

LANIER JOB NO. 11220
MAY 2020

TUBAL-CAIN MARINE SERVICES
AFTER THE FACT PERMIT REQUEST

PROJECT DESCRIPTION – AFTER THE FACT PERMIT REQUEST

2011

The work consisted of the following:

- Installation of ten (10) 30" steel pipe mooring piles
- Dredging of approximately 5,900 cubic yards of material from approximately 1.85 acres of unvegetated water bottom to a depth of approximately 9.0-ft from a previous 7.0-ft. Dredge material was placed on site (see permit drawing set for approximate dredge pad and disposal location)

2012

The work consisted of the following:

- Installation of twenty four (24) 30" steel pipe mooring piles
- Installation of approximately 541' of steel sheetpile bulkhead
- An estimated 107 cubic yards of fill placed behind the bulkhead below mean high tide
- Dredging of approximately 2,400 cubic yards of material from approximately 0.46 acre of unvegetated water bottom to a depth of approximately 9.0-ft from a previous 7.0-ft. Dredge material was placed on site (see permit drawing set for approximate dredge pad and disposal location)

2013

The work consisted of the following:

- Installation of approximately 481' - 9" of steel sheetpile bulkhead
- An estimated 643 cubic yards of fill placed behind the bulkhead below mean high tide

2014

No work was completed

2015

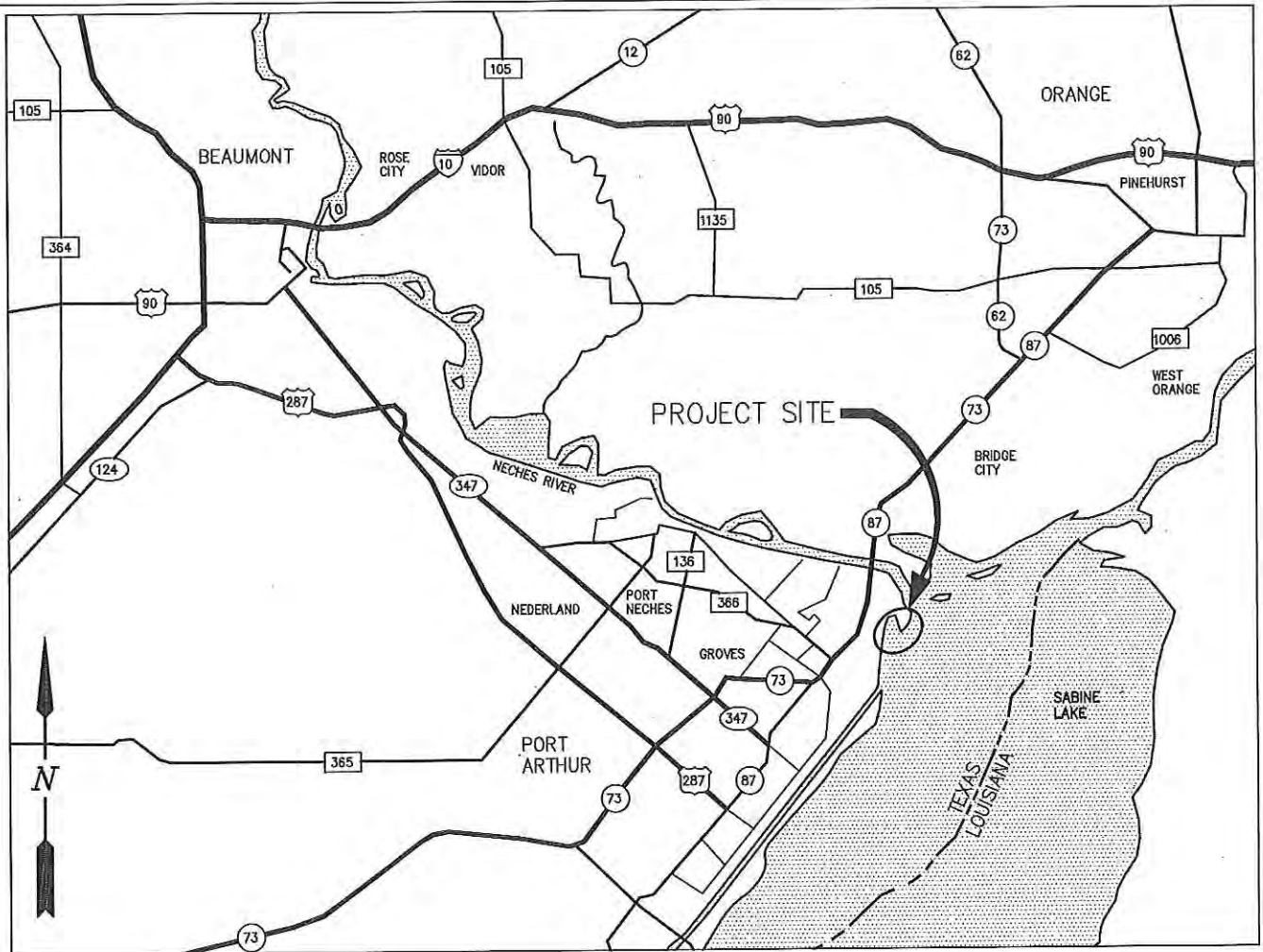
The work consisted of the following:

