

GRID NORTH

LAKE PONTCHARTRAIN

CHEF MENTEUR PASS



VICINITY MAP
NOT TO SCALE



DAVID LESLIE CORMIER
PROFESSIONAL LAND SURVEYOR
LOUISIANA REGISTRATION NO. 4715

NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.
MONUMENT E 3146 WAS USED TO COMPLETE THIS SURVEY.

LEGEND:
— GEOPHYSICAL TRANSECT LINE
— BATHYMETRIC TRANSECT LINE
--- MAGNETOMETER TRANSECT LINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE
IN FEET 0 1,000'

Job No.: 04.10781040 Date: 12/23/19

Drwn: JDD

Chart: Of:

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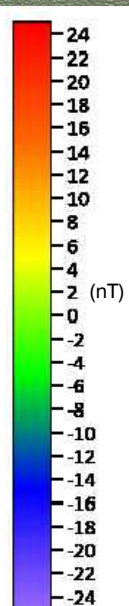
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Proj. Mgr.: PHL
Reviewed: 1/27/20
Printed: 2/16/20

GRID NORTH

LAKE PONTCHARTRAIN

CHEF MENTEUR PASS



TOTAL MAGNETIC FIELD



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
MAGNETOMETER SURVEY
ORLEANS PARISH, LOUISIANA**

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE 0 1,000'
IN FEET

Job No.: 04.10781040

Date: 12/23/19

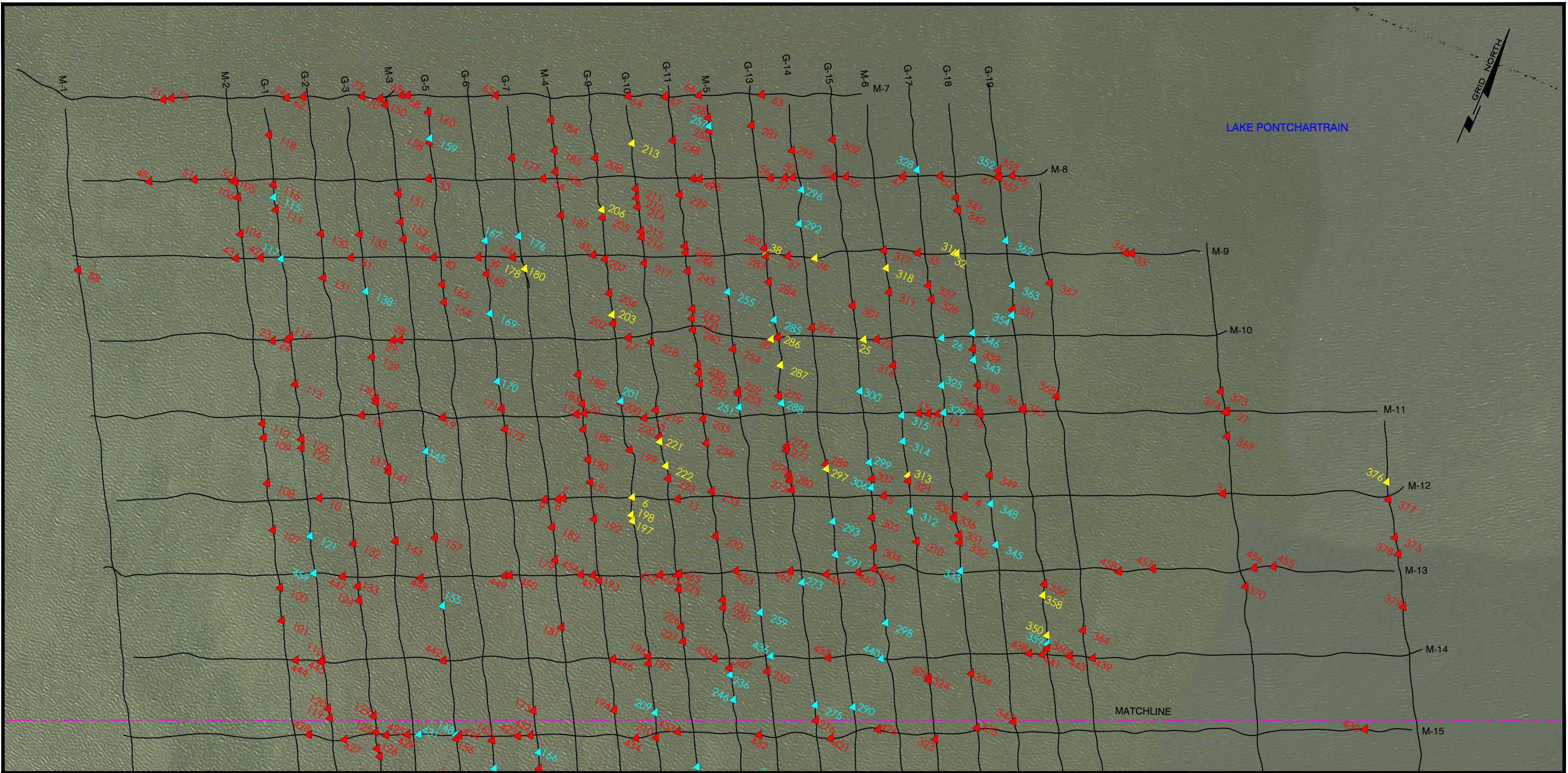
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Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



- LEGEND:
- 442▲ MAGNETIC ANOMALY-DENOTES CRAB TRAP
(SEE PAGES 5 & 6 OF 19 FOR CHART)
 - 442▲ UNIDENTIFIED MAGNETIC ANOMALY
(SEE PAGES 5 & 6 OF 19 FOR CHART)
 - 442▲ MAGNETIC ANOMALY-CORRELATES TO OBSERVED SUB-BOTTOM PROFILER FEATURE
(SEE PAGES 5 & 6 OF 19 FOR CHART)
 - MAGNETOMETER TRACKLINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
MAGNETOMETER SURVEY
ORLEANS PARISH, LOUISIANA**

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE
IN FEET 0 600'

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

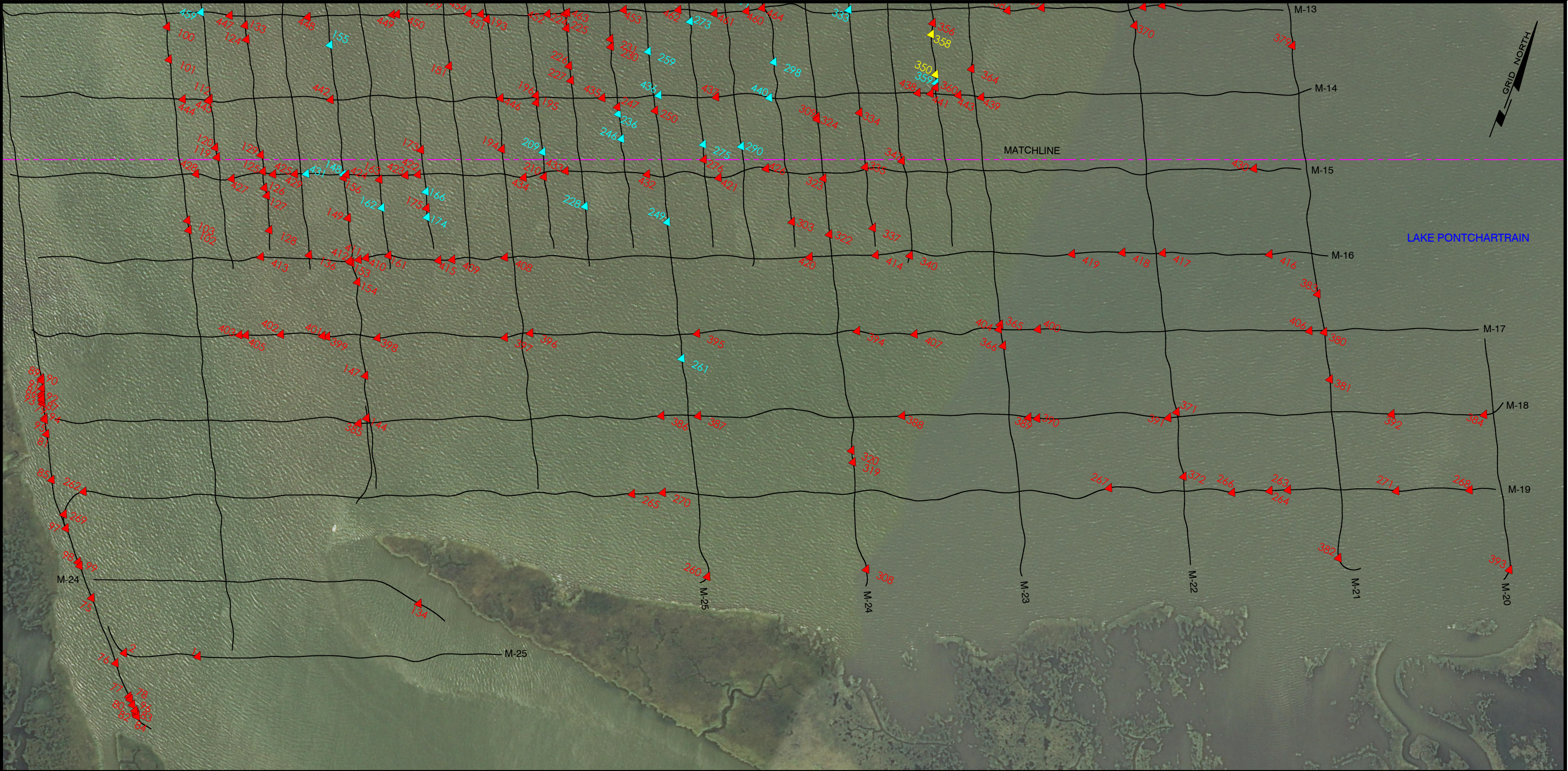
Job No.: 04.10781040 Date: 12/23/19

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3 19



- LEGEND:
- 442 ▲ MAGNETIC ANOMALY-DENOTES CRAB TRAP (SEE PAGES 5 & 6 OF 19 FOR CHART)
 - 442 ▲ UNIDENTIFIED MAGNETIC ANOMALY (SEE PAGES 5 & 6 OF 19 FOR CHART)
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COASTAL PROTECTION AND RESTORATION AUTHORITY

BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
MAGNETOMETER SURVEY
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.
226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE
IN FEET
0 600'

