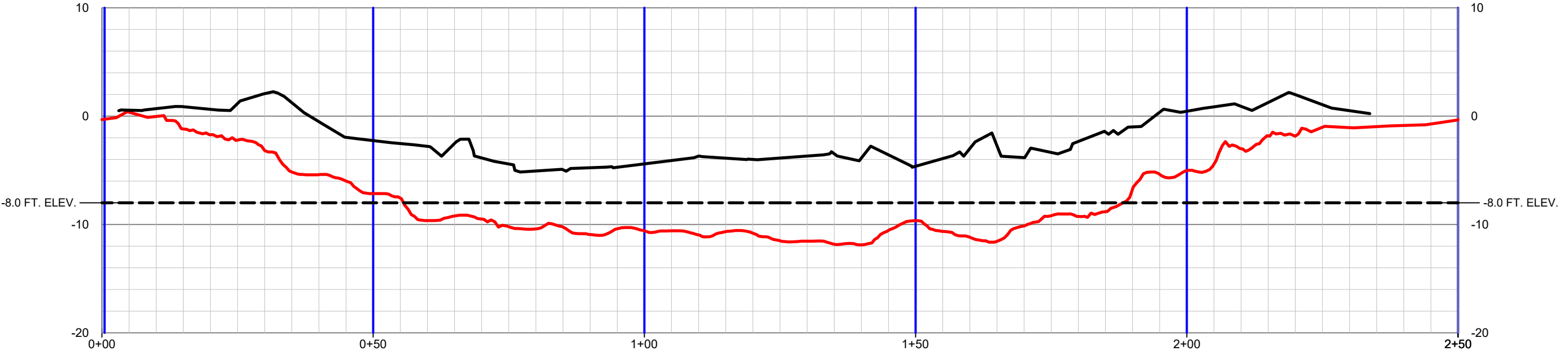
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg

LEBLANC MARINE, LLC
AS-BUILT SURVEY
*LAKE CHAPEAU SEDIMENT INPUT AND
HYDROLOGIC RESTORATION PROJECT*
PLAN VIEW
TERREBONNE PARISH, LA

SHEET: 2 OF 6

CL Rock Weir No. 4



LEGEND	
	PRE-CONSTRUCTION SURVEY (08/08/2018)
	AS-BUILT SURVEY (08/20/2018)
	TEMPLATE (-8.0 FT. ELEVATION)
	SURVEY TRANSECT LINES

