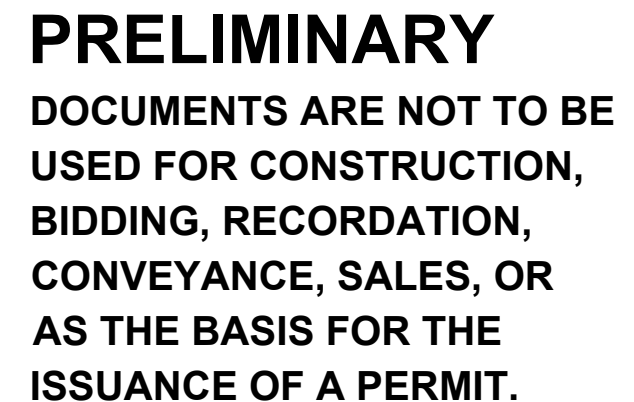
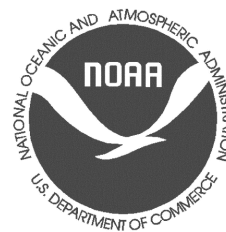
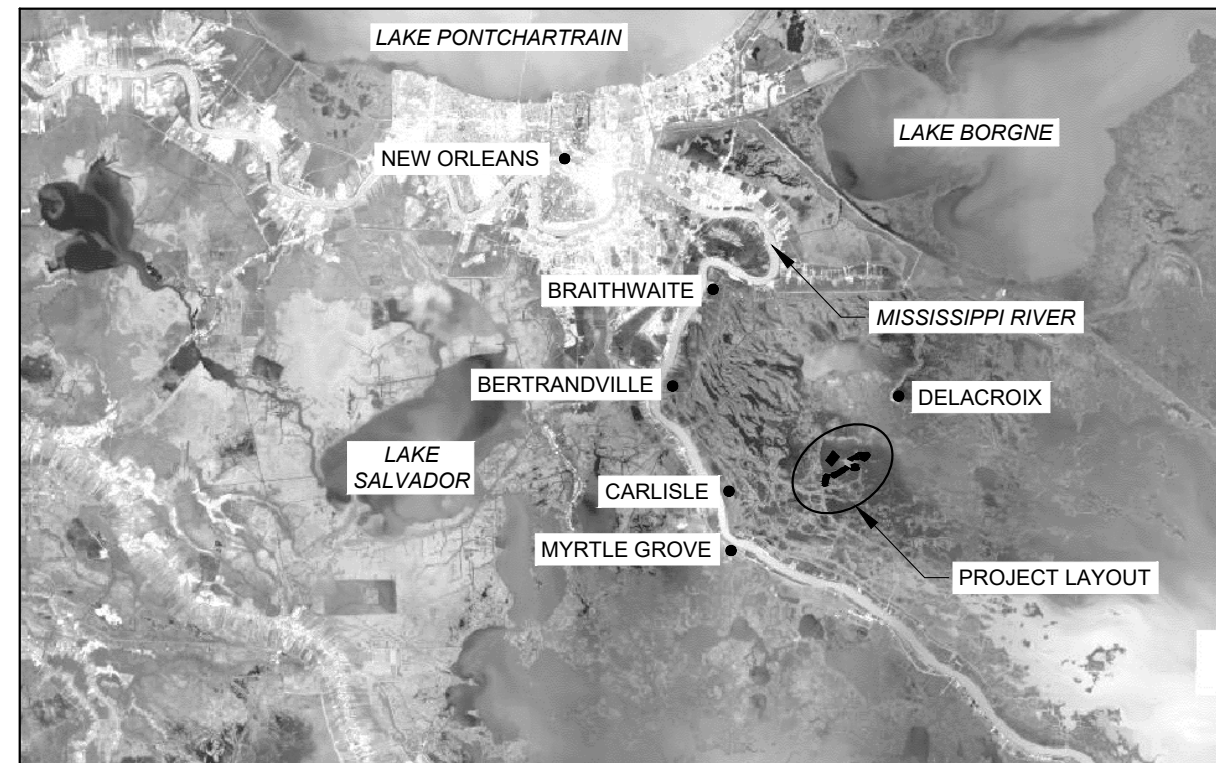


INDEX TO SHEETS

BRETON LANDBRIDGE MARSH CREATION (WEST)
RIVER AUX CHENES TO GRAND LAKE PROJECT
BS-0038
PLAQUEMINES PARISH



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

BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE PROJECT	TITLE SHEET
STATE PROJECT NUMBER: BS-4038	DESIGNED BY: ALEX HOLSTON, E.I.
DRAWN BY: SHANE FAUST	APPROVED BY: KAZI SADID, P.E. - 0042398

DATE: SEPTEMBER 202

GENERAL NOTES:

1. 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.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
 3. THE CONTRACTOR SHALL MAINTAIN AIDS TO NAVIGATION DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. 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.
 4. THE EARTHEN CONTAINMENT DIKES, LAKE DIKES, MARSH CREATION AREA, AND MARSH CREATION BORROW AREA WERE DESIGNED FOR CONSTRUCTION USING AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD AND MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
 5. THE HYDRAULIC DREDGING MARSH FILL QUANTITIES FOR THE MARSH CREATION AREAS ARE BASED ON THE BORROW AREA CUT VOLUME. ACTUAL QUANTITIES FOR PAYMENT WILL BE BASED ON PROCESS SURVEYS OF THE MARSH CREATION BORROW AREA PERFORMED AS PART OF THIS CONTRACT AS REQUIRED IN TS-200 "CONSTRUCTION SURVEYS" OF THE SPECIFICATIONS.
 6. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, EQUIPMENT ACCESS CORRIDORS, AND MARSH CREATION AREAS PRIOR TO MOBILIZATION FOR CONSTRUCTION. 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 MOBILIZATION. ADDITIONAL TRACK LINES SHALL BE RUN IN ACCORDANCE WITH TS-200 OF THE SPECIFICATIONS.
 7. PIPELINES AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND MARK ALL PIPELINES AND UTILITIES LOCATED WITHIN 150 FT. OF THE WORK PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THESE MARKERS DURING CONSTRUCTION.
 8. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREAS. ANY MATERIAL THAT IS DEPOSITED ELSEWHERE THAN WITHIN THE MARSH CREATION AREA SHOWN ON THE CONTRACT DRAWINGS MAY BE REQUIRED TO BE REMOVED AND DEPOSITED IN APPROVED AREAS AT NO ADDITIONAL EXPENSE TO THE OWNER.
 9. BACKGROUND IMAGERY WAS TAKEN IN 2018.
 4. DATA FROM STATIONS CRMS 0121 AND CRMS 0131 FROM JULY 2015 TO JULY 2020 WAS USED TO CALCULATE THE AVERAGE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12B. MHW = +1.07' AND MLW = +0.44' WITHIN PROJECT AREA.
 5. ESTIMATED HYDRAULIC DREDGING QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MARCH 2020 TO AUGUST 2020 BY CHUSTZ SURVEYING, LLC. QUANTITIES WERE CALCULATED USING AUTOCAD AND AERIAL PHOTOGRAPHY FOR SECTIONS.

NOTIFICATIONS:

1. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.
2. THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED BELOW AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK.

DELACROIX CORPORATION
CONTACT: ROBERT M. BENGE
PHONE: (504) 523-2245

3. REQUESTS FOR MODIFICATIONS TO THE EQUIPMENT ACCESS CORRIDORS SHALL BE INCLUDED AS PART OF THE WORK PLAN AND ARE SUBJECT TO APPROVAL BY THE ENGINEER.
4. THE CONTRACTOR SHALL ADHERE TO THE MOST CURRENT PUBLICATION OF "RECOMMENDED BEST PRACTICES GUIDE FOR SAFE DREDGING NEAR UNDERWATER GAS AND HAZARDOUS LIQUID PIPELINES" DEVELOPED BY THE COUNCIL FOR DREDGING AND MARINE CONSTRUCTION SAFETY, www.cdmc.org, AND "WORKING SAFELY NEAR UNDERWATER PIPELINES", DEVELOPED BY COASTAL AND MARINE OPERATORS PIPELINE INDUSTRY INITIATIVE (CAMO) AND THE LAKE PONTCHARTRAIN BASIN FOUNDATION (LPBF), <http://www.camogroup.org/wp-content/uploads/2020/04/Working-Safely-Near-Underwater-Pipelines.pdf>.