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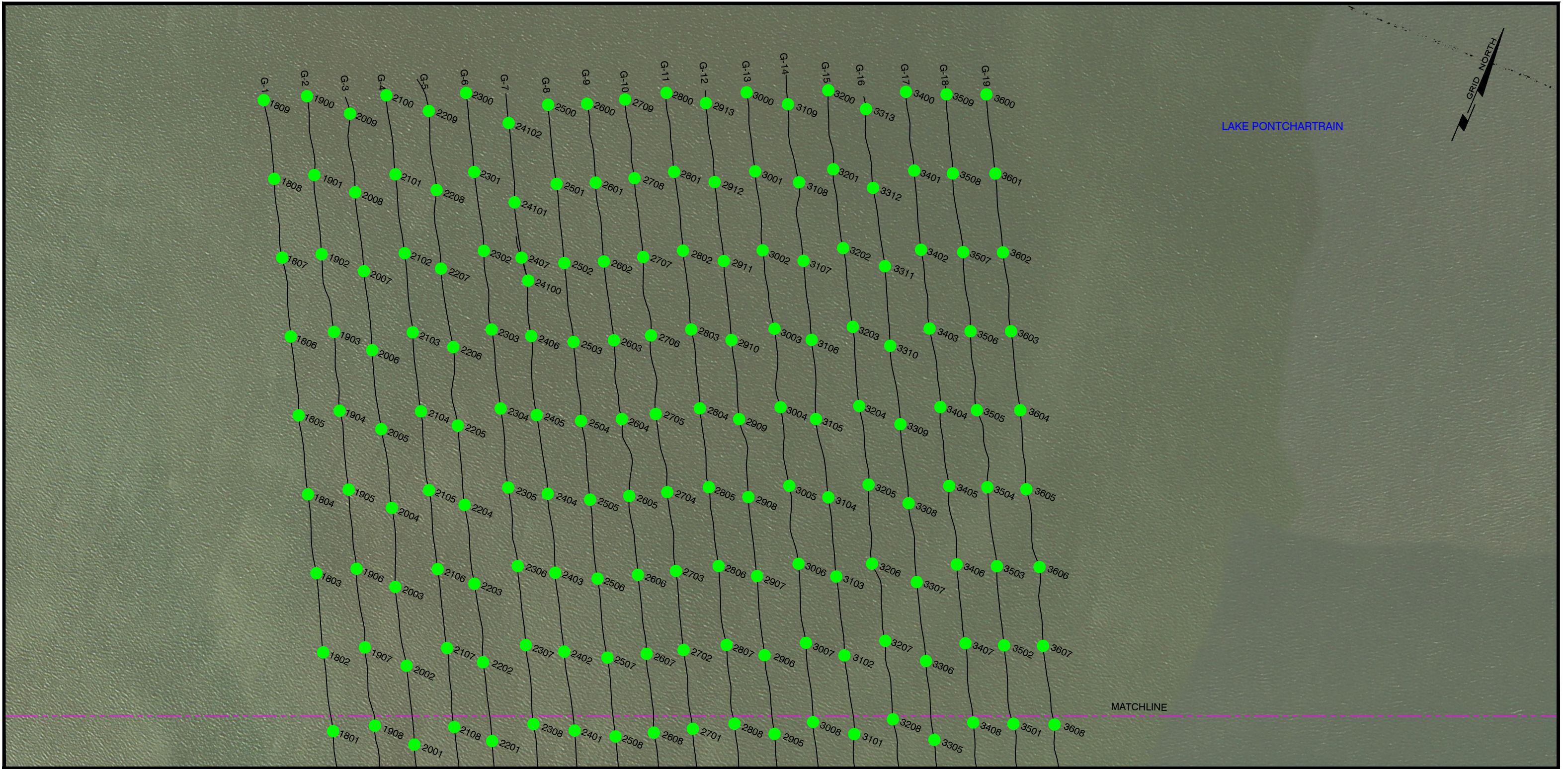
MAGNETIC ANOMALY (DENOTES CRAB TRAP)						UNIDENTIFIED MAGNETIC ANOMALIES										MAGNETIC ANOMALY (CORRELATES TO OBSERVED SUB-BOTTOM PROFILER FEATURE)							
ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE	ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE	ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE	ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE
1	3,761,118.51'	583,214.20'	72	97	DIPOLE	74	3,758,168.63'	589,561.54'	294	26	MONOPOLE	147	3,761,371.12'	585,239.73'	147	51	MONOPOLE	220	3,761,154.41'	588,557.93'	2015	21	MONOPOLE
2	3,760,687.60'	583,048.74'	50	7	MONOPOLE	75	3,760,363.51'	583,281.32'	656	7	DIPOLE	148	3,760,740.03'	586,336.71'	48	42	MONOPOLE	221	3,761,169.82'	588,530.19'	453	28	DIPOLE
3	3,764,529.93'	589,650.13'	220	37	DIPOLE	76	3,760,664.38'	582,968.76'	1250	15	MONOPOLE	149	3,760,876.46'	586,098.01'	152	49	DIPOLE	222	3,761,265.43'	588,407.04'	467	20	MONOPOLE
4	3,763,058.77'	588,982.66'	36	55	MONOPOLE	77	3,760,824.27'	582,811.12'	329	7	DIPOLE	150	3,758,750.37'	589,770.19'	108	11	MONOPOLE	223	3,761,310.73'	588,341.24'	3972	17	MONOPOLE
5	3,762,589.97'	588,783.89'	87	94	MONOPOLE	78	3,760,837.78'	582,798.49'	1102	4	MONOPOLE	151	3,759,047.20'	589,294.05'	448	51	DIPOLE	224	3,761,602.43'	587,810.44'	325	23	DIPOLE
6	3,761,152.58'	588,142.58'	299	43	DIPOLE	79	3,759,593.12'	584,273.69'	45	3	MONOPOLE	152	3,759,132.23'	589,135.56'	267	26	MONOPOLE	225	3,761,649.53'	587,732.10'	68	38	MONOPOLE
7	3,760,760.72'	587,961.99'	693	33	DIPOLE	80	3,760,865.05'	582,772.31'	5707	18	MONOPOLE	153	3,761,008.11'	585,850.63'	413	84	DIPOLE	226	3,761,758.80'	587,523.26'	1194	43	DIPOLE
8	3,760,732.00'	587,946.04'	60	44	MONOPOLE	81	3,759,693.13'	584,104.89'	220	6	MONOPOLE	154	3,761,091.18'	585,755.68'	23	53	DIPOLE	227	3,761,805.67'	587,444.26'	253	27	DIPOLE
9	3,760,655.96'	587,907.57'	132	26	MONOPOLE	82	3,760,905.58'	582,733.55'	207	3	MONOPOLE	155	3,760,337.36'	587,042.24'	58	24	MONOPOLE	228	3,762,202.21'	586,760.43'	352	30	DIPOLE
10	3,759,360.23'	587,348.68'	34	59	MONOPOLE	83	3,760,913.89'	582,724.63'	309	6	MONOPOLE	156	3,760,751.34'	586,317.25'	80	31	MONOPOLE	229	3,760,662.81'	589,994.89'	568	15	DIPOLE
11	3,761,417.41'	588,245.18'	29	25	DIPOLE	84	3,760,919.42'	582,718.55'	80	2	MONOPOLE	157	3,760,122.34'	587,415.23'	157	44	DIPOLE	230	3,761,950.35'	587,738.37'	71	3	DIPOLE
12	3,762,938.17'	589,493.39'	46	30	MONOPOLE	85	3,759,838.88'	583,855.93'	406	7	MONOPOLE	158	3,759,099.12'	589,666.06'	32	32	DIPOLE	231	3,761,928.08'	587,781.11'	286	4	DIPOLE
13	3,762,694.30'	589,389.80'	78	35	MONOPOLE	86	3,759,565.97'	584,324.13'	34	5	MONOPOLE	159	3,759,089.42'	589,688.35'	32	15	DIPOLE	232	3,761,027.54'	588,130.09'	130	13	MONOPOLE
14	3,762,640.82'	589,366.86'	244	24	DIPOLE	87	3,759,583.76'	584,287.97'	297	5	DIPOLE	160	3,759,014.14'	589,834.74'	59	37	DIPOLE	233	3,761,592.95'	588,376.82'	39	13	DIPOLE
15	3,762,583.93'	589,345.51'	1751	56	MONOPOLE	88	3,757,405.17'	588,049.67'	42	134	DIPOLE	161	3,761,202.31'	585,985.78'	36	38	DIPOLE	234	3,761,440.06'	588,639.01'	51	13	MONOPOLE
16	3,761,021.03'	588,625.81'	42	22	MONOPOLE	89	3,759,524.23'	584,409.99'	2996	6	MONOPOLE	162	3,761,043.48'	586,241.17'	211	28	DIPOLE	235	3,761,360.83'	588,770.53'	42	32	MONOPOLE
17	3,760,623.73'	588,476.49'	53	39	MONOPOLE	90	3,759,531.08'	584,399.59'	2291	7	DIPOLE	163	3,760,959.90'	586,397.04'	131	44	DIPOLE	236	3,762,159.78'	587,372.71'	497	11	DIPOLE
18	3,759,395.61'	587,932.14'	224	38	MONOPOLE	91	3,759,553.35'	584,355.82'	53	6	MONOPOLE	164	3,759,581.94'	588,786.74'	704	33	DIPOLE	237	3,761,256.22'	588,959.92'	24	44	DIPOLE
19	3,759,866.52'	588,122.92'	557	54	DIPOLE	92	3,759,571.07'	584,312.30'	44	2	MONOPOLE	165	3,759,526.55'	588,883.45'	36	62	DIPOLE	238	3,761,220.64'	589,021.67'	59	19	MONOPOLE
20	3,760,665.71'	588,502.62'	38	25	DIPOLE	93	3,759,579.00'	584,296.24'	44	5	MONOPOLE	166	3,761,255.70'	586,445.33'	274	36	DIPOLE	239	3,761,196.40'	589,063.60'	152	8	MONOPOLE
21	3,764,346.44'	590,132.00'	69	25	DIPOLE	94	3,759,642.83'	584,192.64'	72	6	MONOPOLE	167	3,759,662.67'	589,242.43'	22	30	DIPOLE	240	3,761,078.99'	589,254.73'	376	32	DIPOLE
22	3,762,156.88'	589,661.06'	21	22	MONOPOLE	95	3,759,648.19'	584,182.59'	27	4	MONOPOLE	168	3,759,754.80'	589,056.05'	119	93	DIPOLE	241	3,761,043.15'	589,316.38'	90	12	DIPOLE
23	3,758,698.30'	588,132.82'	28	47	MONOPOLE	96	3,760,893.18'	582,745.94'	3268	10	DIPOLE	169	3,759,873.52'	588,836.48'	1380	110	MONOPOLE	242	3,761,022.88'	589,372.04'	874	15	MONOPOLE
24	3,758,780.07'	588,177.53'	97	27	MONOPOLE	97	3,760,041.67'	583,615.48'	24	4	MONOPOLE	170	3,760,087.69'	588,466.79'	160	39	DIPOLE	243	3,760,899.76'	589,577.78'	30	16	MONOPOLE
25	3,762,082.23'	589,628.70'	219	54	MONOPOLE	98	3,760,195.27'	583,452.78'	137	5	MONOPOLE	171	3,760,180.97'	588,320.66'	22	16	DIPOLE	244	3,760,842.22'	589,678.89'	131	35	DIPOLE
26	3,762,525.58'	589,833.45'	259	39	MONOPOLE	99	3,760,214.63'	583,435.04'	278	4	DIPOLE	172	3,760,251.19'	588,211.00'	25	49	MONOPOLE	245	3,760,819.96'	589,714.80'	8291	19	DIPOLE
27	3,760,728.17'	589,048.11'	102	41	MONOPOLE	100	3,759,361.24'	586,737.23'	20	46	DIPOLE	173	3,761,123.12'	586,670.66'	103	31	MONOPOLE	246	3,762,241.53'	587,236.92'	21	27	MONOPOLE
28	3,759,427.42'	588,458.53'	84	90	MONOPOLE	101	3,759,454.23'	586,554.56'	26	57	DIPOLE	174	3,761,325.94'	586,301.39'	28	47	DIPOLE	247	3,762,138.73'	587,409.65'	27	5	MONOPOLE
29	3,759,385.80'	588,439.99'	187	33	MONOPOLE	102	3,759,995.22'	585,638.61'	570	42	DIPOLE	175	3,761,300.91'	586,351.76'	77	32	DIPOLE	248	3,760,487.25'	590,289.49'	77	21	MONOPOLE
30	3,761,551.48'	589,398.23'	2421	48	DIPOLE	103	3,759,963.71'	585,680.78'	23	30	MONOPOLE	176	3,759,844.37'	589,352.61'	197	30	MONOPOLE	249	3,762,712.71'	586,876.71'	25	146	DIPOLE
31	3,762,383.12'	590,348.89'	29	31	DIPOLE	104	3,758,244.97'	588,665.36'	21	33	DIPOLE	177	3,759,609.73'	589,782.50'	37	107	MONOPOLE	250	3,762,363.62'	587,484.32'	32	52	DIPOLE
32	3,762,400.16'	590,356.55'	23	14	MONOPOLE	105	3,758,083.37'	588,948.60'	1787	25	DIPOLE	178	3,759,956.75'	589,179.46'	3618	19	DIPOLE	251	3,761,537.51'	588,927.12'	5521	23	MONOPOLE
33	3,763,402.71'	590,797.90'	441	36	MONOPOLE	106	3,758,138.46'	588,868.64'	6162	19	DIPOLE	179	3,760,867.03'	587,588.59'	25	51	DIPOLE	252	3,762,492.09'	589,017.44'	2074	11	DIPOLE
34	3,763,367.64'	590,783.96'	211	60	MONOPOLE	107	3,759,174.94'	587,050.83'	91	36	MONOPOLE	180	3,759,961.66'	589,181.15'	285	35	DIPOLE	253	3,761,498.78'	589,003.24'	74	19	DIPOLE
35	3,762,174.10'	590,259.83'	1124	61	DIPOLE	108	3,759,024.90'	587,303.85'	30	42	MONOPOLE	181	3,761,073.51'	587,219.85'	141	36	DIPOLE	254	3,761,357.88'	589,245.30'	21	22	MONOPOLE
36	3,761,597.32'	589,970.92'	77	84	MONOPOLE	109	3,758,889.08'	587,555.79'	28	46	MONOPOLE	182	3,760,767.90'	587,769.89'	68	58	DIPOLE	255	3,761,181.50'	589,559.05'	69	48	DIPOLE
37	3,761,436.35'	589,915.82'	63	18	MONOPOLE	110	3,758,845.49'	587,633.61'	68	68	DIPOLE	183	3,760,629.69'	588,551.24'	706	31	DIPOLE	256	3,760,672.68'	590,437.21'	22	13	DIPOLE
38	3,761,308.71'	589,873.71'	255	61	MONOPOLE	111	3,758,385.31'	588,893.52'	63	26	MONOPOLE	184	3,759,737.61'	590,099.10'	5548	39	DIPOLE	257	3,760,658.48'	590,461.19'	30	14	DIPOLE
39	3,759,666.80'	589,129.81'	1074	46	MONOPOLE	112	3,759,786.04'	586,432.09'	117	63	DIPOLE	185	3,759,834.47'	589,932.12'	91	49	DIPOLE	258	3,760,632.34'	590,507.09'	59	14	MONOPOLE
40	3,759,409.69'	589,016.49'	215	31	DIPOLE	113	3,758,934.68'	587,941.74'	23	15	MONOPOLE	186	3,759,892.53'	589,814.59'	46	43	DIPOLE	259	3,762,175.14'	587,805.27'	25	10	DIPOLE
41	3,758,936.20'	588,806.61'	245	26	MONOPOLE	114	3,758,934.12'	588,200.44'	26	53	MONOPOLE	187	3,760,834.06'	589,578.38'	35	38	MONOPOLE	260	3,760,832.64'	584,949.27'	350	6	DIPOLE
42	3,758,419.76'	588,579.13'	64	24	DIPOLE	115	3,758,341.96'	588,958.28'	407	39	DIPOLE	188	3,760,533.04'	588,708.86'	122	46	DIPOLE	261	3,763,138.59'	586,132.56'	4028	55	DIPOLE
43	3,758,279.10'	588,513.34'	427	35	DIPOLE	116	3,758,309.16'	589,029.55'	55	32	MONOPOLE	189	3,760,700.86'	588,408.89'	395	33	MONOPOLE	262	3,760,050.88'	583,868.75'	281	20	DIPOLE
44	3,759,863.33'	589,216.90'	28	11	MONOPOLE	117	3,758,539.20'	588,624.14'	28	23	MONOPOLE	190	3,760,804.30'	588,248.16'	401	45	DIPOLE	263	3,766,937.45'	586,904.69'	117	62	MONOPOLE
45	3,760,318.51'	589,431.87'	53	30	MONOPOLE	118	3,758,159.00'	589,304.37'	74	28	MONOPOLE	191	3,760,873.35'	588,122.57'	40	20	DIPOLE	264	3,766,834.33'	586,853.33'	73	48	DIPOLE
46	3,762,520.88'	590,940.38'	31	39	DIPOLE	119	3,759,974.31'	586,117.09'	82	41	MONOPOLE	192	3,760,986.68'	587,922.30'	377	53	DIPOLE	265	3,763,195.24'	585,233.20'	27	56	DIPOLE
47	3,761,896.27'	590,663.20'	58	49	MONOPOLE	120	3,759,940.10'	586,167.10'	35	39	MONOPOLE	193	3,761,171.65'	587,583.53'	2677	19	DIPOLE	266	3,766,624.22'	586,749.13'	89	39	DIPOLE
48	3,757,588.97'	5																					

