# ATTACHMENT X LAKE CHAPEAU MARSH CREATION AND HYDROLOGIC RESTORATION

## **AS-BUILT DRAWINGS**

## U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL MARINE FISHERIES SERVICE

and

STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL RESTORATION DIVISION

Plans of Proposed

TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT

TERREBONNE PARISH

MAY 2003

As-Builts (11/02/04) -> Laigha de Ber cadas as noted en Flens

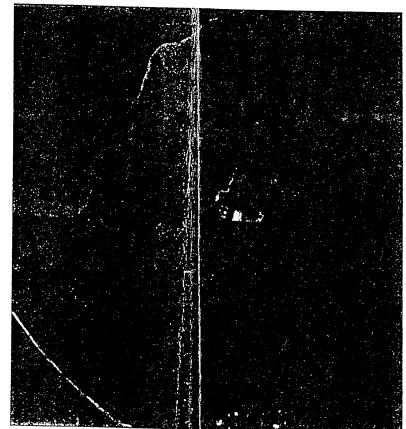
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SHEET NO.	DESCRIPTION:
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2	GENERAL NOTES AND ESTIMATED QUANTITIES
3	OVERALL PROJECT SITE PLAN
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8	TYPICAL BARRICADE - PLAN & ELEVATION VIEWS
9	TYPICAL BRACKET/PIPE DETAILS
10	TYPICAL SIGN ATTACHMENT DETAILS

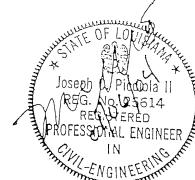
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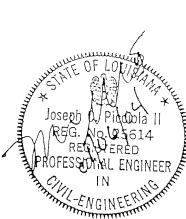
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7. 江南东东城市	為我的政治學是不過一個的學術。
なる。	



LOCATION MAP

NOT TO SCALE







RECOMMENDED FOR APPROVAL

ARKANSAS

DNR/CRD ENGINEER MANAGER

DATE

DNR/CRD ENGINEER MANAGER

PREPARED BY:



## PICCIOLA & ASSOCIATES, INC.

LAND SUPVESTIGATE

NAVAL ARCHITECTS MARINE ENGINEERS

P.O BOY 687 FUT OFF, LOUISIA W. 70345 (985) 632-5786

DRAWING PLOTTED AT HALF-SCALE

ITEM NO.	DESCRIPTION	LINIT	OLUMNITI
<del></del>	MOBILIZATION AND DEMOBILIZATION		300
	MODILE THOU NEW DEMOBILIZATION	LUMP SUM	LUMP SU
2	REMOVAL OF EXISTING WARNING BUDY STRUCTURES		
		LUMP SUM	LUMP SU
3	TIMBER PILINGS (CLASS "B", 20 lb. Creceote) 20' LONG	LIN. FT.	1400
	I IMPER FRANCIS (CLASS R" 20 % Comments) To I follow	LIN. FT.	1000
	TIMBER PILINGS (CLASS "B", 20 b. Creosote) 40' LONG	LIN. FT.	1740 880
4	PILING CAPS (GALVANIZED)		000
	TIME OF A CONTAMINED	EACH	184
5	FABRICATED BRACKETS (HOT DIPPED GALVANIZED)		
	W/(2) 5/8"x12" GALV. BOLTS, NUTS & WASHERS PER UNIT	EACH	328
	1	<del></del>	
8	4" GALY, SCH, 40 PIPE	LIN, FT,	2,831'
7	WARNING SIGNS		2,001
<del></del>	HAMMING SIGNS	EACH	22
8	RETROFLECTME TAPE		
		LUMP SUM	LUMP SUI
		<del>-</del>	
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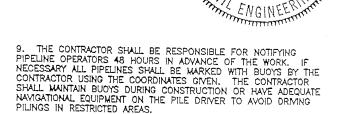
#### GENERAL NOTES:

- 1. BASIC HORIZONTAL AND VERTICAL CONTROL POINTS HAVE BEEN ESTABLISHED OR DESIGNATED BY THE ENGINEER AND ARE SHOWN ON THE PLANS. CONTRACTOR SHALL MAINTAIN AND PROTECT FROM DAVAGING OR DISLOCATING THESE CONTROLS AND SHALL PERFORM ALL ADDITIONAL SURVEY, LAYOUT, AND MEASUREMENT WORK USING
- 2. CONTRACTOR SHALL VERIFY EXISTING GRADES, ELEVATIONS, AND LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, RULES AND REGULATIONS OF THE LOUISIANA STATE POLICE, THE TERREBONNE AND ST. MARY PARISH SHERIFF'S OFFICES, DNR, USCG, FEDERAL AUTHORITIES, STATE AND PARISH HEALTH DEPARTMENTS AND OTHER STATE OR PARISH AUTHORITIES HAVING REGULATIONS AND JURISDICTIONAL RIGHTS APPLICABLE TO THE WORK OR JOB SITES.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND PARISH LAWS CONCERNING POLLUTION OF WATERWAYS, AND PROTECTION OF SHELLFISH, FISH, WATERFOWL, WILDLIFE AND
- 5. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH BOTH THROUGH AND LOCAL WARINE TRAFFIC.
- 6. CONTRACTOR SHALL EMPLOY EFFECTIVE MEASURES TO CONTROL EROSION OF NATURAL AND CONSTRUCTED SURFACES.
- 7. THE SAFETY HAZARDS PROMULGATED BY AND THE PRECAUTIONS DEFINED WITHIN SAME OF THE OSHA, THE USCG AND ALL OTHER REGULATING AUTHORITY HAVING JURISDICTION AND THAT ARE APPLICABLE TO THE WORK SHALL BE ADHERED TO AND ENFORCED BY
- 8. TEMPORARY UTILITIES AND SANITARY FACILITIES FOR OPERATION OF THE CONTRACTOR'S PLANT OR EQUIPMENT SHALL BE PROMDED AND MAINTAINED AT THE EXPENSE OF THE CONTRACTOR.
- COASTAL USE PERMITS WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER PERMITS.

- 10. CONSTRUCTION SERVITUDES FOR ALL WORK AND RIGHT-OF-ENTRY ONTO THE SITE WILL BE PROVIDED BY OWNER.
- 11. ALIGNMENTS AND/OR ELEVATIONS MAY BE ADJUSTED IN THE FIELD BY THE PROJECT ENGINEER TO MEET CHANGING FIELD CONDITIONS OR TO BETTER ASSURE ACCOMPLISHMENT OF PROJECT OBJECTIVES. ANY ADDITIONAL QUANTITIES WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE SPECIFIC ITEM.
- 12. CONTRACTOR SHALL NOT BE ALLOWED TO IMPEDE DRAINAGE DURING RAINSTORMS OR WHEN A RAINSTORM IS IMMINENT.
- 13. DUE TO CHANGING FIELD CONDITIONS, SHORELINES SHALL NOT BE USED AS CONSTRUCTION REFERENCE POINTS.
- 14. X AND Y COORDINATES ARE BASED ON NAD 83; LATITUDES AND LONGITUDES ARE BASED ON NAD 83; ELEVATIONS ARE BASED ON NGVD 88; SOUNDINGS REFERENCE WATER LEVEL SHOWN.