DESIGN NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET, GEOID 12B. 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 FOLLOWING:

<u>SECONDARY SURVEY MONUMENT</u>	<u>ELEVATION</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>GEOID</u>
BS32-SM-01	2.69'	460,856.72	3,772,450.51	12B

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE DESIGN SURVEYS PERFORMED FROM MARCH 2020 TO APRIL 2020 BY CHUSTZ SURVEYING, LLC. THE DESIGN SURVEY REPORT IS PROVIDED IN THE SPECIFICATIONS.
3. A GEOTECHNICAL INVESTIGATION WAS PERFORMED BY APS ENGINEERING AND TESTING IN AUGUST 2020. THE SOIL SAMPLING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

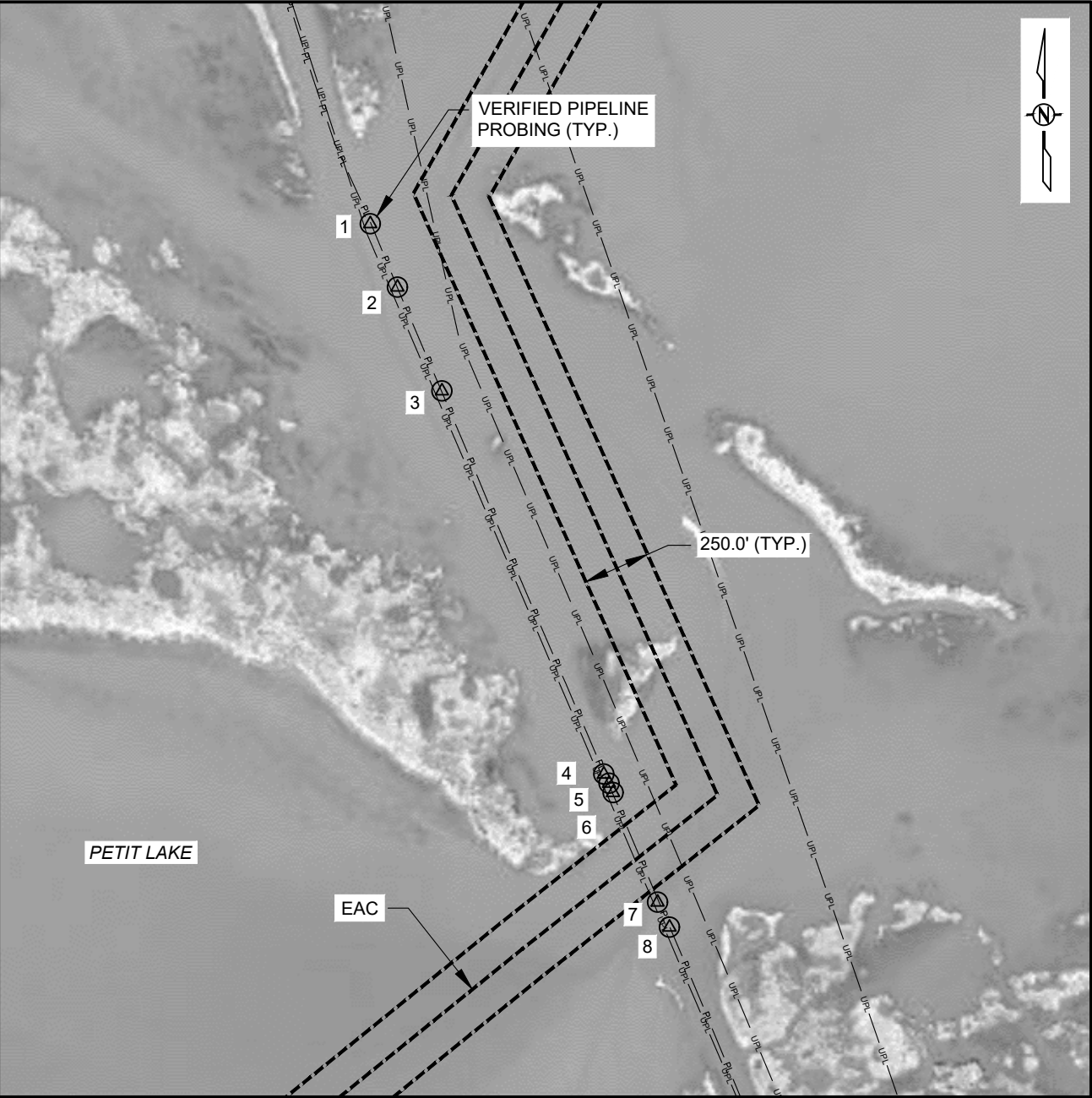
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY ¹
1	MOBILIZATION/DEMOBILIZATION (TS-100)	LS	1
2	CONSTRUCTION SURVEYS (TS-200)	LS	1
3	GRADE STAKES (TS-220)	EA	55
4	SETTLEMENT PLATES (TS-270)	EA	14
5	EARTHEN CONTAINMENT DIKE (TS-300)	LF	35,675
6	LAKE DIKE (TS-301)	LF	13,375
7	EQUIPMENT ACCESS DREDGING (TS-360)	LS	1
8	MARSH FILL (TS-400)	CY	2,158,530
9	DREDGE PIPELINE FOR EROSION CONTROL (TS-1120)	LF	13,375

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

ACRONYMS & ABBREVIATIONS:

CMF	CONSTRUCTED MARSH FILL	LF	LINEAR FOOT
CPT	CONE PENETRATION TEST	LS	LUMP SUM
CY	CUBIC YARD	MA	MAGNETOMETER ANOMALY
DPC	DREDGE PIPELINE CORRIDOR	MCA	MARSH CREATION AREA
EAC	EQUIPMENT ACCESS CORRIDOR	MCBA	MARSH CREATION BORROW
ECD	EARTHEN CONTAINMENT DIKE		AREA
ECDBA	EARTHEN CONTAINMENT DIKE	MHW	MEAN HIGH WATER
	BORROW AREA	MLW	MEAN LOW WATER
EG	EXISTING GROUND	NTS	NOT TO SCALE
EL	ELEVATION	PL	VERIFIED PIPELINE
EWB	EXISTING WATER BOTTOM	SB	SOIL BORING
FT	FOOT	SP	SETTLEMENT PLATE
GS	GRADE STAKE	ST	SURVEY TRANSECT
LD	LAKE DIKE	TS	TEMPORARY SPOIL
LDBA	LAKE DIKE BORROW AREA	TYP	TYPICAL
		UPL	UNVERIFIED PIPELINE

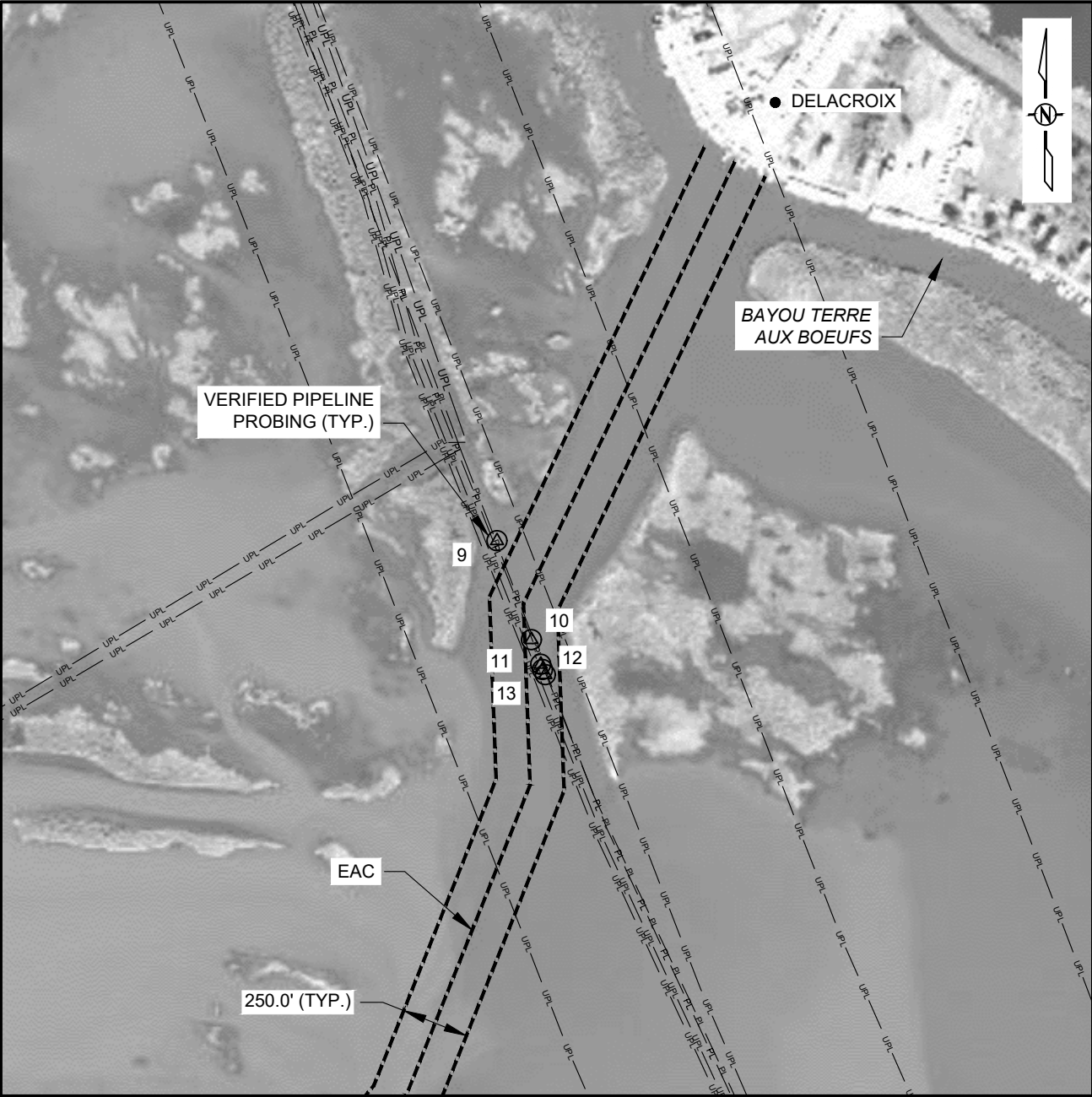
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE PROJECT		GENERAL NOTES		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802							
STATE PROJECT NUMBER: BS-0038		DESIGNED BY: ALEX HOLSTEN, E.I.									
DRAWN BY: SHANE FAUST		APPROVED BY: KAZI SADDID, P.E. - 0042398									
DATE: SEPTEMBER 2021				REV.	DATE	DESCRIPTION	BY				
SHEET 2 OF 21											



PIPELINE PROBING-1
SCALE = 1" = 600'

VERIFIED PIPELINE PROBING COORDINATES				
POINT	NORTHING	EASTING	DEPTH OF COVER	T.O.P. EL.
1	452,685.13	3,766,616.25	EXPOSED	-5.9'
2	452,450.59	3,766,716.87	EXPOSED	-5.9'
3	452,066.61	3,766,881.49	EXPOSED	-5.8'
4	450,649.22	3,767,480.27	3.5'	-7.0'
5	450,615.32	3,737,499.84	3.5'	-9.2'
6	450,580.84	3,767,514.66	4.5'	-10.3'
7	450,175.38	3,767,679.31	1.0'	-12.1'
8	450,082.99	3,767,723.63	4.0'	-10.1'

NOTE:
THESE PIPELINES WERE PROBED BY FUGRO ON APRIL 17, 2020.

