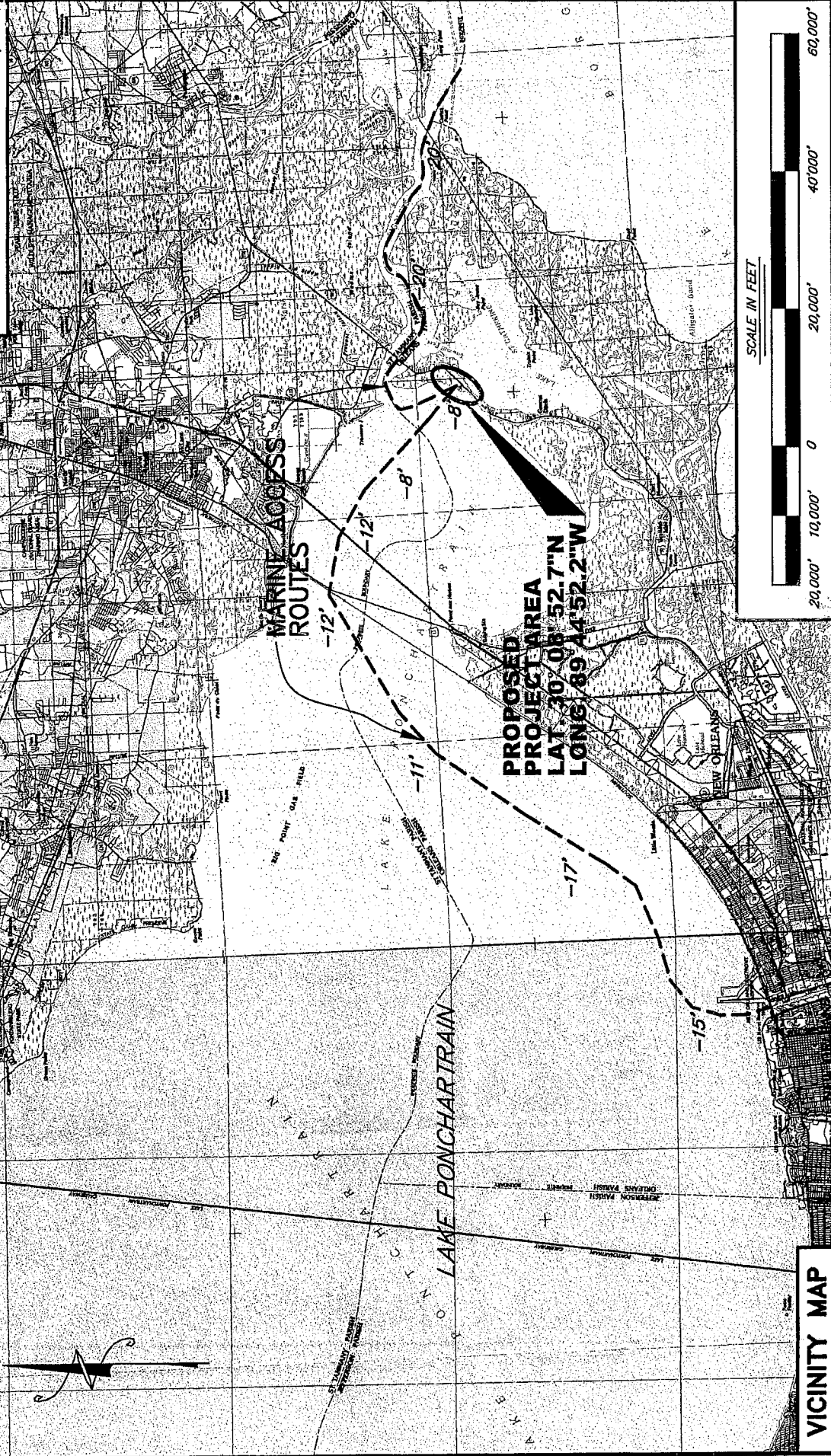


PROPOSED PROJECT IS LOCATED
APPROXIMATELY 6.5 MILES
SOUTH EASTERLY OF NORTHSORE, LA.



VICINITY MAP

PURPOSE: RECLAMATION OF ERODED LAND,
SHORELINE PROTECTION, MARSH RESTORATION,
AND BANKLINE STABILIZATION.