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 08/20/2018	JOB# 2181031

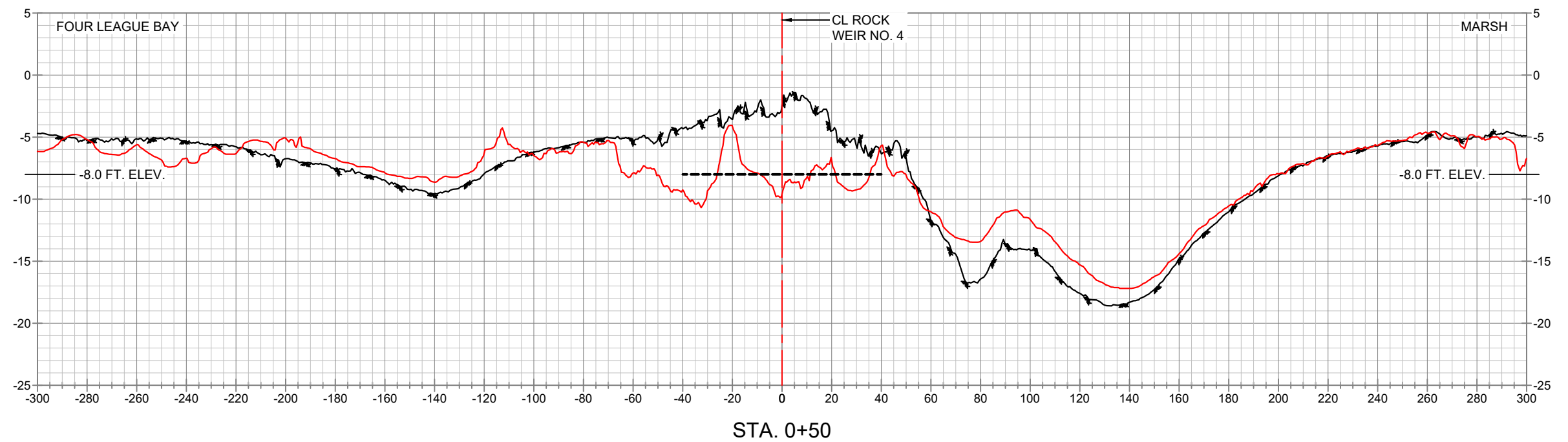
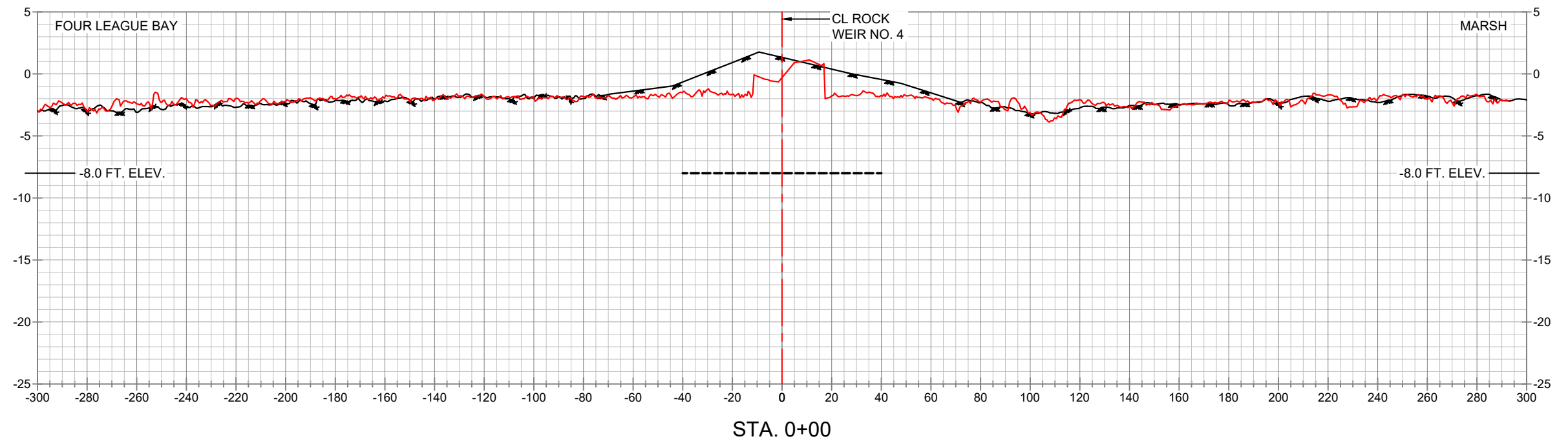







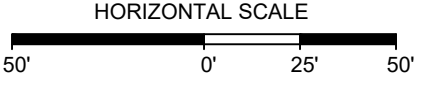
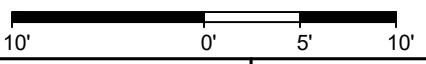

LEBLANC MARINE, LLC
AS-BUILT SURVEY
*LAKE CHAPEAU SEDIMENT INPUT AND
HYDROLOGIC RESTORATION PROJECT*
CENTERLINE PROFILE VIEW
TERREBONNE PARISH, LA