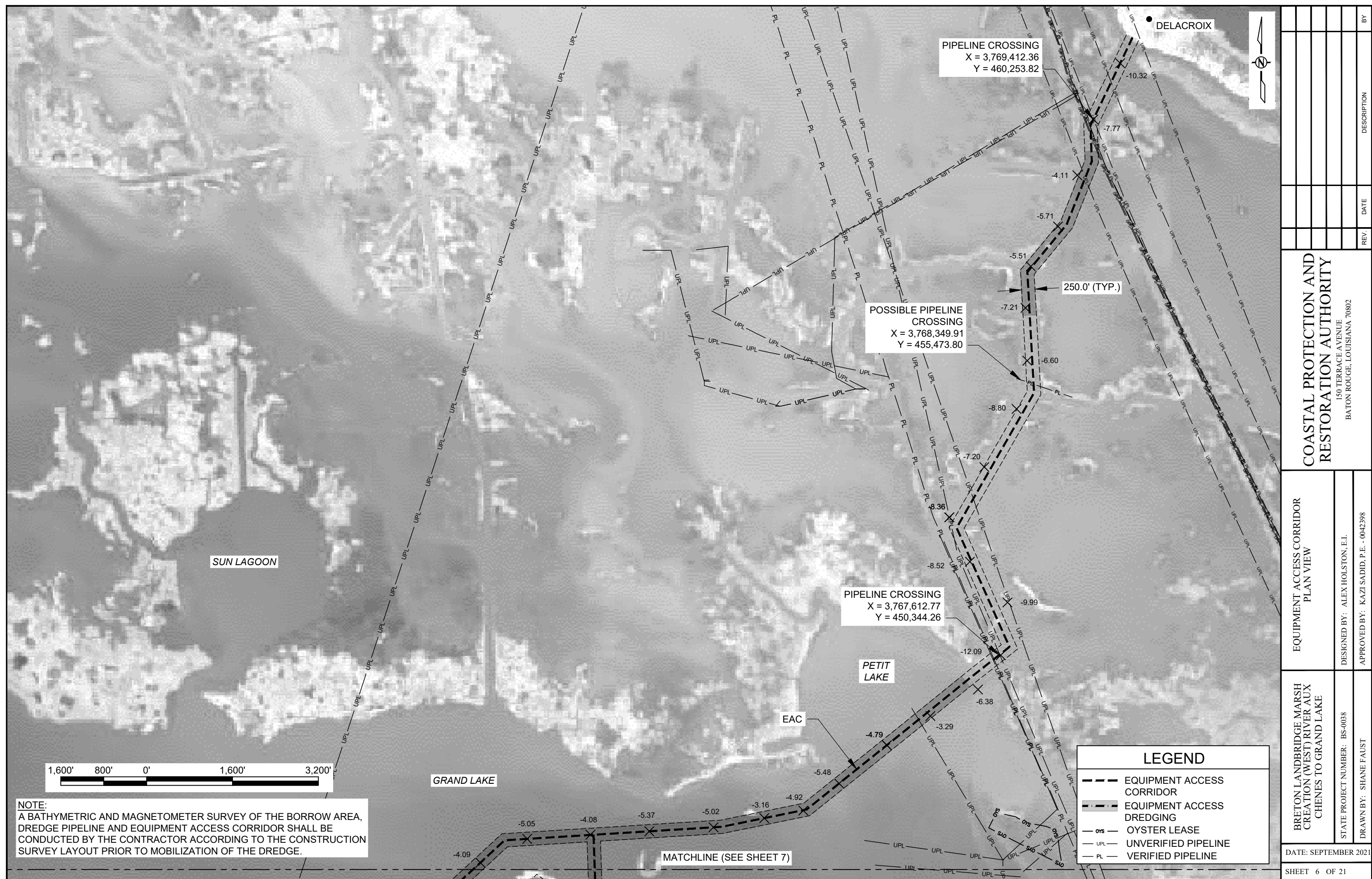


PIPELINE PROBING-2
SCALE = 1" = 600'

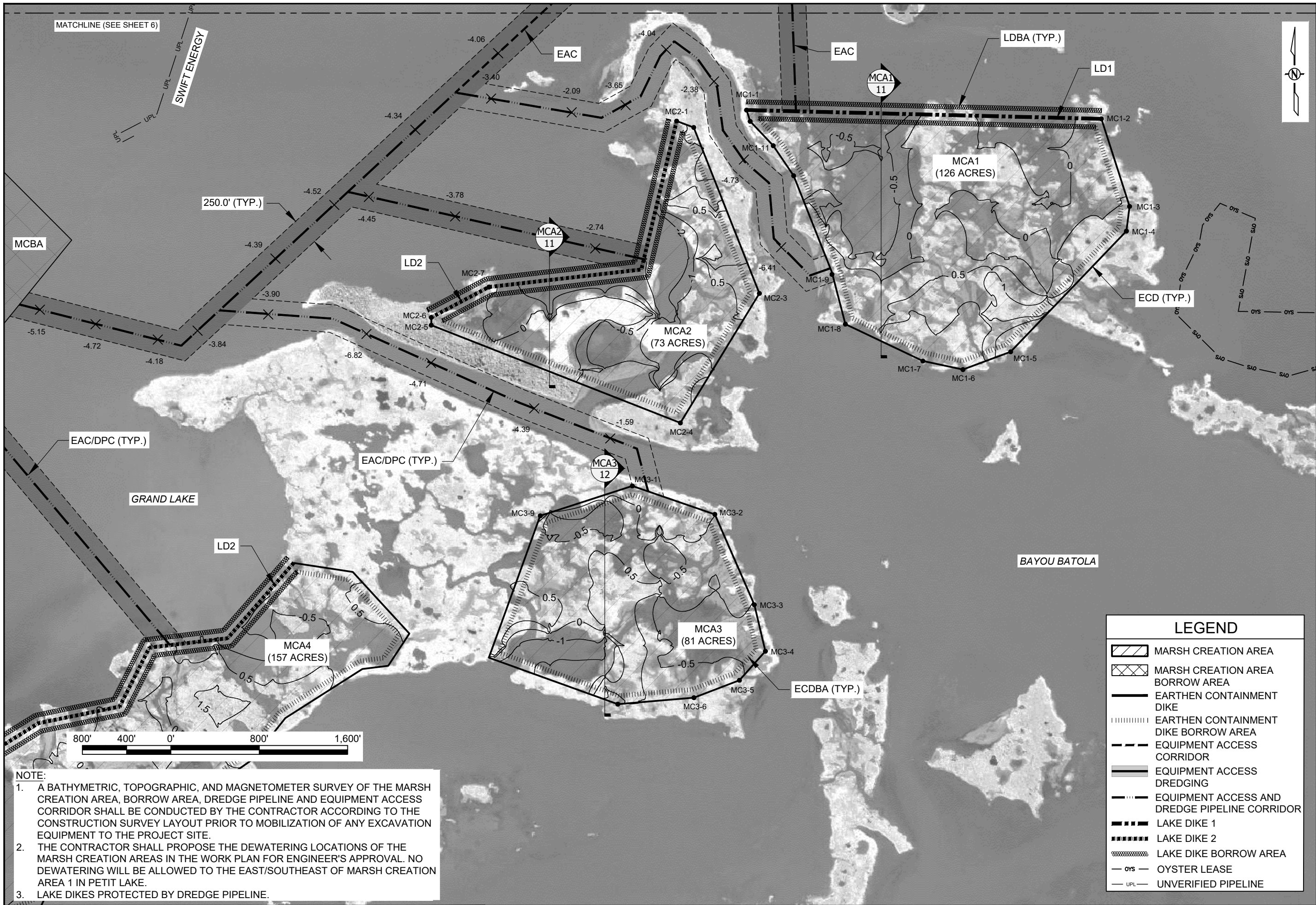
VERIFIED PIPELINE PROBING COORDINATES				
POINT	NORTHING	EASTING	DEPTH OF COVER	T.O.P. EL.
9	460,524.37	3,769,313.29	7.0'	-5.3'
10	460,157.94	3,769,440.88	4.0'	-7.9'
11	460,067.02	3,769,475.20	8.6'	-4.3'
12	460,047.35	3,769,481.89	8.6'	-4.7'
13	460,028.74	3,769,492.32	PL MARKER	-3.3'