- Installation of five (5) 30" steel pipe mooring piles
- Installation of approximately 1089' - 5" of steel sheetpile bulkhead
- An estimated 2250 cubic yards of fill placed behind the bulkhead below mean high tide
- Dredging of approximately 1,100 cubic yards of material from approximately 0.37 acre of unvegetated water bottom to a depth of approximately 5.0-ft from a previous 3.0-ft. Dredge material was placed on site (see permit drawing set for approximate dredge pad and disposal location)

2016

The work consisted of the following:

- Installation of eighteen (18) 30" steel pipe mooring piles
- Installation of eight (8) 36" steel pipe mooring pylons
- Installation of approximately 1332' - 6" of steel sheetpile bulkhead
- An estimated 2839 cubic yards of fill placed behind the bulkhead below mean high tide
- Dredging of approximately 11,600 cubic yards of material from approximately 0.88 acre of unvegetated water bottom to a depth of approximately 12.0-ft from a previous 4.0-ft. Portions of the dredge material was placed on site with the remaining portion disposed of off-site (see permit drawing set for approximate dredge pad and disposal location on-site)



AS-BUILT
MAY 4, 2020

GENERAL NOTES:

1. ALL ELEVATIONS REFER TO M.L.L.W. UNLESS NOTED OTHERWISE.
2. HIGH TIDE LINE (HTL) = (+) 0.92' MLLW.

PROJECT SITE COORDINATES:
29°57'42.14"N
93°51'35.61"W

PRELIMINARY - FOR PERMIT PURPOSES ONLY



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

LA: C-1120 TX: F-2981
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TUBAL-CANE MARINE SERVICES, INC.
BEAUMONT TEXAS

**BARGE FACILITY IMPROVEMENTS
VICINITY MAP AND DRAWING INDEX
AFTER THE FACT PERMIT REQUEST**

DATE	MAY 2020
DESIGN	JES
DRAWN	PJC
CHECK	BNF
JOB NO.	11220
SHEET No.	1 OF 11



PROJECT SITE COORDINATES:
29°57'42.14"N
93°51'35.61"W

PRELIMINARY - FOR PERMIT PURPOSES ONLY

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**BARGE FACILITY IMPROVMENTS
LOCATION MAP
AFTER THE FACT PERMIT REQUEST**

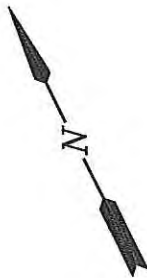
DATE	MAY 2020
DESIGN	JES
DRAWN	PJC
CHECK	BNF
JOB NO.	11220
SHEET No.	2 OF 11

J:\11000S\11220 VLA MARINEUSACE PERMITTING\DRAWINGS\AFTER THE FACT PERMIT DRAWINGS\11220-P2.DWG

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NOTES:

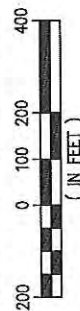
1. EXISTING TOPOGRAPHIC SURVEY INFORMATION GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN OCT. '17.
2. EXISTING HYDROGRAPHIC SURVEY INFORMATION GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN OCT. '17.
3. BARGES SHOWN FOR REFERENCE AS POSSIBLE MOORING CONFIGURATIONS.



