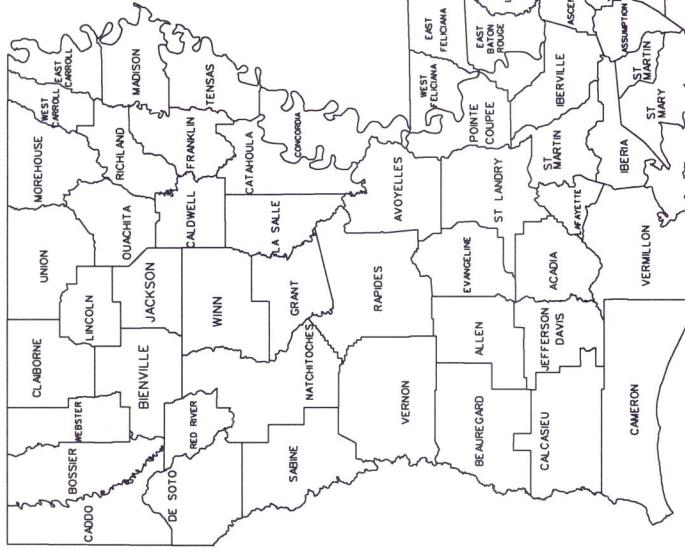
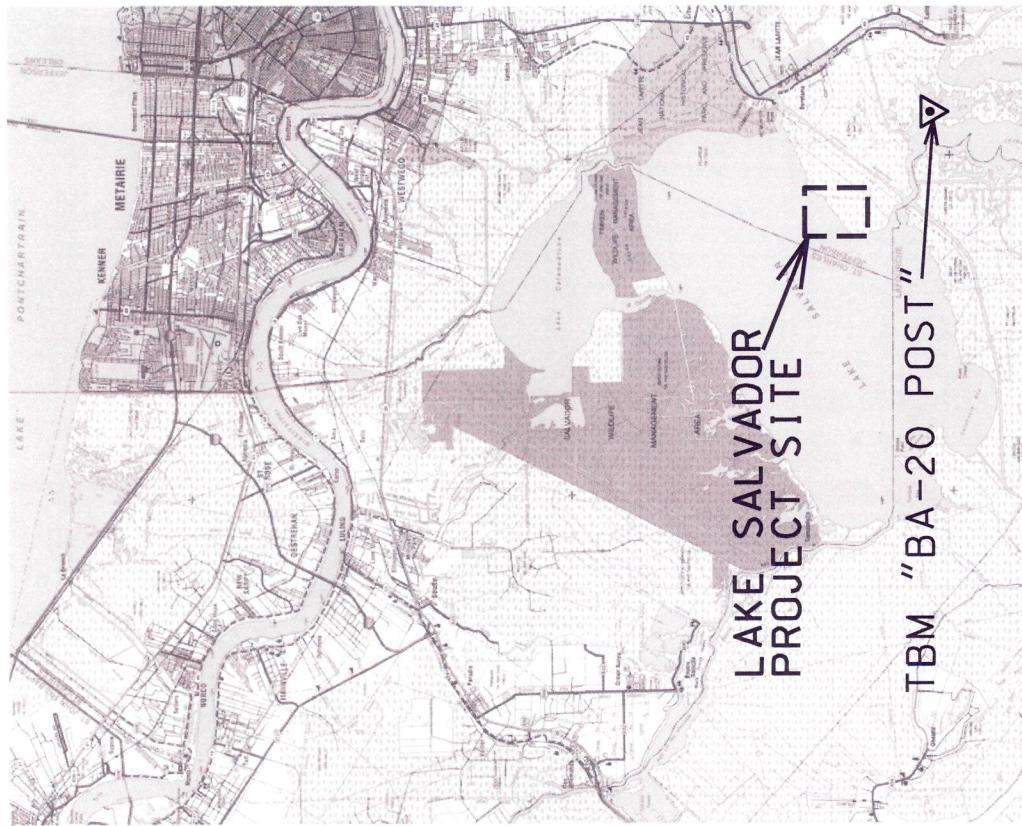


LA-16 NON-ROCK ALTERNATIVES

TO SHORELINE PROTECTION DEMOSNTRATION PROJECT LAKE SALVADOR SITE PERMIT DRAWINGS



LOCATION IN LOUISIANA
JEFFERSON PARISH



VICINITY MAP
LAKE SALVADOR. JEFFERSON PARISH

2 0 2 4 6 8
SCALE IN MILES

NOTES:
TBM "BA20 POST", N=428302.69, E=3657920.22, ELEV=+3.23, GEOD 99.
ACCESS TO EACH SITE WILL BE BY WATER ONLY. PLACEMENT
OF ANY EQUIPMENT ON LAND WILL NOT BE ALLOWED.
COORDINATES ARE IN STATE PLANE FEET, LOUISIANA SOUTH. NAD83.