LEGEND	
	EQUIPMENT ACCESS CORRIDOR
	UNVERIFIED PIPELINE
	VERIFIED PIPELINE
	VERIFIED PIPELINE PROBING

BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE PROJECT		PIPELINE PROBING LOCATIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: BS-0038		DESIGNED BY: ALEX HOLSTON, E.I.						
DRAWN BY: SHANE FAUST		APPROVED BY: KAZI SADID, P.E. - 0042398						
DATE: SEPTEMBER 2021					REV.	DATE	DESCRIPTION	BY
SHEET 4 OF 21								



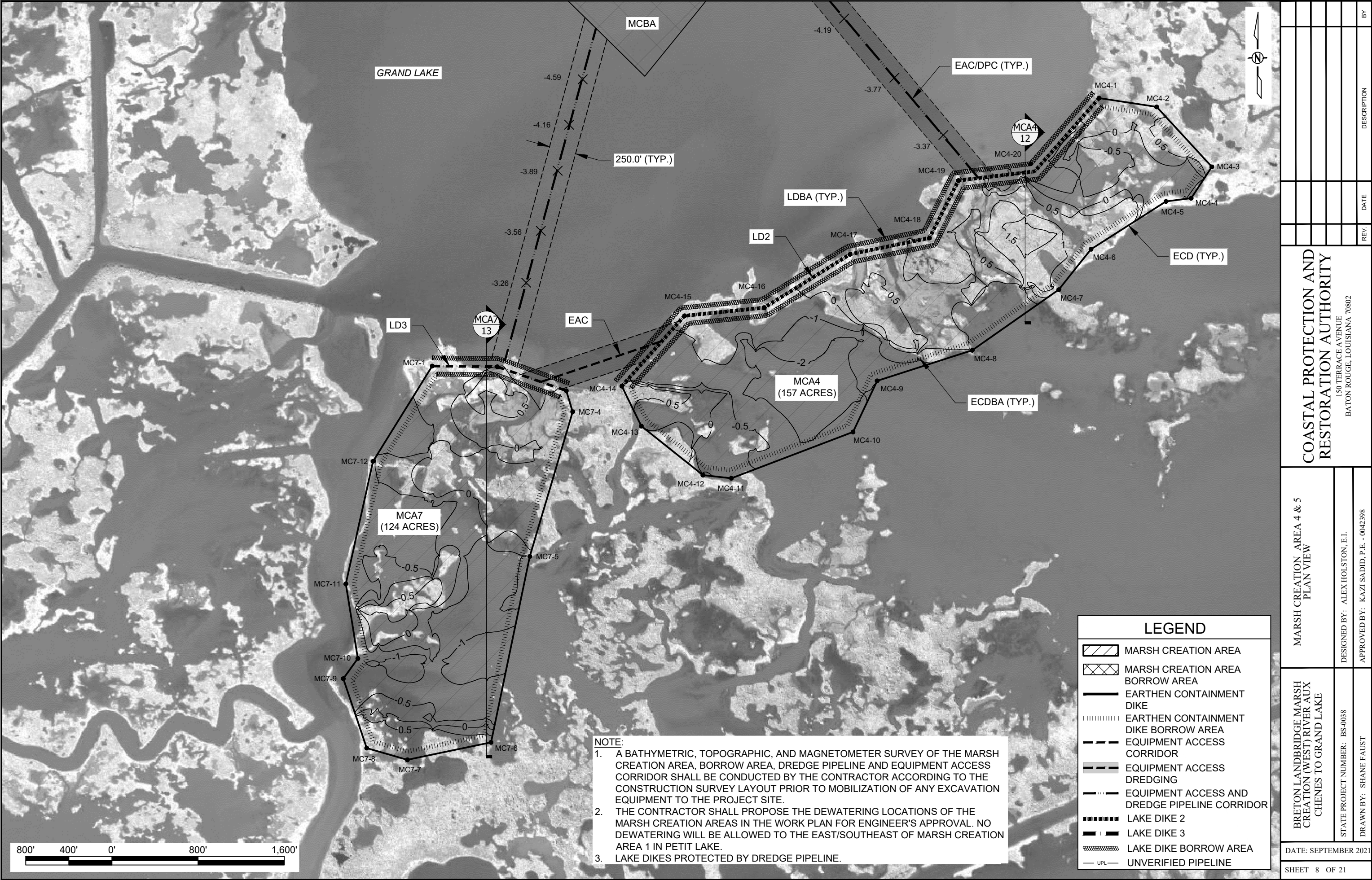
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		EQUIPMENT ACCESS CORRIDOR PLAN VIEW	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802			
STATE PROJECT NUMBER: BS-0038	DESIGNED BY: ALEX HOLSTON, E.I.					
DRAWN BY: SHANE FAUST	APPROVED BY: KAZI SADID, P.E. - 0042398					
DATE: SEPTEMBER 2021				REV.	DATE	DESCRIPTION
SHEET 6 OF 21						BY



- NOTE:
1. A BATHYMETRIC, TOPOGRAPHIC, AND MAGNETOMETER SURVEY OF THE MARSH CREATION AREA, BORROW AREA, DREDGE PIPELINE AND EQUIPMENT ACCESS CORRIDOR SHALL BE CONDUCTED BY THE CONTRACTOR ACCORDING TO THE CONSTRUCTION SURVEY LAYOUT PRIOR TO MOBILIZATION OF ANY EXCAVATION EQUIPMENT TO THE PROJECT SITE.
 2. THE CONTRACTOR SHALL PROPOSE THE DEWATERING LOCATIONS OF THE MARSH CREATION AREAS IN THE WORK PLAN FOR ENGINEER'S APPROVAL. NO DEWATERING WILL BE ALLOWED TO THE EAST/SOUTHEAST OF MARSH CREATION AREA 1 IN PETIT LAKE.
 3. LAKE DIKES PROTECTED BY DREDGE PIPELINE.

LEGEND	
	MARSH CREATION AREA
	MARSH CREATION AREA BORROW AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	EQUIPMENT ACCESS CORRIDOR
	EQUIPMENT ACCESS DREDGING
	EQUIPMENT ACCESS AND DREDGE PIPELINE CORRIDOR
	LAKE DIKE 1
	LAKE DIKE 2
	LAKE DIKE BORROW AREA
	OYSTER LEASE
	UNVERIFIED PIPELINE

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV	DATE	DESCRIPTION	BY
MARSH CREATION AREA 1, 2 & 3 PLAN VIEW		DESIGNED BY: ALEX HOLSTON, E.I. APPROVED BY: KAZI SADID, P.E. - 0042398			
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		STATE PROJECT NUMBER: BS-0038 DRAWN BY: SHANE FAUST			
		DATE: SEPTEMBER 2021			
		SHEET 7 OF 21			



MARSH CREATION AREA 1 COORDINATES		
POINT	NORTHING	EASTING
MC1-1	445,545.67	3,759,757.97
MC1-2	445,466.23	3,762,967.96
MC1-3	444,674.40	3,763,223.18
MC1-4	444,450.92	3,763,194.52
MC1-5	443,359.00	3,762,147.10
MC1-6	443,198.28	3,761,715.80
MC1-7	443,275.49	3,761,353.58
MC1-8	443,609.33	3,760,652.10
MC1-9	444,080.05	3,760,529.41
MC1-10	444,951.87	3,760,184.05
MC1-11	445,223.36	3,759,999.52
MC1-12	445,443.95	3,759,790.80

MARSH CREATION AREA 2 COORDINATES		
POINT	NORTHING	EASTING
MC2-1	445,445.95	3,759,125.68
MC2-2	445,388.45	3,759,280.48
MC2-3	443,887.22	3,759,874.30
MC2-4	442,715.64	3,759,159.36
MC2-5	443,599.69	3,756,906.14
MC2-6	443,670.23	3,756,906.71
MC2-7	443,944.93	3,757,427.73
MC2-8	444,103.26	3,758,807.14

MARSH CREATION AREA 3 COORDINATES		
POINT	NORTHING	EASTING
MC3-1	442,145.37	3,758,724.67
MC3-2	441,888.16	3,759,471.30
MC3-3	441,070.47	3,759,828.68
MC3-4	440,649.75	3,759,928.42
MC3-5	440,387.29	3,759,693.70
MC3-6	440,229.83	3,759,282.22
MC3-7	440,171.24	3,758,593.47
MC3-8	440,591.94	3,757,427.29
MC3-9	441,875.19	3,757,891.95

MARSH CREATION AREA 4 COORDINATES		
POINT	NORTHING	EASTING
MC4-1	441,448.30	3,755,661.45
MC4-2	441,366.98	3,756,196.02
MC4-3	440,810.13	3,756,708.31
MC4-4	440,518.77	3,756,516.86
MC4-5	440,489.10	3,756,282.75
MC4-6	440,045.13	3,755,586.62
MC4-7	439,669.59	3,755,287.20
MC4-8	439,106.98	3,754,484.95
MC4-9	438,823.28	3,753,601.88
MC4-10	438,348.23	3,753,378.03
MC4-11	437,918.42	3,752,248.97
MC4-12	437,947.49	3,751,984.71
MC4-13	438,402.78	3,751,413.34
MC4-14	438,773.82	3,751,232.00
MC4-15	439,427.03	3,751,814.75
MC4-16	439,502.38	3,752,554.00
MC4-17	439,998.39	3,753,351.46
MC4-18	440,149.54	3,754,087.45
MC4-19	440,682.63	3,754,356.06
MC4-20	440,767.56	3,755,063.95