#### **TECHNICAL NOTES:**

- 1. WARNING SIGNS WILL BE INSTALLED ON EACH COMPLETED BARRICADE AND WILL BE FACING AWAY FROM THE PLUG AS SHOWN ON THE DRAWINGS. SIGNS SHALL CONFORM TO COAST GUARD STANDARD 33CFR 330.4 (a) (1). EACH WARNING SIGN SHALL HAVE A 2" ORANGE BORDER OF RETROFLECTIVE MATERIAL LETTERING WILL BE BLACK ON A FIELD OF RETROFLECTIVE MATERIAL.
- 2. IN ADDITION TO WARNING SIGNS, RETROFLECTIVE TAPE SHALL BE WRAPPED AROUND EACH PIPE BETWEEN PILINGS AS SHOWN ON
- 3. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE WARNING SIGN AND GALVANIZED BOLTS AT ALL POINTS OF CONTACT.
- 4. THE CONTRACTOR IS NOTIFIED THAT THE WORK SITE IS ACCESSED THROUGH THE ATCHAFALAYA DELTA WILDLIFE MANAGEMENT AREA UNDER THE JURISDICTION OF THE LOUISMAN DEPARTMENT OF WILDLIFE THE LOUISMAN DEPARTMENT OF WILDLIFE THE LOUISMAN DEPARTMENT OF WILDLIFE THE MANAGEMENT OF WILDLIFE THE WORK OF WILDLIFE THE WILDLIFE THE WORK OF WILDLIFE THE AND FISHERIES. ALL PERSONNEL SHALL ABIDE BY THE MANAGEMENT AREA RULES AND REGULATIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT AREA.
- 6. THE CONTRACTOR IS NOTIFIED THAT THE PROJECT SITE IS TOTALLY ON OR ADJACENT TO PRIVATE OR STATE PROPERTY. EXTREME CAUTION SHALL BE EXERCISED IN PROTECTION OF PROPERTY, HABITAT AND WILDLIFE FROM DAMAGE OR HARM.
- 7. THE CONTRACTOR IS NOTIFIED THAT HE WILL BE CONDUCTING HIS OPERATIONS IN THE VICINITY OF UTILITIES, PIPELINES, FLOWLINES, OIL AND GAS STRUCTURES AND OTHER MINERAL OPERATIONS. THE CONTRACTOR SHALL LOCATE ALL SUCH STRUCTURES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR'S EXPENSE.
- 8. A LISTING OF ALL COMPANIES KNOWN TO BE CONDUCTING MINERAL OPERATIONS AND HAVE ACTIVE WELLS AND/OR PIPELINES IN THE VICINITY WILL BE PROVIDED FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHETHER THERE ARE OTHERS. LOUISIANA ONE CALL CAN BE CONTACTED AT 1-800-272-3020.



#### LAND MANAGER:

ALLAN ENSMINGER (337) 462-0762

DRAWING PLOTTED AT HALF-SCALE

DATE APRIL 27, 2003 2 or 10

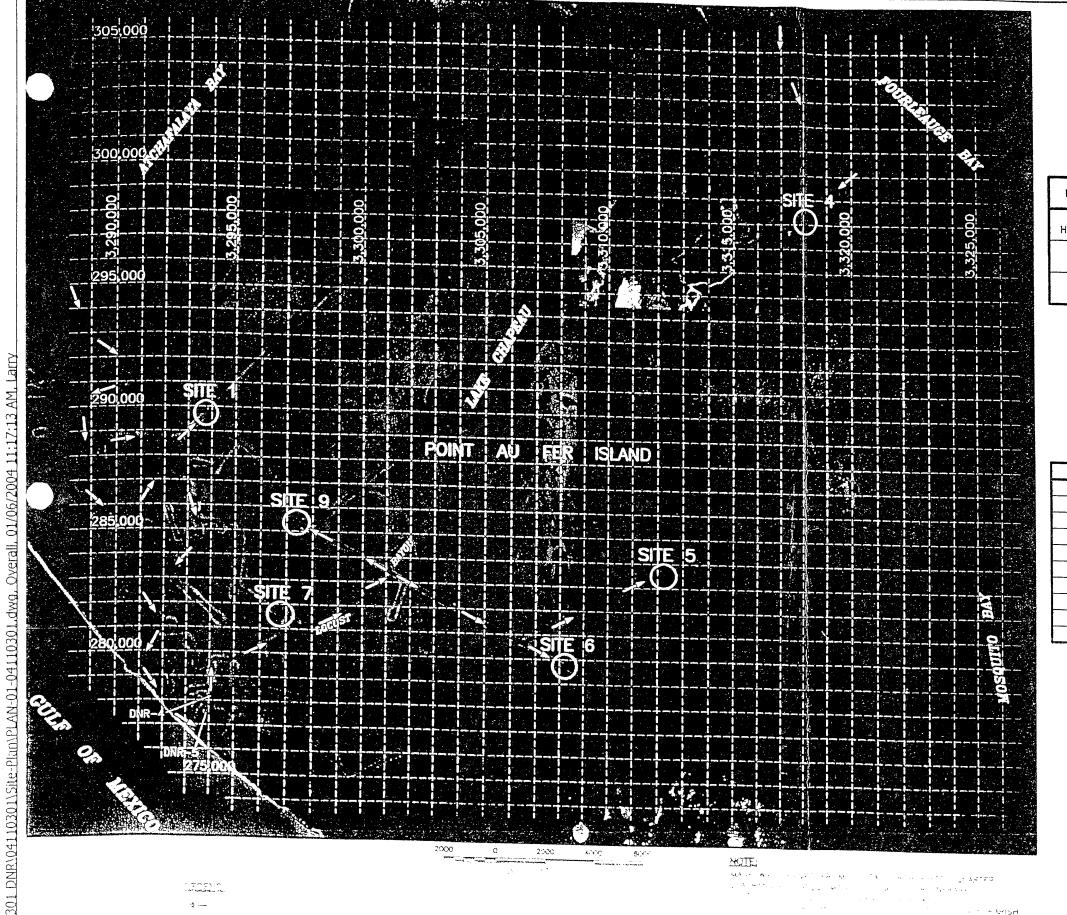
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	STATE OF LOUISIANA DEPARTMENT OF NATURAL RE COASTAL RESTORATION DA	
-	TE-26 LAKE CHAPEAU WARNING BUOY REPLACEME	ENT
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	PICCIOLA & ABSOCIATES, 8 CHIL DIA, IMANI, IMANIE DIGHEDIS, P.O. BOX 887 CUT OFF, LL 7034 PHOME (1865) 832-8788 FIX (1865)	LUHID SURVICYORS
· ·		· SHEET HO.