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

PERMIT PLAT

**PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

APPLICATION BY: CRX, LLC

REVISED: MARCH 21, 2012 - ADDED MARINE ACCESS ROUTE

DATE: MARCH 7, 2012

LAKE PONCHARTRAIN

C.A. ROBERTS SHORELINE FROM 1927 SURVEY
DIGITIZED FROM GANDOLFO KUHN SURVEY 2005

UNAUTHORIZED FILL,
PLACED IN 0.08 ACRES
OF OPEN WATER BOTTOMS.
PROPOSED TO REMAIN.
SEE PLACEMENT DETAIL;
SHEET 3 OF 9

EXISTING
PIER

EXISTING
BANKLINE

UNAUTHORIZED FILL
PROPOSED TO REMAIN,
0.76 ACRES. SEE
PLACEMENT DETAIL;
SHEET 3 OF 9

SECTION A-A
SEE SHEET 4 OF 9

MARSH RESTORATION AND
RECLAMATION 2.18 ACRES;
SEE RECLAMATION
SURVEY SHEET 8 OF 9

PROPOSED ACCESS DREDGING
AND FILL MATERIAL
53,263 CUBIC YARDS

0.24 ACRES OF MARSH
TO BE EXCAVATED FOR
ACCESS

PROPOSED
RECLAMATION: 5.47
ACRES; SEE RECLAMATION
SURVEY SHEET 8 OF 9

PROPOSED RIP RAP
PLACEMENT
8,500 CUBIC YARDS

PROPOSED RIP RAP
RECLAMATION .32 ACRES;
SEE TYPICAL SECTION B-B

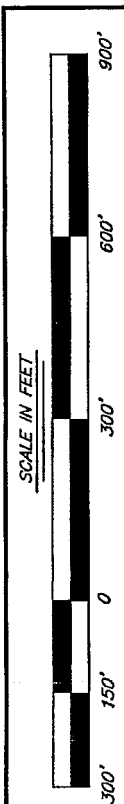
B

EXISTING
BANKLINE

CRX, LLC

LEGEND

- EXISTING MARSH
- MARSH RESTORATION
- PROPOSED ACCESS DREDGING
- RECLAMATION AREA
- PROPOSED RIP RAP
- UNAUTHORIZED FILL



LA HWY 90 / CHEF MENTEUR HWY

PLAN VIEW

PERMIT PLAT

PURPOSE: RECLAMATION OF ERODED LAND,
SHORELINE PROTECTION, MARSH RESTORATION,
AND BANKLINE STABILIZATION.

**PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

APPLICATION BY: CRX, LLC **REVISED:** MARCH 21, 2012 - REVISED NOTES & ADDED CROSS SECTIONS
JUNE 29, 2012 - ADDED ADDITIONAL CORP J.D. INFORMATION
DATE: MARCH 7, 2012

EXISTING
PIER

LAKE PONCHARTRAIN

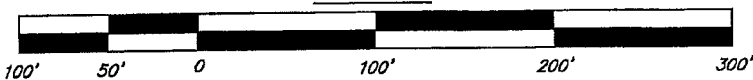
UNAUTHORIZED
FILL PLACED
ON OPEN WATER
BOTTOMS
APPROXIMATELY
100' X 33', PROPOSED
TO REMAIN0.01
ACRESUNAUTHORIZED FILL
PLACED IN OPEN WATER
BOTTOMS APPROXIMATELY
25' X 16', PROPOSED TO
REMAIN0.04
ACRESUNAUTHORIZED FILL PROPOSED
TO REMAIN, 0.76 ACRES.
SEE SECTION C-C SHEET 5 OF 9EXISTING
BANKLINE**NOTES:**

1. UNAUTHORIZED FILL ACTIVITY - SOURCE IS U. S. ARMY CORP OF ENGINEERS JURISDICTIONAL DETERMINATIONS MVN-2010-00670-SK AND MVN-2010-00668-SK.
2. 5,645 CUBIC YARDS (1.00 ACRES) OF UNAUTHORIZED FILL, DEPOSITED BY PREVIOUS OWNER, PROPOSED TO REMAIN IN PLACE.
3. SEE PERMIT APPLICATION PLAN VIEW SHEET 2 OF 9.

LEGEND:

UNAUTHORIZED FILL

SCALE IN FEET

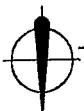
**DETAIL SHOWING
UNAUTHORIZED FILL
ACTIVITIES**

PURPOSE: RECLAMATION OF ERODED LAND,
SHORELINE PROTECTION, MARSH RESTORATION,
AND BANKLINE STABILIZATION.