MAGNETIC ANOMALY (DENOTES CRAB TRAP)

UNIDENTIFIED MAGNETIC ANOMALIES

MAGNETIC ANOMALY (CORRELATES TO OBSERVED SUB-BOTTOM PROFILER FEATURE)

ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE	ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE	ANOMALY NUMBER	X COORDINATE	Y COORDINATE	AMPLITUDE (GAMMAS)	DURATION (FEET)	SIGNATURE
273	3,762,339.79'	588,081.60'	24	15	MONOPOLE	346	3,762,689.40'	589,940.93'	32	15	DIPOLE	419	3,765,109.54'	587,711.61'	34	43	DIPOLE
274	3,761,908.25'	588,824.83'	31	8	MONOPOLE	347	3,763,901.23'	587,815.98'	32	15	MONOPOLE	420	3,763,615.30'	587,035.67'	90	79	MONOPOLE
275	3,762,723.44'	587,411.65'	28	6	DIPOLE	348	3,763,223.28'	589,006.14'	30	45	DIPOLE	421	3,762,896.68'	587,259.14'	314	67	DIPOLE
276	3,762,765.39'	587,326.17'	398	13	MONOPOLE	349	3,763,145.57'	589,168.82'	33	14	MONOPOLE	422	3,761,167.36'	586,522.11'	187	38	MONOPOLE
277	3,761,915.96'	588,799.99'	51	32	DIPOLE	350	3,763,876.44'	588,394.63'	57	9	MONOPOLE	423	3,761,098.03'	586,487.18'	24	38	MONOPOLE
278	3,761,994.88'	588,662.12'	1152	10	DIPOLE	351	3,762,859.08'	590,175.94'	408	16	MONOPOLE	424	3,760,759.55'	586,343.15'	116	48	MONOPOLE
279	3,761,736.62'	589,092.72'	59	37	MONOPOLE	352	3,762,422.57'	590,943.16'	337	20	MONOPOLE	425	3,760,338.73'	586,160.73'	102	55	DIPOLE
280	3,762,012.50'	588,635.49'	2168	21	MONOPOLE	353	3,762,425.96'	590,937.40'	239	10	MONOPOLE	426	3,763,144.90'	587,431.35'	42	33	DIPOLE
281	3,760,900.37'	590,572.59'	38	12	DIPOLE	354	3,762,870.24'	590,139.66'	93	8	DIPOLE	427	3,760,112.79'	586,030.19'	86	66	DIPOLE
282	3,761,281.74'	589,902.14'	125	20	MONOPOLE	355	3,763,175.26'	589,625.11'	1290	6	MONOPOLE	428	3,759,897.33'	585,968.56'	38	60	MONOPOLE
283	3,761,312.03'	589,860.03'	163	41	DIPOLE	356	3,763,732.31'	588,681.98'	32	67	MONOPOLE	429	3,760,461.92'	586,216.66'	20	28	MONOPOLE
284	3,761,392.45'	589,718.97'	38	16	MONOPOLE	357	3,762,449.09'	590,900.07'	52	30	DIPOLE	430	3,765,935.77'	588,656.70'	138	55	MONOPOLE
285	3,761,519.45'	589,516.58'	24	9	DIPOLE	358	3,763,751.31'	588,613.68'	119	18	MONOPOLE	431	3,760,526.49'	586,246.87'	152	52	MONOPOLE
286	3,761,583.26'	589,425.01'	98	9	DIPOLE	359	3,763,899.78'	588,347.37'	88	21	DIPOLE	432	3,762,478.02'	587,099.59'	67	75	DIPOLE
287	3,761,669.56'	589,271.78'	1400	22	MONOPOLE	360	3,763,910.10'	588,320.51'	121	12	MONOPOLE	433	3,762,003.67'	586,913.90'	94	64	DIPOLE
288	3,761,770.94'	589,057.79'	2395	34	DIPOLE	361	3,763,168.68'	589,636.15'	114	9	MONOPOLE	434	3,761,780.22'	586,770.87'	155	48	DIPOLE
289	3,762,176.90'	588,819.24'	204	28	DIPOLE	362	3,762,646.53'	590,552.43'	3706	9	MONOPOLE	435	3,760,030.08'	587,423.76'	47	31	DIPOLE
290	3,762,946.04'	587,496.25'	5012	22	DIPOLE	363	3,762,797.79'	590,312.41'	2537	10	DIPOLE	436	3,762,345.85'	587,580.88'	176	58	MONOPOLE
291	3,762,460.61'	588,325.62'	193	27	DIPOLE	364	3,764,068.59'	588,516.58'	101	47	MONOPOLE	437	3,762,679.22'	587,715.05'	46	52	MONOPOLE
292	3,761,420.77'	590,129.45'	63	38	MONOPOLE	365	3,764,874.60'	587,127.15'	119	70	MONOPOLE	438	3,763,821.49'	588,245.68'	22	25	MONOPOLE
293	3,762,362.63'	588,508.58'	26	14	DIPOLE	366	3,764,944.68'	587,013.13'	25	84	MONOPOLE	439	3,764,196.21'	588,379.41'	21	28	MONOPOLE
294	3,761,756.15'	589,565.96'	1614	33	DIPOLE	367	3,763,005.98'	590,421.77'	125	48	MONOPOLE	440	3,762,985.10'	587,844.78'	79	86	MONOPOLE
295	3,761,196.13'	590,530.54'	27	11	DIPOLE	368	3,763,329.59'	589,787.83'	28	33	MONOPOLE	441	3,763,897.27'	588,273.78'	29	30	MONOPOLE
296	3,761,348.92'	590,329.86'	42	29	MONOPOLE	369	3,764,407.10'	589,988.14'	108	75	DIPOLE	442	3,760,480.38'	586,730.79'	2571	22	DIPOLE
297	3,762,193.63'	588,794.09'	64	40	DIPOLE	370	3,764,892.34'	589,174.97'	70	73	DIPOLE	443	3,764,060.44'	588,334.36'	356	43	DIPOLE
298	3,762,921.02'	588,060.39'	112	42	DIPOLE	371	3,766,104.07'	587,070.31'	30	45	DIPOLE	444	3,759,633.57'	586,362.59'	29	28	MONOPOLE
299	3,762,422.84'	588,938.78'	177	24	MONOPOLE	372	3,766,306.20'	586,718.36'	22	43	DIPOLE	445	3,759,782.58'	586,417.93'	30	44	MONOPOLE
300	3,762,190.29'	589,323.41'	258	10	DIPOLE	373	3,764,258.39'	590,230.09'	32	102	DIPOLE	446	3,761,448.78'	587,166.65'	88	77	MONOPOLE
301	3,761,932.31'	589,795.64'	4654	15	DIPOLE	374	3,764,334.17'	590,123.03'	16	37	DIPOLE	447	3,759,690.99'	586,958.89'	53	46	MONOPOLE
302	3,761,400.28'	590,696.17'	435	33	DIPOLE	375	3,765,623.75'	589,831.34'	3591	92	DIPOLE	448	3,760,141.59'	587,146.72'	112	68	MONOPOLE
303	3,763,426.23'	587,191.81'	55	19	MONOPOLE	376	3,765,438.62'	590,128.31'	22	30	DIPOLE	449	3,760,617.89'	587,371.50'	729	99	MONOPOLE
304	3,762,661.42'	588,462.46'	110	19	DIPOLE	377	3,765,490.94'	590,033.55'	151	48	DIPOLE	450	3,760,645.98'	587,385.94'	68	60	MONOPOLE
305	3,762,577.35'	588,630.33'	104	30	MONOPOLE	378	3,765,686.15'	589,744.22'	118	47	MONOPOLE	451	3,761,124.59'	587,598.27'	652	58	MONOPOLE
306	3,762,497.33'	588,799.58'	5474	35	DIPOLE	379	3,765,846.53'	589,455.79'	105	46	DIPOLE	452	3,761,506.09'	587,766.70'	27	46	MONOPOLE
307	3,762,479.64'	588,852.62'	172	52	MONOPOLE	380	3,766,748.28'	587,897.85'	474	67	DIPOLE	453	3,761,932.11'	587,981.00'	138	28	MONOPOLE
308	3,764,723.62'	585,390.15'	30	29	MONOPOLE	381	3,766,898.60'	587,642.14'	31	26	MONOPOLE	454	3,761,052.40'	587,569.25'	198	64	DIPOLE
309	3,763,304.16'	587,853.59'	69	14	MONOPOLE	382	3,767,396.53'	586,642.04'	107	57	MONOPOLE	455	3,765,001.91'	589,360.58'	87	73	DIPOLE
310	3,762,893.32'	588,603.57'	21	23	DIPOLE	383	3,766,614.15'	588,098.40'	55	54	MONOPOLE	456	3,764,895.42'	589,302.52'	44	58	DIPOLE
311	3,762,107.65'	589,964.36'	25	47	DIPOLE	384	3,767,870.40'	587,827.09'	170	29	MONOPOLE	457	3,764,316.94'	589,043.18'	26	53	MONOPOLE
312	3,762,783.27'	588,762.58'	3435	20	DIPOLE	385	3,761,452.89'	584,949.81'	110	53	MONOPOLE	458	3,764,128.40'	588,942.08'	73	68	MONOPOLE
313	3,762,676.53'	588,960.16'	100	29	DIPOLE	386	3,763,166.07'	585,144.04'	65	62	MONOPOLE	459	3,759,518.50'	586,905.70'	137	108	MONOPOLE
314	3,762,561.90'	589,144.60'	122	20	DIPOLE	387	3,763,377.35'	585,845.93'	24	72	MONOPOLE	460	3,762,636.32'	588,282.89'	1133	53	DIPOLE
315	3,762,490.48'	589,289.43'	248	37	DIPOLE	388	3,764,544.03'	586,359.20'	115	42	DIPOLE	461	3,762,459.79'	588,189.39'	63	52	MONOPOLE
316	3,762,315.93'	589,555.15'	23	93	DIPOLE	389	3,765,270.55'	586,667.07'	36	27	DIPOLE	462	3,762,243.54'	588,118.64'	424	46	DIPOLE
317	3,761,972.70'	590,190.58'	63	34	MONOPOLE	390	3,765,323.12'	586,684.07'	119	20	MONOPOLE	463	3,761,615.03'	587,822.90'	42	44	DIPOLE
318	3,762,031.25'	590,094.55'	8254	27	DIPOLE	391	3,766,071.29'	587,015.86'	466	49	DIPOLE	464	3,762,719.00'	588,340.15'	553	31	DIPOLE
319	3,764,377.57'	585,970.42'	32	29	DIPOLE	392	3,767,340.32'	587,598.36'	114	37	DIPOLE						
320	3,764,340.65'	586,033.68'	47	81	MONOPOLE	393	3,768,404.07'	587,003.44'	38	20	MONOPOLE						
321	3,762,692.49'	588,932.13'	40	38	MONOPOLE	394	3,764,073.52'	586,731.12'	209	82	DIPOLE						
322	3,763,671.27'	587,213.82'	35	26	DIPOLE	395	3,763,163.73'	586,314.13'	114	73	MONOPOLE						
323	3,763,497.25'	587,519.10'	23	58	DIPOLE	396	3,762,208.53'	585,897.70'	86	107	MONOPOLE						
324	3,763,311.50'	587,841.53'	302	27	DIPOLE	397	3,762,074.11'	585,808.53'	242	78	MONOPOLE						
325	3,762,644.61'	589,561.46'	1729	15	MONOPOLE	398	3,761,346.81'	585,486.23'	23	43	MONOPOLE						
326	3,762,368.36'	590,029.39'	31	19	MONOPOLE	399	3,761,056.37'	585,367.58'	68	24	MONOPOLE						
327	3,762,314.77'	590,102.32'	5340	12	DIPOLE	400	3,765,103.24'	587,194.95'	271	34	DIPOLE						
328	3,761,961.02'	590,734.12'	7588	47	DIPOLE	401	3,761,027.43'	585,360.11'	48	35	DIPOLE						
329	3,762,723.97'	589,410.88'	1445	14	DIPOLE	402	3,760,785.90'	585,263.66'	20	55	MONOPOLE						
330	3,763,042.32'	588,842.67'	20	13	DIPOLE	403	3,760,549.19'	585,156.38'	23	51	DIPOLE						
331	3,763,120.30'	588,747.02'	1555	33	DIPOLE	404	3,764,879.15'	587,096.70'	271	69	MONOPOLE						
332	3,763,142.19'	588,708.69'	74	34	DIPOLE	405	3,760,587.44'	585,171.62'	26	61	MONOPOLE						
333	3,763,218.38'	588,546.55'	4142	18	DIPOLE	406	3,766,660.20'	587,868.24'	56	38	MONOPOLE						
334	3,763,537.82'	587,986.09'	274	28	MONOPOLE	407	3,764,410.07'	586,857.07'	79	58	MONOPOLE						
335	3,763,706.47'	587,688.50'	28	53	DIPOLE	408	3,761,873.43'	586,267.03'	129	50	MONOPOLE						
336	3,763,050.86'	588,831.96'	420	14	DIPOLE	409	3,761,577.93'	586,121.67'	30	30	DIPOLE						
337	3,763,904.38'	587,360.72'	43	45	MONOPOLE	410	3,761,080.50'	585,915.79'	83	39	DIPOLE						
338	3,762,849.76'	589,655.61'	23	43	DIPOLE	411	3,761,042.10'	585,887.18'	46	32	MONOPOLE						
339	3,762,731.41'	589,849.05'	129	18	DIPOLE	412	3,760,993.07'	585,855.52'	281	69	DIPOLE						