INDEX TO DRAWINGS
1 VICINITY MAP
2 PROJECT MAP
3 TYPICAL SECTION

N=445032.05
E=361725.89
APPROXIMATE START
OF ACCESS CHANNEL
ELEV. -6.0 NAVD 88

PT.	DESCRIPTION	NORTH/ING	EASTING
1	BEGIN SITE 1	443438.36	3643053.83
2	END SITE 1	443123.11	3642665.78
3	BEGIN SITE 2	442950.22	3642456.09
4	END SITE 2	442720.76	3642010.98
5	BEGIN SITE 3	442522.53	3641740.70
6	END SITE 3	442268.94	3641310.22
7	BEGIN SITE 4	442028.97	3640922.15
8	END SITE 4	441660.05	3640584.99
9	BEGIN SITE 5	441478.54	3640454.28
10	END SITE 5	441049.36	3640198.20

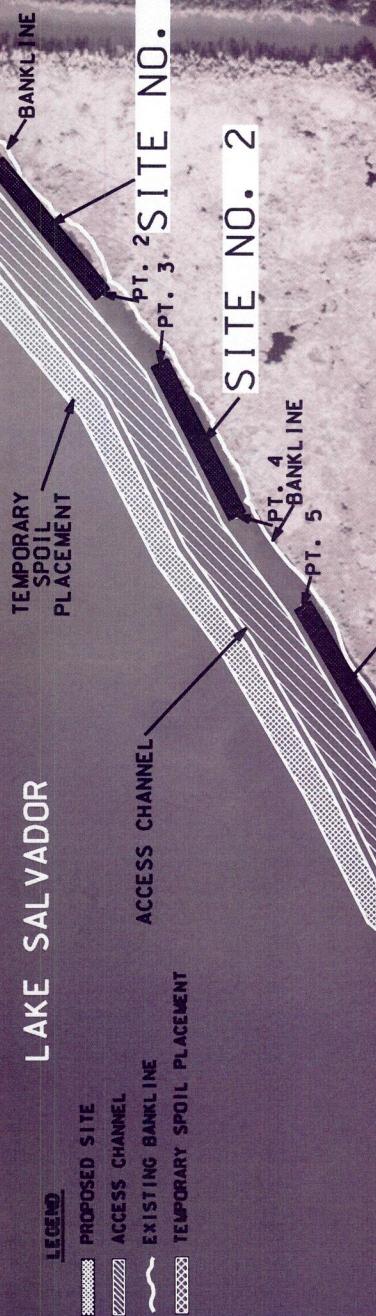
WATER BOTTOMS IMPACTED

WATER BOTTOMS IMPACTED BY ACCESS DREDGING = 25 ACRES

WATER BOTTOMS IMPACTED BY SPOIL PLACEMENT = 19 ACRES

WATER BOTTOMS IMPACTED BY PROJECT FEATURES = 3 ACRES

ACCESS CHANNEL
TEMPORARY
SPOIL
PLACEMENT



LAKE SALVADOR

N=441932.83
E=363700.59
APPROXIMATE START
OF ACCESS CHANNEL
ELEV. -6.0 NAVD 88

SITE NO. 1
PT. 1
BANKLINE
SITE NO. 2
PT. 2 SITE NO. 1
PT. 3
TEMPORARY
SPOIL
PLACEMENT
ACCESS CHANNEL
SITE NO. 3
PT. 4
PT. 5 BANKLINE
SITE NO. 4
PT. 6
PT. 7
PT. 8
PT. 9
BANKLINE
SITE NO. 5
PT. 10
ACCESS CHANNEL

NOTE:
NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING
SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD
PRIOR TO CONSTRUCTION.