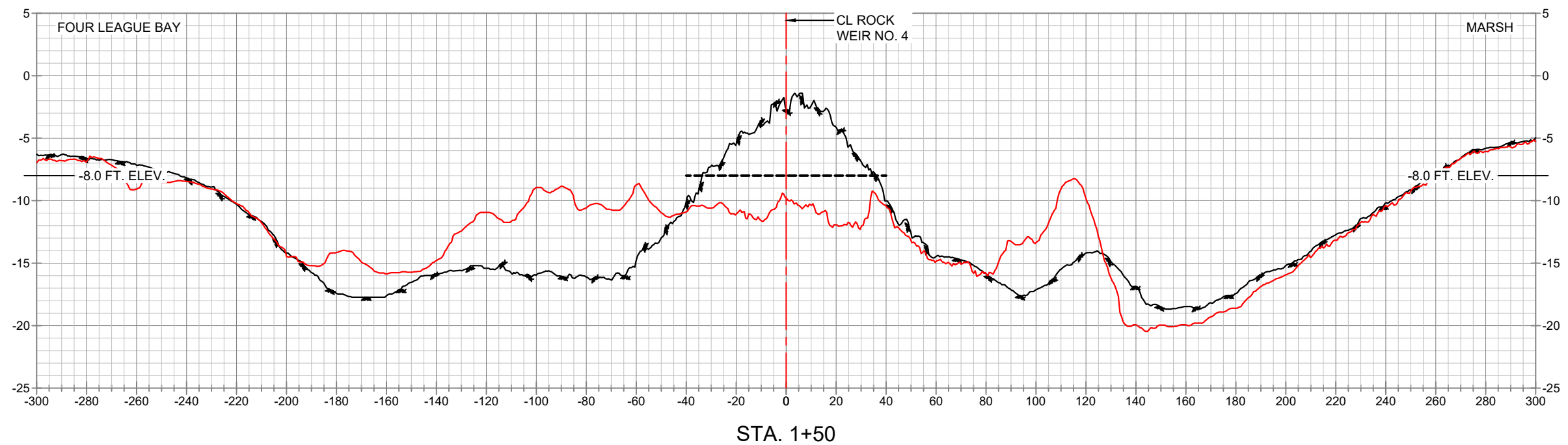
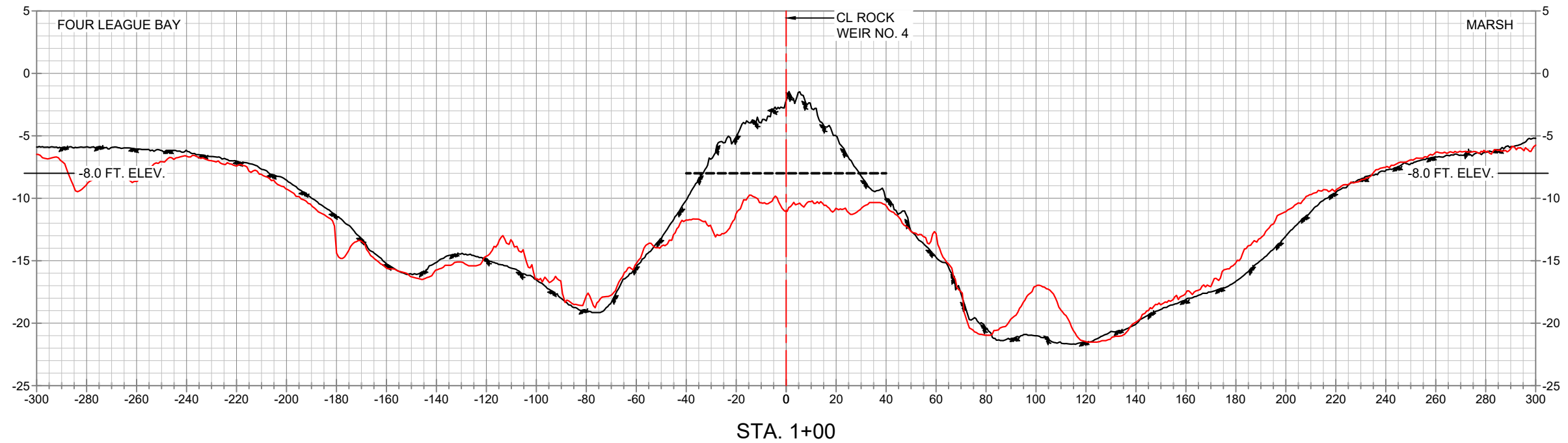
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg

SHEET: 3 OF 6



LEGEND		REVISED BY:	DATE:	 	
	PRE-CONSTRUCTION SURVEY (08/08/2018)				
	AS-BUILT SURVEY (08/20/2018)				
	TEMPLATE (-8.0 FT. ELEVATION)	 		LEBLANC MARINE, LLC AS-BUILT SURVEY <i>LAKE CHAPEAU SEDIMENT INPUT AND</i> <i>HYDROLOGIC RESTORATION PROJECT</i> CROSS-SECTION VIEWS TERREBONNE PARISH, LA	
	CL ROCK WEIR NO. 4	DATE: 08/20/2018	JOB# 2181031		
FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg				SHEET: 4 OF 6	



LEGEND	
	PRE-CONSTRUCTION SURVEY (08/08/2018)
	AS-BUILT SURVEY (08/20/2018)
	TEMPLATE (-8.0 FT. ELEVATION)
	CL ROCK WEIR NO. 4

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 08/20/2018	JOB# 2181031

HYDROTERRA
TECHNOLOGIES, LLC
LAND SURVEY AND HYDROGRAPHIC SOLUTIONS

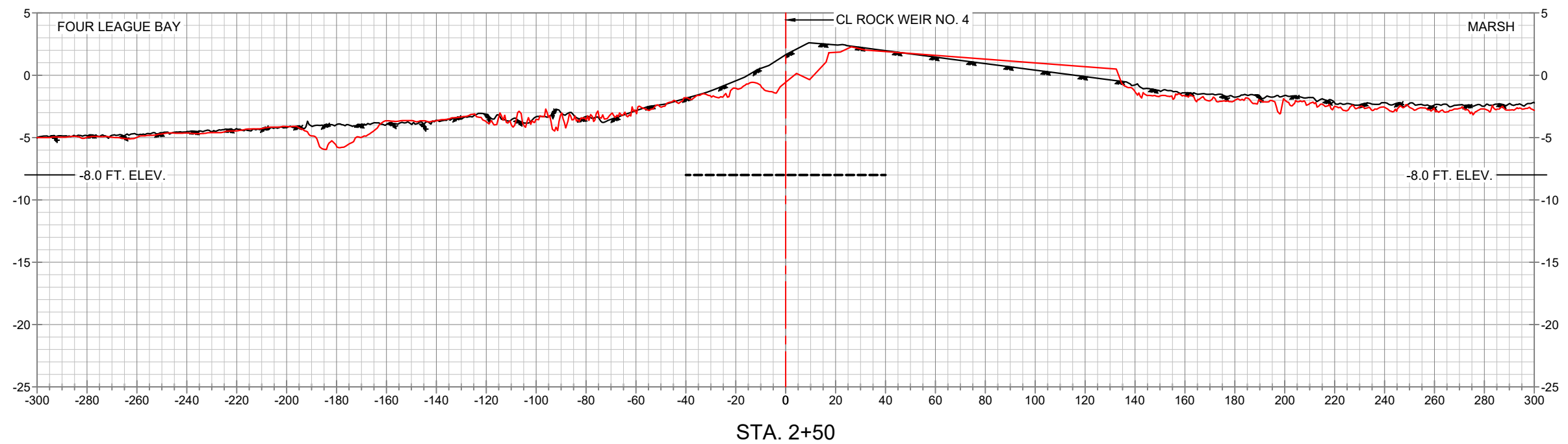
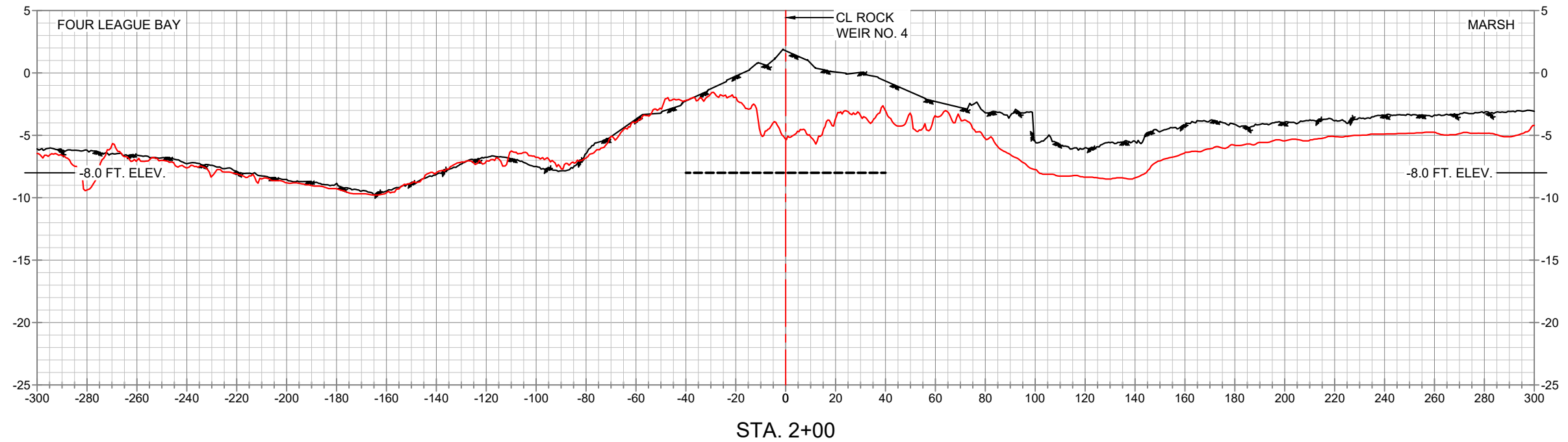
LEBLANC MARINE, LLC
337-364-4701