PROJECT SITE COORDINATES:
29°57'42.14"N
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EXISTING SITE PLAN



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**BARGE FACILITY IMPROVMENTS
EXISTING SITE PLAN
AFTER THE FACT PERMIT REQUEST**

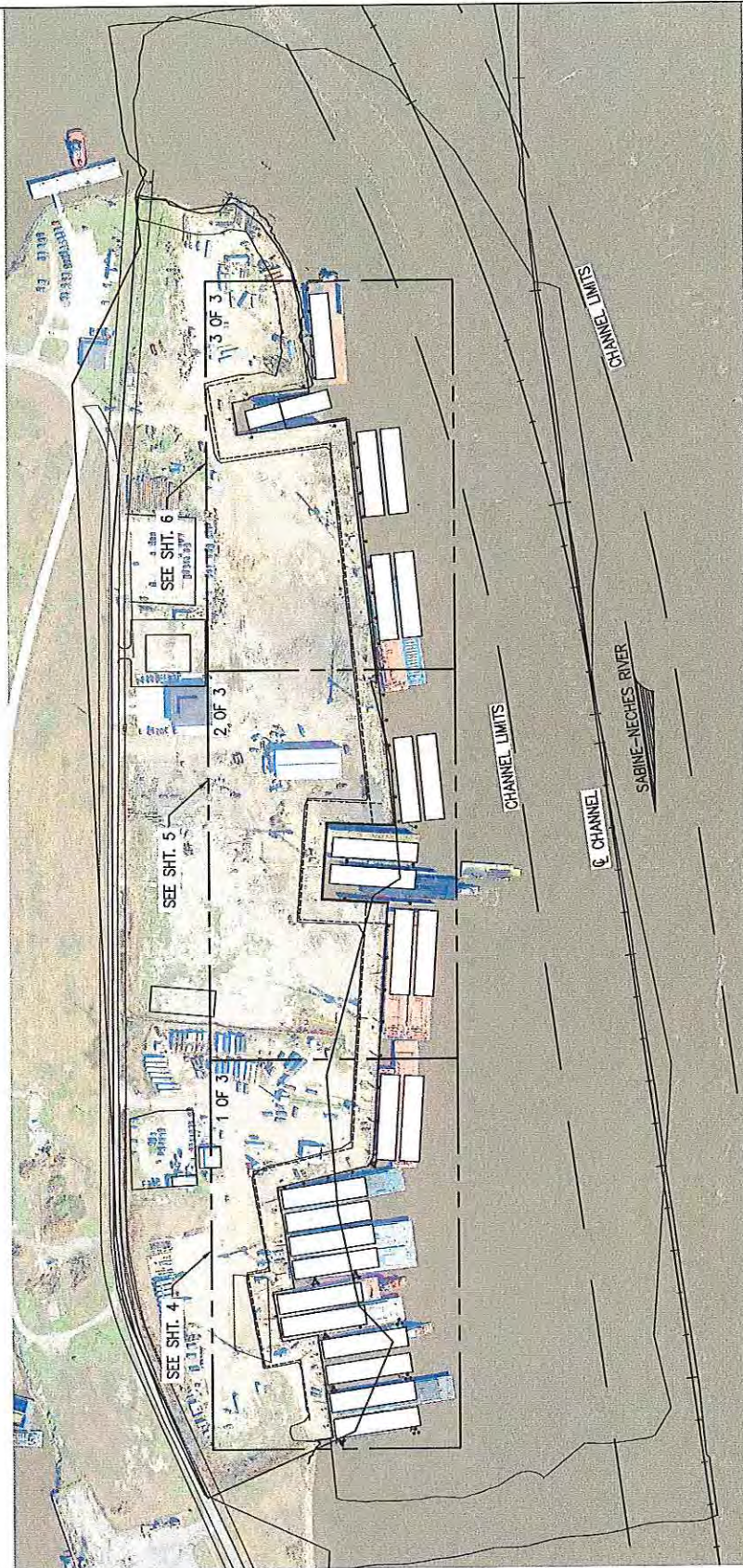
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JOB NO.	11220
SHEET No.	3 OF 11