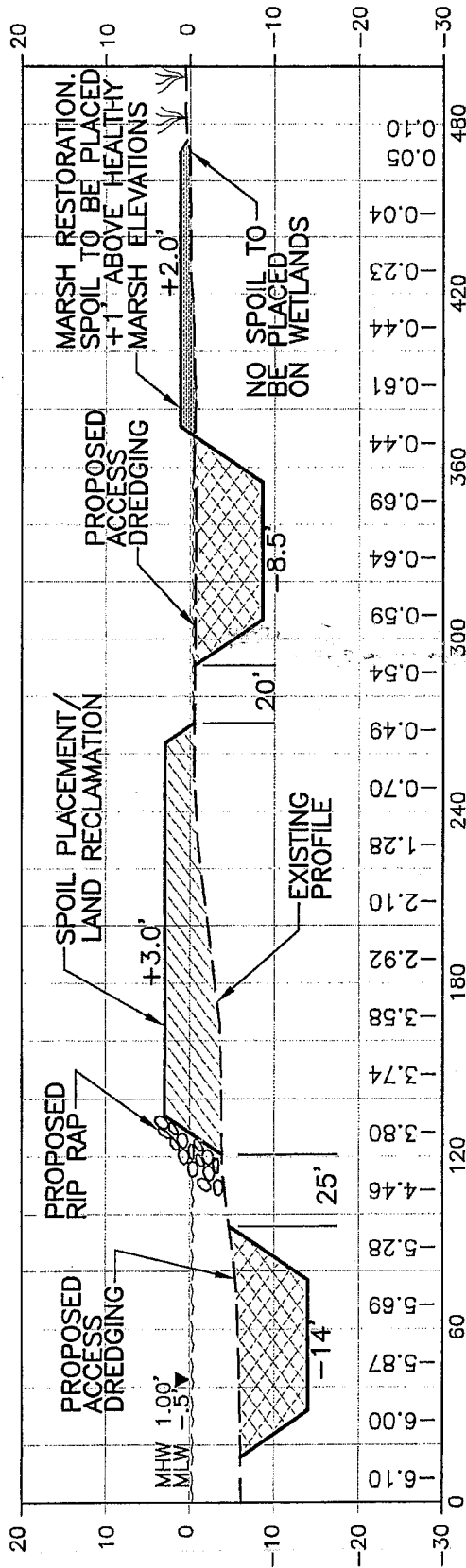
PERMIT PLAT

**PROPOSED RECLAMATION AND
SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

APPLICATION BY: CRX, LLC
DATE: JULY 2, 2012



LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.



SECTION A-A

LEGEND:

- PROPOSED DREDGE AREA
- PROPOSED FILL PLACEMENT
- MARSH CREATION
- PROPOSED RIP RAP

SCALE:
HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 20'

DATUM: NAVD 88

SECTION A-A

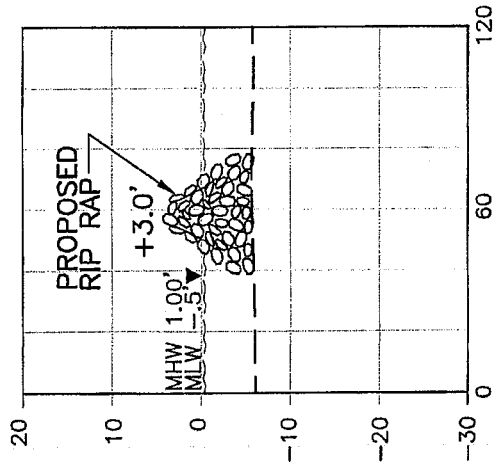
PERMIT PLAT

PURPOSE: RECLAMATION OF ERODED LAND, SHORELINE PROTECTION, MARSH RESTORATION, AND BANKLINE STABILIZATION.

**PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

APPLICATION BY: CRX, LLC
DATE: MARCH 7, 2012
REVISED: MARCH 21, 2012 - REVISED NOTES



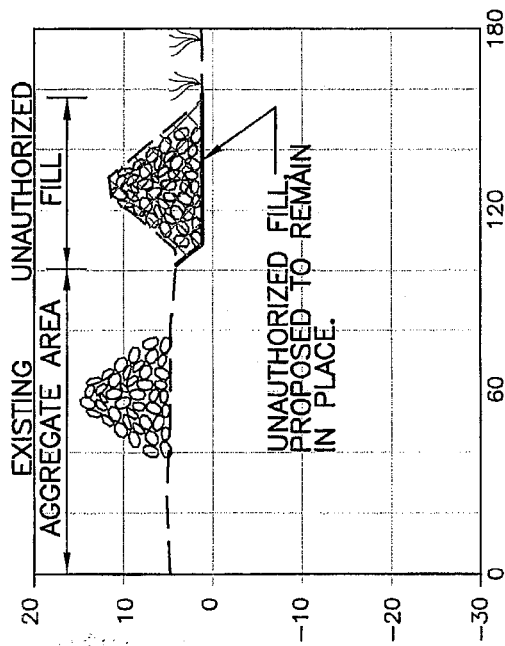
SECTION B-B

SCALE:
HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 20'

DATUM: NAVD 88





PURPOSE: RECLAMATION OF ERODED LAND,
SHORELINE PROTECTION, MARSH RESTORATION,
AND BANKLINE STABILIZATION.

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.



SECTION C-C

LEGEND:

-  PROPOSED DREDGE AREA
-  PROPOSED FILL PLACEMENT
-  MARSH CREATION
-  PROPOSED RIP RAP

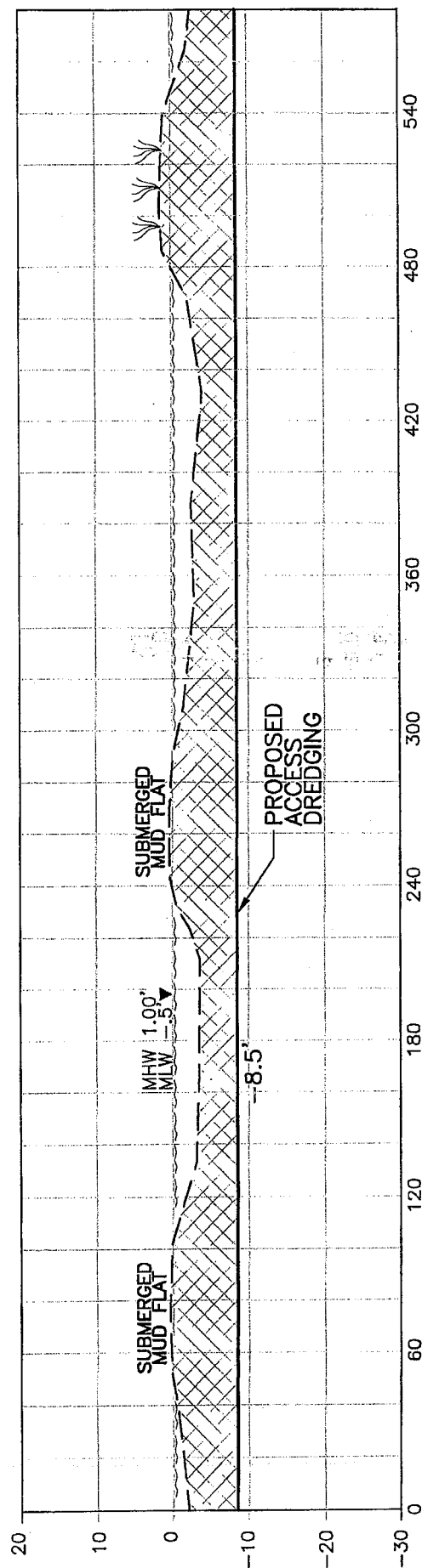
SECTION A-A

PERMIT PLAT

**PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**





APPLICATION BY: CRX, LLC
DATE: MARCH 21, 2012

REVISED: JUNE 29, 2012 - REVISED NOTES



SECTION D-D

LEGEND:

-  PROPOSED DREDGE AREA
 PROPOSED FILL PLACEMENT
 MARSH CREATION
 RIP RAP

SCALE:
HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 20'

DATUM: NAVD 88

SECTION A-A

PERMIT PLAT

PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA

APPLICATION BY: CRX, LLC
DATE: MARCH 21, 2012

PURPOSE: RECLAMATION OF ERODED LAND, SHORELINE PROTECTION, MARSH RESTORATION, AND BANKLINE STABILIZATION.



LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

GENERAL NOTES AND QUANTITIES:**EXCAVATION:**

1. 53,263 CUBIC YARDS OF WATER BOTTOMS (5.02 ACRES) AND .24 ACRES OF MARSH TO BE EXCAVATED FOR FILL MATERIAL AND ACCESS DREDGING. EXCAVATED MATERIAL TO BE USED FOR FILL IN LAND RECLAMATION AND MARSH RESTORATION.

FILL:

1. 61,763 CUBIC YARDS OF COMBINED FILL MATERIALS TO BE PLACED ON 8.05 ACRES OF WATER BOTTOMS. 53,263 CUBIC YARDS OF EXCAVATED MATERIAL AND 8,500 CUBIC YARDS OF RIP RAP.

A. REQUIRED 48,100 CUBIC YARDS OF EXCAVATED MATERIAL AND 6,000 CUBIC YARDS OF RIP RAP TO BE PLACED ON 5.47 ACRES OF WATER BOTTOMS FOR LAND RECLAMATION AS SHOWN ON PLAN VIEW SHEET 2 OF 6. 48,100 CUBIC YARDS OF MATERIAL ARE AVAILABLE FOR EXCAVATION.

B. REQUIRED 5,163 CUBIC YARDS OF EXCAVATED MATERIAL TO BE PLACED ON 2.18 ACRES OF WATER BOTTOMS FOR 2.18 ACRES OF MARSH RESTORATION AS SHOWN ON PLAN VIEW SHEET 2 OF 6. 5,163 CUBIC YARDS OF MATERIAL ARE AVAILABLE FOR EXCAVATION.

C. 2,500 CUBIC YARDS OF RIP RAP TO BE PLACED ON .32 ACRES OF WATER BOTTOMS FOR SHORELINE STABILIZATION AS SHOWN ON PLAN VIEW SHEET 2 OF 6.

D. 5,005 CUBIC YARDS (.76 ACRES) OF UNAUTHORIZED FILL ACTIVITIES IN WETLANDS, DEPOSITED BY PREVIOUS OWNER, PROPOSED TO REMAIN IN PLACE, AS SHOWN ON PLAN VIEW SHEET 2 OF 6.

E. 640 CUBIC YARDS (.08 ACRES) OF UNAUTHORIZED FILL ACTIVITIES IN SECTION 10 WATERS, DEPOSITED BY PREVIOUS OWNER, PROPOSED TO REMAIN IN PLACE, AS SHOWN ON PLAN VIEW SHEET 2 OF 6.

GENERAL NOTES:

1. REFERENCE U. S. ARMY CORP OF ENGINEERS JURISDICTIONAL DETERMINATION MVN-2010-00670-SK AND MVN-2010-00668-SK FOR UNAUTHORIZED FILL ACTIVITIES AND JURISDICTIONAL DETERMINATION.

2. SPOIL SHALL BE PLACED TO A FINISH GRADE OF +3.0' ON LAND TO BE RECLAIMED.

3. LAND TO BE RECLAIMED SHALL NOT EXCEED THE 1927 SHORELINE AS SHOWN ON SHEET 5 OF 6.

4. MEAN HIGH WATER (MHW) 1.00', MEAN LOW WATER (MLW) -.5', NAVD 88.

5. SITE IS ACCESSIBLE FOR MARINE VESSELS FROM THE RIGOLETS OR INDUSTRIAL CANAL. WATER DEPTHS GREATER THAN -8' ARE PRESENT ALONG NAVIGATION ROUTES. MAXIMUM VESSEL DRAFTS SHALL NOT EXCEED -7'.

GENERAL NOTES AND QUANTITIES

PURPOSE: RECLAMATION OF ERODED LAND, SHORELINE PROTECTION, MARSH RESTORATION, AND BANKLINE STABILIZATION.