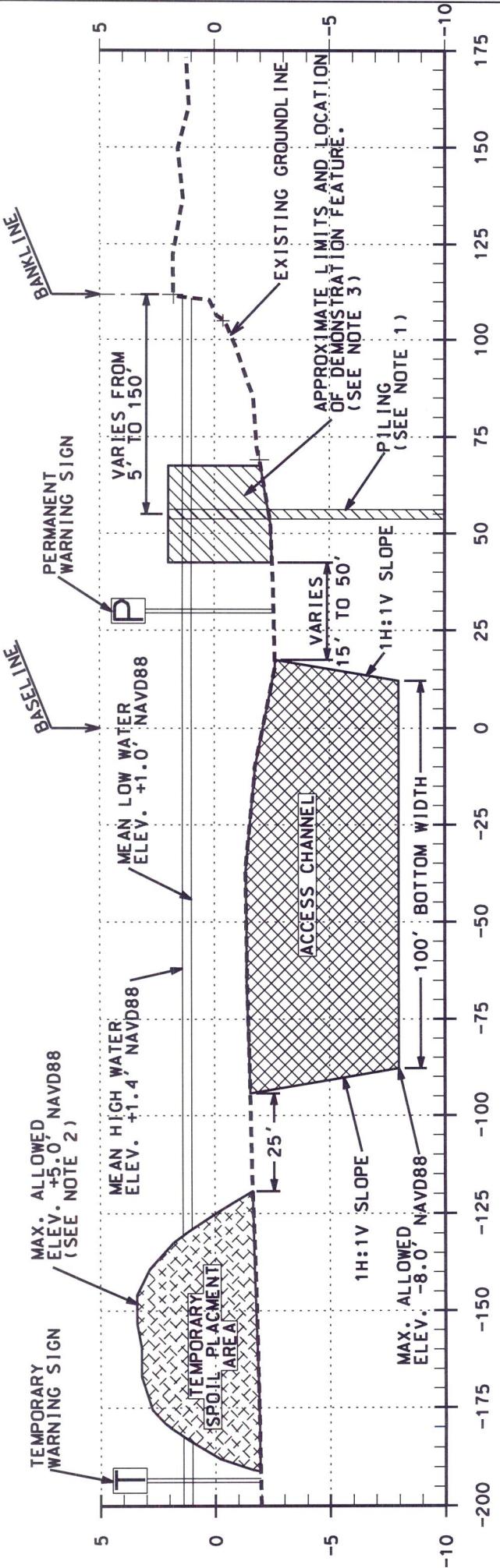
SITE NO. 5

LA-16 NON-ROCK DEMONSTRATION PROJECT

PROJECT MAP - LAKE SALVADOR

SCALE IN FEET
200 0 200 400 600 800

SHEET 2 OF 3



TYPICAL SECTION – LAKE SALVADOR

1. THREE OF THE FIVE PROPOSED PRODUCT FEATURES INCLUDE SUPPORT PILINGS. THE SIZE OF THE PILINGS VARY IN LENGTH FROM 10' TO 70' AND IN DIAMETER FROM 5" TO 30". SPACING VARIES FROM 4' FOR THE SMALLER PILINGS TO 25' FOR THE LARGER PILINGS.
2. MATERIAL FROM TEMPORARY SPOIL PLACEMENT AREA WILL BE RETURNED TO THE ACCESS CHANNEL AT THE COMPLETION OF CONSTRUCTION.
3. SPECIFIC DETAILS AND FINAL LOCATIONS OF PRODUCT FEATURES ARE CURRENTLY UNDER DEVELOPMENT.
4. NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD PRIOR TO CONSTRUCTION.
5. VERTICAL SCALE ON "TYPICAL SECTION-LAKE SALVADOR IS EXPANDED BY A FACTOR OF 6.