LEGEND:

- 1801 SEISMIC RECORD EVENT
- SUB-BOTTOM PROFILER TRACKLINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
SEISMIC RECORD EVENTS
ORLEANS PARISH, LOUISIANA**

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE
IN FEET
0 600'

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

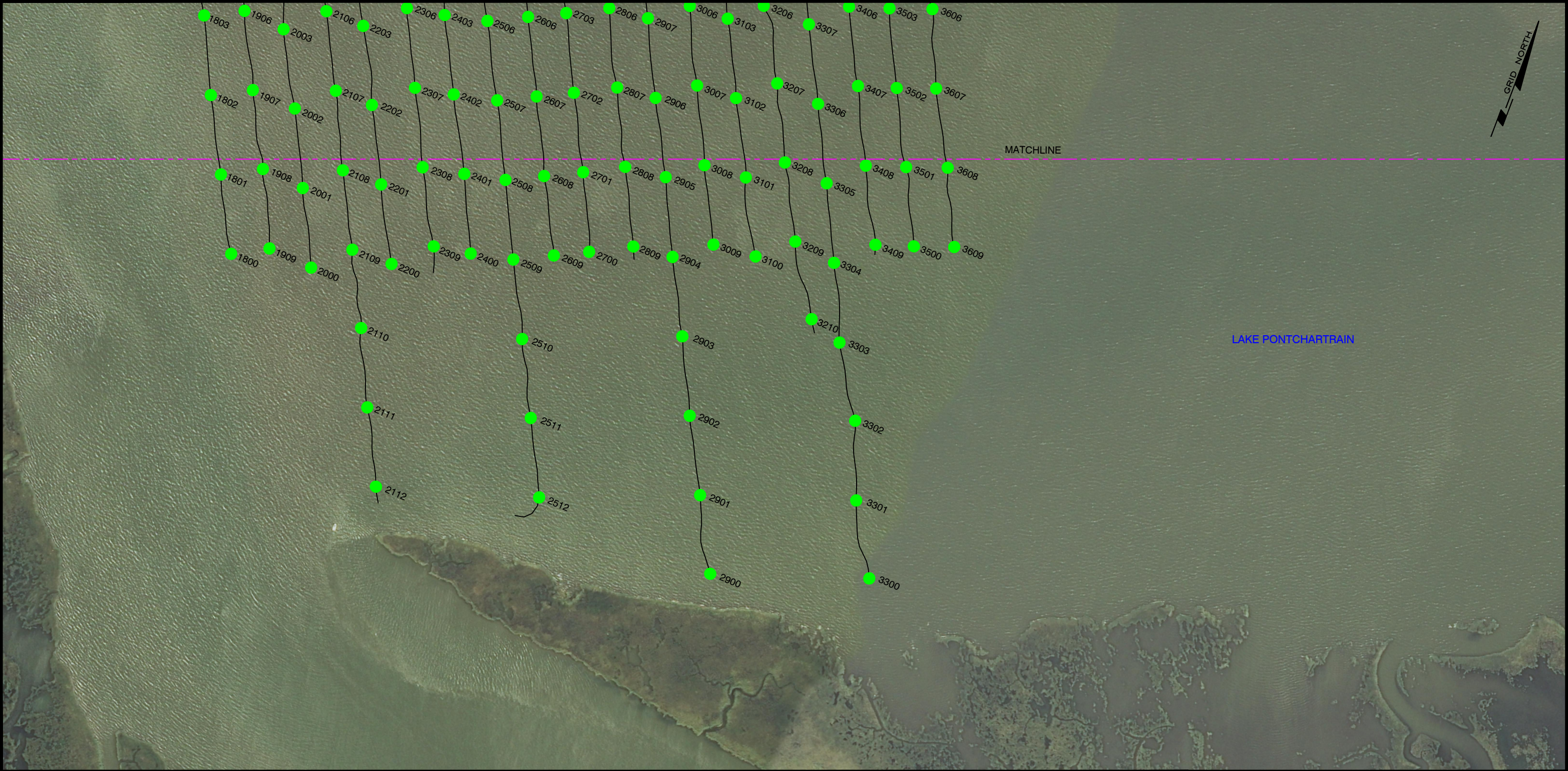
Job No.: 04.10781040 Date: 12/23/19

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LEGEND:

1801

SEISMIC RECORD EVENT

SUB-BOTTOM PROFILER TRACKLINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
SEISMIC RECORD EVENTS
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300

GEODETTIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

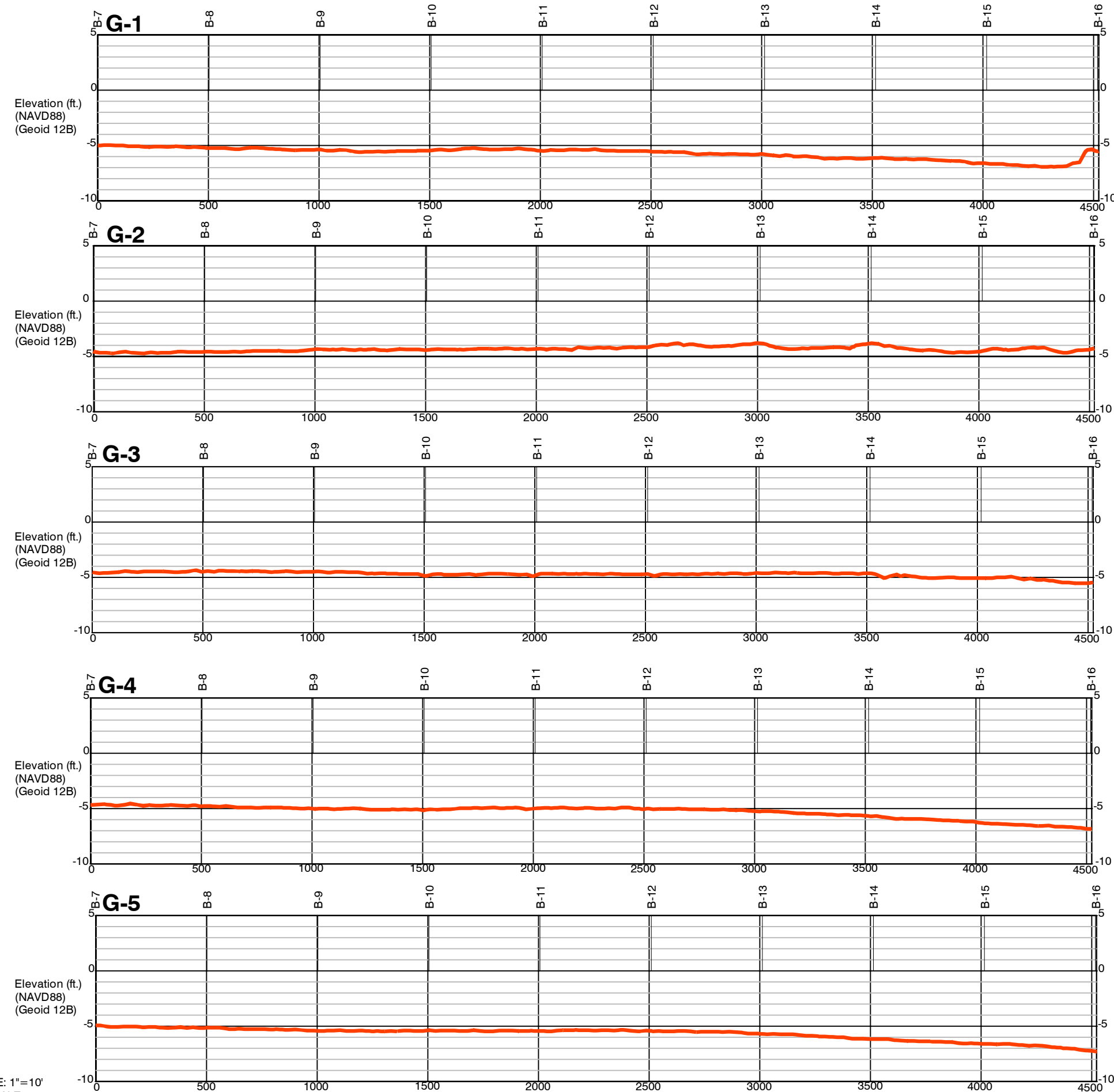
SCALE
IN FEET

0600'

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

Job No.: 04.10781040
Date: 12/23/19
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Drwn: JDD
Chart: Of:
819



VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
MUDLINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**
PROFILES
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.
226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

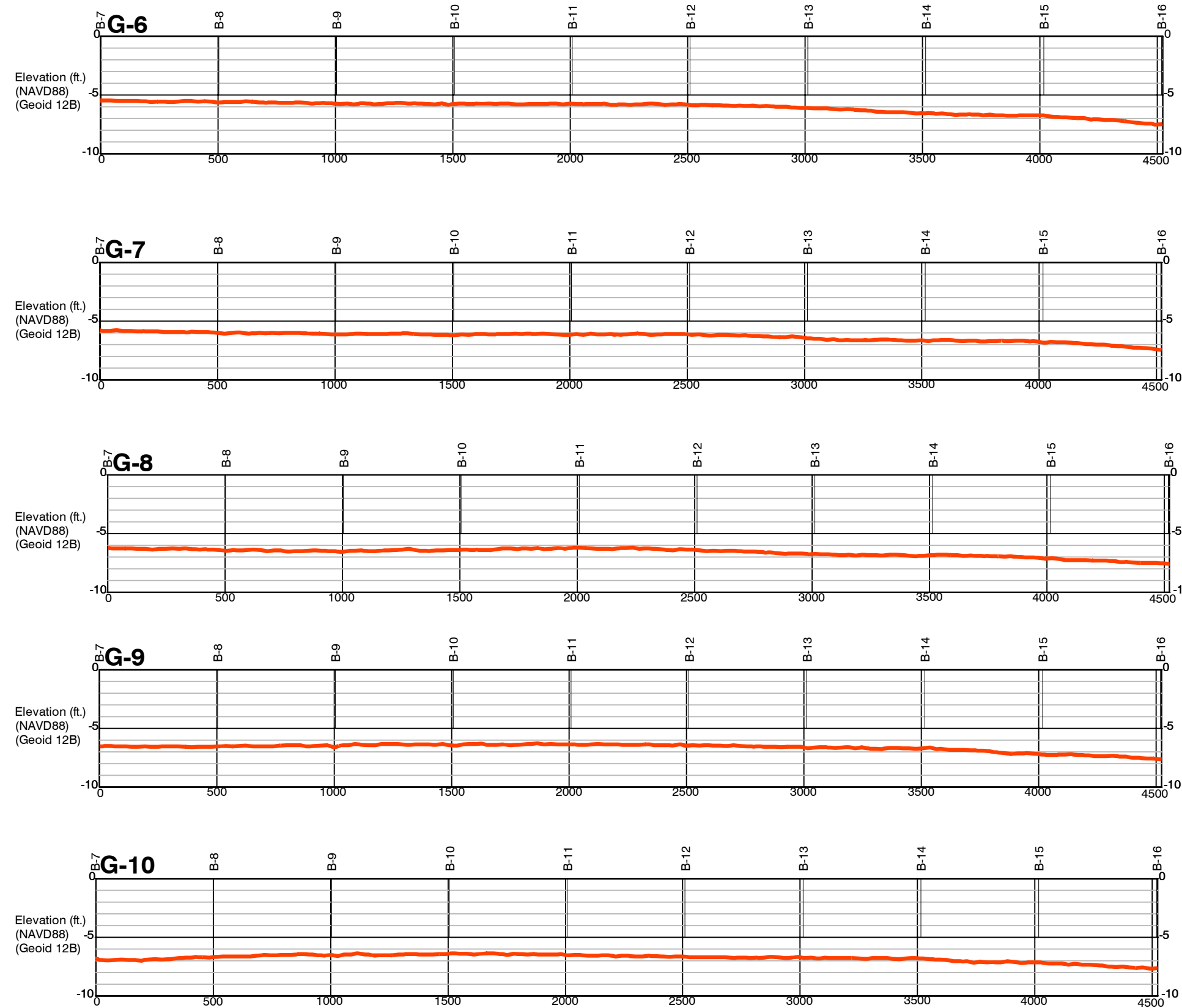
SCALE AS SHOWN

Job No.: 04.10781040 Date: 12/23/19 Drwn: JDD

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Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



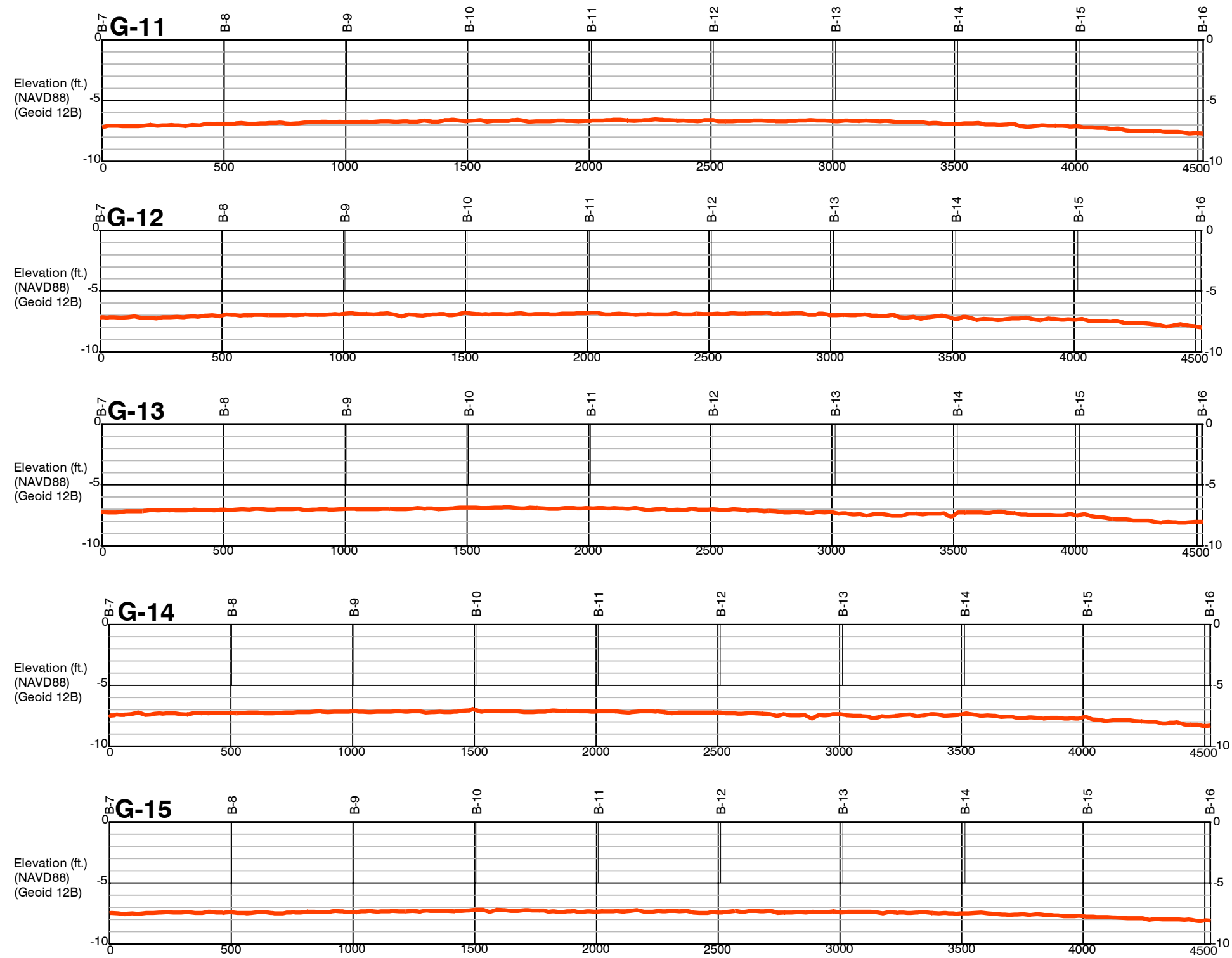
NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
 MUDLINE

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

 COASTAL PROTECTION AND RESTORATION AUTHORITY			
BORROW AREA SURVEY FOR ST. CATHERINE ISLAND MARSH CREATION & SHORELINE PROTECTION (PO-0179) PROFILES ORLEANS PARISH, LOUISIANA			
FUGRO USA LAND, INC. 226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300 			
GEODETIC DATUM: NAD83 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Job No.: 04.10781040	Date: 12/23/19	Drwn: JDD	Chart: Of:
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NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
MUDLINE