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg

LEBLANC MARINE, LLC
AS-BUILT SURVEY
*LAKE CHAPEAU SEDIMENT INPUT AND
HYDROLOGIC RESTORATION PROJECT*
CROSS-SECTION VIEWS
TERREBONNE PARISH, LA

SHEET: 5 OF 6



LEGEND	
	PRE-CONSTRUCTION SURVEY (08/08/2018)
	AS-BUILT SURVEY (08/20/2018)
	TEMPLATE (-8.0 FT. ELEVATION)
	CL ROCK WEIR NO. 4

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 08/20/2018	JOB# 2181031


HYDROTERRA
 TECHNOLOGIES, LLC
LAND SURVEY AND HYDROGRAPHIC SOLUTIONS



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Lake Chapeau_As-Built Survey (08-20-18).dwg

LEBLANC MARINE, LLC
AS-BUILT SURVEY
LAKE CHAPEAU SEDIMENT INPUT AND
HYDROLOGIC RESTORATION PROJECT
 CROSS-SECTION VIEWS
 TERREBONNE PARISH, LA

SHEET: 6 OF 6

Appendix B
Construction Inspection Reports

FIELD OBSERVATION REPORT



DELTA COAST
CONSULTANTS, LLC

4924 Hwy 311
Houma, LA 70360

985.655.3100 (Tel)
www.deltacoastllc.com

OWNER INFORMATION

Project Name	Lake Chapeau Sediment Maintenance	Date	8/17/2018
Project #	2018.035	Time	6:30-7:30
Client	CPRA		
Contractor	Patret Construction	Weather (High/Low)	73°-84°
Notice to Proceed		Rain fall	Cloudy/Rain
Contract day		Conditions	4-10 East
Days in Contract		# of Workers Present	10

EQUIPMENT ON SITE

1 - Tug	
4 - Barges	
1 - Crane	
1- Excavator	
1 - Crew Boat	

DESCRIPTION OF WORK PERFORMED TODAY

Cut and removed metal pipes.

Pulled wooden piles. One pile brock 2' below mudline in center of channel.

Moved Northern portion of Rip-Rap in channel to create access for barge.

Rip-Rap had to be relayed to placement area.

ADDITIONAL COMMENTS / OBSERVATIONS

Excavator brock down at 3:30 pm

Rain @ 9:30-10:15

Two Piles on north side left in place and two piles on southwest side left in place.