LA-16 NON-ROCK ALTERNATIVES

TO

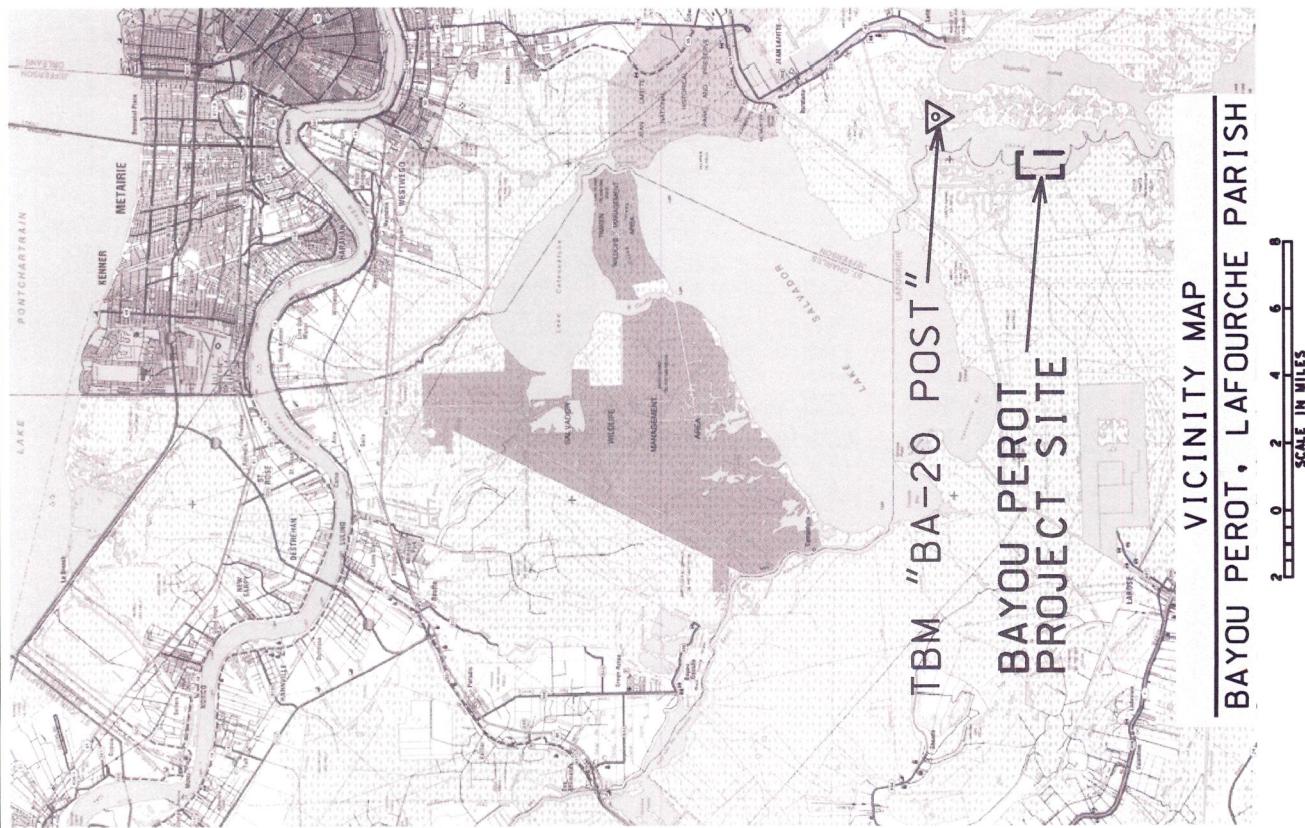
**SHORELINE PROTECTION
DEMONSTRATION PROJECT
BAYOU PEROT SITE
PERMIT DRAWINGS**



LOCATION IN LOUISIANA
LAFOURCHE PARISH

INDEX TO DRAWINGS

1	VICINITY MAP
2	PROJECT MAP
3	Typical Section



VICINITY MAP

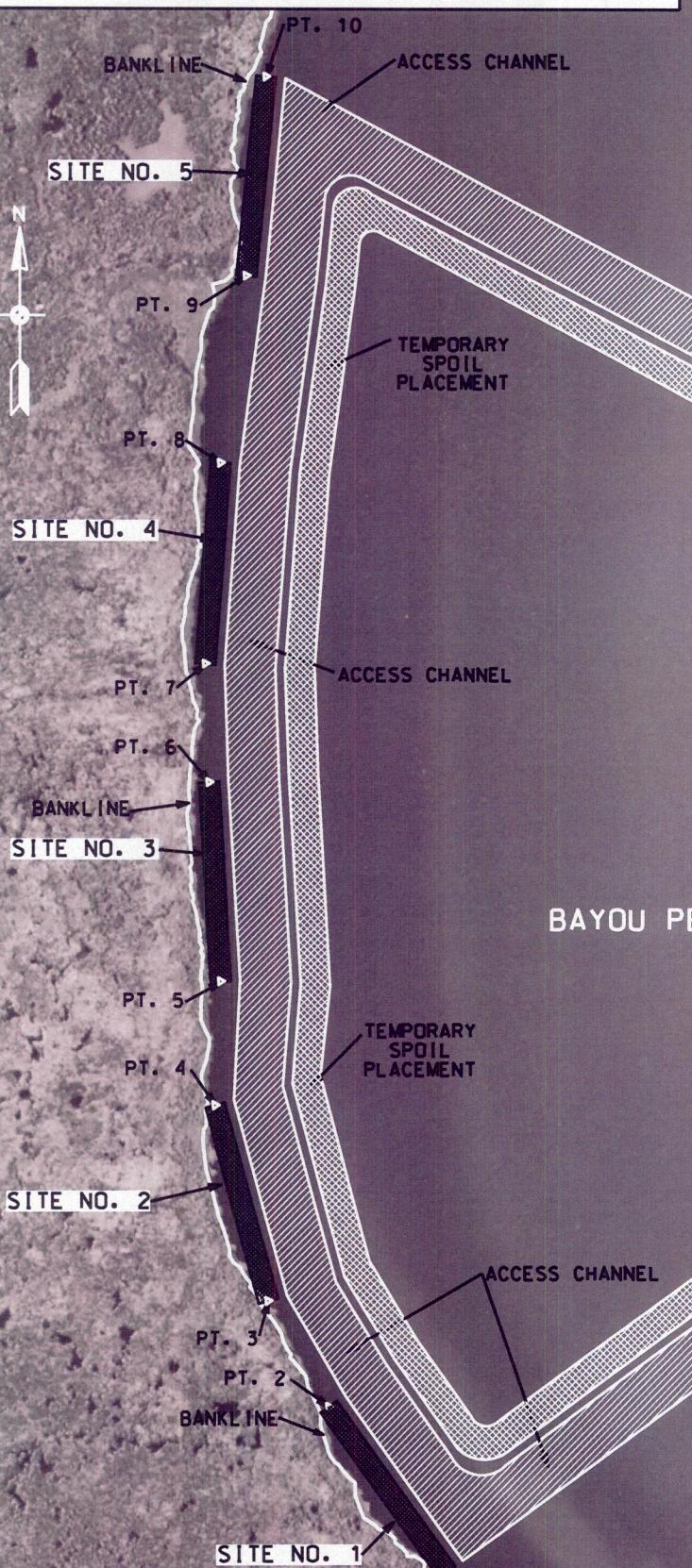
BAYOU PEROT, LAFOURCHE PARISH

SCALE IN MILES

NOTES:
TBM "BA20 POST", N=428302.69, E=3657920.22, ELEV=+3.23, GEOD 99.
ACCESS TO EACH SITE WILL BE BY WATER ONLY. PLACEMENT
OF ANY EQUIPMENT ON LAND WILL NOT BE ALLOWED.
COORDINATES ARE IN STATE PLANE FEET. LOUISIANA SOUTH. NAD83.