LM.C.

J.C.P.

DETABLEDS

CHECKETO



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01/06/2004

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## DESCRIPTION OF THE BENCHMARK ON WHICH THE SURVEY IS BASED:

MON. #1 (HESTER CANAL), 4" ALUM. DISK ON TOP
OF 20" STAINLESS ROD. ROD & DISK SET INSIDE OF A
6"x6" P.V.C. PIPE DRIVEN TO 15" ABOVE TOP OF SPOIL BANK.
SURROUNDED BY CONCRETE STAMPED "LA DNR CRD TE-22/24 G.P.S. #1"

INFORMATION SUPPLIED BY T. BAKER SMITH & SON, INC. (BK. #2243, PG. #5)

#### DESCRIPTION OF CONTROL USED ON THIS JOB:

DNR-4 = CROSS-MARK ON CONC. PLATFORM DNR-5 = CROSS-MARK ON CONC. PLATFORM

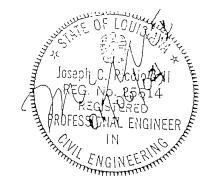
DESCRIPTION	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	"X" (NAD 1963)	(NAD 1963)	ELEVATION (N.A.V.D) (VERT. 1988)
MON. #1 HESTER CANAL	29'15'30.13080"	91'11'12.92542"	3,327,521.21921	275,827.52598	2.188'
DNR-4	29*15'53.89953*	91'17'29.28324"	3,294,184.61274	278,201.11664	8.164'
DNR-5	29"15'47.85744"	91'17'32.21430"	3,293,923.44575	277,590.68569	9.064'

#### GEOGRAPHIC LOCATION OF SURVEY CONTROL POINTS

NOTES: CONTROL POINTS ARE 1/2\*x5' LONG RE-BARS DRIVEN VERTICALLY TO WITHIN 1/2" OF BEING FLUSH WITH SURFACE OF GROUND. DRAWING POINT NUMBER WATCHES SITE NUMBER.

COORDINATES REFER TO LOUISIANA SOUTH ZONE NAD 83 AND ELEVATIONS REFER TO NAVD 88

SITE NO.	X-COORD.	Y-COORD.	ELEV.	REMARKS	
1	3,293,598.93	298,723.04	1.39	NORTH SIDE OF WATERWAY	
4	3,318,220.71	297,923.68	1,34	SOUTH SIDE OF WATERWAY	
5	3,312,130.68	283,531.24	2.08	WEST SIDE OF WATERWAY	
6	3,308,133.92	279,687.34	1.61	SOUTH SIDE OF WATERWAY	
7	3,296,770.11	281,469.97	1.39	SOUTH SIDE OF WATERWAY	
9	3,297,360.45	285,240.30	2.54	SOUTH SIDE OF WATERWAY	