NOTES:

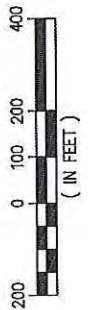
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OVERALL LOCATION PLAN



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MAY 4, 2020

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**BARGE FACILITY IMPROVMENTS
BULKHEAD LOCATION PLAN
AFTER THE FACT PERMIT REQUEST**

DATE	MAY 2020
DESIGN	JES
DRAWN	PJC
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JOB NO.	11220
SHEET No.	4 OF 15

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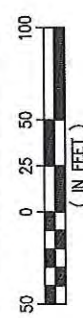
NOTES:

1. SEE SHEET 7 OF 10 FOR COORDINATE TABLE.
2. LOCATIONS OF BULKHEAD CORNERS AND BARGE DOLPHINS GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN JUNE, 2017.



TYPICAL THREE-PILE SPACING
N.T.S.

ENLARGED LOCATION PLAN 1 OF 3



AS-BUILT
MAY 4, 2020

PROJECT SITE COORDINATES
29°57'42.14"N
93°51'35.61"W

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**BARGE FACILITY IMPROVEMENTS
BULKHEAD LOCATION PLAN
AFTER THE FACT PERMIT REQUEST**

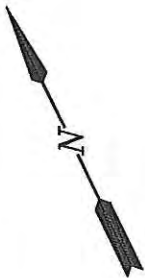
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DRAWN	PJC
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SHEET No.	5 OF 11

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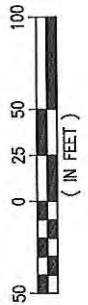
NOTES:

1. SEE SHEET 7 OF 10 FOR COORDINATE TABLE.
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PROJECT SITE COORDINATES:
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ENLARGED LOCATION PLAN 2 OF 3



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MAY 4, 2020

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**BARGE FACILITY IMPROVMENTS
BULKHEAD LOCATION PLAN
AFTER THE FACT PERMIT REQUEST**

DATE MAY 2020
DESIGN JES
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JOB NO 11220
SHEET No.
6 OF 11

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PROJECT SITE COORDINATES:
29°57'42.14"N
93°51'35.61"W

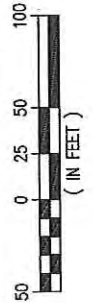
NOTES:

1. SEE SHEET 7 OF 10 FOR COORDINATE TABLE.
2. LOCATIONS OF BULKHEAD CORNERS AND BARGE DOLPHINS GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN JUNE, 2017.



CONTINUED ON SHEET 5

ENLARGED LOCATION PLAN 3 OF 3



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MAY 4, 2020

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**BARGE FACILITY IMPROVMENTS
BULKHEAD LOCATION PLAN
AFTER THE FACT PERMIT REQUEST**

DATE MAY 2020
DESIGN JES
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CHECK BNF
JOB NO 11220
SHEET No.
7 OF 11

NOTES:

1. LOCATIONS OF BULKHEAD CORNERS AND BARGE DOLPHINS GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN JUNE, 2017.
2. ALL COORDINATES PROVIDED IN TX SOUTH-CENTRAL ZONE (NAD83).

BARGE DOLPHINS

Point	Northing	Easting
100	13931796.14	3595313.99
101	13931804.01	3595321.88
102	13931793.42	3595324.08
103	13931742.50	3595486.58
104	13931750.37	3595494.47
105	13931739.78	3595496.67
106	13931865.92	3595524.68
107	13931873.80	3595532.57
108	13931863.21	3595534.76
109	13931915.43	3595356.17
110	13931923.31	3595364.06
111	13931912.72	3595366.25
112	13932036.35	3595393.48
113	13932043.16	3595400.55
114	13932033.66	3595403.25
115	13931989.66	3595562.65
116	13931997.54	3595570.54
117	13931986.95	3595572.74
118	13932130.65	3595516.60
119	13932139.43	3595526.92
120	13932127.09	3595529.60
121	13932159.62	3595424.09
122	13932169.17	3595433.57