WATER BOTTOMS IMPACTED

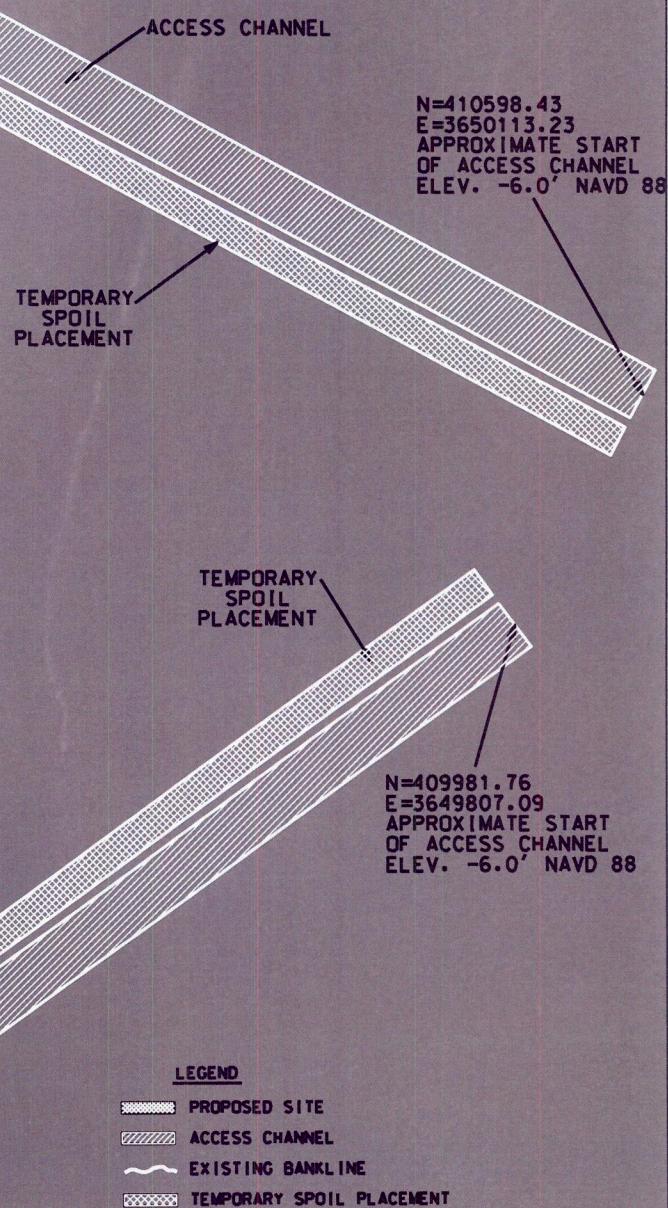
WATER BOTTOMS IMPACTED BY ACCESS DREDGING = 28 ACRES
 WATER BOTTOMS IMPACTED BY SPOIL PLACEMENT = 21 ACRES
 WATER BOTTOMS IMPACTED BY PROJECT FEATURES = 3 ACRES



PT.	DESCRIPTION	NORTHING	EASTING
1	BEGIN SITE 1	408403.15	3647652.01
2	END SITE 1	408819.28	3647353.09
3	BEGIN SITE 2	409085.23	3647199.42
4	END SITE 2	409578.13	3647065.16
5	BEGIN SITE 3	409886.67	3647080.13
6	END SITE 3	410389.11	3647050.87
7	BEGIN SITE 4	410685.61	3647041.48
8	END SITE 4	411190.80	3647080.08
9	BEGIN SITE 5	411660.25	3647145.79
10	END SITE 5	412165.38	3647196.31

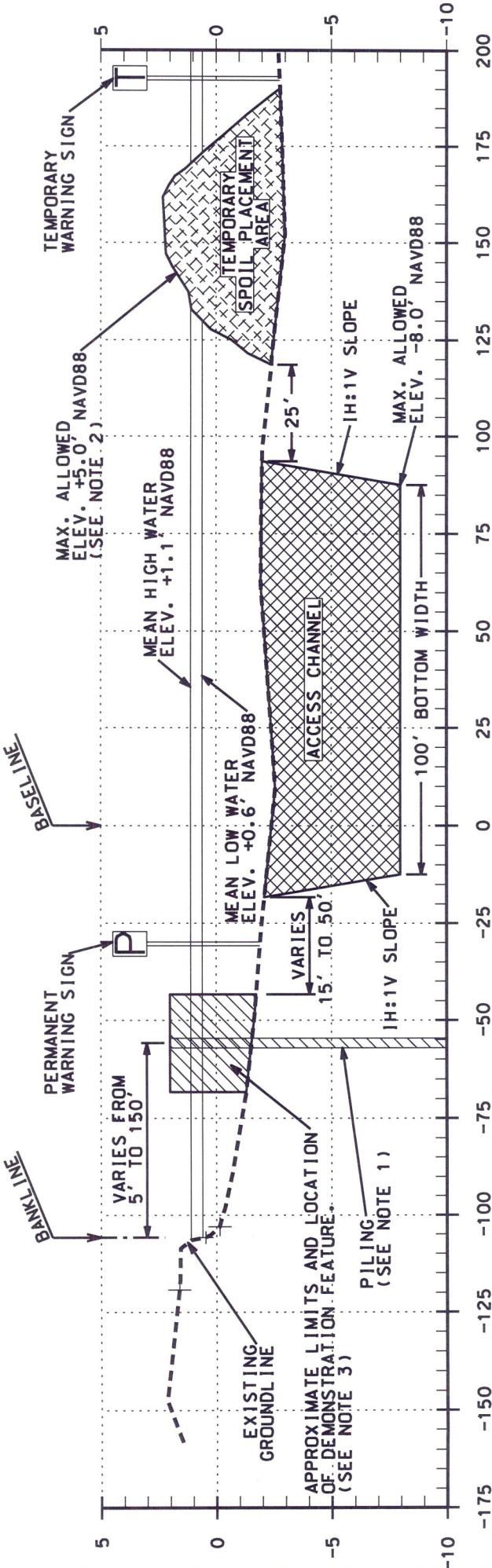
NOTE:

NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD PRIOR TO CONSTRUCTION.