DRAWING PLOTTED AT HALF-SCALE

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STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TE-28 LAKE CHAPEAU WARNING BUOY REPLACEMENT

OVERALL PROJECT SITE PLAN

PICCICLA & ASSOCIATES, INC.
CHL DIG., IMMA INCHITETE, IMMARE DIGINIZES, LING SURVICIORS
PLOS BOX 887 CUT OFF, LA 70346
PHONE (865) 832-8786 PIX (865) 832-2407

DESIGNED: J.C.P. SCALD AS SHOWN SHEET HO. DETALIDE LINIC. DATE APROL 27, 2003 3 OF 10

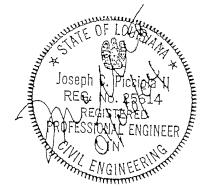
#### LEGENO:

- EXISTING WARNING SIGNS (TO REMAIN)

#### GENERAL NOTES:

1. CONTRACTOR SHALL NOT DISTURB OR IN ANY WAY DAMAGE THE EXISTING SHELL PLUG AT EACH SITE WHILE CONSTRUCTING BARRICADES.

- 2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SHELL PLUG TOE BEFORE FINAL LOCATION OF BARRICADE IS DETERMINED.
- 3. CONTRACTOR SHALL NOT REMOVE OR DISTURB THE EXISTING WARNING SIGNS THAT ARE INSTALLED ON THE EXISTING SHELL PLUGS.
- 4. CONTRACTOR SHALL REMOVE THE EXISTING WARNING BUOY UNITS AT EACH SITE. THIS INCLUDES THE BUOYS, CABLES AND PIPES THAT WERE INSTALLED TO RETAIN THE BUOYS.
- 5. ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH TITLE 33, PART VII, SUB-PART 1 (SOLID WASTE) OF THE LOUISIANA ENVIRONMENTAL REGULATORY CODE, LATEST EDITION. CONTRACTOR SHALL NOTIFY ENGINEER IN WIRTING OF HIS METHOD AND LOCATION OF DISPOSAL.
- 6. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY SUB-SURFACE PIPELINES ON STRUCTURES THAT MAY BE AT OR NEAR EACH SITE. CONTRACTOR SHALL WORK CLOSELY WITH ANY COMPANY THAT MAY HAVE SUCH PIPELINES OR STRUCTURES IN THE AREA LOUISIANA ONE CALL CAN BE CONTACTED AT 1-800-272-3020.
- 7. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL HOTES.



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M(Y,	DATE	ROMANICS	BY
(		STATE OF LOUISIANA THIENT OF NATURAL RESC ASTAL RESTORATION DIVIS	
		TE-26 LAKE CHAPEAU	
		STREET, WILLIAM PROJECT PUPPER LAPERITY	•