PERMIT PLAT

**PROPOSED RECLAMATION AND
SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

APPLICATION BY: CRX, LLC
DATE: MARCH 7, 2012

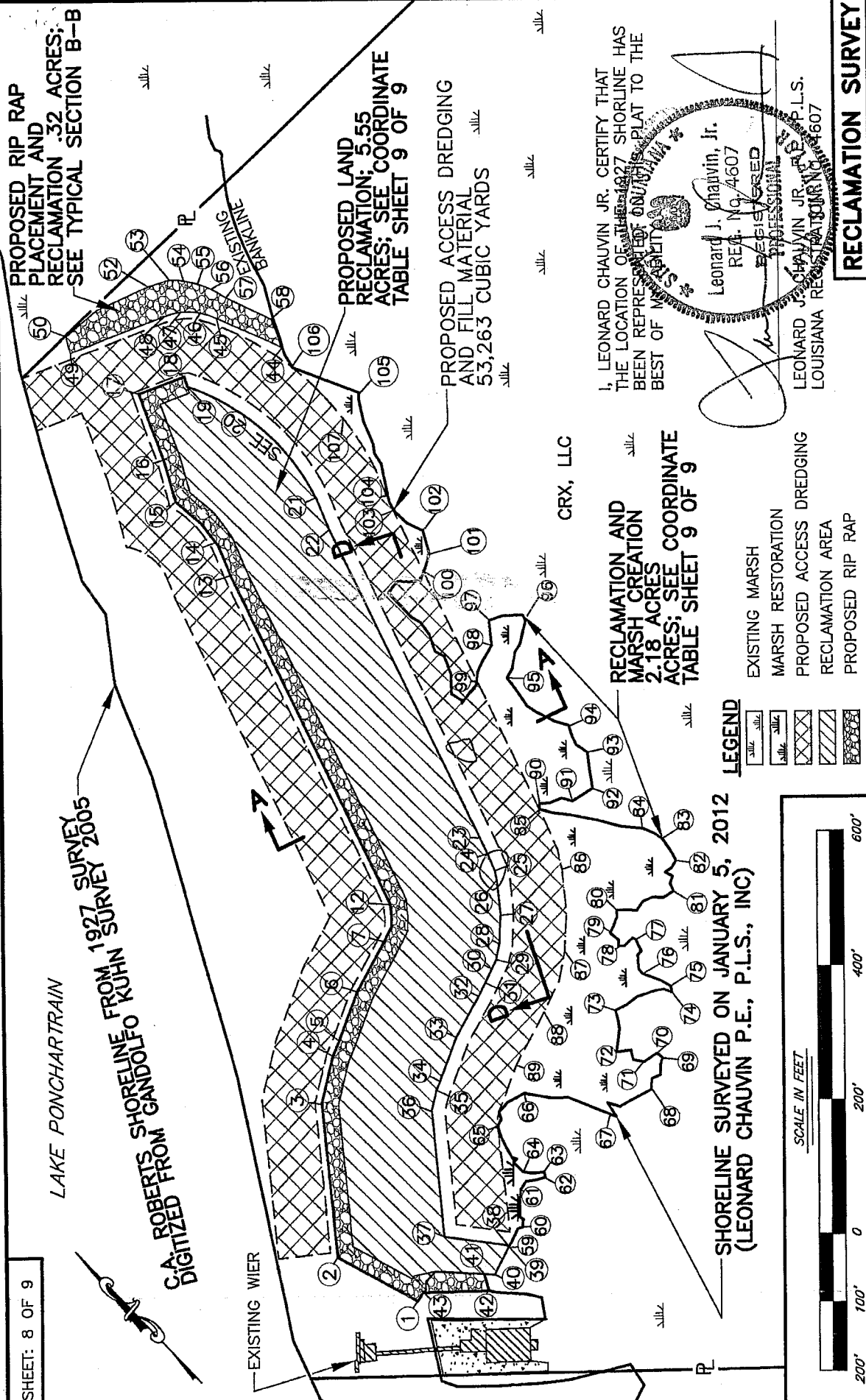
REVISED: MARCH 21, 2012 -- REVISED NOTES
JUNE 29, 2012 -- REVISED NOTES
JULY 9, 2012 -- REVISED NOTES



LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

LAKE PONCHARTRAIN

C.A. ROBERTS SHORELINE FROM 1927 SURVEY 2005
DIGITIZED FROM GANDOLFO KUHN SURVEY 2005



SHORELINE SURVEYED ON JANUARY 5, 2012
(LEONARD CHAUVIN P.E., P.L.S., INC.)



LEGEND

- EXISTING MARSH
- MARSH RESTORATION
- PROPOSED ACCESS DREDGING
- RECLAMATION AREA
- PROPOSED RIP RAP

I, LEONARD CHAUVIN JR. CERTIFY THAT THE LOCATION OF THE 1927 SHORLINE HAS BEEN REPRESENTED ON THIS PLAT TO THE BEST OF MY KNOWLEDGE.