DATE OF IMAGERY = 2010

200 0 200 400 600 800
SCALE IN FEET



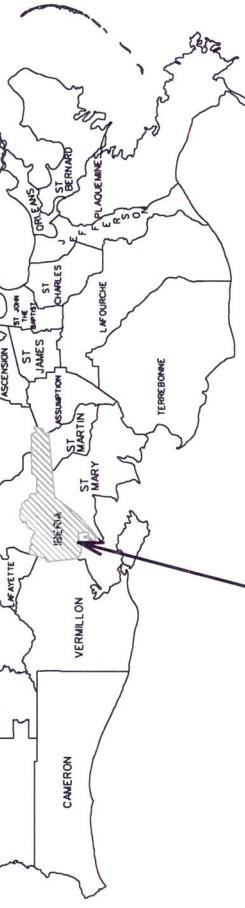
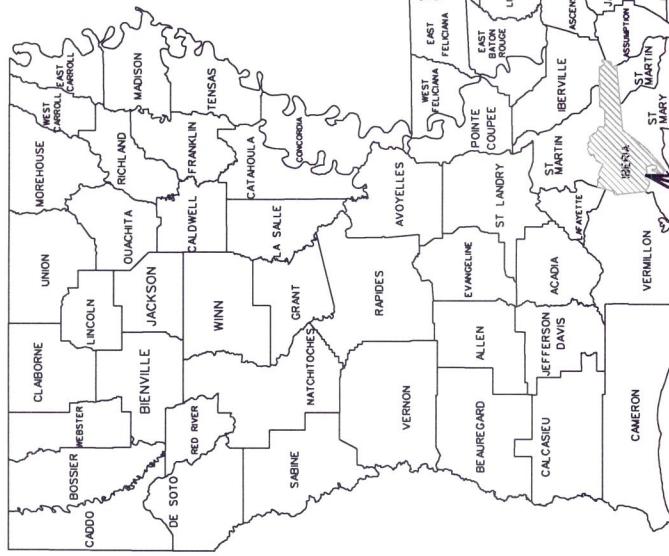
TYPICAL SECTION – BAYOU PEROT

1. THREE OF THE FIVE PROPOSED PRODUCT FEATURES INCLUDE SUPPORT PILINGS. THE SIZE OF THE PILINGS VARY IN LENGTH FROM 10' TO 70' AND IN DIAMETER FROM 5" TO 30". SPACING VARIES FROM 4' FOR THE SMALLER PILINGS TO 25' FOR THE LARGER PILINGS.
2. MATERIAL FROM TEMPORARY SPOIL PLACEMENT AREA WILL BE RETURNED TO THE ACCESS CHANNEL AT THE COMPLETION OF CONSTRUCTION.
3. SPECIFIC DETAILS AND FINAL LOCATIONS OF PRODUCT FEATURES ARE CURRENTLY UNDER DEVELOPMENT.
4. NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD PRIOR TO CONSTRUCTION.
5. VERTICAL SCALE ON 'TYPICAL SECTION – BAYOU PEROT" IS EXPANDED BY A FACTOR OF 6.

