

MAPS COPYRIGHT THE ROADS OF LOUISIANA. SHEARER PUBLISHING

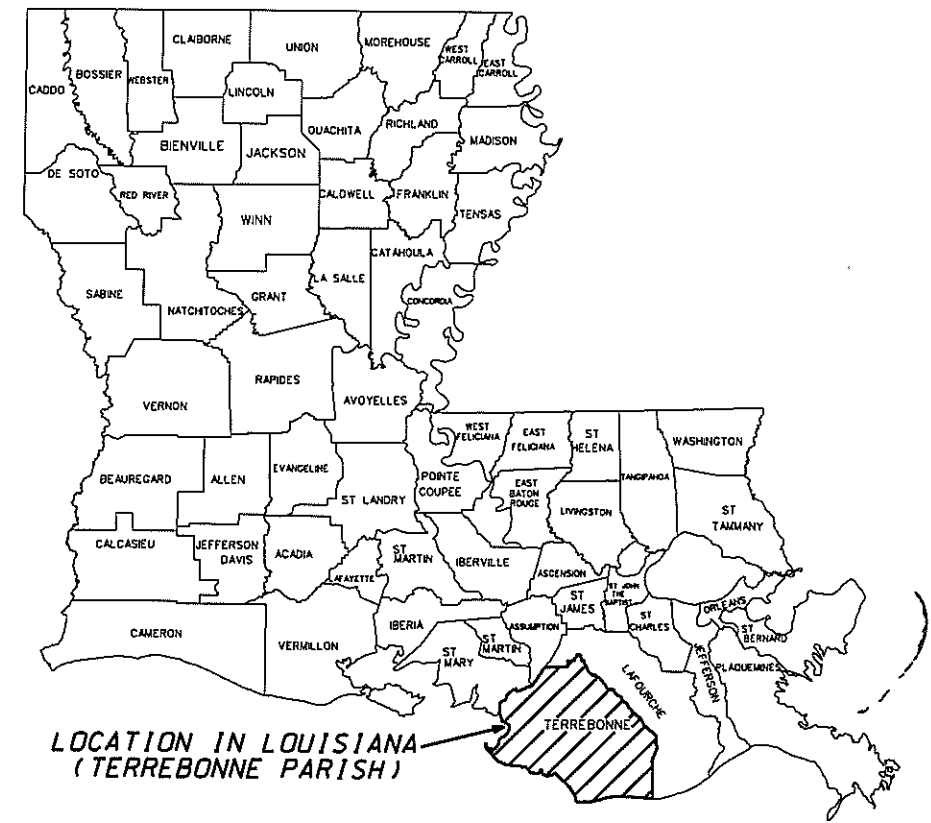
VICINITY MAP



SOUTH LAKE DECADE TE-39 - CONSTRUCTION UNIT 1

BUILT UNDER THE COASTAL WETLANDS
PLANNING, PROTECTION & RESTORATION ACT
PUBLIC LAW 101-646

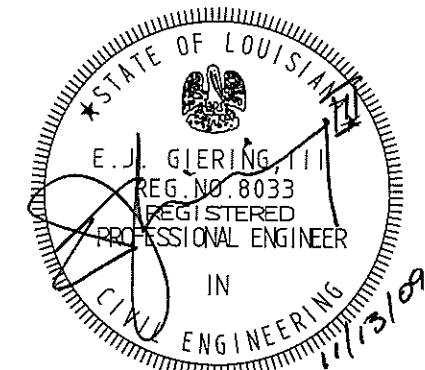
BY
COASTAL PROTECTION & RESTORATION
AUTHORITY OF LOUISIANA
WITH THE ASSISTANCE OF
NATURAL RESOURCES CONSERVATION SERVICE
OF THE
UNITED STATES DEPARTMENT OF AGRICULTURE
2009



LOCATION IN LOUISIANA
(TERREBONNE PARISH)

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- 20 SOIL BORING LOG B1-B5



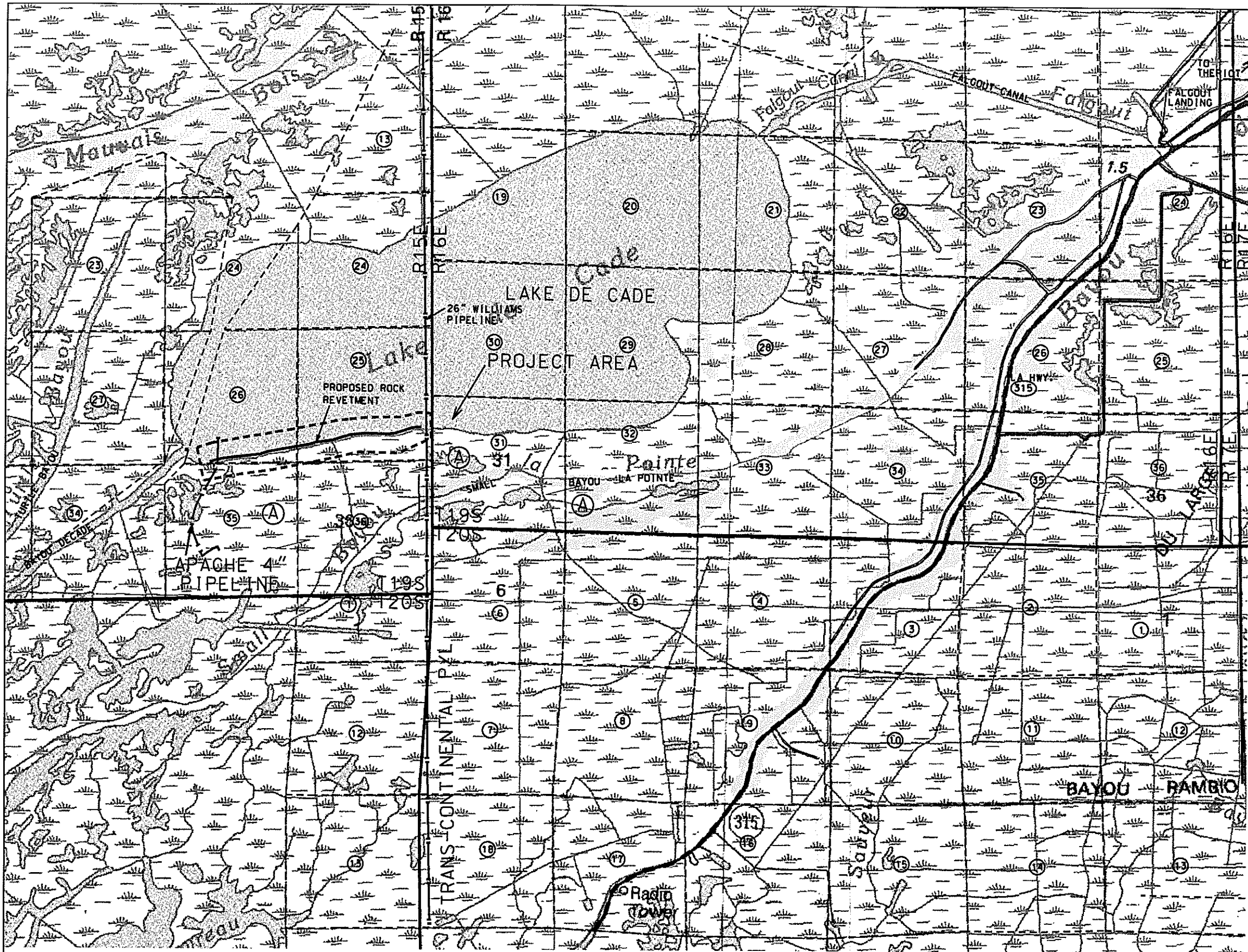
Designed	R. FAULKNER	Date	03/08
Drawn	D. WILMORE	Approved by	E. J. GIERING, III
Traced		Title	STATE OBSERVATION ENGINEER
Checked	B. STICKER	Date	11/09
		Title	REGISTERED PROFESSIONAL ENGINEER

COVER SHEET & LOCATION MAP
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

NO.	DATE	APPR.	TITLE

CAD FILENAME
LA327001.DGN
PROJECT NO.
LA327
SHEET NO. 01 OF 20

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



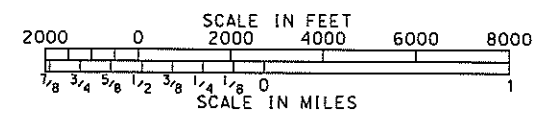
NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

LANDRIGHTS:

(A) APACHE LOUISIANA MINERALS LLC

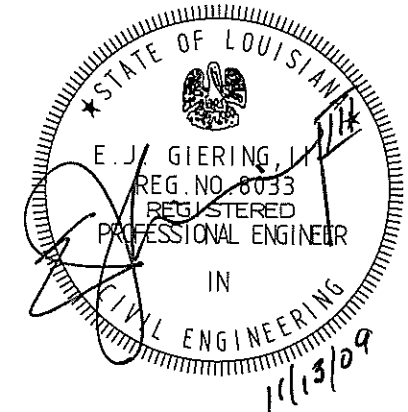
LEGEND:

- LA. HIGHWAY
- SECTION NUMBERS
- TOWNSHIP/ RANGE LINES
- TOWNSHIP/RANGE NUMBERS
- LA HWY NUMBER
- PROJECT & LANDRIGHT BOUNDARY
- PIPELINE
- PROPOSED ROCK REVETMENT