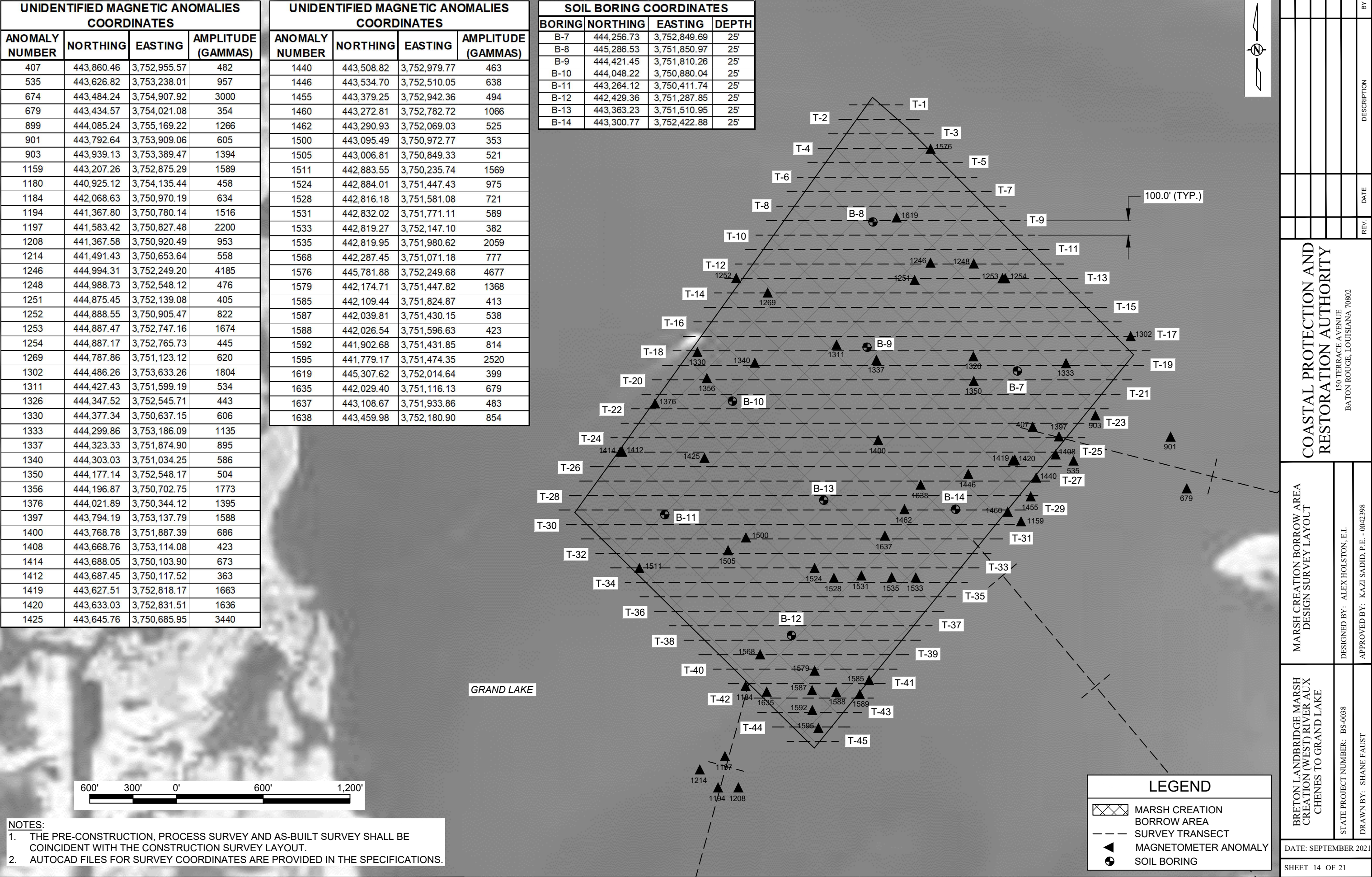
MARSH CREATION AREA 7 COORDINATES		
POINT	NORTHING	EASTING
MC7-1	438,960.52	3,749,472.64
MC7-2	438,954.12	3,750,076.85
MC7-3	438,730.89	3,750,716.99
MC7-4	438,535.97	3,750,776.47
MC7-5	437,192.80	3,750,378.16
MC7-6	435,466.49	3,750,018.71
MC7-7	435,304.90	3,749,242.28
MC7-8	435,413.18	3,748,864.67
MC7-9	436,057.74	3,748,647.21
MC7-10	436,245.33	3,748,782.13
MC7-11	436,938.37	3,748,670.89
MC7-12	438,075.56	3,748,923.31

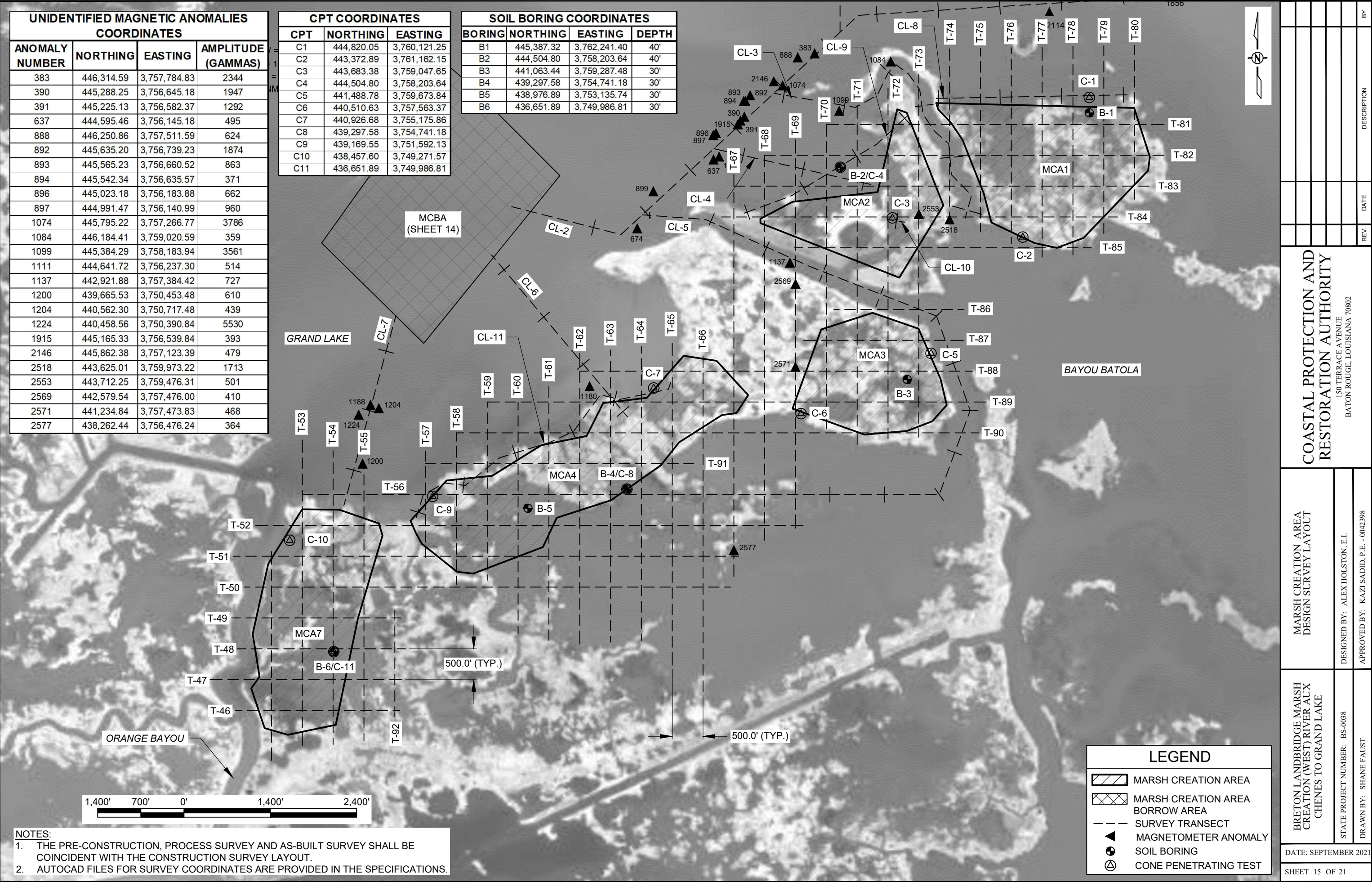
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		MARSH CREATION AREA COORDINATES	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802							
STATE PROJECT NUMBER: BS-0038										
DESIGNED BY: ALEX HOLSTON, E.I.										
APPROVED BY: KAZI SADID, P.E. - 0042398										
DRAWN BY: SHANE FAUST										
DATE: SEPTEMBER 2021			REV.	DATE	DESCRIPTION	BY				
SHEET 9 OF 21										