SHEET 3 of 3

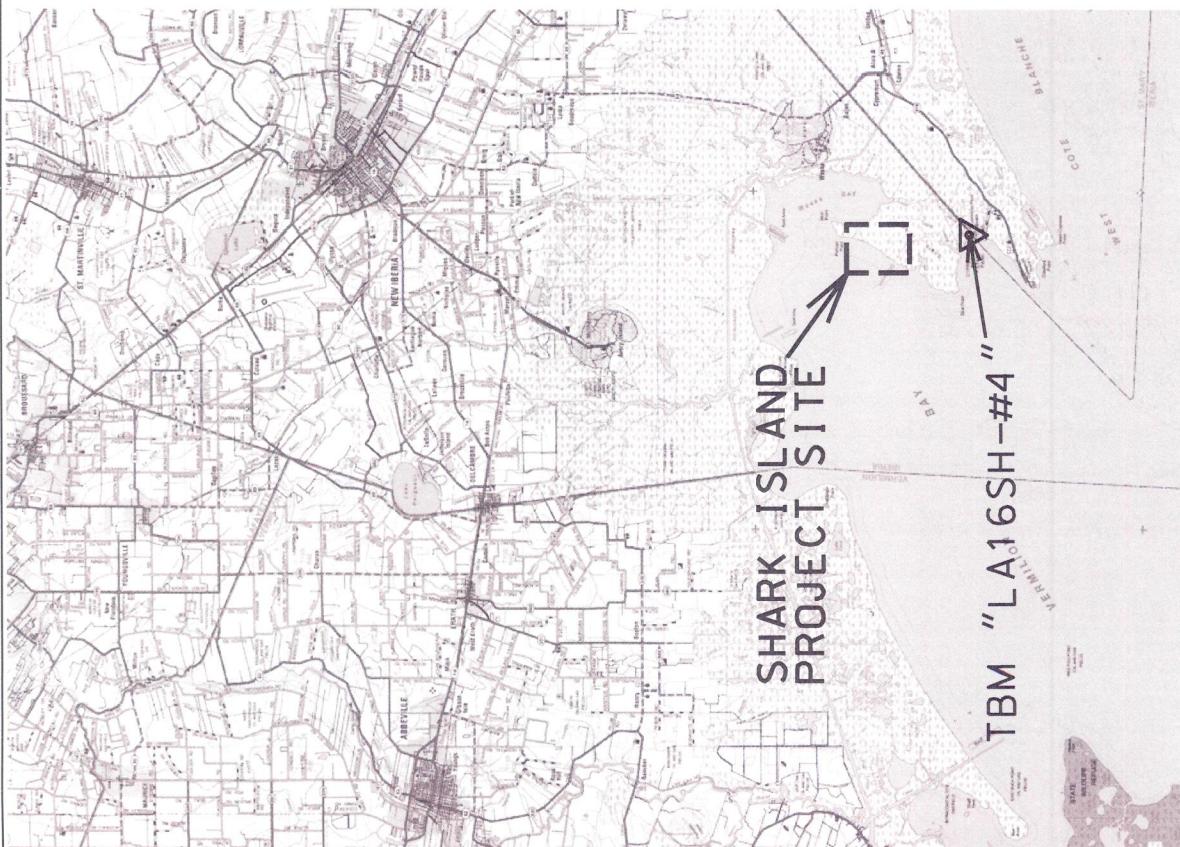
**LA-16 NON-ROCK ALTERNATIVES
TO**

**SHORELINE PROTECTION
DEMONSTRATION PROJECT
SHARK ISLAND SITE
PERMIT DRAWINGS**



INDEX TO DRAWINGS

1	VICINITY MAP
2	PROJECT MAP
3	Typical Section



VICINITY MAP
SHARK ISLAND - IBERIA PARISH

2 0 2 4 6 8
SCALE IN MILES

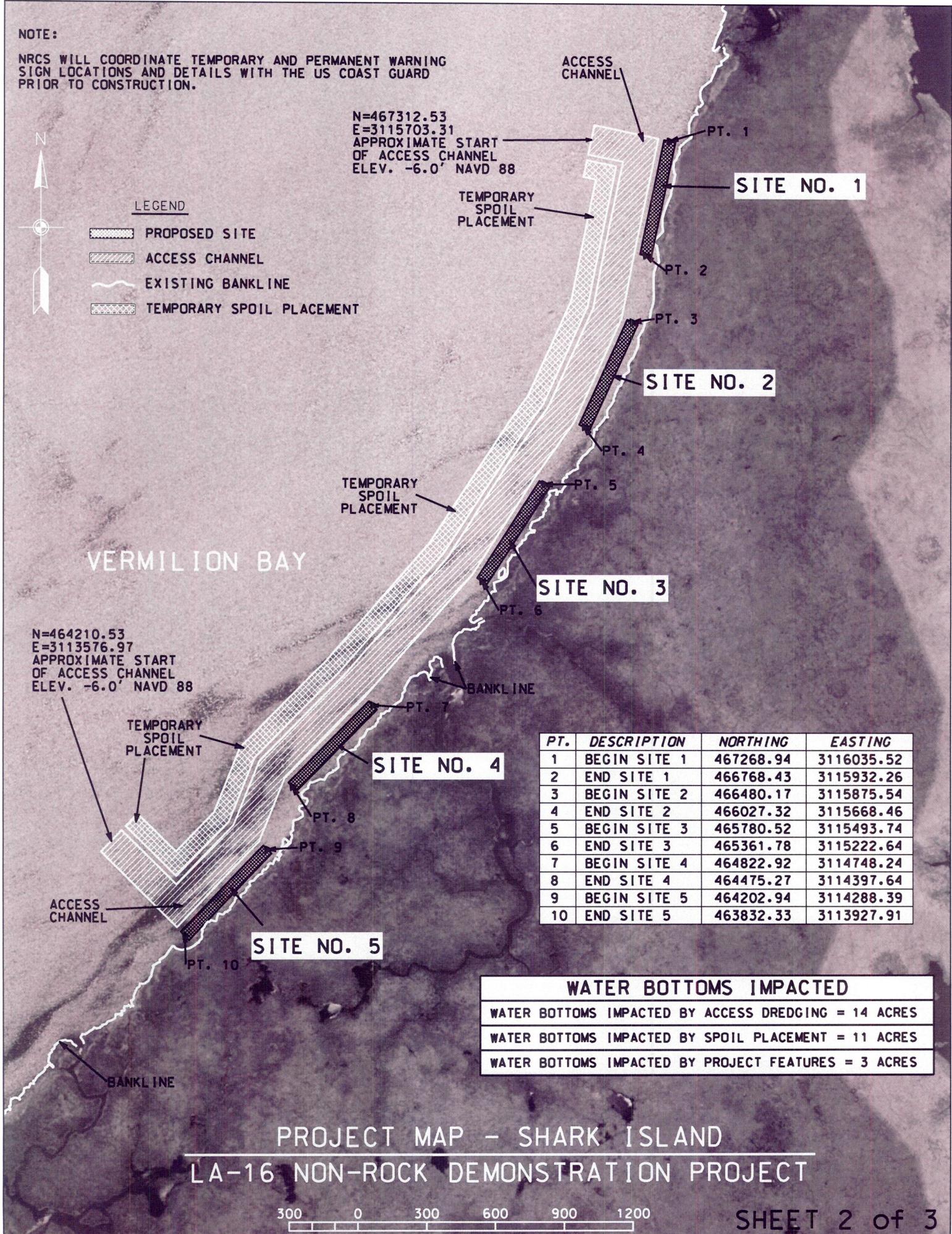
NOTES:
TBM "LA16SH-#4" N=451605.00, E=3115444.88, ELEV=+2.84, GEODID 03.