WARNING BUOY REPLACEMENT

PLAN VIEW - STE 1

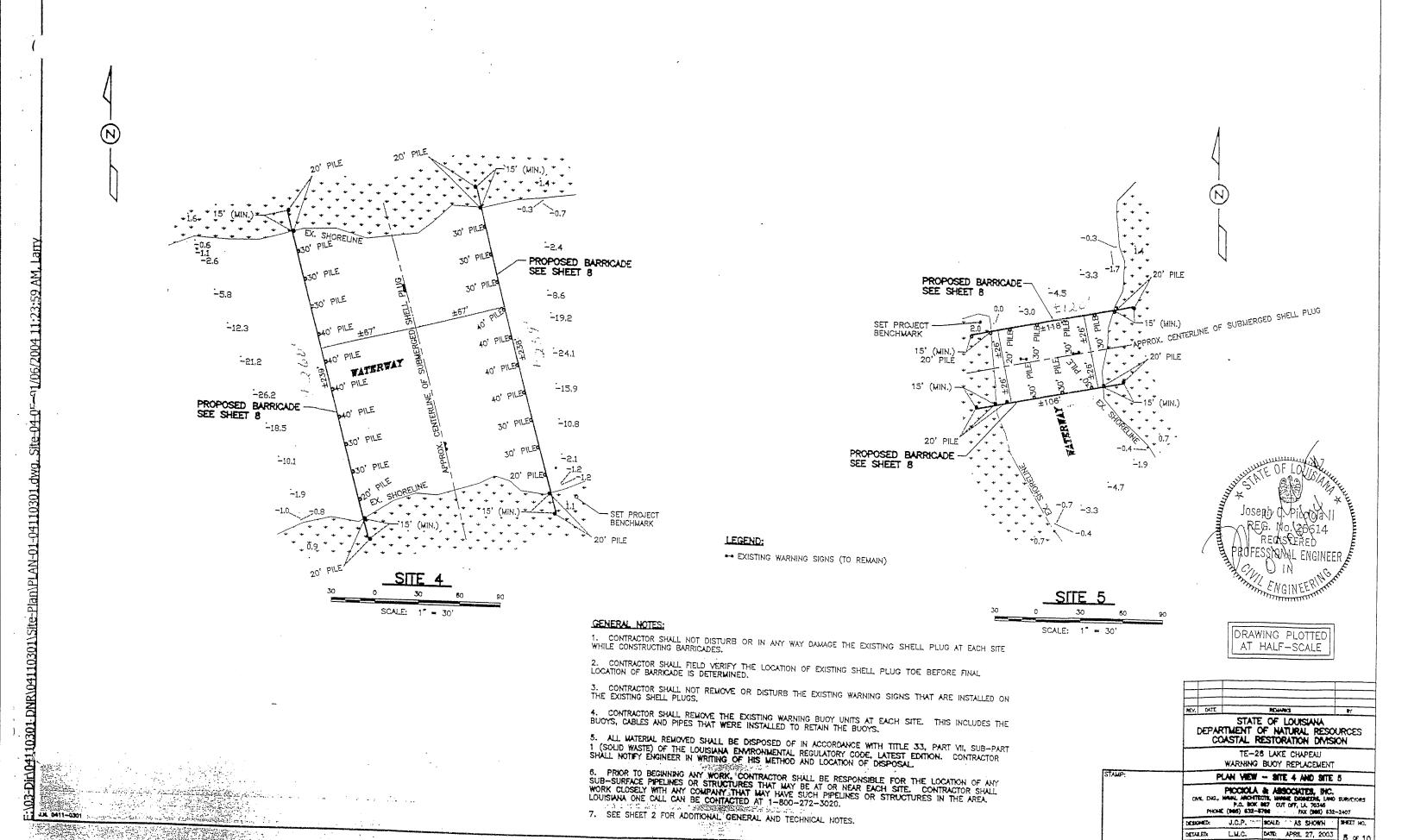
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DIG., HIMM, ANCHITECTS, MININE EMBREDIS, UND SURVICIOS
DIG., BOX 867 CUT OFF, LA 76346
PHONE (860) 832-8786 (7/6) (2014) (861) 832-8407

DEMONSTREE J.C.P. THE SOUR THINAS SHOWN TO SHEET HO.

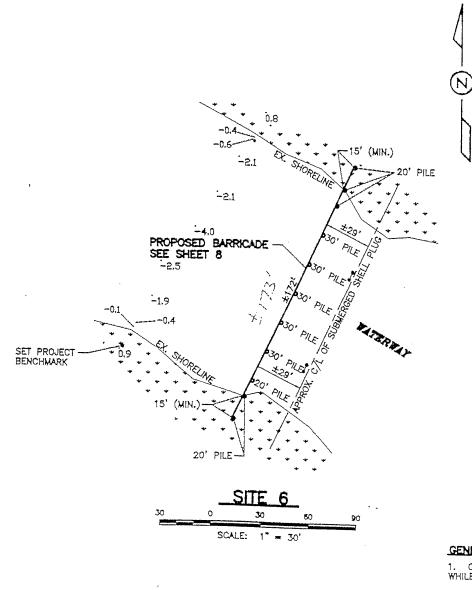
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J.C.P.