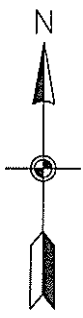


**SITE MAP
 LANDRIGHTS**

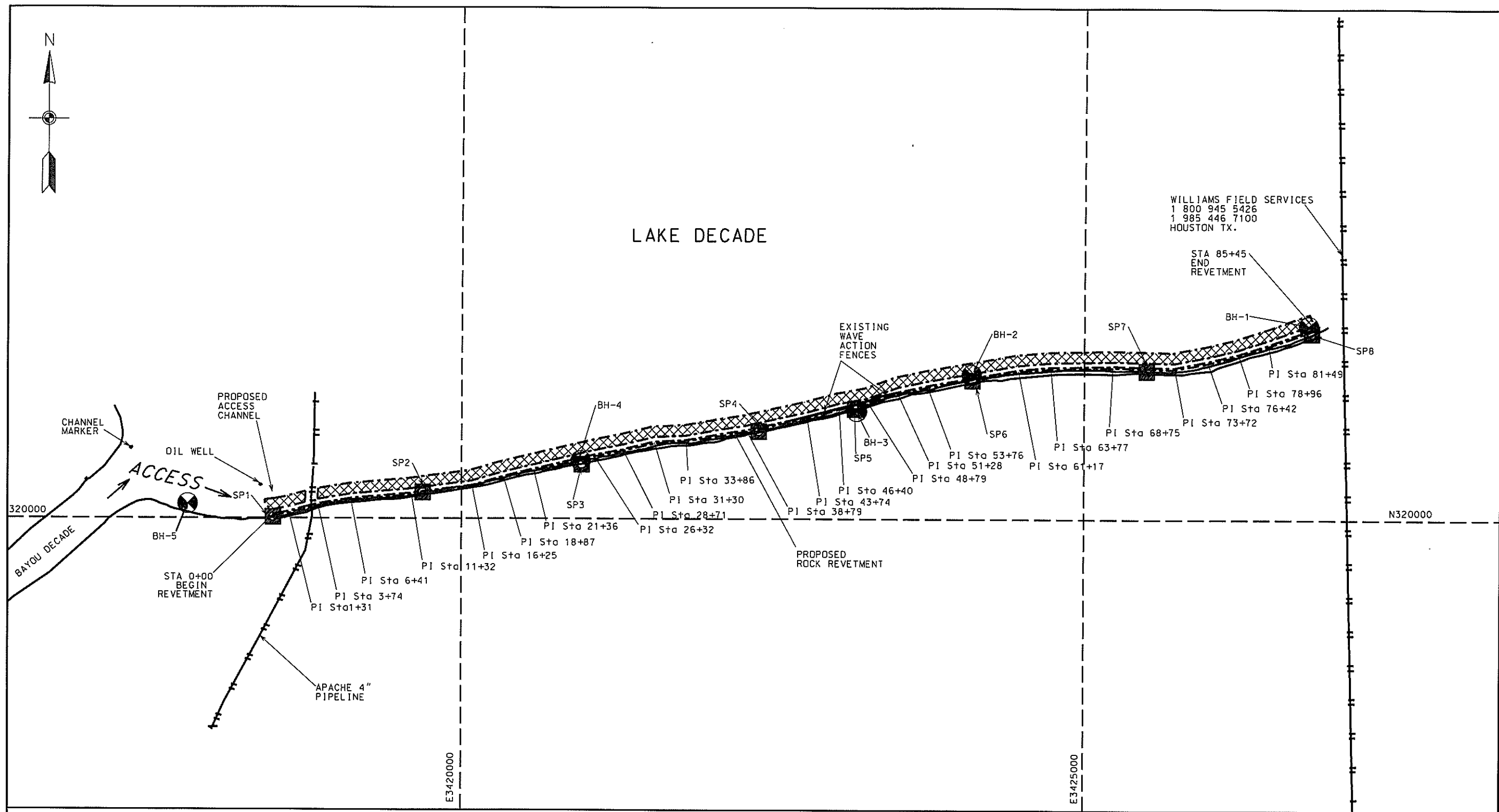
NOTE:
 THE NATURAL RESOURCES CONSERVATION SERVICE DOES NOT GUARANTEE THE COMPLETENESS AND ACCURACY OF OWNERSHIP SHOWN. APPARENT OWNERSHIP HAS BEEN OBTAINED FROM MAPS IN THE OFFICE OF THE PARISH CLERK OF COURT OR THE TAX ASSESSOR. WHERE AN APPARENT PROPERTY LINE IS SHOWN NEAR THE CENTERLINE OF A CHANNEL, ITS LOCATION IS NOT DEFINITE.



Date Approved by <u>E.J. GIERING, III</u> 11/09 Title <u>STATE OPERATIONS ENGINEER</u> <u>ALABAMA, LOUISIANA</u>	
Date Designed <u>R. FAULKNER</u> 03/08 Drawn <u>D. WILMORE</u> 03/08 Traced Checked <u>B. STICKER</u> 11/09 Title	SITE MAP - LANDRIGHTS TE-39 SOUTH LAKE DECADE CU#1 TERREBONNE, PARISH, LOUISIANA U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE
REVISIONS NO. DATE APPR. TITLE	CAD FILENAME LA327002.DGN PROJECT NO. LA327 SHEET NO Q2 OF 2Q



LAKE DECADE



WILLIAMS FIELD SERVICES
1 800 945 5426
1 985 446 7100
HOUSTON TX.

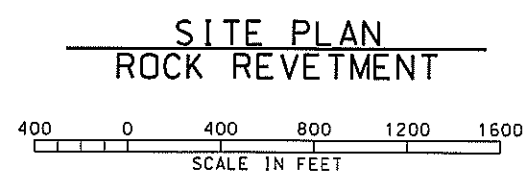
Date	11/09
Approved by	J. J. GIERING, III
Title	STATE CONSERVATION ENGINEER
	ALEXANDRIA, LOUISIANA
Date	03/08
Designed	R. FAULKNER
Drawn	D. WILLMORE
Traced	
Checked	B. STICKER
Date	11/09
Title	

SITE PLAN ROCK REVETMENT
 TE-39 SOUTH LAKE DECADE CUI
 TERREBONNE PARISH, LOUISIANA
 U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NOTES:
 1. EXCAVATION FOR ACCESS IS CONTRACTOR'S OPTION
 2. SEE SHEET 19 FOR PIPELINE CROSSING DETAILS
 3. CONSTRUCTION LIMITS AS SHOWN ON SHEET 12
 4. SEE SHEETS 4-11 FOR PLAN DETAILS
 5. SEE SHEET 12 FOR TYPICAL DETAILS

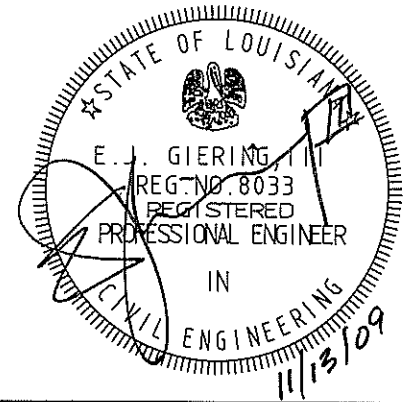
NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

TBM
 L003 N321172.14 E3432756.57
 ELEV. = 3.3620
 STATE PLANE LA, SOUTH NAD83, NAVD88
 BENCHMARK NOT SHOWN ON DRAWING



LEGEND

	SP-SETTLEMENT PLATE
	BH-SOIL BORING
	ROCK REVETMENT
	ACCESS CHANNEL



NO.	DATE	APPR.	TITLE

CAD FILENAME
LA327003.DGN

PROJECT NO.
LA327

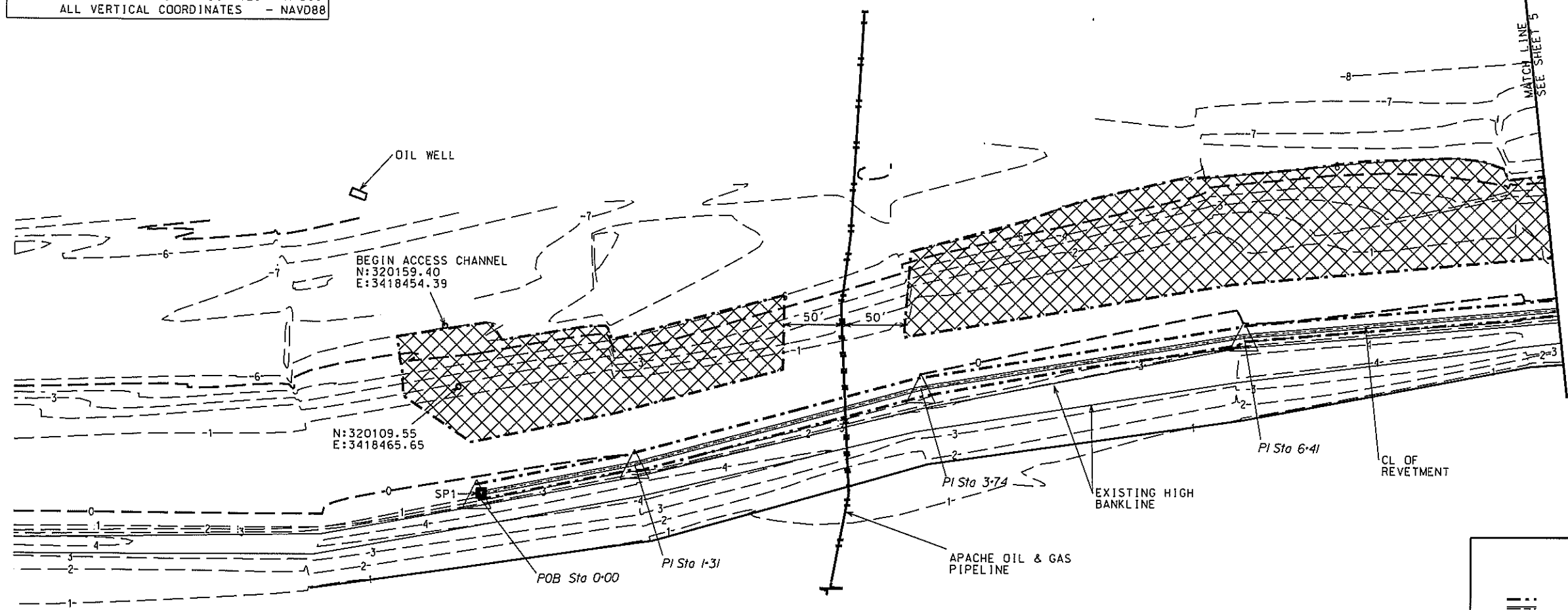
SHEET NO. 03 OF 20

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
POB	0+00	320021.80	3418481.12
1	1+31	320046.73	3418610.22
2	3+74	320109.91	3418843.85
3	6+41	320153.98	3419107.77
4	11+32	320197.41	3419596.46

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
1	0+00	320064.87	3418478.62
2	1+31	320090.92	3418603.81
3	3+74	320152.31	3418833.75
4	6+41	320196.63	3419104.23
5	11+32	320243.74	3419589.79

DATUM: ALL HORIZONTAL COORDINATES - NAD83
ALL VERTICAL COORDINATES - NAVD88

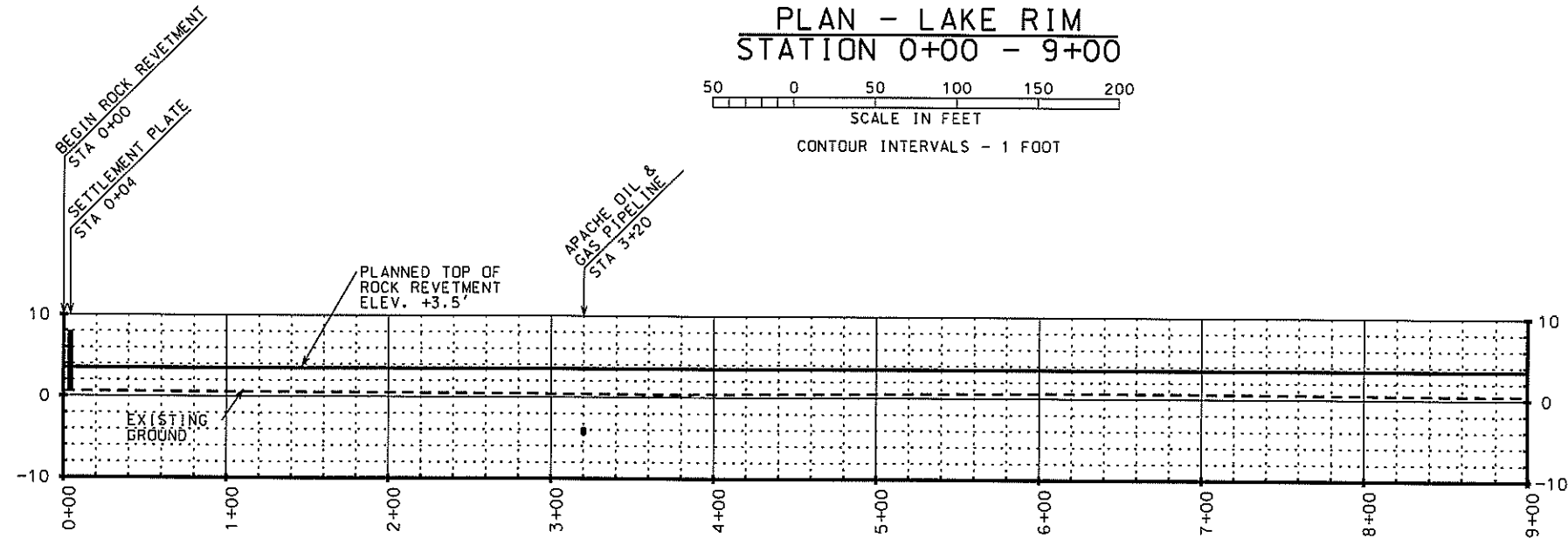
NOTICE:
48 HOURS BEFORE DIGGING
CALL 1-800-272-3020
TO LOCATE UTILITY LINES



PLAN - LAKE RIM
STATION 0+00 - 9+00
SCALE IN FEET
CONTOUR INTERVALS - 1 FOOT

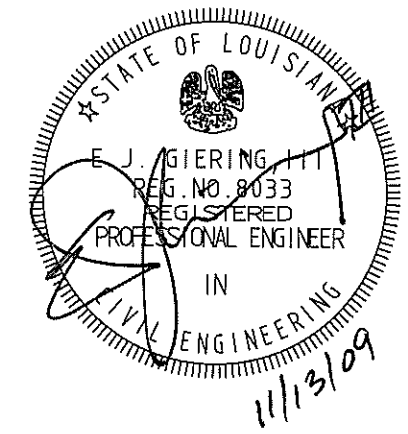
LEGEND

- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL.
NOT REQUIRED
CONTRACTOR'S OPTION