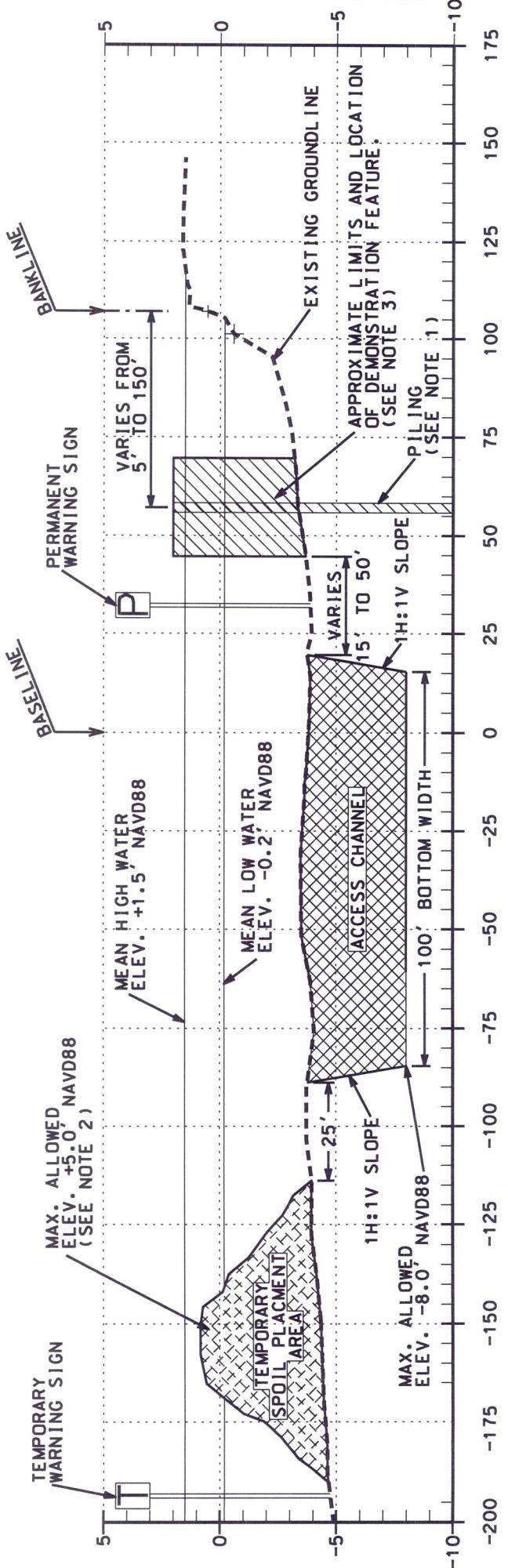
ACCESS TO EACH SITE WILL BE BY WATER ONLY. PLACEMENT
OF ANY EQUIPMENT ON LAND WILL NOT BE ALLOWED.

COORDINATES ARE IN STATE PLANE FEET. LOUISIANA SOUTH. NAD83.

NOTE:

NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD PRIOR TO CONSTRUCTION.





TYPICAL SECTION – SHARK ISLAND

1. THREE OF THE FIVE PROPOSED PRODUCT FEATURES INCLUDE SUPPORT PILING. THE SIZE OF THE PILING VARY IN LENGTH FROM 10' TO 70' AND IN DIAMETER FROM 5" TO 30". SPACING VARIES FROM 4' FOR THE SMALLER PILING TO 25' FOR THE LARGER PILING.
2. MATERIAL FROM TEMPORARY SPOIL PLACEMENT AREA WILL BE RETURNED TO THE ACCESS CHANNEL AT THE COMPLETION OF CONSTRUCTION.
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4. NRCS WILL COORDINATE TEMPORARY AND PERMANENT WARNING SIGN LOCATIONS AND DETAILS WITH THE US COAST GUARD PRIOR TO CONSTRUCTION.
5. VERTICAL SCALE ON 'TYPICAL SECTION-SHARK ISLAND' IS EXPANDED BY FACTOR OF 6.