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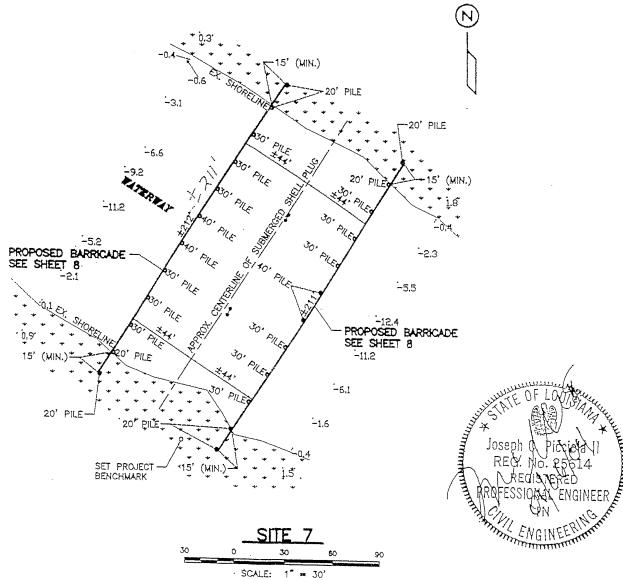


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LEGEND:

EXISTING WARNING SIGNS (TO REMAIN)



GENERAL NOTES:

1. CONTRACTOR SHALL NOT DISTURB OR IN ANY WAY DAMAGE THE EXISTING SHELL PLUG AT EACH SITE WHILE CONSTRUCTING BARRICADES.

2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SHELL PLUG TOE BEFORE FINAL LOCATION OF BARRICADE IS DETERMINED.

3. CONTRACTOR SHALL NOT REMOVE OR DISTURB THE EXISTING WARNING SIGNS THAT ARE INSTALLED ON THE EXISTING SHELL PLUGS.

4. CONTRACTOR SHALL REMOVE THE EXISTING WARNING BUOY UNITS AT EACH SITE. THIS INCLUDES THE BUOYS, CABLES AND PIPES THAT WERE INSTALLED TO RETAIN THE BUOYS.

5. ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH TITLE 33, PART VII, SUB-PART 1 (SOLID WASTE) OF THE LOUISIANA ENVIRONMENTAL REGULATORY CODE, LATEST EDITION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF HIS METHOD AND LOCATION OF DISPOSAL.

8. PRIOR TO BEGINNING MY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY SUB-SURFACE PIPELINES OR STRUCTURES THAT MAY BE AT OR NEAR EACH SITE. CONTRACTOR SHALL WORK CLOSELY WITH MY COMPANY THAT MAY HAVE SUCH PIPELINES OR STRUCTURES IN THE AREA. LOUISIANA ONE CALL CAN BE CONTACTED AT 1-800-272-3020.

7. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL NOTES.

DRAWING PLOTTED AT HALF—SCALE

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT

PLAN VIEW - SITE 6 AND SITE 7

DEBIONED: J.C.P. \*\*\* SOULD -- AS SHOWN - SHEET NO.

DETAILED: L.M.C. | FATE APPRIL 27, 2003 | 6 of 10

CHECKED: J.C.P.

20' PILE 0.4 -0.2 30' PILE 30' PILE 生47 30' PILE -6,6 30' PILE (N)30' PILE 540' PILE -9,8 PROPOSED BARRICADE SEE SHEET 8 -5,8 30' PILE -10,3 MO PILE 40' PILE -6,3 -9,6 WATERWAY PROPOSED BARRICADE SEE SHEET 8 40' PILE -8,1 -8,4 40' PILE -9,3 -7,3 30' PILE 30' PILE . -7.3 30' PILE . -6.7 -6,7 -5,4 SET PROJECT 30' PILE 20' PILE -4.2 30' PILE -2.5 130' PILE -3,5 530' PILE -2,9 30' PILE -2.1 SCALE: \_1" = 30"

-1.0

-5.3

-4,6

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DRAWING PLOTTED AT HALF-SCALE

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TE-28 LAKE CHAPEAU WARNING BUOY REPLACEMENT

PLAN VIEW - SITE 9

PICCIOLA & ASSOCIATES, INC.
DIS., HAMA. MACHECIE, IMPRIC DIGINEER, LIMB SURVEYORS
P.O. BOK 667 CUT OFF, LA 70346
PHONE (1865) 532-5766
FX (1865) 632-2407

J.C.P. . SOULS AS SHOWN - SHEET HO. DETAILEDS LH.C. CHCCCCC. J.C.P.

LEGENO:

\*\* EXISTING WARNING SIGNS (TO REMAIN)

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