Point	Northing	Easting
123	13932156.04	3595437.23
124	13932392.17	3595460.97
125	13932382.44	3595504.35
126	13932368.47	3595564.71
127	13932354.04	3595619.76
128	13932343.28	3595664.88
129	13932340.57	3595674.96
130	13932351.16	3595672.76
131	13932385.18	3595685.89
132	13932427.78	3595711.82
133	13932515.38	3595760.51
134	13932572.51	3595799.31
135	13932641.40	3595838.71
136	13932707.26	3595875.09
137	13932758.82	3595903.74
138	13932811.63	3595933.83
139	13932862.92	3596017.11
140	13932939.59	3595883.22
141	13933013.13	3595925.57
142	13933018.33	3595927.80
143	13932937.40	3596061.24
144	13932942.81	3596063.76
145	13933094.03	3595968.50

Point	Northing	Easting
146	13933039.68	3596077.51
147	13933096.51	3596096.77
148	13933153.34	3596116.03
149	13933210.16	3596135.28
150	13933266.99	3596154.54
151	13933323.82	3596173.79
152	13933380.64	3596193.05
153	13933437.47	3596212.30
154	13933494.29	3596231.56
155	13933551.12	3596250.82
156	13933607.95	3596270.07
157	13933664.77	3596289.33
158	13933721.60	3596308.58
159	13933778.42	3596327.84
160	13933835.25	3596347.10
161	13933892.08	3596366.35
162	13934066.69	3596348.93
163	13934114.17	3596366.76
164	13934160.06	3596383.94
165	13934212.54	3596403.91
166	13934261.61	3596421.99
167	13932020.97	3595481.31
168	13933018.66	3596106.61

BULKHEAD CORNERS

Point	Northing	Easting
1	13931829.76	3595271.87
2	13931816.23	3595313.10
3	13932048.54	3595384.55
4	13932071.25	3595301.44
5	13932184.73	3595332.12
6	13932170.73	3595380.92
7	13932399.65	3595447.93
8	13932351.91	3595662.21
9	13932365.56	3595681.61
10	13932887.57	3595971.06
11	13932962.30	3595835.24
12	13933118.57	3595924.10
13	13933045.05	3596063.65
14	13933945.47	3596379.59
15	13934026.28	3596127.39
16	13934099.87	3596149.07
17	13934090.87	3596184.57