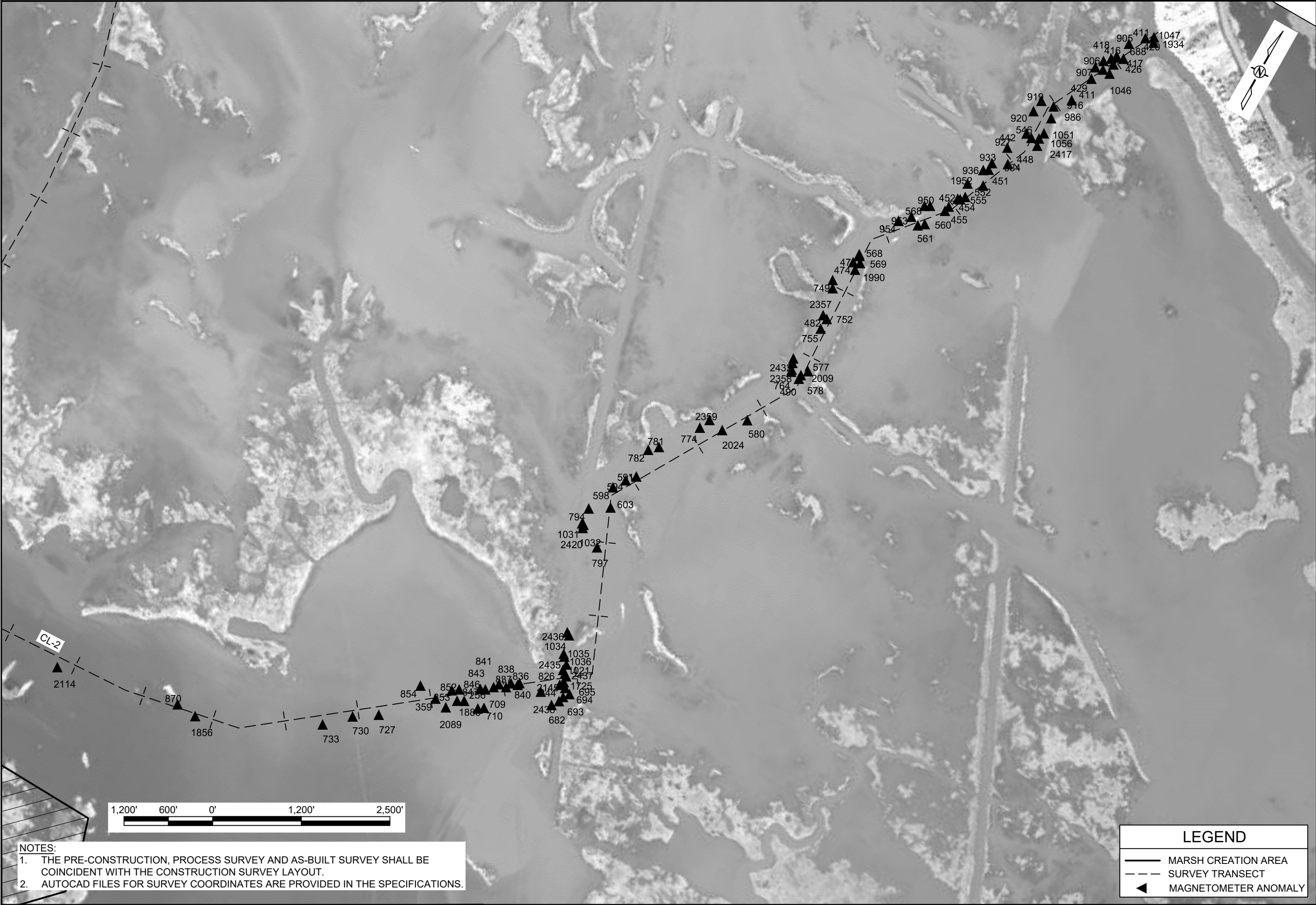
UNIDENTIFIED MAGNETIC ANOMALIES COORDINATES			
ANOMALY NUMBER	NORTHING	EASTING	AMPLITUDE (GAMMAS)
407	443,860.46	3,752,955.57	482
535	443,626.82	3,753,238.01	957
674	443,484.24	3,754,907.92	3000
679	443,434.57	3,754,021.08	354
899	444,085.24	3,755,169.22	1266
901	443,792.64	3,753,909.06	605
903	443,939.13	3,753,389.47	1394
1159	443,207.26	3,752,875.29	1589
1180	440,925.12	3,754,135.44	458
1184	442,068.63	3,750,970.19	634
1194	441,367.80	3,750,780.14	1516
1197	441,583.42	3,750,827.48	2200
1208	441,367.58	3,750,920.49	953
1214	441,491.43	3,750,653.64	558
1246	444,994.31	3,752,249.20	4185
1248	444,988.73	3,752,548.12	476
1251	444,875.45	3,752,139.08	405
1252	444,888.55	3,750,905.47	822
1253	444,887.47	3,752,747.16	1674
1254	444,887.17	3,752,765.73	445
1269	444,787.86	3,751,123.12	620
1302	444,486.26	3,753,633.26	1804
1311	444,427.43	3,751,599.19	534
1326	444,347.52	3,752,545.71	443
1330	444,377.34	3,750,637.15	606
1333	444,299.86	3,753,186.09	1135
1337	444,323.33	3,751,874.90	895
1340	444,303.03	3,751,034.25	586
1350	444,177.14	3,752,548.17	504
1356	444,196.87	3,750,702.75	1773
1376	444,021.89	3,750,344.12	1395
1397	443,794.19	3,753,137.79	1588
1400	443,768.78	3,751,887.39	686
1408	443,668.76	3,753,114.08	423
1414	443,688.05	3,750,103.90	673
1412	443,687.45	3,750,117.52	363
1419	443,627.51	3,752,818.17	1663
1420	443,633.03	3,752,831.51	1636
1425	443,645.76	3,750,685.95	3440

UNIDENTIFIED MAGNETIC ANOMALIES COORDINATES			
ANOMALY NUMBER	NORTHING	EASTING	AMPLITUDE (GAMMAS)
1440	443,508.82	3,752,979.77	463
1446	443,534.70	3,752,510.05	638
1455	443,379.25	3,752,942.36	494
1460	443,272.81	3,752,782.72	1066
1462	443,290.93	3,752,069.03	525
1500	443,095.49	3,750,972.77	353
1505	443,006.81	3,750,849.33	521
1511	442,883.55	3,750,235.74	1569
1524	442,884.01	3,751,447.43	975
1528	442,816.18	3,751,581.08	721
1531	442,832.02	3,751,771.11	589
1533	442,819.27	3,752,147.10	382
1535	442,819.95	3,751,980.62	2059
1568	442,287.45	3,751,071.18	777
1576	445,781.88	3,752,249.68	4677
1579	442,174.71	3,751,447.82	1368
1585	442,109.44	3,751,824.87	413
1587	442,039.81	3,751,430.15	538
1588	442,026.54	3,751,596.63	423
1592	441,902.68	3,751,431.85	814
1595	441,779.17	3,751,474.35	2520
1619	445,307.62	3,752,014.64	399
1635	442,029.40	3,751,116.13	679
1637	443,108.67	3,751,933.86	483
1638	443,459.98	3,752,180.90	854

SOIL BORING COORDINATES			
BORING	NORTHING	EASTING	DEPTH
B-7	444,256.73	3,752,849.69	25'
B-8	445,286.53	3,751,850.97	25'
B-9	444,421.45	3,751,810.26	25'
B-10	444,048.22	3,750,880.04	25'
B-11	443,264.12	3,750,411.74	25'
B-12	442,429.36	3,751,287.85	25'
B-13	443,363.23	3,751,510.95	25'
B-14	443,300.77	3,752,422.88	25'