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



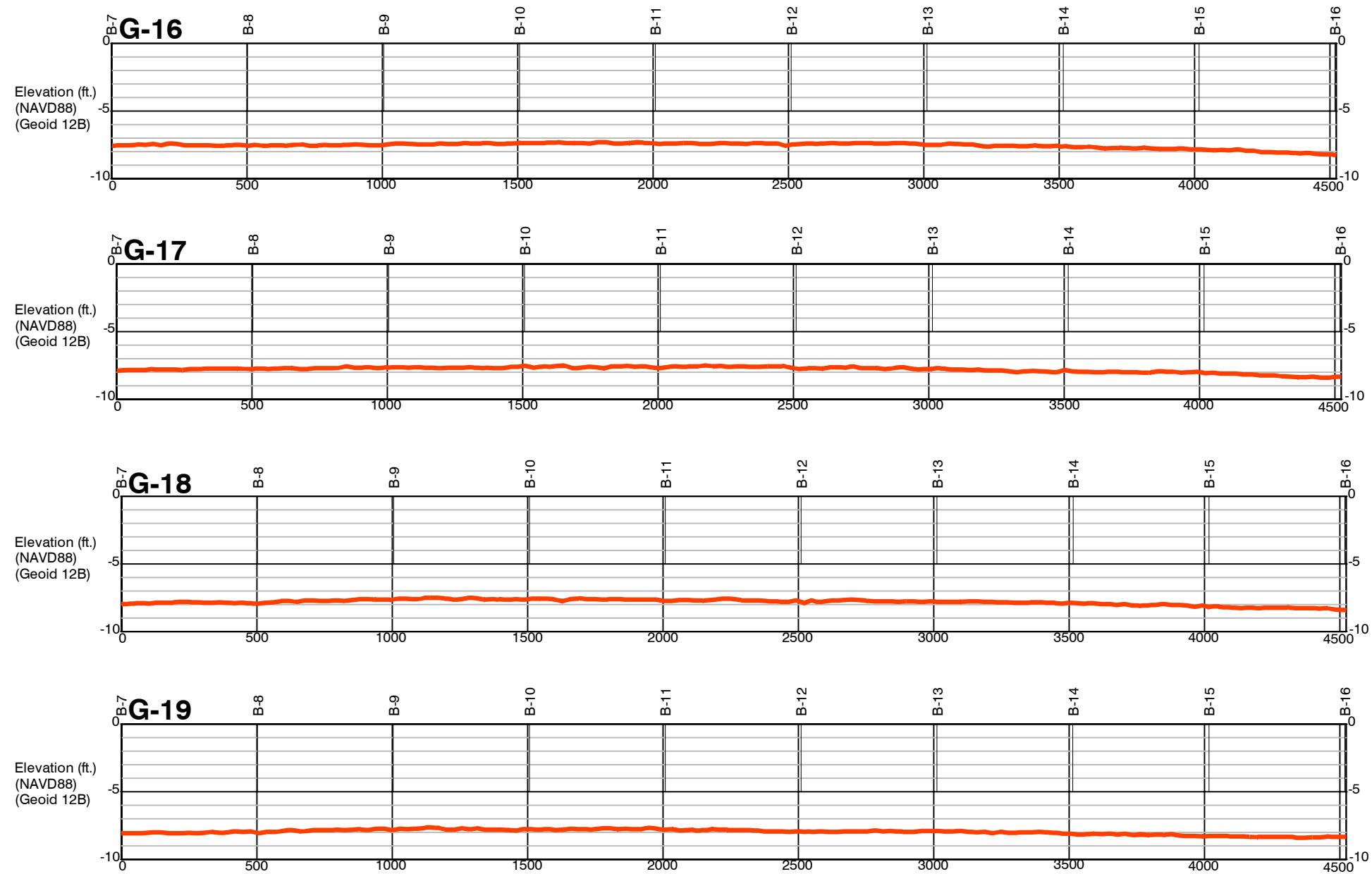
COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**
PROFILES
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.
226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Job No.: 04.10781040	Date: 12/23/19	Drwn: JDD	Chart: Of:
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NOTES:

PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.

PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.

PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:

 MUDLINE

COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**

PROFILES

ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300

FUGRO

GEODETIC DATUM: NAD83
 PROJECTION: LOUISIANA SOUTH
 GRID UNITS: US QUARTER SECTION

SCALE AS SHOWN

Job No.: 04.10781040	Date: 12/23/19
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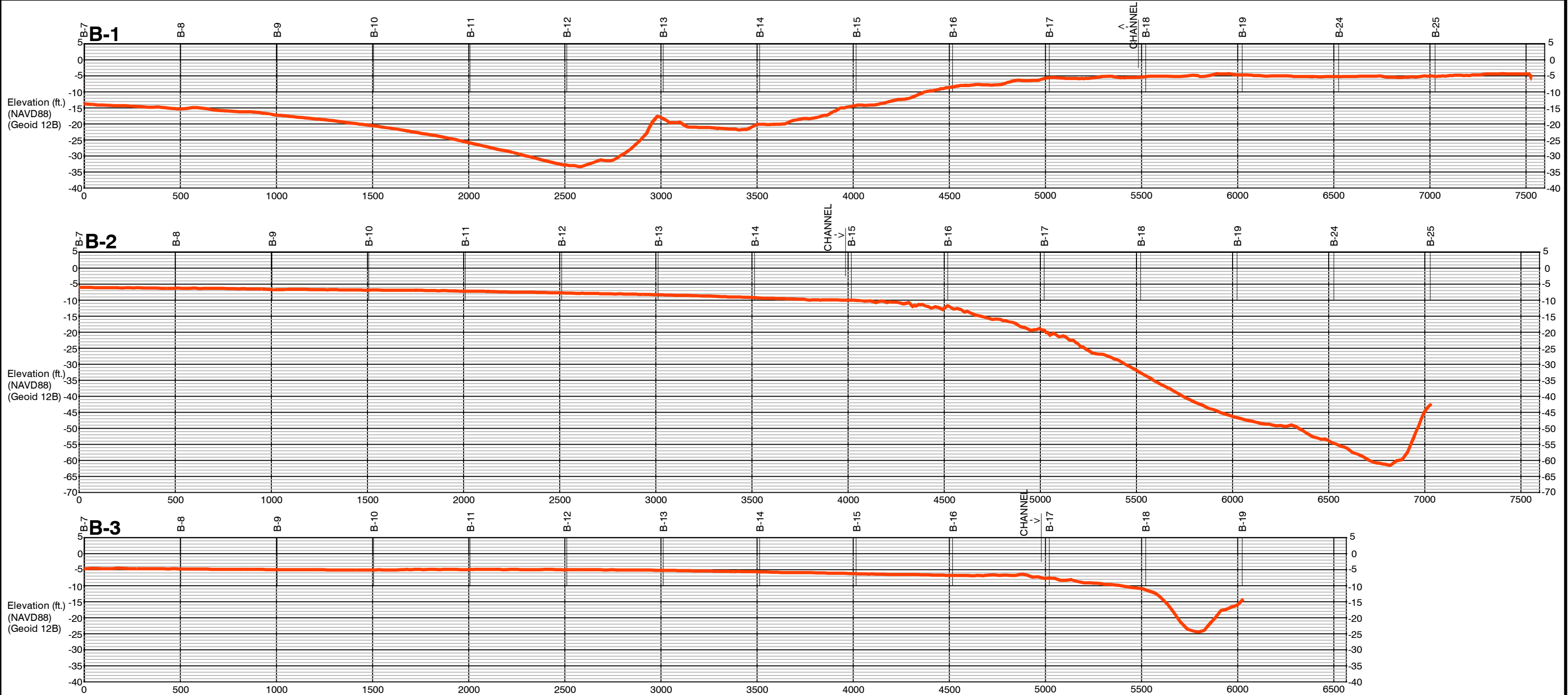
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2 19 |

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
MUDLINE

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**
PROFILES
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.
226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

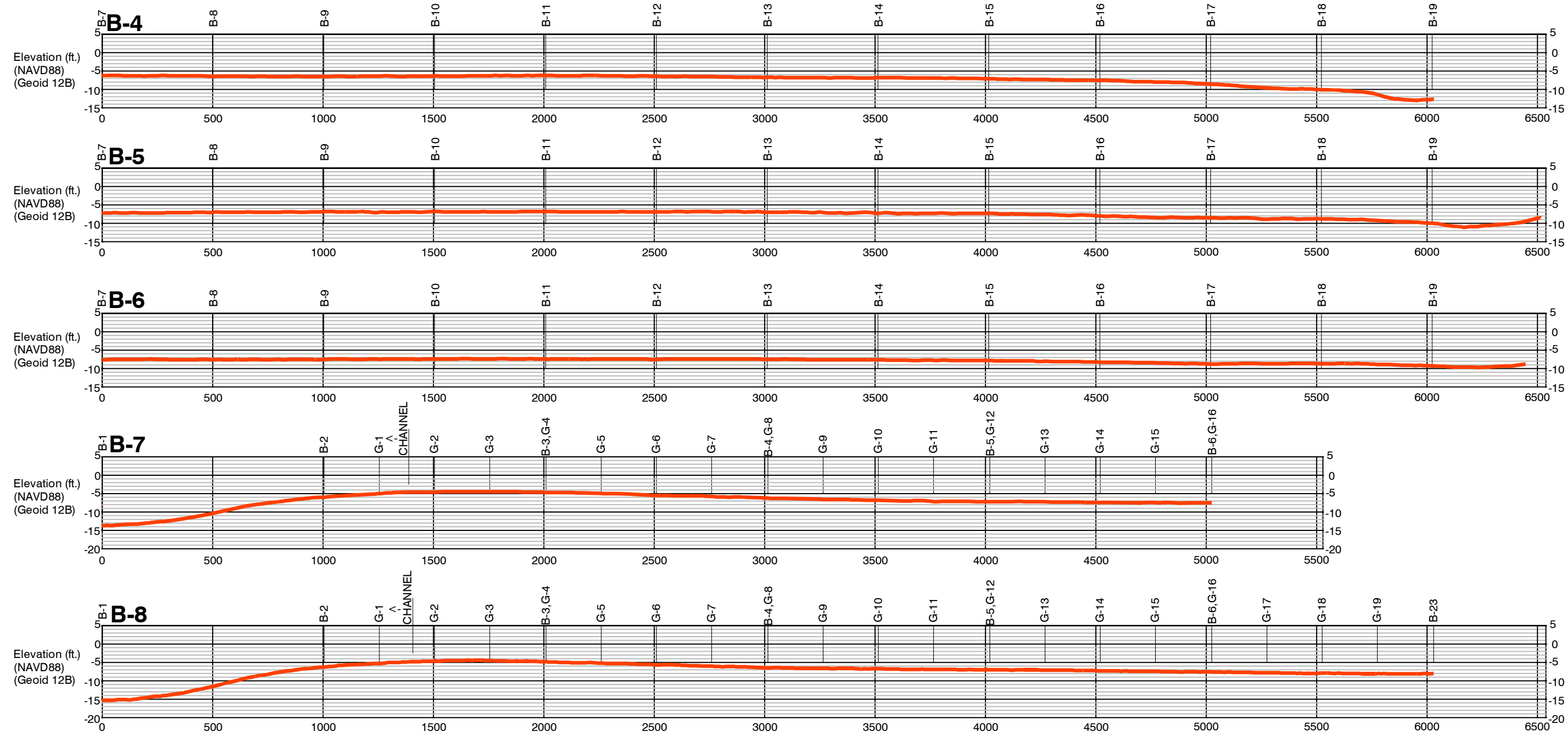
SCALE AS SHOWN

Job No.: 04.10781040 Date: 12/23/19

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Chart: 13 19



VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=500'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
— MUDLINE

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)
PROFILES
ORLEANS PARISH, LOUISIANA**