PROFILE - LAKE RIM
STATION 0+00 - 9+00
SCALE= 5 VERTICAL : 1 HORIZONTAL

NOTES:
NO EXCAVATION WITHIN 50' OF APACHE PIPELINE
SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
SEE SHEET 19 FOR PIPELINE DETAILS



Date	11/09
Approved by	E.J. GIERING, III
Title	STATE CONSERVATION ENGINEER
Location	MONROE, LOUISIANA
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	
Checked	B. STICKER
Date	03/08
Title	
Date	03/08
Title	
Date	11/09
Title	

SITE PLAN - STA. 0+00 - STA. 9+00
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE

CAD FILENAME
LA327004.DGN
PROJECT NO.
LA327
SHEET NO. 04 OF 20

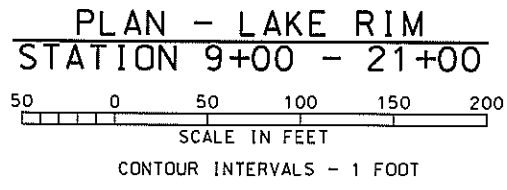
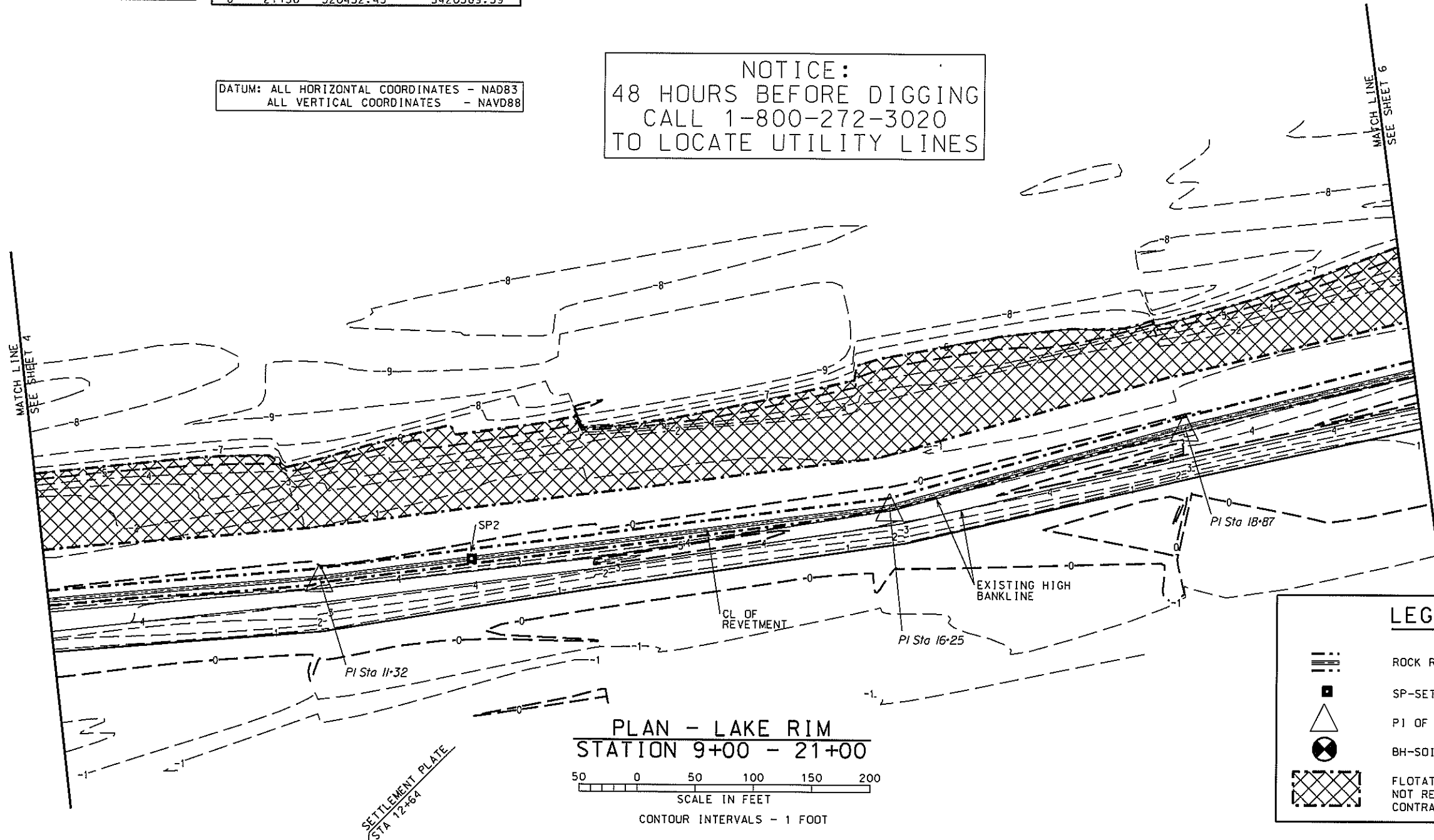
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
3	6+41	320153.98	3419107.77
4	11+32	320197.41	3419596.46
5	16+25	320260.65	3420085.35
6	18+87	320331.37	3420337.72
7	21+36	320391.12	3420579.38

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
4	6+41	320196.63	3419104.23
5	11+32	320243.74	3419589.79
6	16+25	320302.71	3420073.32
7	18+87	320373.79	3420325.02
8	21+36	320432.43	3420569.59

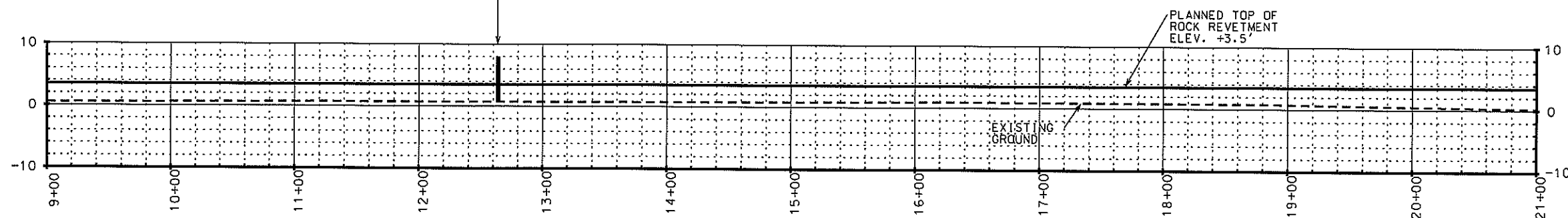
NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88

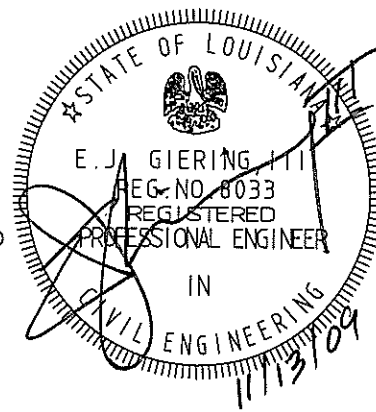
NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES



LEGEND	
	ROCK REVETMENT
	SP-SETTLEMENT PLATE
	PI OF ROCK REVETMENT
	BH-SOIL BORING
	FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION



PROFILE - LAKE RIM
 STATION 9+00 - 21+00
 SCALE= 5 VERTICAL : 1 HORIZONTAL



Approved by	E. J. GIERING, III	Date	11/09
Title	STATE CONSERVATION ENGINEER		
Location	TERREBONNE, LOUISIANA		
Designed	R. FAULKNER	Date	03/08
Drawn	D. WILMORE	Date	03/08
Traced			
Checked	B. STICKER	Date	11/09
Title			

**SITE PLAN - STA. 9+00 - STA. 21+00
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA**

NO.	DATE	APPR.	TITLE

CAD FILENAME
LA327005.DGN

PROJECT NO.
LA327

SHEET NO 05 OF 20

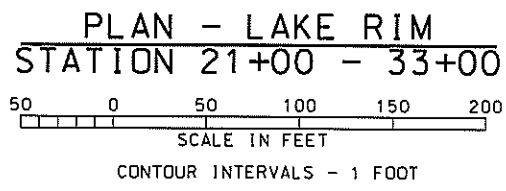
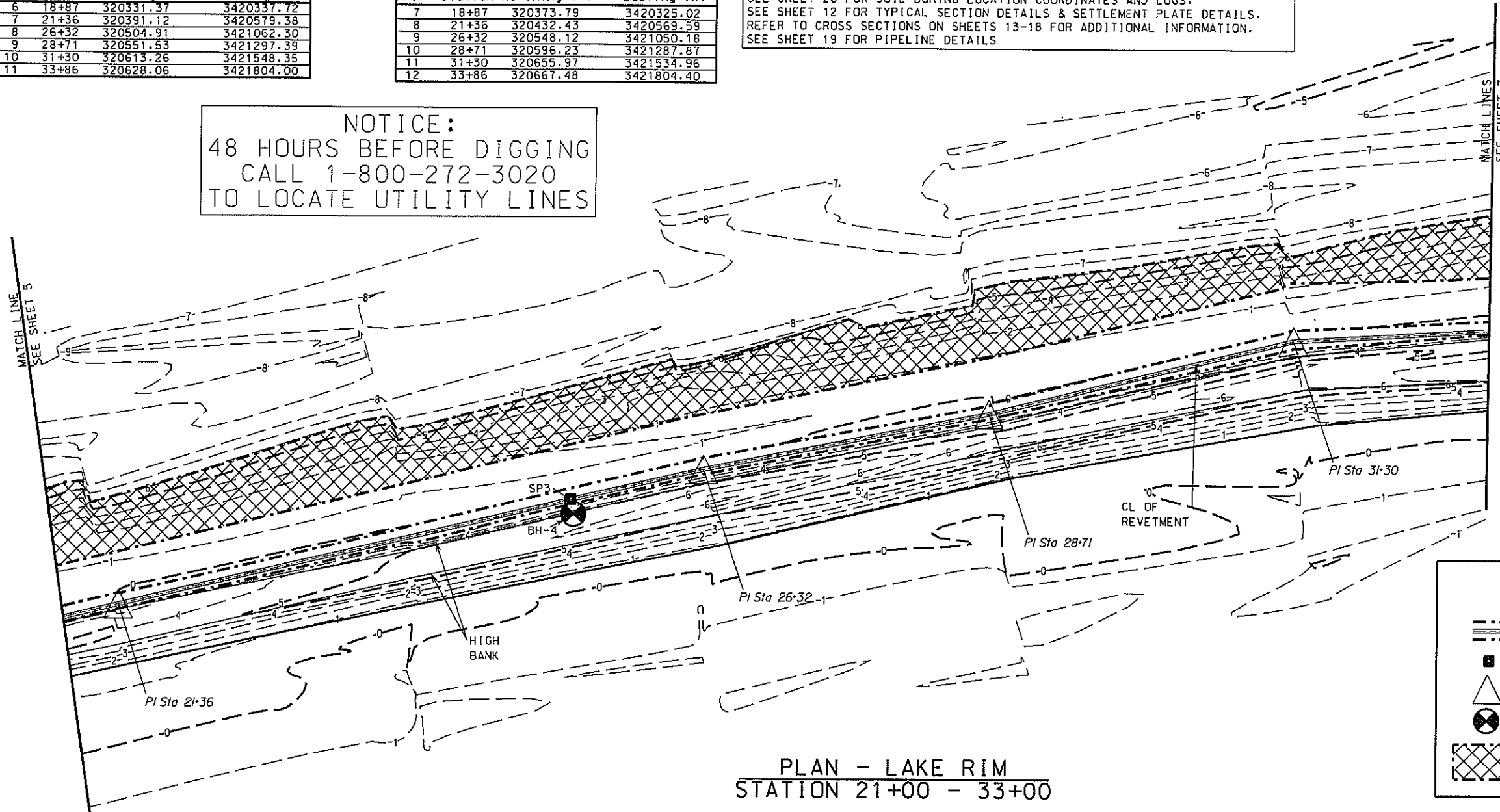
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