Leonard J. Chauvin, Jr.
REG. NO. 4607
PROFESSIONAL ENGINEER

LEONARD J. CHAUVIN JR., P.E., P.L.S.
LOUISIANA REGISTRATION NO. 4607

RECLAMATION SURVEY

PERMIT PLAT

**PROPOSED RECLAMATION AND SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

REVISOR: MARCH 21, 2012 - REVISED NOTES & ADDED CROSS SECTIONS B & D
JULY 9, 2012 - REVISED RECLAMATION SURVEY TO INCLUDE RIP RAP ON NORTHEASTERN END OF PROJECT AND ALONG LAND RECLAMATION

APPLICATION BY: CRX, LLC
DATE: MARCH 7, 2012

PURPOSE: RECLAMATION OF ERODED LAND, SHORELINE PROTECTION, MARSH RESTORATION, AND BANKLINE STABILIZATION.

COORDINATE TABLE:

PO. NUM.	X-COORD.	Y-COORD.	BEARING	DISTANCE
1	3781378.94	602115.90	N16°57'56"W	138.25'
2	3781338.60	602248.13	N39°05'13"E	227.88'
3	3781482.28	602425.01	N58°44'06"E	73.74'
4	3781545.31	602463.28	N66°09'46"E	103.08'
5	3781639.60	602504.94	N73°30'50"E	97.54'
6	3781733.13	602532.62	N47°40'02"E	11.09'
7	3781744.71	602536.72	N38°34'16"E	22.17'
8	3781752.91	602544.19	N20°33'22"E	3.42'
9	3781766.73	602561.52	N18°50'19"E	23.78'
10	3781767.93	602564.72	N18°44'45"E	518.56'
11	3781775.61	602587.23	N22°24'18"E	48.83'
12	3781942.26	603078.28	N07°35'07"E	41.21'
13	3781960.87	603123.42	N04°39'36"E	50.96'
14	3781966.31	603164.27	N29°02'05"E	64.24'
15	3781962.17	603215.06	N24°17'25"E	105.58'
16	3781993.35	603271.26	S65°26'06"E	73.17'
17	3782036.78	603367.46	S26°19'41"W	15.13'
18	3782103.33	603337.04	S15°34'13"W	130.91'
19	3782096.62	603323.48	S22°24'10"W	50.96'
20	SEE CUREVE DATA BELOW			
21	3782116.24	603067.38	S22°24'08"W	50.96'
22	3782096.82	603020.27	S18°44'49"W	513.43'
23	3781931.81	602534.08	S18°50'30"W	26.29'
24	3781923.32	602509.20	S20°28'32"W	27.53'
25	3781913.69	602483.41	S33°02'49"W	14.58'
26	3781905.74	602471.19	S38°34'22"W	51.35'
27	3781873.72	602431.04	S47°40'21"W	42.92'
28	3781841.99	602402.14	S55°54'44"W	23.98'
29	3781822.13	602388.70	S71°50'58"W	15.92'
30	3781807.00	602383.74	S70°30'00"W	22.80'
31	3781785.51	602376.13	S72°28'19"W	22.58'
32	3781763.98	602369.33	S73°44'40"W	69.77'
33	3781697.00	602349.80	S65°38'46"W	70.13'
34	3781633.11	602320.88	S67°48'58"W	14.46'
35	3781619.72	602315.42	S58°44'30"W	32.03'
36	3781592.34	602298.80	S39°05'18"W	186.26'
37	3781474.90	602154.23	S36°53'02"E	97.92'
38	3781533.67	602075.91	S22°25'59"W	2.36'
39	3781532.77	602073.73	S72°22'21"W	46.00'
40	3781488.93	602059.80	N41°30'56"W	16.52'
41	3781477.98	602072.17	N28°29'38"W	25.51'
42	3781465.81	602049.75	N46°21'17"W	99.60'
43	3781393.74	602118.49	N80°04'26"W	15.02'
44	3782239.16	603262.92	N21°40'34"W	108.43'
45	3782199.11	603363.68	N26°16'55"W	25.07'
46	3782188.01	603386.16	N43°01'21"W	30.20'
47	3782167.40	603408.24	N59°56'30"W	25.66'
48	3782145.19	603421.09	N65°41'14"W	152.31'
49	3782006.39	603483.80	N30°48'21"E	25.16'
50	3782019.28	603505.41	S84°56'36"E	60.49'
51	3782079.54	603500.08	S69°33'13"E	85.71'
52	3782159.84	603470.14	S62°47'33"E	33.42'
53	3782189.56	603454.86	S41°12'01"E	21.80'
54	3782203.92	603438.46	S32°26'29"E	21.80'
55	3782215.61	603420.07	S23°40'58"E	21.80'