FUGRO USA LAND, INC.
226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



**GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET**

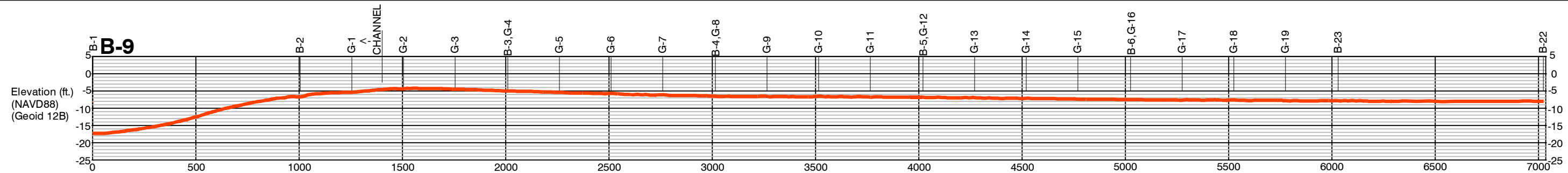
SCALE AS SHOWN

Job No.: 04.10781040 Date: 12/23/19 Drwn: JDD

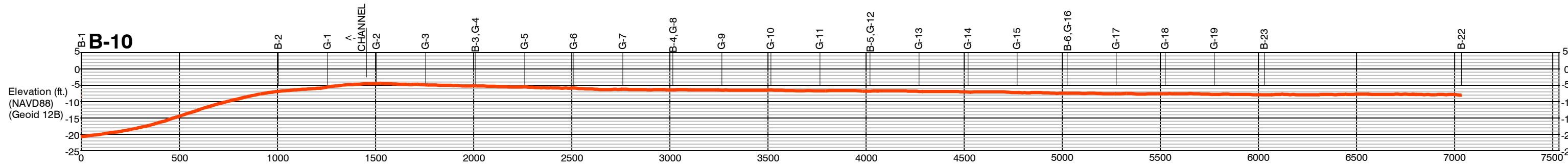
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14 19

B-9

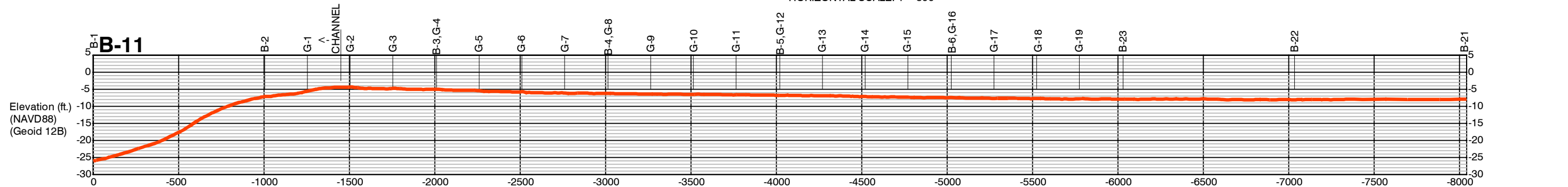


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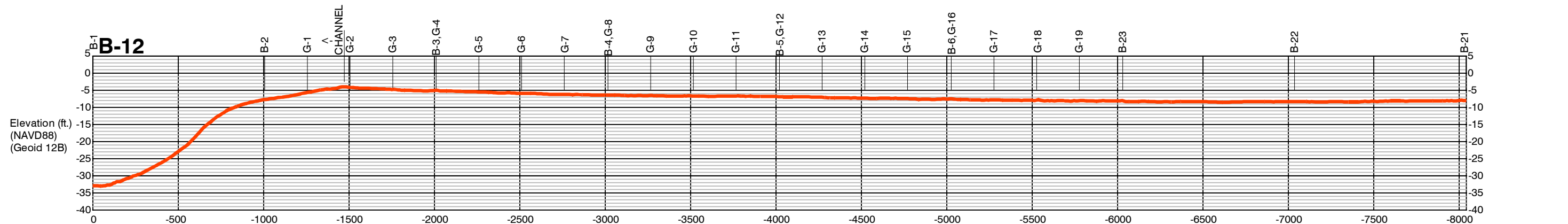


VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=500'

B-11



B-12



VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=600'

NOTES:

PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.

PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.

PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:

— MUDLINE

NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.



COASTAL PROTECTION AND RESTORATION AUTHORITY

**BORROW AREA SURVEY FOR ST. CATHERINE ISLAND
MARSH CREATION & SHORELINE PROTECTION (PO-0179)**

PROFILES
ORLEANS PARISH, LOUISIANA

FUGRO USA LAND, INC.

226 DULLES DR. SUITE 110 LAFAYETTE, LA 70506 (337) 237-1300



GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Job No.: 04.10781040 Date: 12/23/19

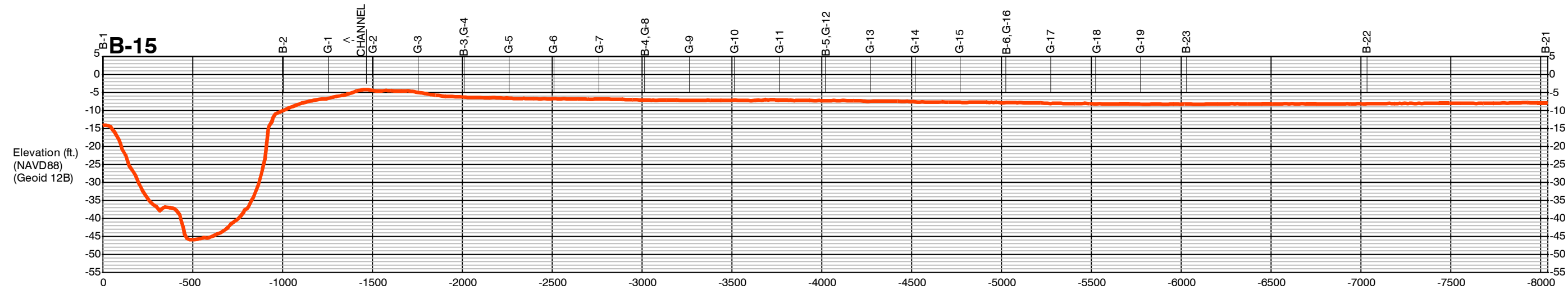
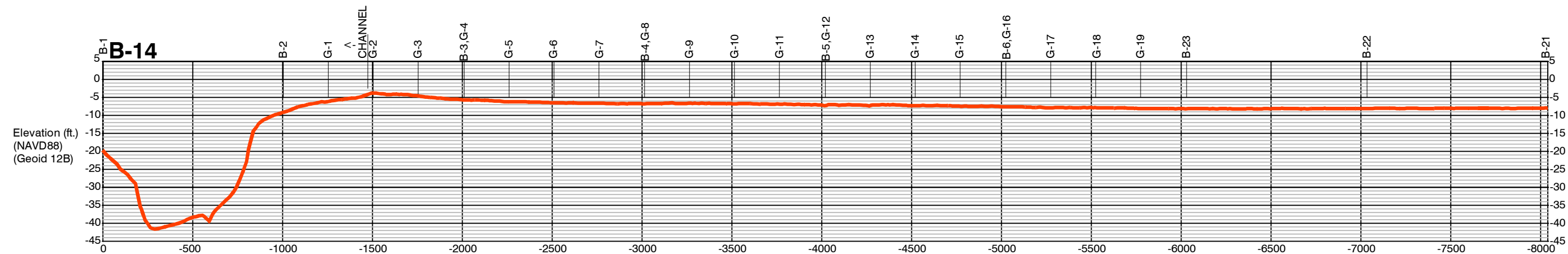
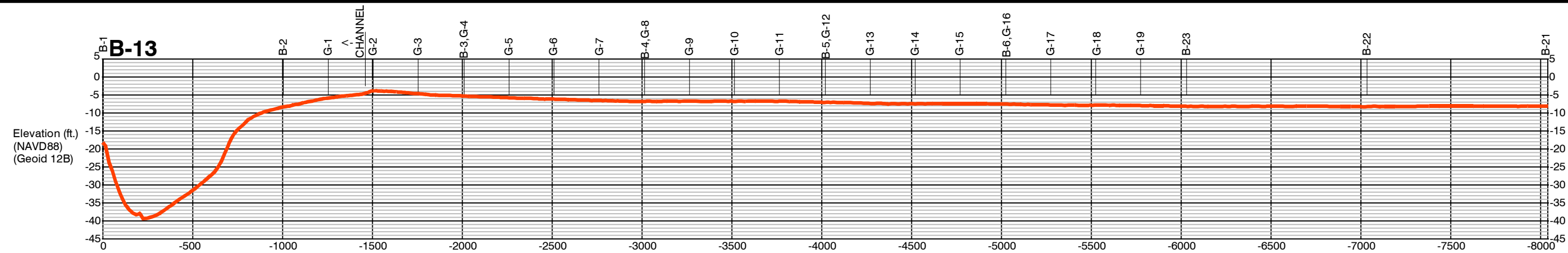
Drwn: JDD

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15 19

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



NOTES:
PROFILES G-1 - G-19 GENERATED NORTH TO SOUTH.
PROFILES B-1 - B-6 & B-20 - B-23 GENERATED NORTH TO SOUTH.
PROFILES B-7 - B-19 & B-24 - B-25 GENERATED WEST TO EAST.

LEGEND:
MUDLINE

VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=600'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20

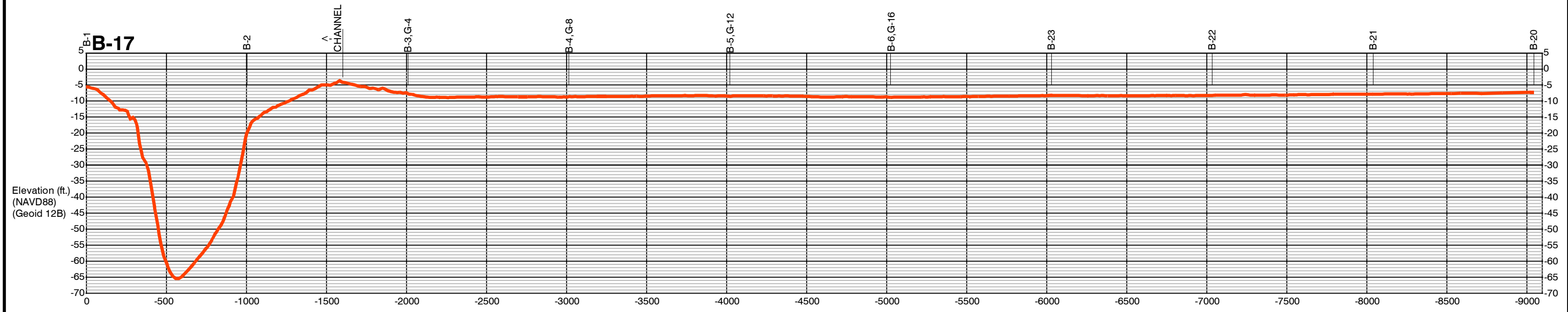
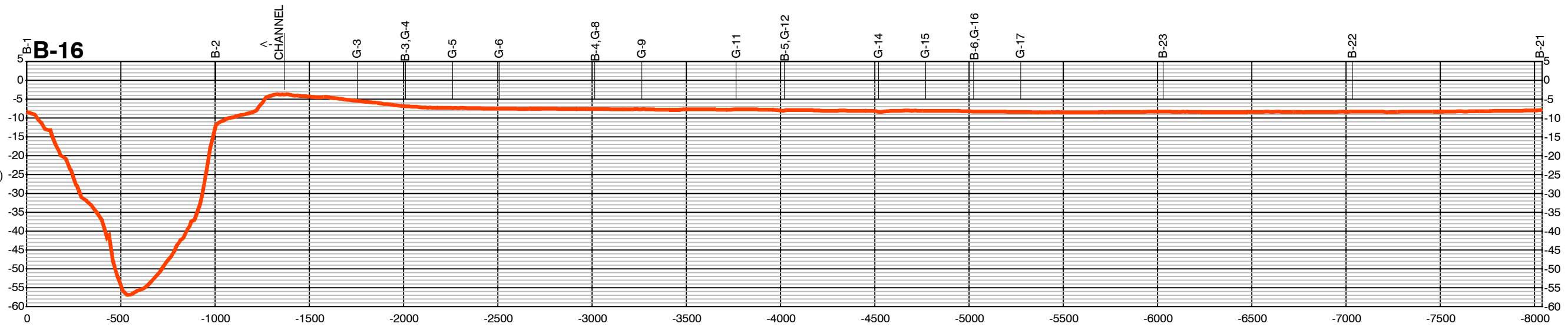
**COASTAL PROTECTION AND RESTORATION AUTHORITY**

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GEODETIC DATUM: NAD83 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Job No.: 04.10781040 Date: 12/23/19	Drwn: JDD
Dwgfile: L:\2019\04.10781040\CAD\E04.10781040_MAG	Chart: Of: 16 19



VERTICAL SCALE: 1"=30'
HORIZONTAL SCALE: 1"=600'
NOTE: ALL UNITS OF MEASURE ARE IN U.S. SURVEY FEET.