PROPOSED REVETMENT COORDINATES		
PI #	Station	Easting (X)
6	18+87	320331.37
7	21+36	320391.12
8	26+32	320504.91
9	28+71	320551.53
10	31+30	320613.26
11	33+86	320628.06

ACCESS CHANNEL TOP OF SLOPE COORDINATES		
PI #	Station	Easting (X)
7	18+87	320373.79
8	21+36	320432.43
9	26+32	320548.12
10	28+71	320596.23
11	31+30	320655.97
12	33+86	320667.48

NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

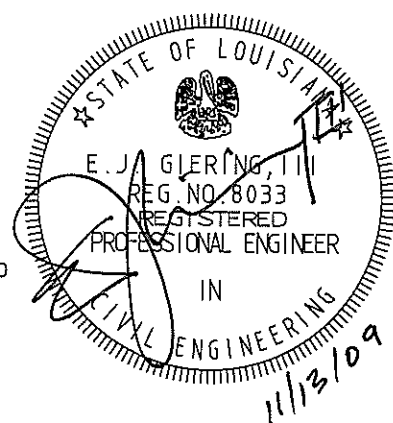
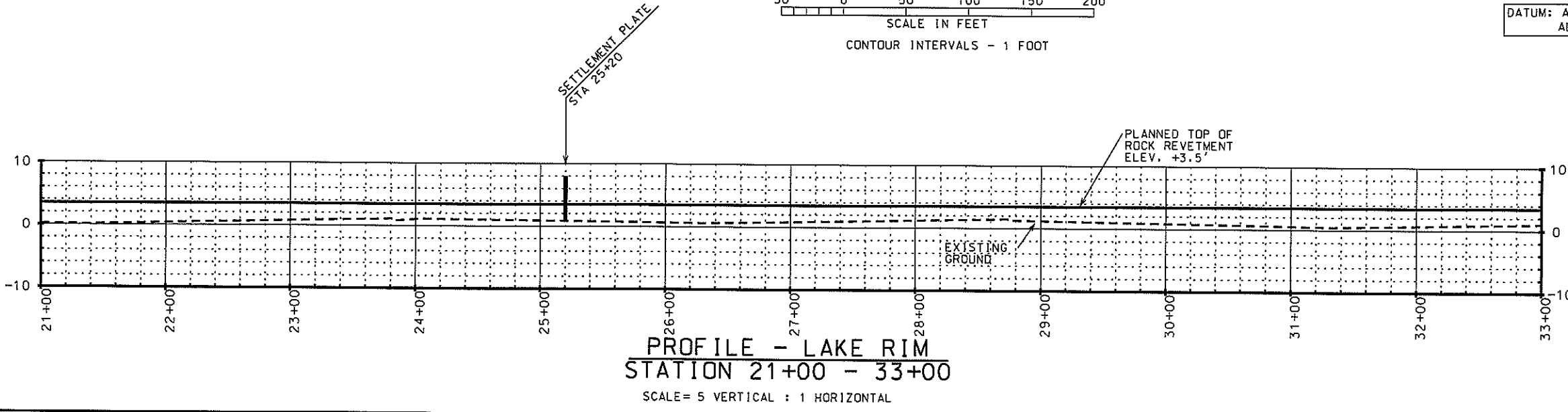
NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES



LEGEND

- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION

DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88



Approved by	E. J. GLERING, III	Date	11/09
Title	SITE SUPERVISOR/ENGINEER		
Location	TERREBONNE PARISH, LOUISIANA		
Designed	R. FAULKNER	Date	03/08
Drawn	D. WILMORE	Date	03/08
Traced			
Checked	B. STICKER	Date	11/09
Title			

**SITE PLAN - STA. 21+00 - STA. 33+00
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA**

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE

CAD FILENAME: LA327006.DGN
 PROJECT NO.: LA327
 SHEET NO. 06 OF 20

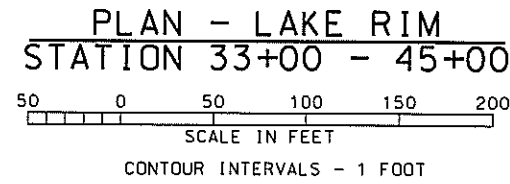
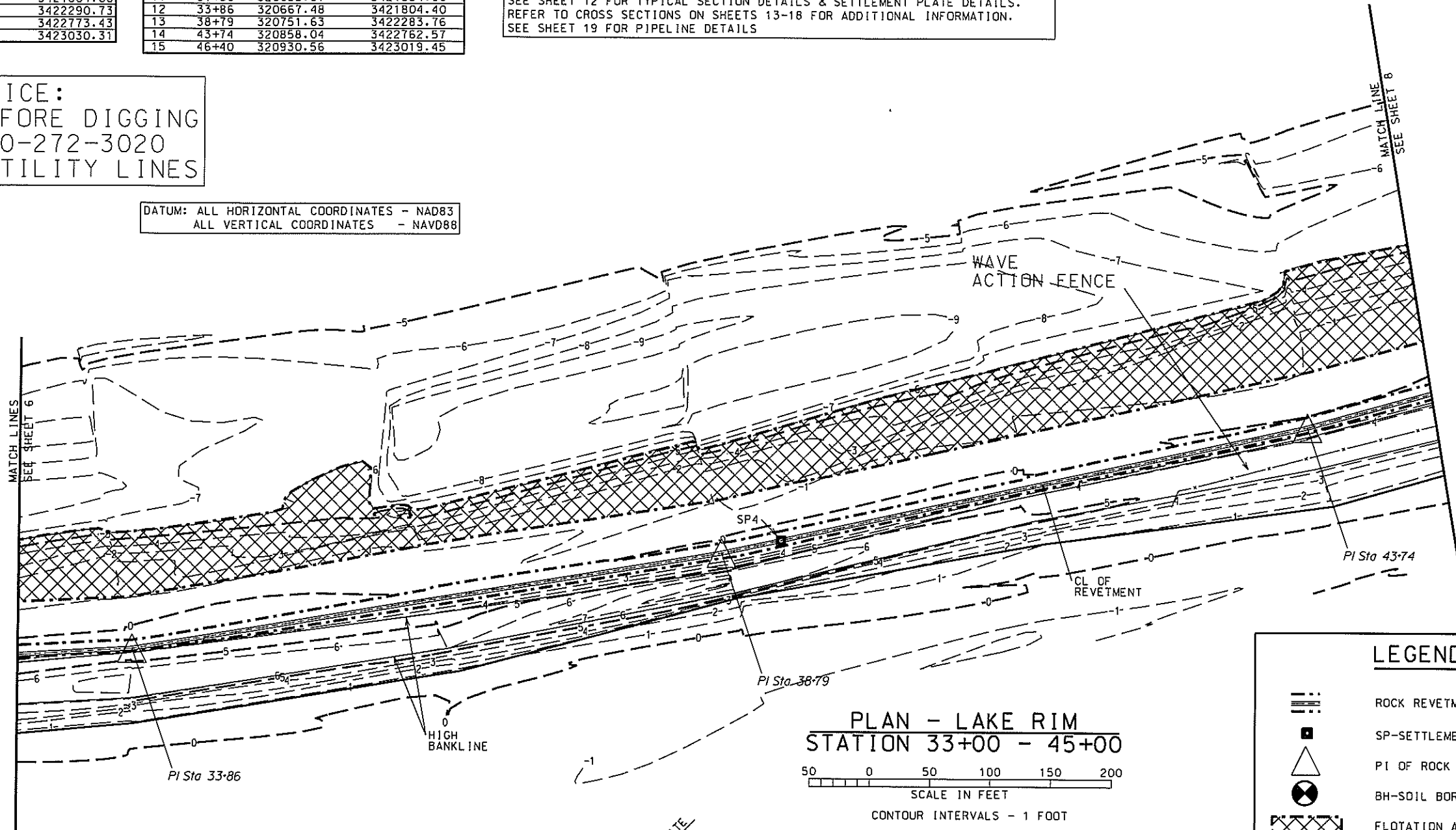
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
10	31+30	320613.26	3421548.35
11	33+86	320628.06	3421804.00
12	38+79	320708.62	3422290.73
13	43+74	320814.48	3422773.43
14	46+40	320887.00	3423030.31

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
11	31+30	320655.97	3421534.96
12	33+86	320667.48	3421804.40
13	38+79	320751.63	3422283.76
14	43+74	320858.04	3422762.57
15	46+40	320930.56	3423019.45

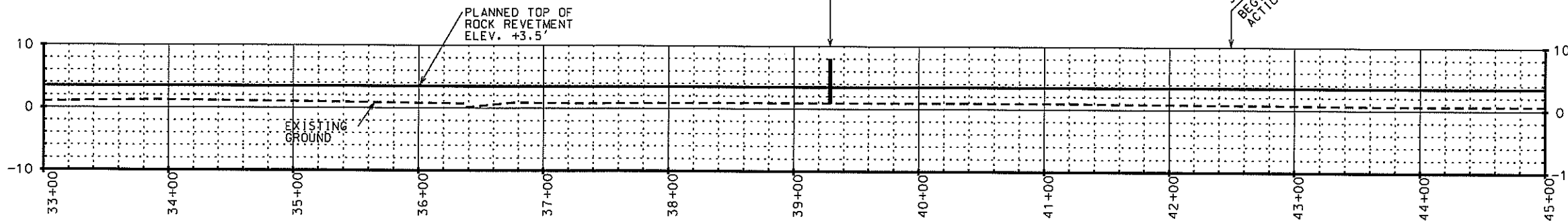
NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