AS-BUILT
MAY 4, 2020

PROJECT SITE COORDINATES:
29°57'42.14"N
93°51'35.61"W

PRELIMINARY - FOR PERMIT PURPOSES ONLY

REV
1



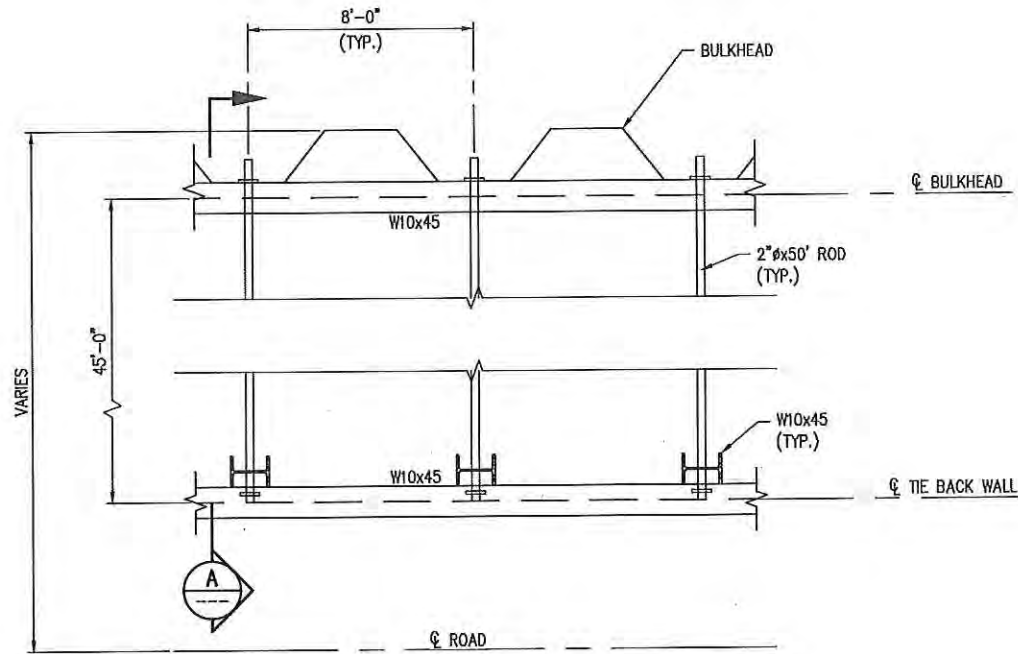
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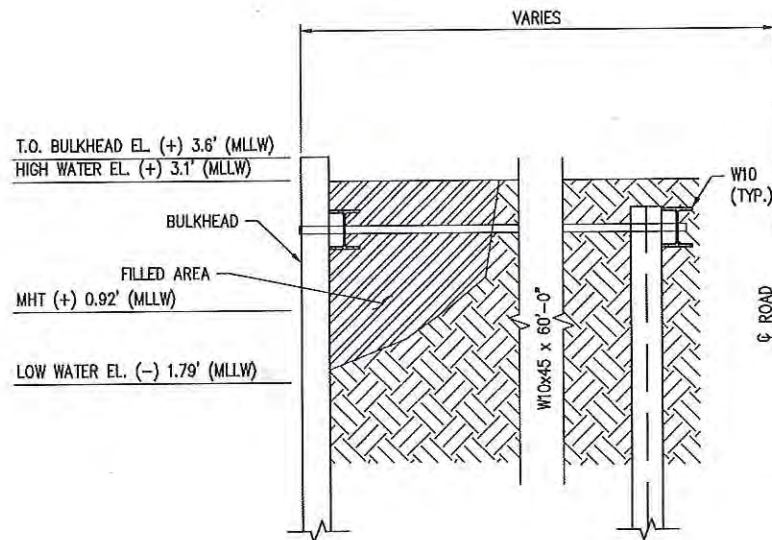
**BARGE FACILITY IMPROVMENTS
DOLPHIN & BULKHEAD COORDINATE TABLES
AFTER THE FACT PERMIT REQUEST**

DATE MAY 2020
DESIGN JES
DRAWN PJC
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JOB NO 11220
SHEET No.
8 OF 11



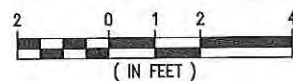
TYPICAL BULKHEAD PLAN

SCALE: 1/4"=1'-0"



SECTION

SCALE: 1/4"=1'-0"