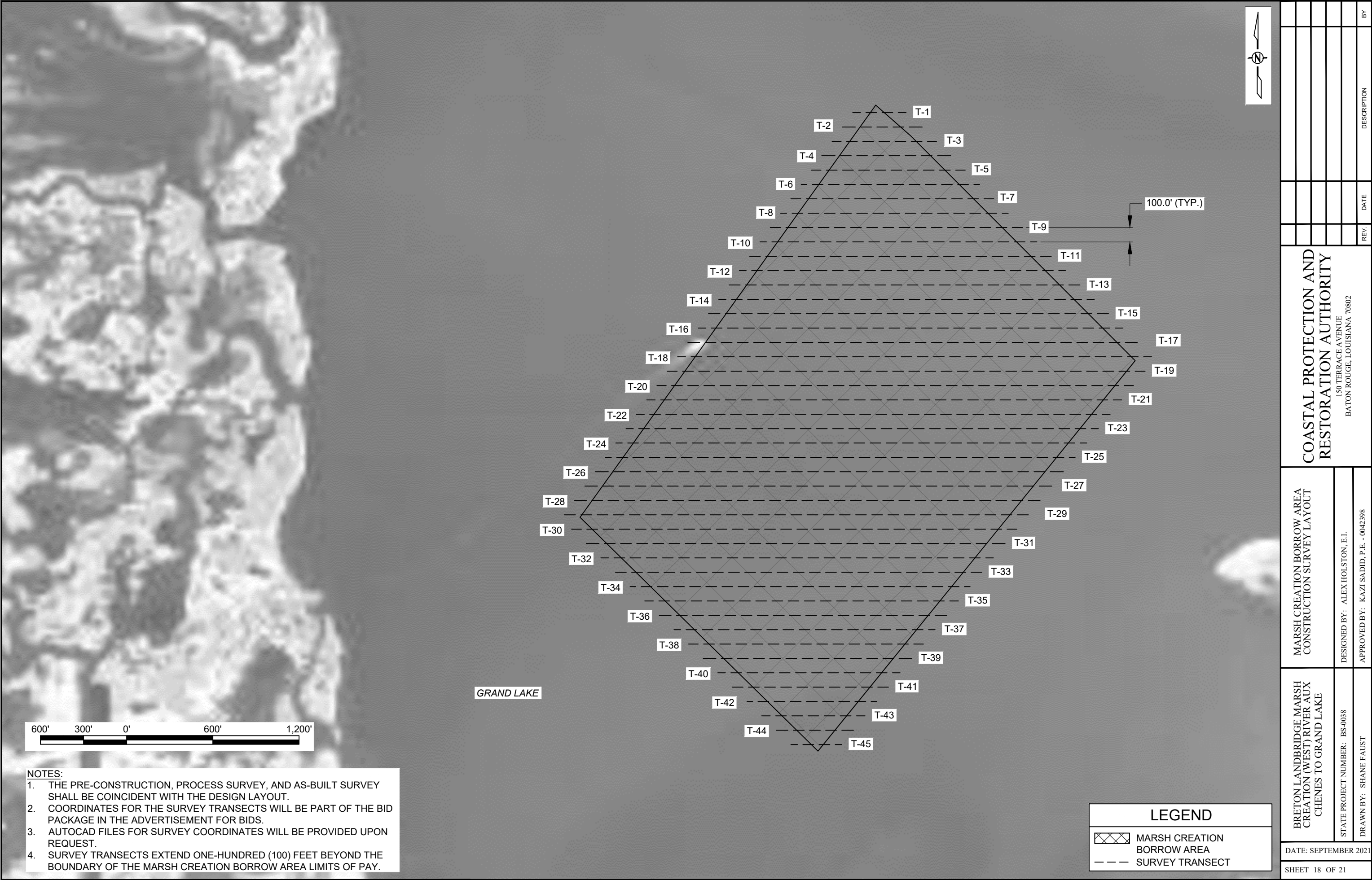




- NOTES:
1. THE PRE-CONSTRUCTION, PROCESS SURVEY AND AS-BUILT SURVEY SHALL BE COINCIDENT WITH THE CONSTRUCTION SURVEY LAYOUT.
 2. AUTOCAD FILES FOR SURVEY COORDINATES ARE PROVIDED IN THE SPECIFICATIONS.

LEGEND	
	MARSH CREATION AREA
	SURVEY TRANSECT
	MAGNETOMETER ANOMALY

BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		EQUIPMENT ACCESS CORRIDOR DESIGN SURVEY LAYOUT		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802							
STATE PROJECT NUMBER: BS-0038		DESIGNED BY: ALEX HOLSTON, E.I.									
DRAWN BY: SHANE FAUST		APPROVED BY: KAZI SADID, P.E. - 0042398									
DATE: SEPTEMBER 2021				REV.	DATE	DESCRIPTION	BY				
SHEET 16 OF 21											



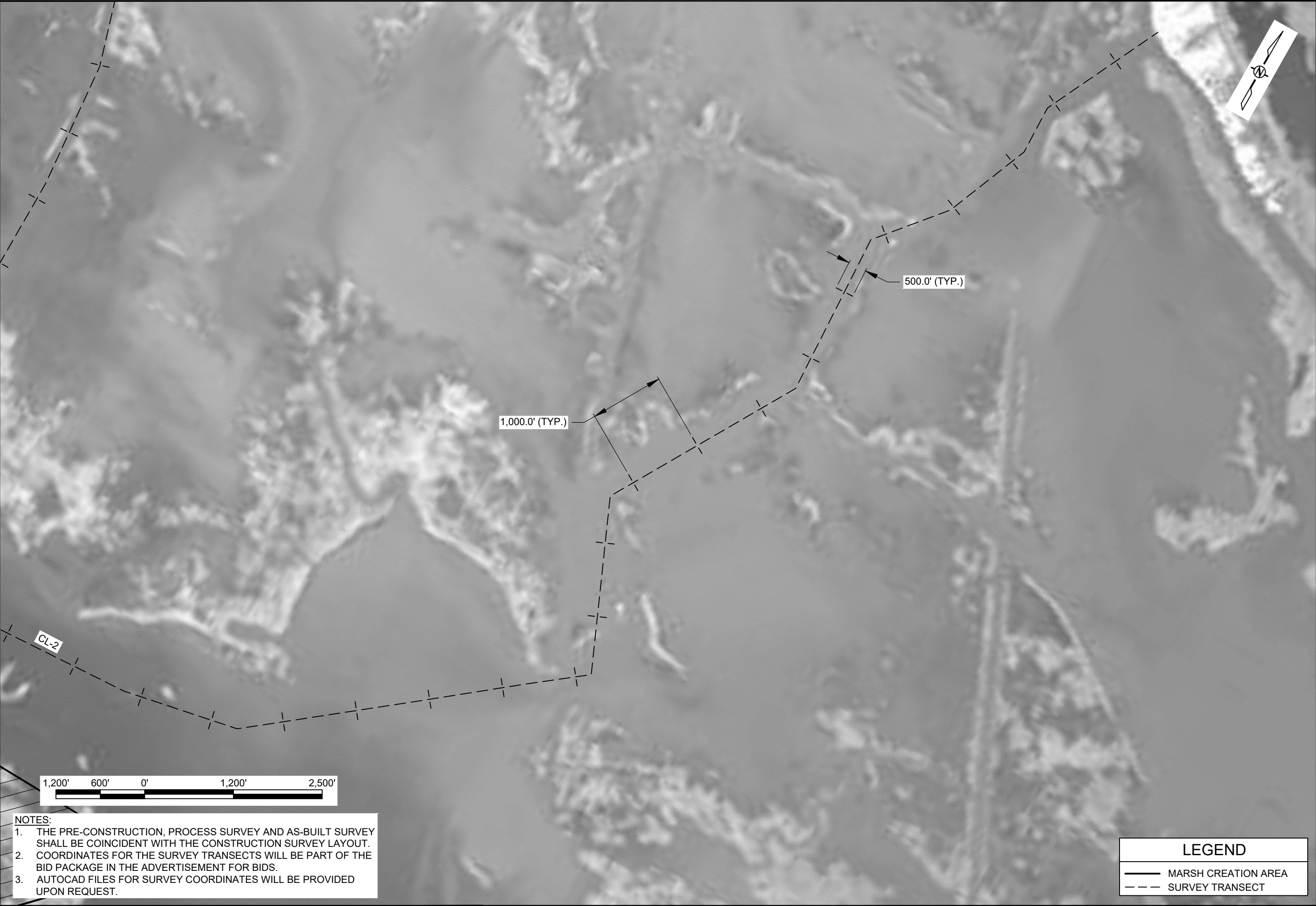
CPT COORDINATES		
CPT	NORTHING	EASTING
C1	444,820.05	3,760,121.25
C2	443,372.89	3,761,162.15
C3	443,683.38	3,759,047.65
C4	444,504.80	3,758,203.64
C5	441,488.78	3,759,673.84
C6	440,510.63	3,757,563.37
C7	440,926.68	3,755,175.86
C8	439,297.58	3,754,741.18
C9	439,169.55	3,751,592.13
C10	438,457.60	3,749,271.57
C11	436,651.89	3,749,986.81



- NOTES:
1. SEE SHEET 21 FOR SETTLEMENT PLATE DETAILS.
 2. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
 3. THE PRE-CONSTRUCTION, PROCESS SURVEY, AND AS-BUILT SURVEY SHALL BE COINCIDENT WITH THE CONSTRUCTION SURVEY LAYOUT.
 4. COORDINATES FOR THE SURVEY TRANSECTS WILL BE PART OF THE BID PACKAGE IN THE ADVERTISEMENT FOR BIDS
 5. AUTOCAD FILES FOR SURVEY COORDINATES WILL BE PROVIDED UPON REQUEST.

LEGEND	
	MARSH CREATION AREA
	MARSH CREATION AREA BORROW AREA
	SURVEY TRANSECT

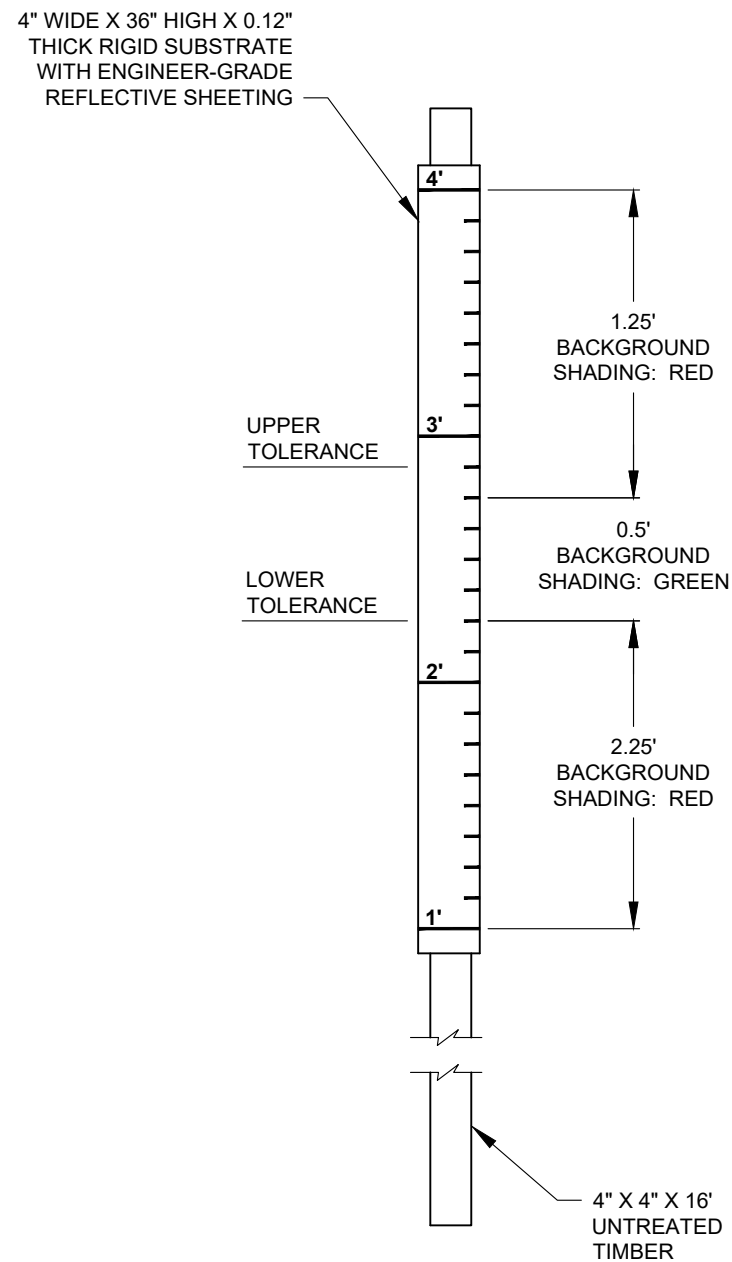
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		DATE: SEPTEMBER 2021	SHEET 19 OF 21	
MARSH CREATION AREA CONSTRUCTION SURVEY LAYOUT		DESIGNED BY: ALEX HOLSTON, E.I.	DRAWN BY: SHANE FAUST	
		APPROVED BY: KAZI SADID, P.E. - 0042398		
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV	DATE	DESCRIPTION
				BY