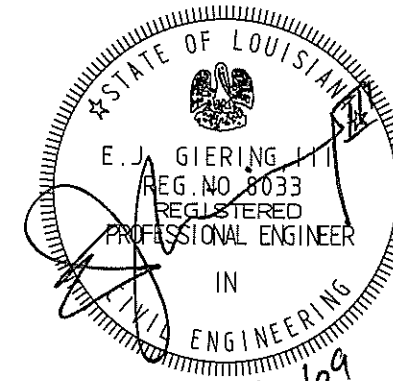
DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88



LEGEND	
	ROCK REVETMENT
	SP-SETTLEMENT PLATE
	PI OF ROCK REVETMENT
	BH-SOIL BORING
	FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION



PROFILE - LAKE RIM
 STATION 33+00 - 45+00
 SCALE= 5 VERTICAL : 1 HORIZONTAL



Date	11/09
Approved by	E.J. GIERING, III
Approved Title	STATE OBSERVATION ENGINEER
Location	ALABAMA, LOUISIANA
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	
Checked	B. STICKER
Title	

SITE PLAN - STA. 33+00 - STA. 45+00
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

NO.	DATE	APPR.	TITLE

CAD FILENAME
LA327007.DGN
 PROJECT NO.
LA327
 SHEET NO. 07 OF 20

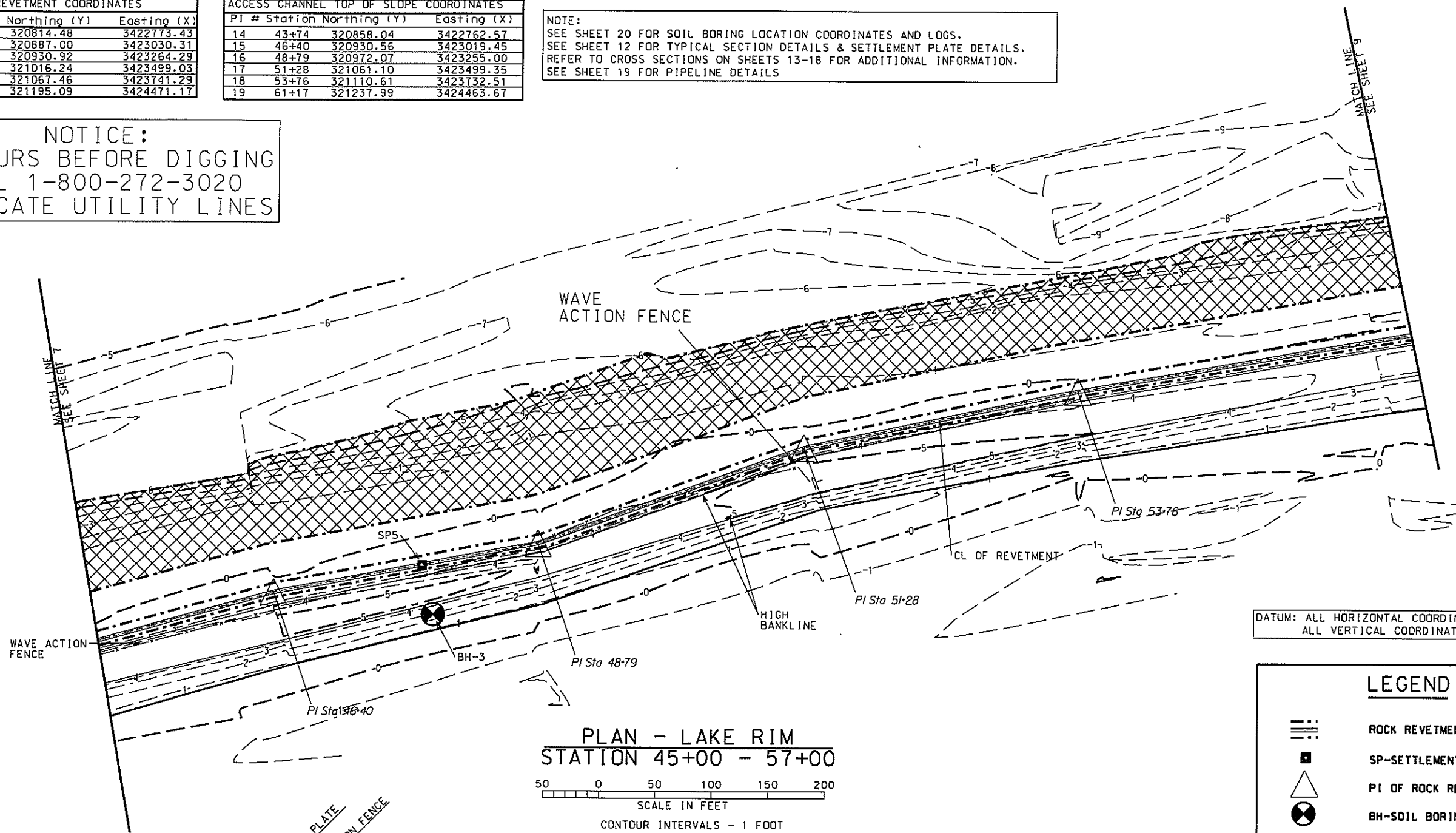
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
13	43+74	320814.48	3422773.43
14	46+40	320887.00	3423030.31
15	48+79	320930.92	3423264.29
16	51+28	321016.24	3423499.03
17	53+76	321067.46	3423741.29
18	61+17	321195.09	3424471.17

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
14	43+74	320858.04	3422762.57
15	46+40	320930.56	3423019.45
16	48+79	320972.07	3423255.00
17	51+28	321061.10	3423499.35
18	53+76	321110.61	3423732.51
19	61+17	321237.99	3424463.67

NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

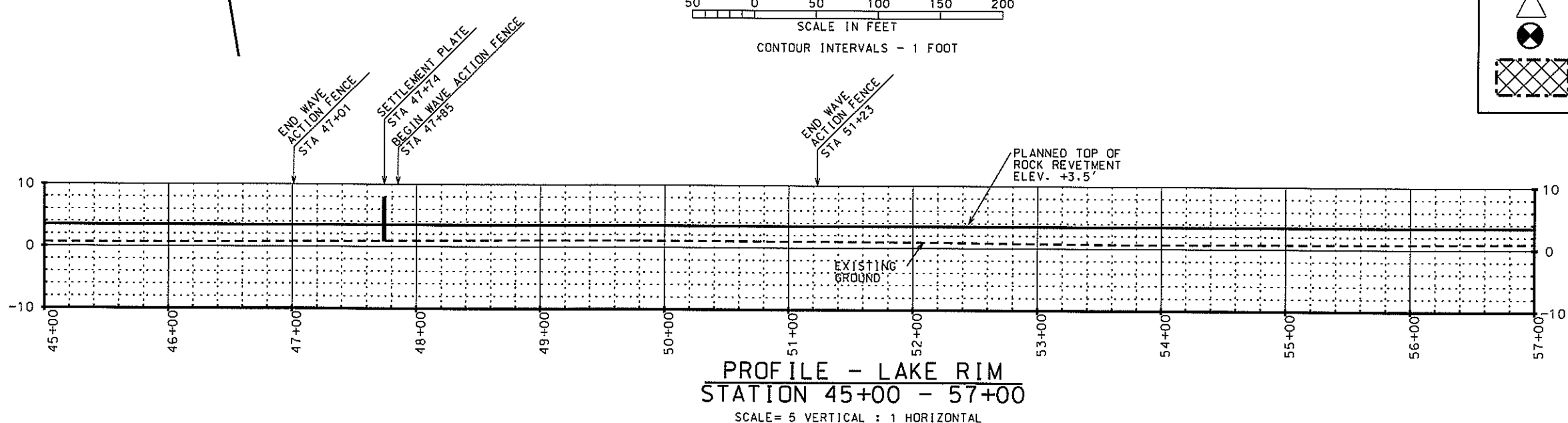


PLAN - LAKE RIM
 STATION 45+00 - 57+00
 SCALE IN FEET
 50 0 50 100 150 200
 CONTOUR INTERVALS - 1 FOOT

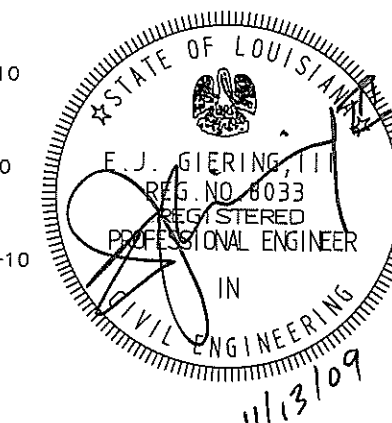
DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88

LEGEND

- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL.
NOT REQUIRED
CONTRACTOR'S OPTION



PROFILE - LAKE RIM
 STATION 45+00 - 57+00
 SCALE = 5 VERTICAL : 1 HORIZONTAL



Date	11/09
Approved by	F. J. GIERING, III
Title	STATE CONSERVATION ENGINEER
Date	03/08
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	
Checked	B. STICKER
Date	11/09
Title	

**SITE PLAN - STA. 45+00-STA. 57+00
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA**

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE

CAD FILENAME
 LA327008.DGN
 PROJECT NO.
 LA327
 SHEET NO 08 OF 20

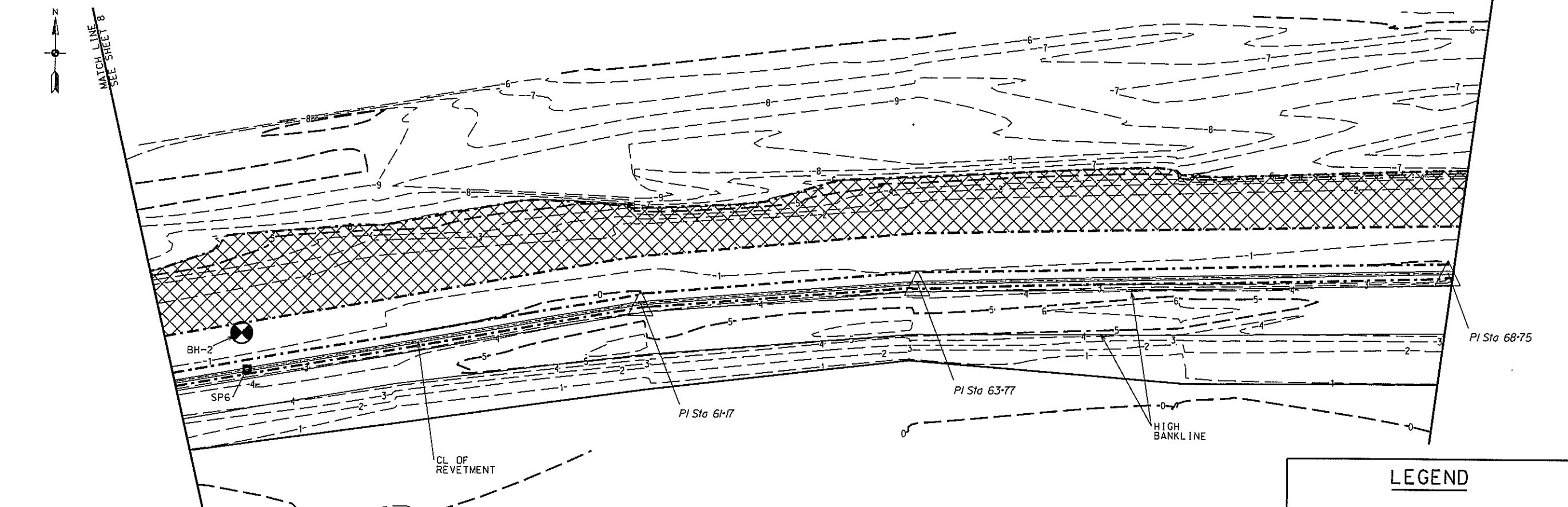
PI #	Station	Northing (Y)	Easting (X)
17	53+76	321067.46	3423741.29
18	61+17	321195.09	3424471.17
19	63+77	321215.76	3424730.57
20	68+75	321228.44	3425228.21
21	73+72	321216.31	3425724.76