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LEGEND:
MUDLINE



COASTAL PROTECTION AND RESTORATION AUTHORITY

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MARSH CREATION & SHORELINE PROTECTION (PO-0179)**
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GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

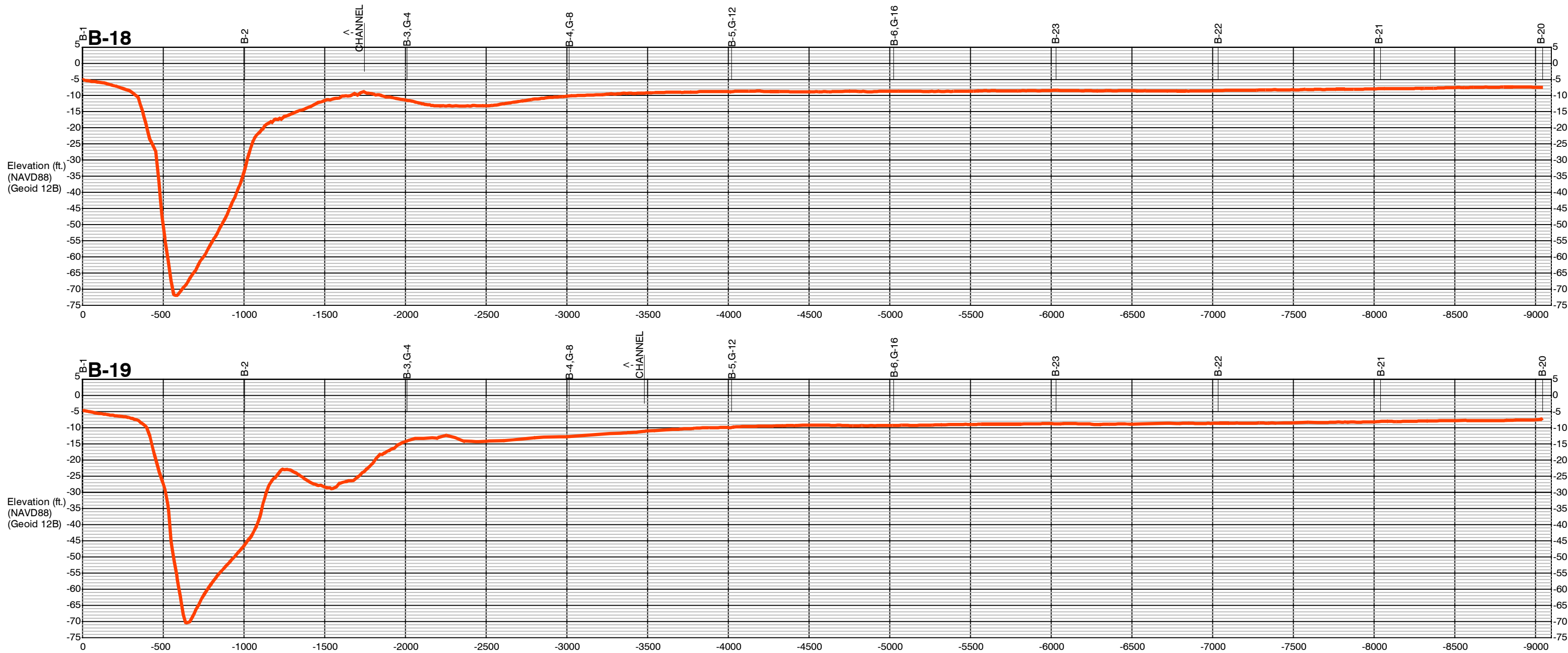
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Chart: Of: 17 19

Proj. Mgr.: PHL
Revised: 1/27/20
Printed: 2/7/20



VERTICAL SCALE: 1"=30'
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LEGEND:
MUDLINE

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PROFILES
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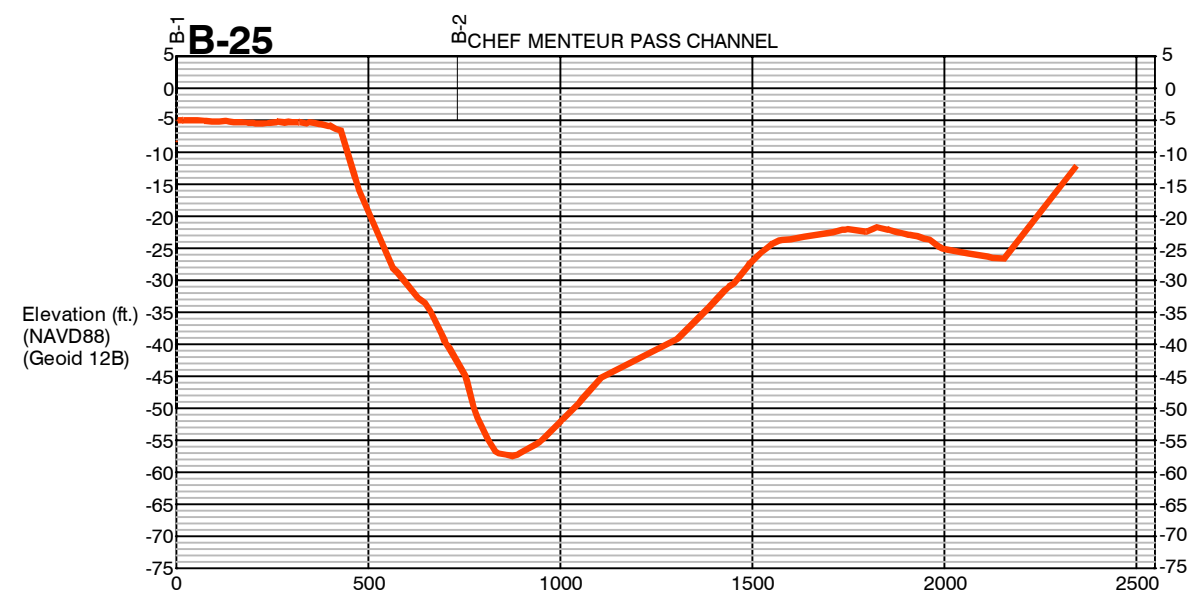
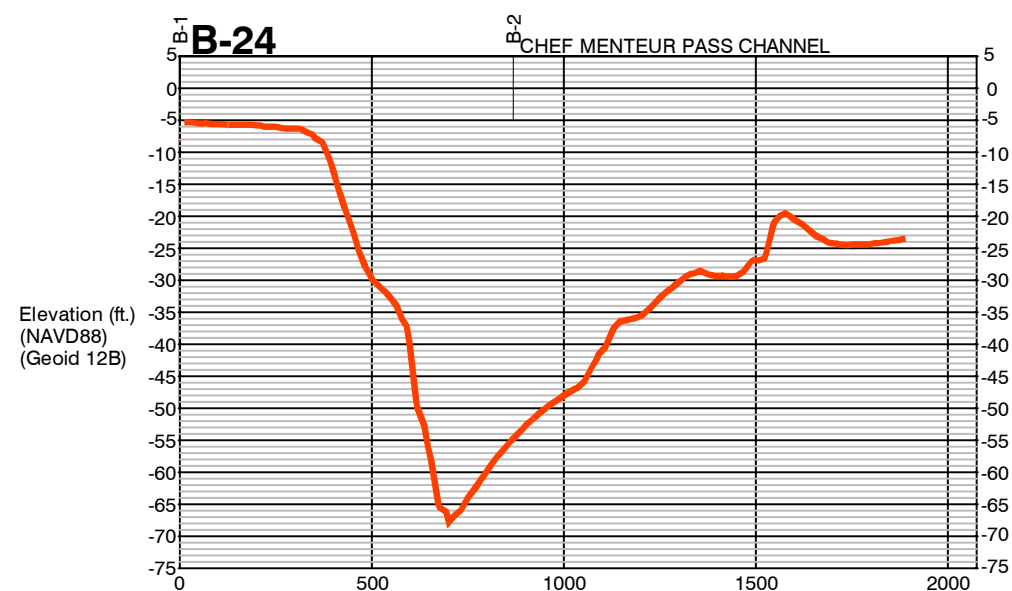
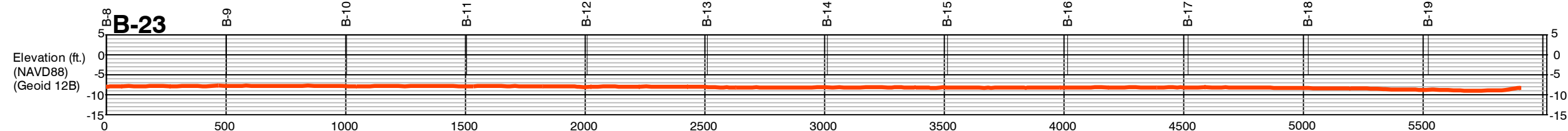
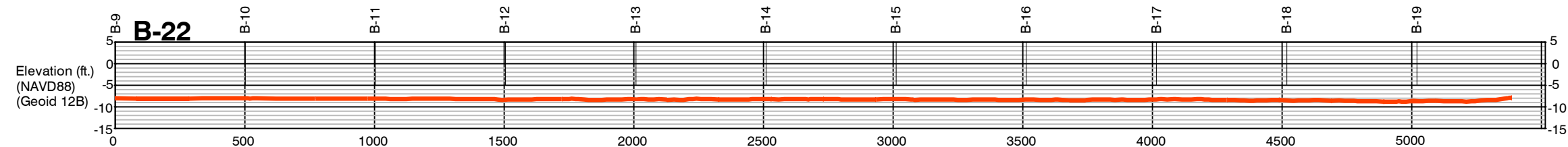
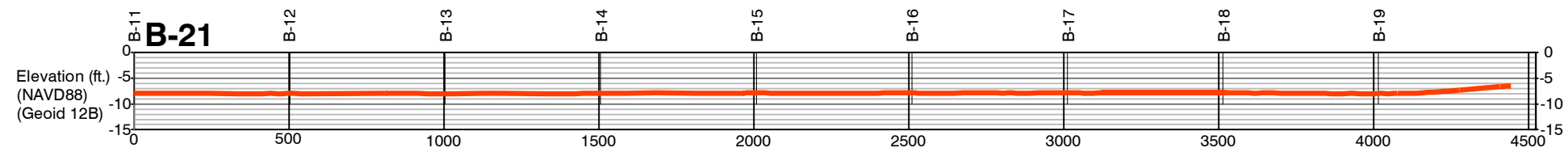
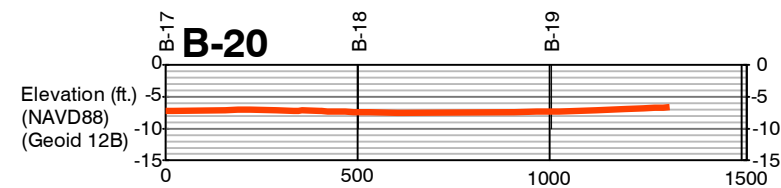
GEODETIC DATUM: NAD83
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Job No.: 04.10781040 Date: 12/23/19 Drwn: JDD

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Chart: Of:
18 19



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— MUDLINE

VERTICAL SCALE: 1"=30'
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