INSTRUCTIONS / DIRECTIVES PROVIDED TO CONTRACTOR

Randy Poincot	8/17/2018
Submitted by (Delta Coast Consultants, LLC Field Representative)	Date

PHOTOGRAPHS



FIELD OBSERVATION REPORT



DELTA COAST
CONSULTANTS, LLC

4924 Hwy 311
Houma, LA 70360

985.655.3100 (Tel)
www.deltacoastllc.com

OWNER INFORMATION

Project Name	Lake Chapeau Sediment Maintenance	Date	8/18/2018
Project #	2018.035	Time	6:30-7:30
Client	CPRA		
Contractor	Patret Construction	Weather (High/Low)	75°-86°
Notice to Proceed		Rain fall	Cloudy
Contract day		Conditions	4-10 South
Days in Contract		# of Workers Present	6

EQUIPMENT ON SITE

1 - Tug	
4 - Barges	
1 - Crane	
1- Excavator	
1 - Crew Boat	

DESCRIPTION OF WORK PERFORMED TODAY

Moved Rip-Rap into channel.

disposing liner on barge

Retrieving liner on water and disposed on barge.

ADDITIONAL COMMENTS / OBSERVATIONS

Excavator repaired at 9:45am

Two Piles on north side left in place and two piles on southwest side left in place.

INSTRUCTIONS / DIRECTIVES PROVIDED TO CONTRACTOR

Randy Poincot	8/18/2018
Submitted by (Delta Coast Consultants, LLC Field Representative)	Date

CIVIL ENGINEERING · COASTAL ENGINEERING · SURVEYING · PROJECT MANAGEMENT

PHOTOGRAPHS



FIELD OBSERVATION REPORT



DELTA COAST
CONSULTANTS, LLC

4924 Hwy 311
Houma, LA 70360

985.655.3100 (Tel)
www.deltacoastllc.com

OWNER INFORMATION

Project Name	Lake Chapeau Sediment Maintenance	Date	8/19/2018
Project #	2018.035	Time	6:30-12:30
Client	CPRA		
Contractor	Patriot Construction	Weather (High/Low)	77°-84°
Notice to Proceed		Rain fall	Cloudy
Contract day		Conditions	4-10 West
Days in Contract		# of Workers Present	6

EQUIPMENT ON SITE

1 - Tug	
4 - Barges	
1 - Crane	
1- Excavator	
1 - Crew Boat	

DESCRIPTION OF WORK PERFORMED TODAY

Moved Rip-Rap into channel.

disposing liner on barge

Retrieving liner on water and disposed on barge.

Removed last 4 Piles.

ADDITIONAL COMMENTS / OBSERVATIONS

Poled area for proper depth.

INSTRUCTIONS / DIRECTIVES PROVIDED TO CONTRACTOR

Randy Poincot	8/19/2018
Submitted by (Delta Coast Consultants, LLC Field Representative)	Date

PHOTOGRAPHS



FIELD OBSERVATION REPORT



DELTA COAST
CONSULTANTS, LLC

4924 Hwy 311
Houma, LA 70360

985.655.3100 (Tel)
www.deltacoastllc.com

OWNER INFORMATION

Project Name	Lake Chapeau Sediment Maintenance	Date	8/20/2018
Project #	2018.035	Time	7:45-1:00
Client	CPRA		
Contractor	Hydroterra	Weather (High/Low)	75°-87°
Notice to Proceed		Rain fall	Partly Cloudy
Contract day		Conditions	2-10 West
Days in Contract		# of Workers Present	2

EQUIPMENT ON SITE

1 - Crew Boat	

DESCRIPTION OF WORK PERFORMED TODAY

Hydroterra performed survey of project site.