PI #	Station	Northing (Y)	Easting (X)
18	53+76	321110.61	3423732.51
19	61+17	321237.99	3424463.67
20	63+77	321262.60	3425226.97
21	68+75	321272.22	3425226.97
22	73+72	321259.11	3425725.80

NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88

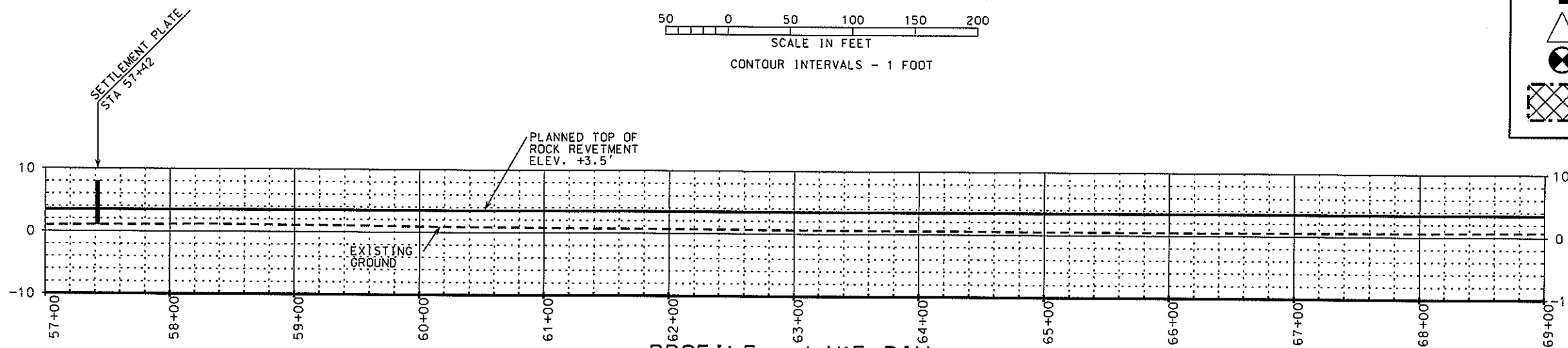
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 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES



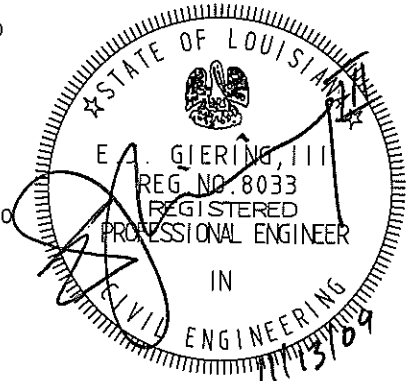
PLAN - LAKE RIM
 STATION 57+00 - 69+00
 SCALE IN FEET
 CONTOUR INTERVALS - 1 FOOT

LEGEND

- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION



PROFILE - LAKE RIM
 STATION 57+00 - 69+00
 SCALE= 5 VERTICAL : 1 HORIZONTAL



Date	Approved by	Title
11/09	E. J. GJERDING, III	STATE OBSERVATION ENGINEER
03/08	R. FAULKNER	DESIGNED
03/08	D. WILMORE	DRAWN
11/09	B. STICKER	CHECKED

SITE PLAN - STA. 57+00 - STA. 69+00
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

NO.	DATE	APPR.	TITLE

CAD FILENAME: LA327009.DGN
 PROJECT NO.: LA327
 SHEET NO. 09 OF 20

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



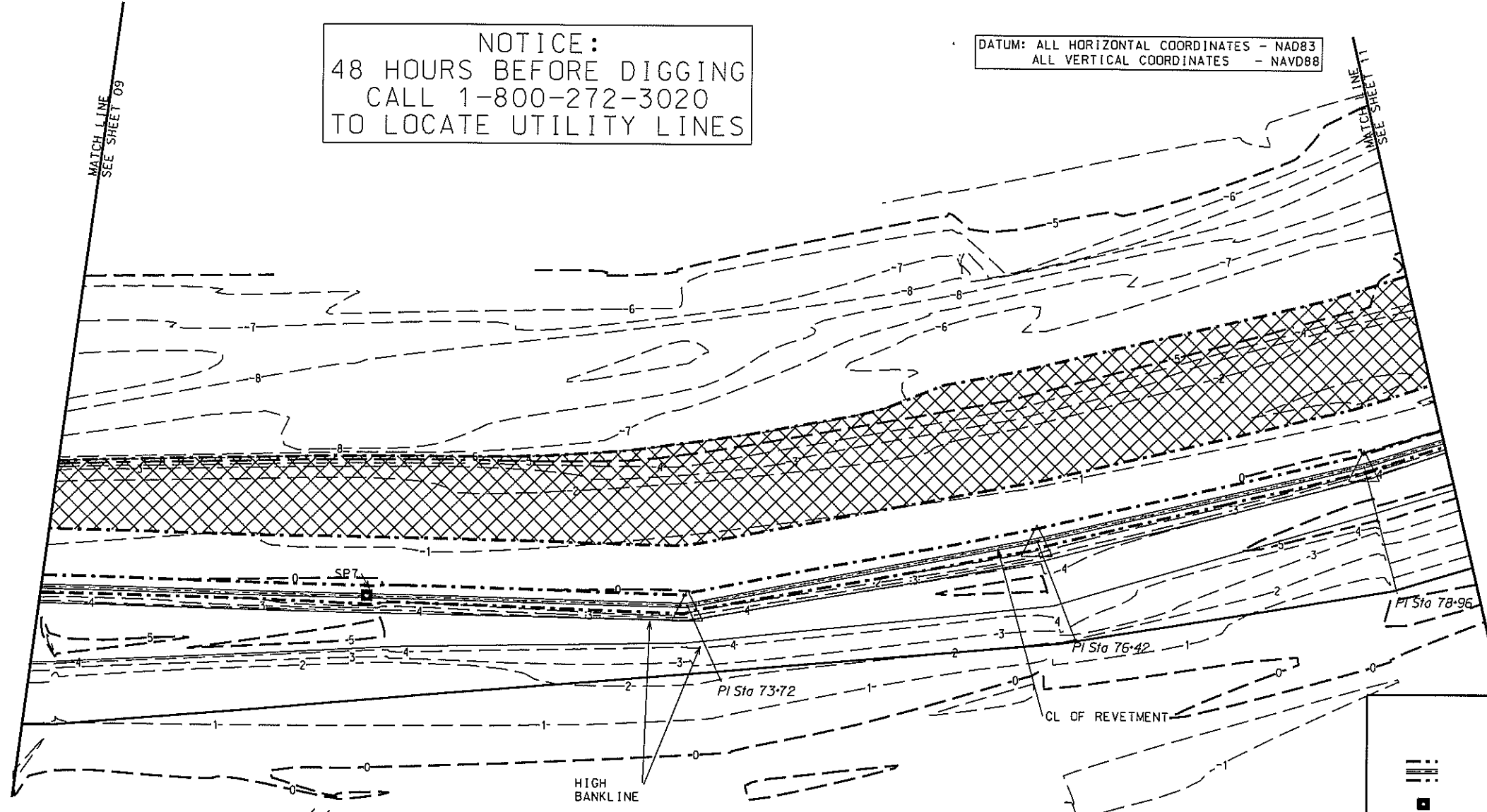
ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
20	68+75	321228.44	3425228.21
21	73+72	321216.31	3425724.76
22	76+42	321267.30	3425990.03
23	78+96	321325.99	3426237.73
24	81+49	321401.08	3426478.74

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
21	68+75	321272.22	3425226.97
22	73+72	321259.11	3425725.80
23	76+42	321309.77	3425977.39
24	78+96	321368.51	3426228.58
25	81+49	321442.27	3426465.91

NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

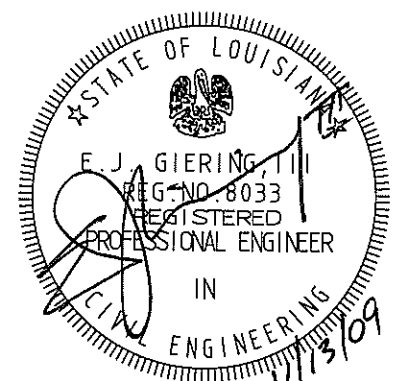
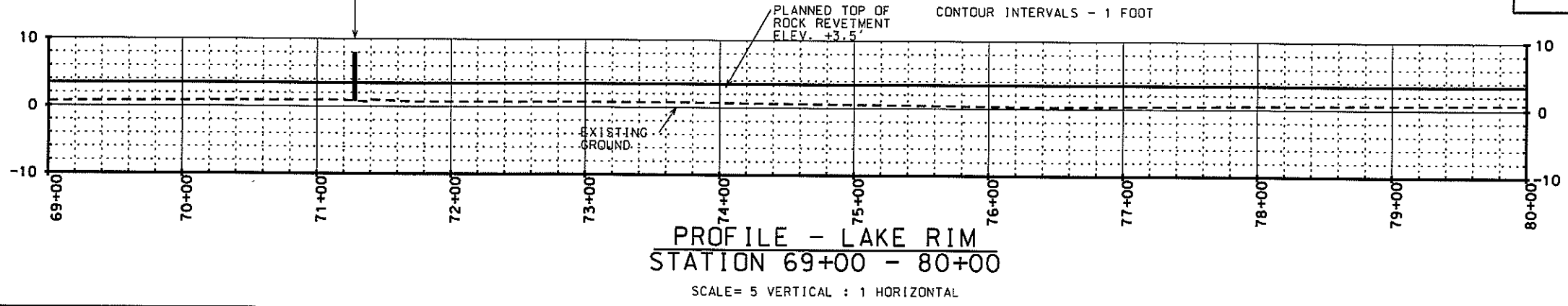
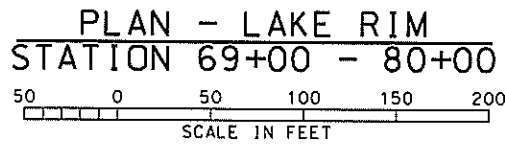
NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88



LEGEND

- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL. NOT REQUIRED CONTRACTOR'S OPTION



Approved by	E. J. GIERING, III	Date	11/09
Title	STATE CONSERVATION ENGINEER		
Location	MONROE, LOUISIANA		
Designed	R. FAULKNER	Date	03/08
Drawn	D. WILMORE	Date	03/08
Traced			
Checked	B. STICKER	Date	11/09
Title			

SITE PLAN - STA. 69+00-STATION 80+00
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE

CAD FILENAME: LA327010.DGN
 PROJECT NO.: LA327
 SHEET NO. 10 OF 20



ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
23	78+96	321325.99	3426237.73
24	81+49	321401.08	3426478.74
POE	85+45	321536.70	3426851.10