AS-BUILT
MAY 4, 2020

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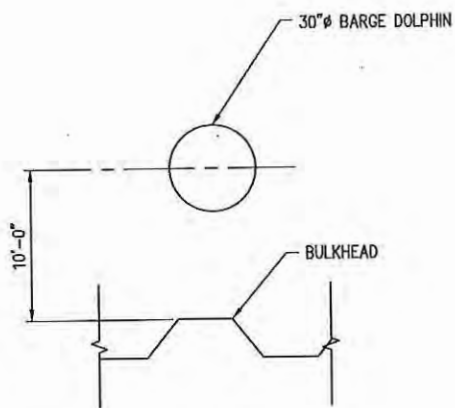
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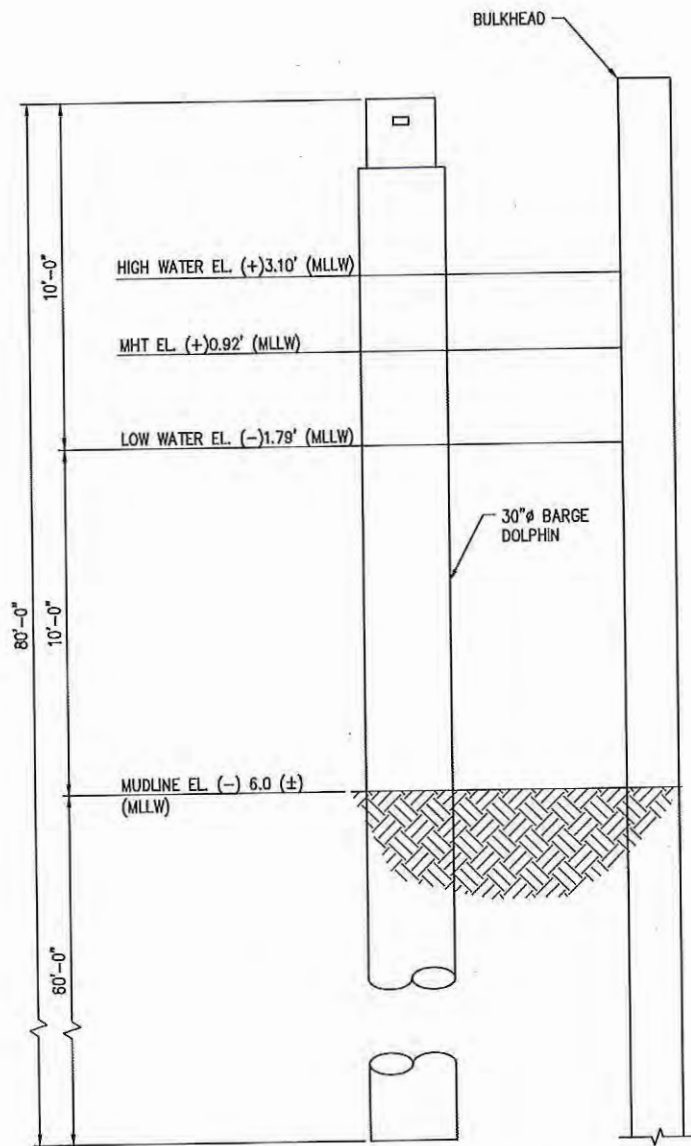
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BEAUMONT TEXAS

BARGE FACILITY IMPROVEMENTS
TYPICAL BULKHEAD PLAN AND SECTION
AFTER THE FACT PERMIT REQUEST

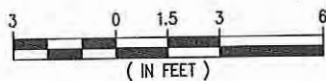
DATE MAY 2020
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JOB NO 11220
SHEET No.
9 OF 11



TYPICAL BARGE DOLPHIN PLAN
SCALE: 3/16"=1'-0"



TYPICAL BARGE DOLPHIN
SCALE: 3/16"=1'-0"



PROJECT SITE COORDINATES:
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BARGE FACILITY IMPROVMENTS
TYPICAL BARGE DOLPHIN
AFTER THE FACT PERMIT REQUEST

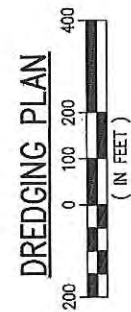
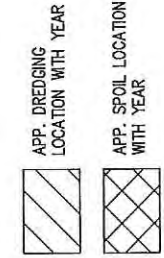
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10 OF 11

J:\110005\11220 VLA MARINEUSACE PERMITTING\DRAWINGS\AFTER THE FACT PERMIT DRAWINGS\11220-P11.DWG

NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN OCT. '17.
2. EXISTING HYDROGRAPHIC SURVEY INFORMATION GATHERED BY SOUTEX SURVEYORS & ENGINEERS IN OCT. '17.

PROJECT SITE COORDINATES:
29°57'42.14"N
93°51'35.61"W



DREDGE VOLUMES	
YEAR	QUANTITY
2011	5,900 CY (1.85 ac)
2012	2,400 CY (0.46 ac)
2015	1,100 CY (0.37 ac)
2016	11,600 CY (0.88 ac)
TOTAL	21,000 CY

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**BARGE FACILITY IMPROVMENTS
DREDGING PLAN
AFTER THE FACT PERMIT REQUEST**

DATE MAY 2020
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SHEET No.
11 OF 11