ADDITIONAL COMMENTS / OBSERVATIONS

INSTRUCTIONS / DIRECTIVES PROVIDED TO CONTRACTOR

Randy Poincot

Submitted by (Delta Coast Consultants, LLC Field Representative)

8/20/2018

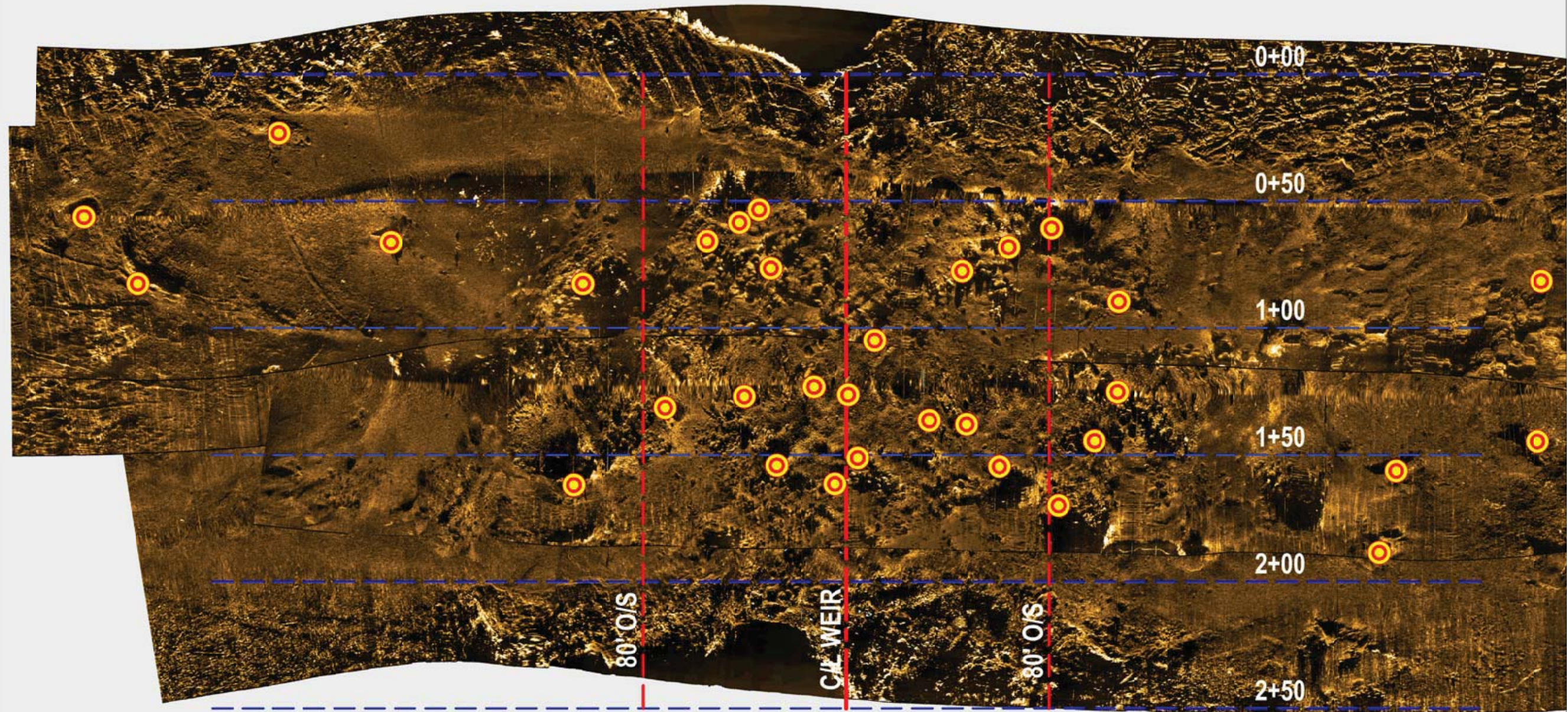
Date

CIVIL ENGINEERING · COASTAL ENGINEERING · SURVEYING · PROJECT MANAGEMENT

PHOTOGRAPHS



Appendix C
Side Scan Sonar Image



Side Scan Sonar Image of Removed Weir No. 4

The targets on the image represent undulations of the water bottom that are higher in elevation than the adjacent bottom. However, none of these targets appear to be at an elevation that is above the plan design elevation of -8.0.