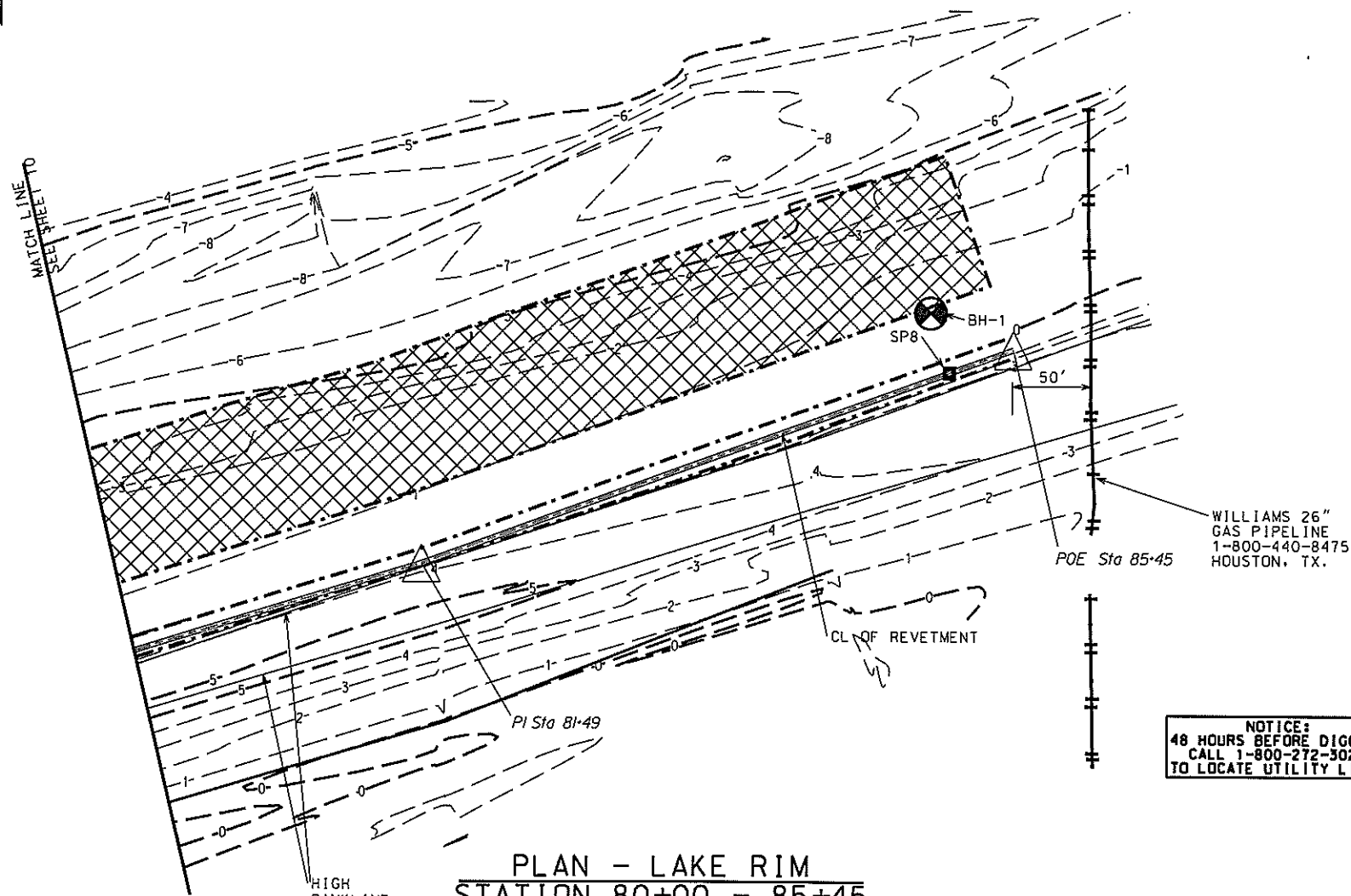
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
24	78+96	321368.51	3426228.58
25	81+49	321442.27	3426465.91
POE	85+45	321577.31	3426836.18

NOTE:
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.
 SEE SHEET 19 FOR PIPELINE DETAILS

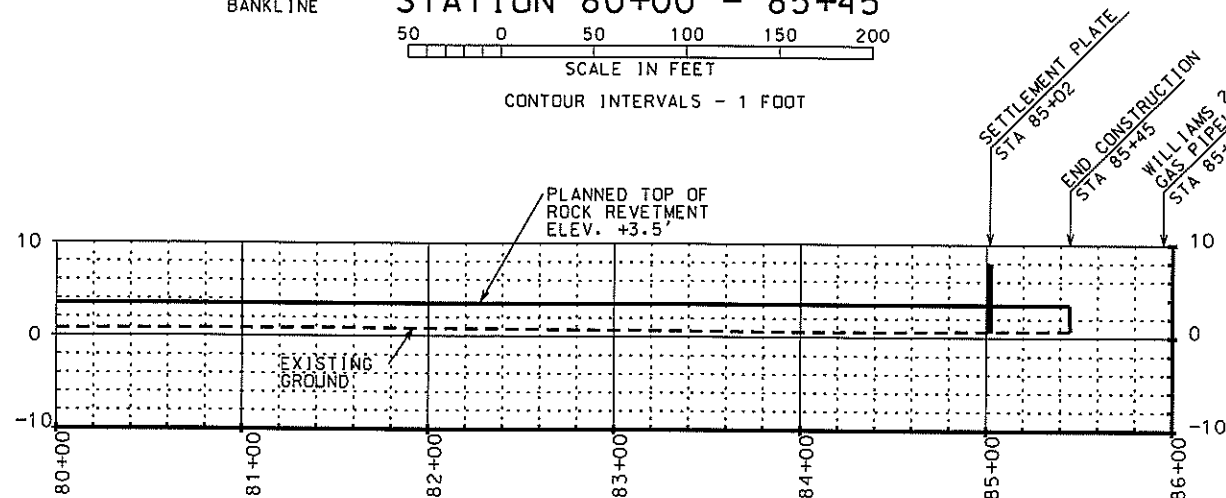
DATUM: ALL HORIZONTAL COORDINATES - NAD83
 ALL VERTICAL COORDINATES - NAVD88

NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

NOTICE:
 48 HOURS BEFORE DIGGING
 CALL 1-800-272-3020
 TO LOCATE UTILITY LINES

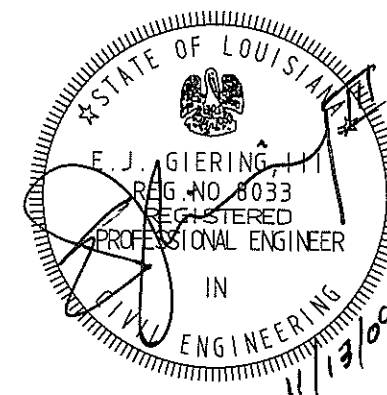


PLAN - LAKE RIM
 STATION 80+00 - 85+45
 SCALE IN FEET
 CONTOUR INTERVALS - 1 FOOT



PROFILE - LAKE RIM
 STATION 80+00 - 85+45
 SCALE= 5 VERTICAL : 1 HORIZONTAL

LEGEND	
	ROCK REVETMENT
	SP-SETTLEMENT PLATE
	PI OF ROCK REVETMENT
	BH-SOIL BORING
	FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION



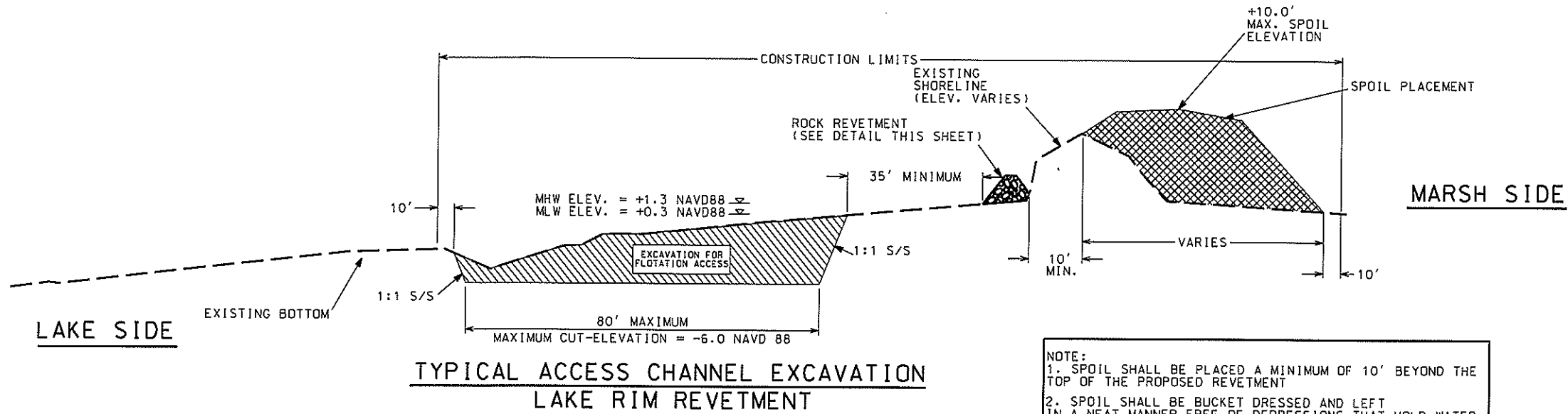
NO.	DATE	APPR.	TITLE

DESIGNED	DATE	APPROVED BY	DATE
R. FAULKNER	03/08	E.J. GIERING, III	11/09
D. WILMORE	03/08	STATE CONSERVATION ENGINEER	
		ALEXANDRIA, LOUISIANA	

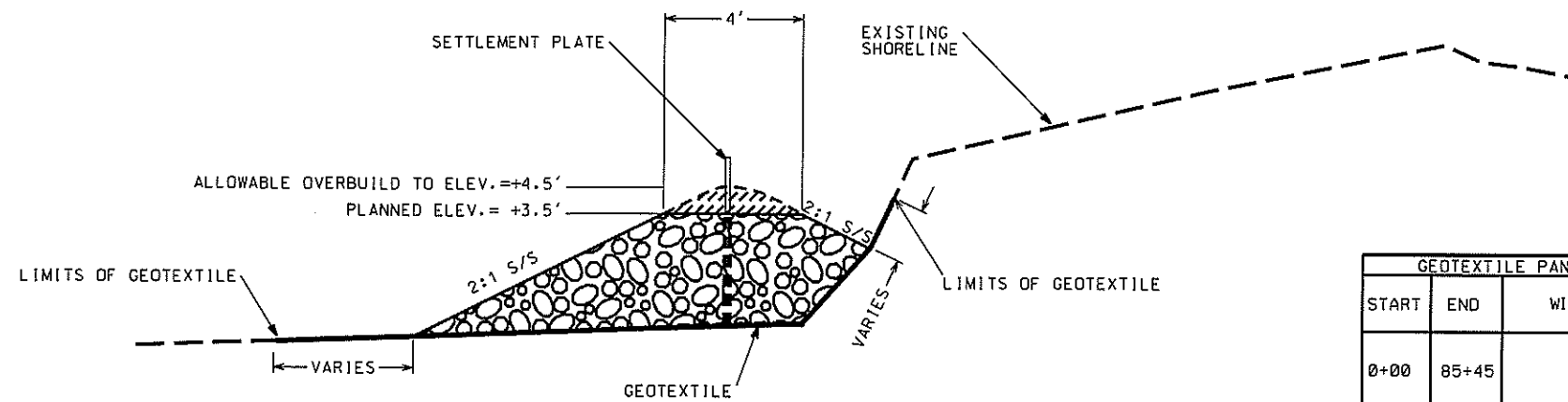
CAD FILENAME	PROJECT NO.	SHEET NO.
LA327011.DGN	LA327	11 OF 20