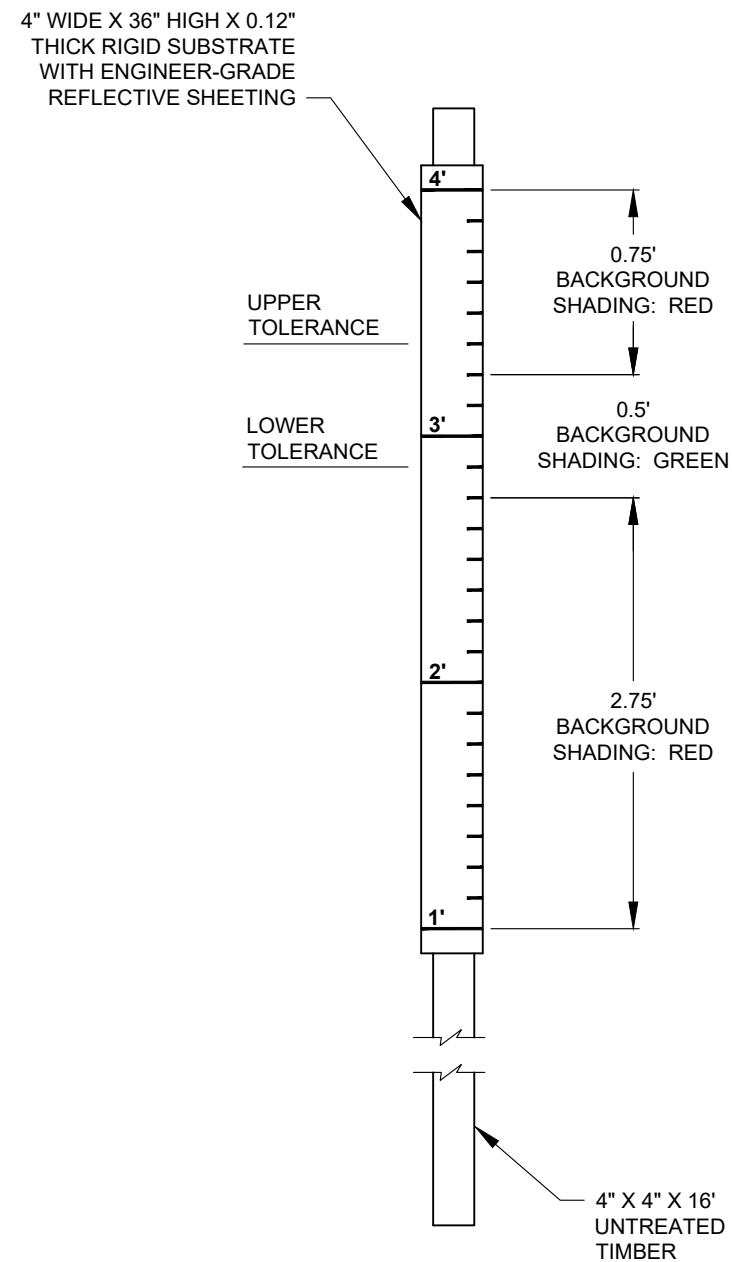
- NOTES:
1. THE PRE-CONSTRUCTION, PROCESS SURVEY AND AS-BUILT SURVEY SHALL BE COINCIDENT WITH THE CONSTRUCTION SURVEY LAYOUT.
 2. COORDINATES FOR THE SURVEY TRANSECTS WILL BE PART OF THE BID PACKAGE IN THE ADVERTISEMENT FOR BIDS.
 3. AUTOCAD FILES FOR SURVEY COORDINATES WILL BE PROVIDED UPON REQUEST.

LEGEND	
	MARSH CREATION AREA
	SURVEY TRANSECT

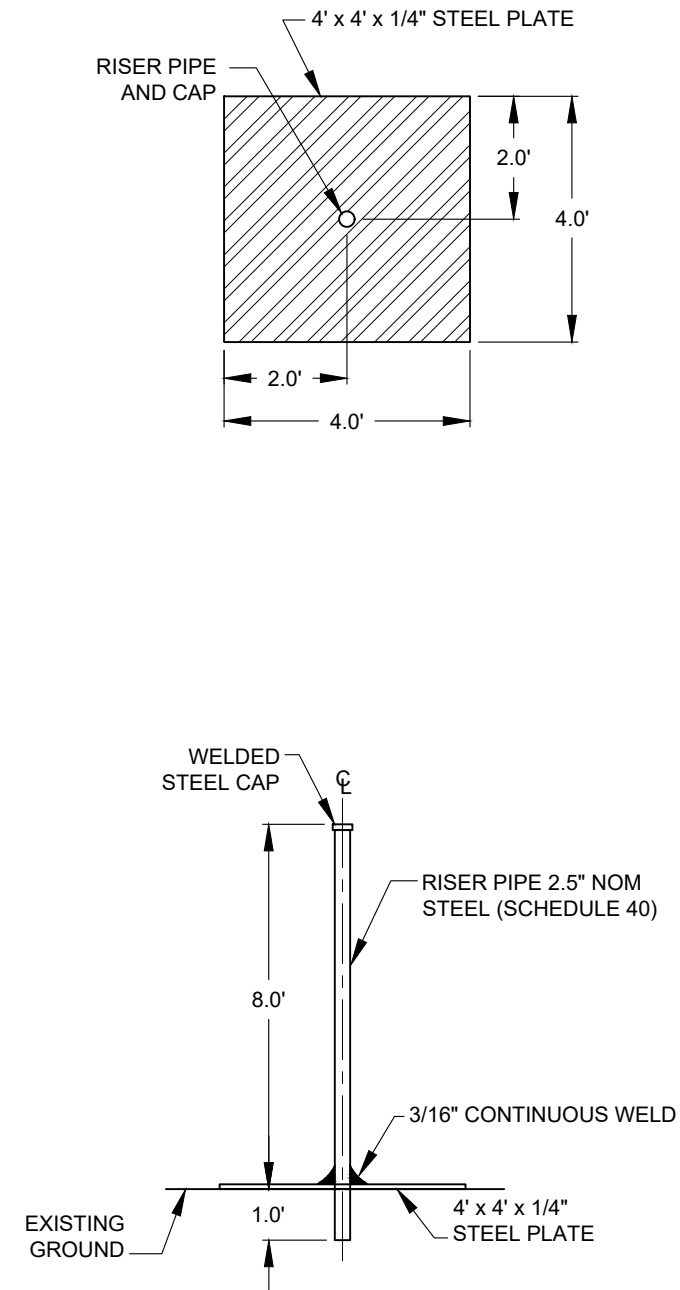
BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE		EQUIPMENT ACCESS CORRIDOR CONSTRUCTION SURVEY LAYOUT		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: BS-0038		DESIGNED BY: ALEX HOLSTON, E.I.							
DRAWN BY: SHANE FAUST		APPROVED BY: KAZI SADID, P.E. - 0042398							
DATE: SEPTEMBER 2021						REV.	DATE	DESCRIPTION	BY
SHEET 20 OF 21									



MCA 1 GRADE STAKE
NTS



MCA 2-4 & 7 GRADE STAKE
NTS



SETTLEMENT PLATE
NTS

NOTES:

- NOTES:**
1. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 2. CONTRACTOR TO DRIVE RISER PIPE BELOW GRADE TO THE DEPTH DETERMINED BY THE ENGINEER IN THE FIELD.

BRETON LANDBRIDGE MARSH CREATION (WEST) RIVER AUX CHENES TO GRAND LAKE PROJECT		GRADE STAKE AND SETTLEMENT PLATE DETAILS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: BS-0038		DESIGNED BY: ALEX HOLSTON, E.I.							
DRAWN BY: SHANE FAUST		APPROVED BY: KAZI SADID, P.E. - 0042398							
DATE: SEPTEMBER 2021				REV:	DATE	DESCRIPTION	BY		
SHEET 21 OF 21									