DATUM: NAD 83

COORDINATE TABLE:

PO. NUM.	X-COORD.	Y-COORD.	BEARING	DISTANCE
56	3782224.37	603400.11	S14°55'26"E	21.80'
57	3782229.98	603379.04	S19°43'25"E	79.17'
58	3782256.70	603304.52	S22°51'59"W	45.14'
59	3781532.86	602073.67	N81°42'11"E	35.83
60	3781568.31	602078.84	N42°01'15"E	56.57
61	3781606.25	602120.94	S70°01'08"E	40.61
62	3781644.46	602107.16	N34°24'06"E	8.70
63	3781649.37	602114.34	N44°54'51"W	33.20
64	3781625.93	602137.85	N15°59'25"E	76.57
65	3781647.03	602211.46	N84°34'08"E	63.61
66	3781710.35	602217.48	S31°30'59"E	133.81
67	3781780.30	602103.41	S74°26'24"E	72.81
68	3781850.44	602083.88	N65°20'08"E	50.08
69	3781895.94	602104.77	N04°17'07"W	10.91
70	3781895.13	602115.65	N77°11'01"W	23.26
71	3781872.45	602120.81	N25°36'21"W	44.42
72	3781853.25	602160.87	N43°08'11"E	62.17
73	3781895.76	602206.24	S62°14'38"E	90.41
74	3781975.77	602164.13	N33°27'19"E	9.33
75	3781980.91	602171.92	N21°18'28"W	46.66
76	3781963.96	602215.39	N33°53'08"E	52.41
77	3781993.18	602258.89	N64°19'32"W	29.07
78	3781966.97	602271.49	N11°55'15"E	23.20
79	3781971.77	602294.18	N59°56'11"E	35.38
80	3782002.38	602311.91	S62°21'11"E	92.05
81	3782083.93	602269.19	N48°50'09"E	44.83
82	3782117.67	602298.70	N14°19'35"E	36.94
83	3782126.81	602334.49	N17°00'12"W	35.99
84	3782116.29	602368.90	N34°39'24"W	158.11
85	3782026.37	602498.97	S24°32'59"W	94.94
86	3781986.93	602412.61	S42°51'53"W	121.84
87	3781904.05	602323.31	S64°09'51"W	96.42
88	3781817.26	602281.29	S73°21'26"W	89.19
89	3781731.81	602255.74	S62°25'09"W	95.65
90	3782031.72	602505.26	S49°46'04"E	50.17
91	3782070.02	602472.86	S76°20'47"E	35.68
92	3782104.69	602464.44	N36°56'20"E	53.91
93	3782137.09	602507.52	N08°46'28"E	49.13
94	3782144.58	602556.08	N07°06'20"W	117.73
95	3782130.02	602672.91	N63°21'23"E	97.08
96	3782216.78	602716.44	N51°51'45"W	58.21
97	3782171.01	602752.38	S38°55'28"W	36.80
98	3782147.90	602723.77	S68°26'29"W	57.20
99	3782094.70	602702.75	S17°41'18"W	207.29
100	3782153.10	602874.95	N63°12'37"E	27.36
101	3782177.52	602887.28	N30°35'10"E	36.35
102	3782196.02	602918.57	N10°42'36"W	54.13
103	3782185.96	602971.76	S18°44'48"W	102.23
104	3782193.95	602993.51	N29°50'36"E	159.88
105	3782273.52	603132.20	N24°12'54"W	109.72
106	3782228.51	603232.26	S00°50'09"E	108.68
107	3782230.10	603123.59	S15°31'46"W	135.01

	CHORD BEARING & LENGTH	RADIUS	ARC LENGTH
20	S04°22'51"E - 256.85'	396.04'	261.58'

COORDINATE TABLE

PURPOSE: RECLAMATION OF ERODED LAND,
SHORELINE PROTECTION, MARSH RESTORATION,
AND BANKLINE STABILIZATION.

PERMIT PLAT

**PROPOSED RECLAMATION AND
SHORELINE STABILIZATION
LOCATED SECTION 36, T10S-R14E
ORLEANS PARISH, LOUISIANA**



LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON STREET THIBODAUX, LA.

APPLICATION BY: CRX, LLC **REVISED:** JULY 9, 2012 - REVISED RECLAMATION
DATE: MARCH 7, 2012 **SURVEY COORDINATES**