SITE PLAN - STA. 80+00 - STA. 85+45
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

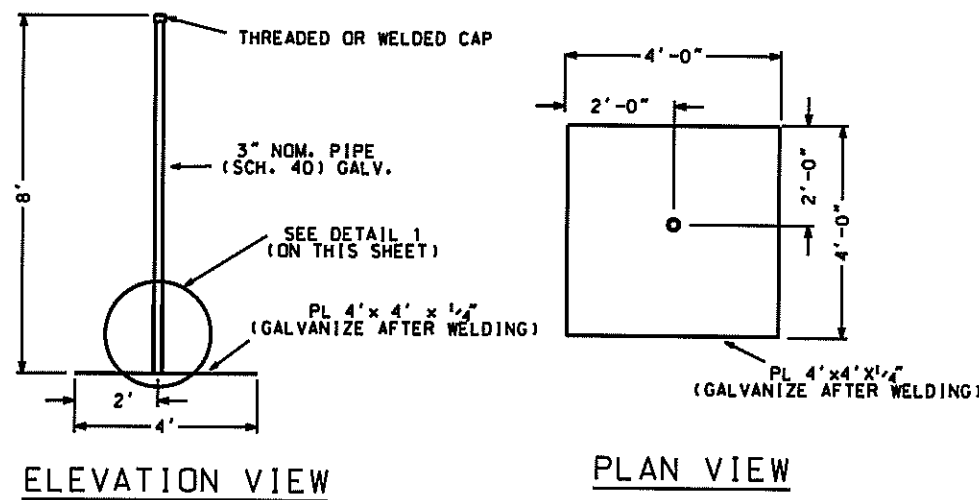
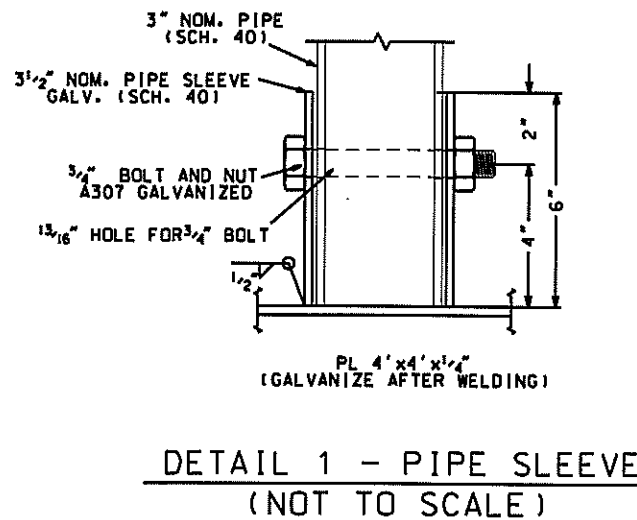


NOTE:
 1. SPOIL SHALL BE PLACED A MINIMUM OF 10' BEYOND THE TOP OF THE PROPOSED REVETMENT
 2. SPOIL SHALL BE BUCKET DRESSED AND LEFT IN A NEAT MANNER FREE OF DEPRESSIONS THAT HOLD WATER
 3. SEE SHTS 4-11 FOR ACCESS CHANNEL COORDINATES

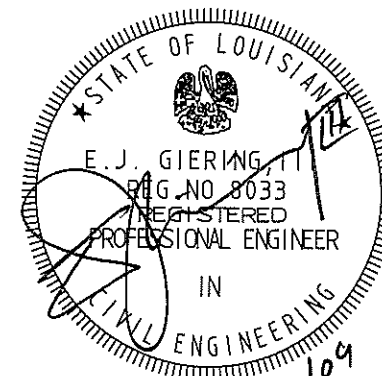


GEOTEXTILE PANEL WIDTH		
START	END	WIDTH (FT)
0+00	85+45	23

ROCK GRADATION	
PERCENT LIGHTER BY WEIGHT	ASTM D6092-97 R-300 ROCK R1 PRAP ROCK SIZE BY WEIGHT
100	700 LBS.
50-100	300 LBS.
15-50	50 LBS.
0-15	45 LBS.



NOTE:
 IF THREADED CAP IS USED, GILD GALVANIZE THREADS AFTER INSTALLATION.



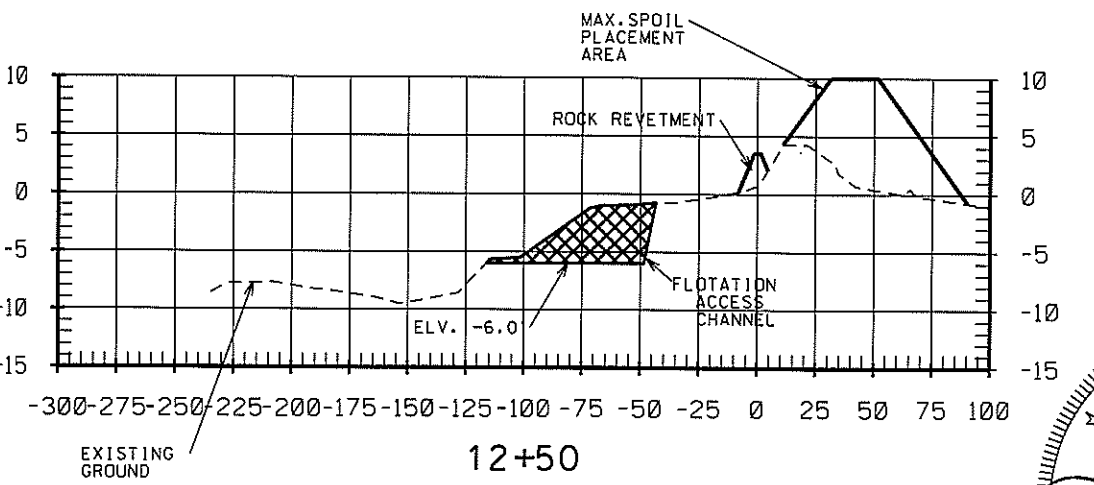
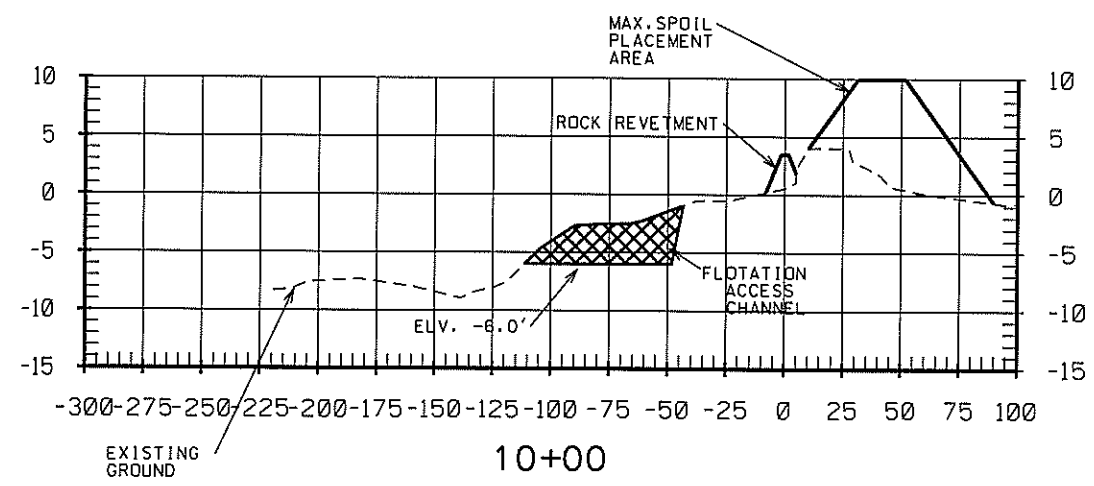
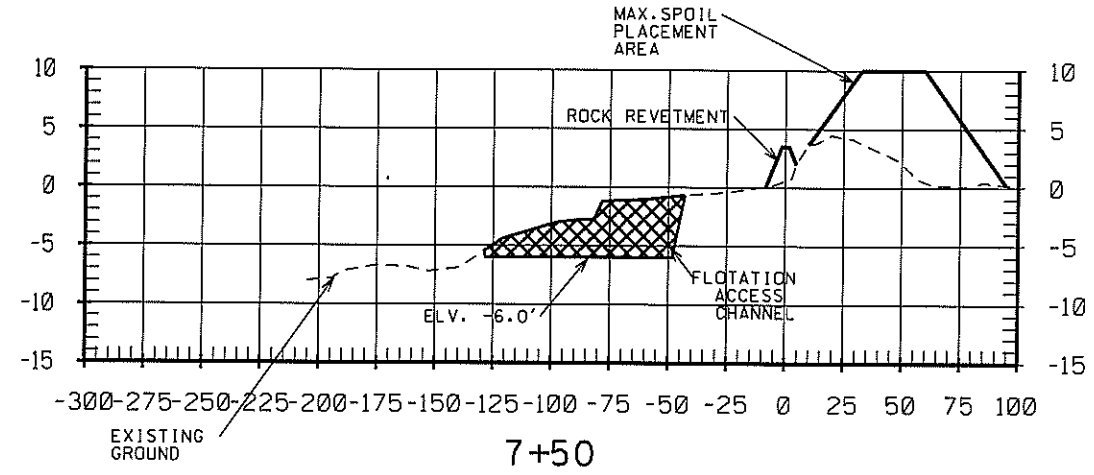
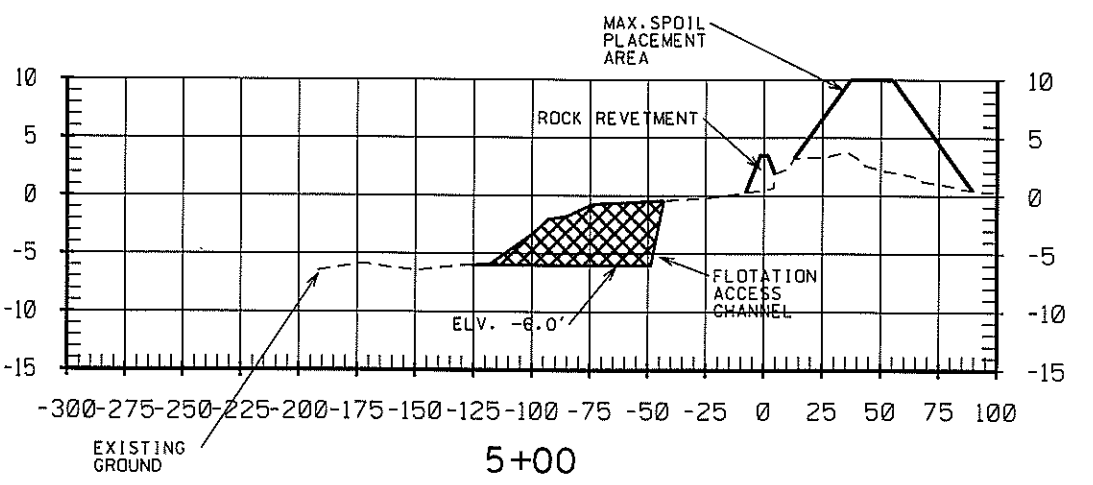
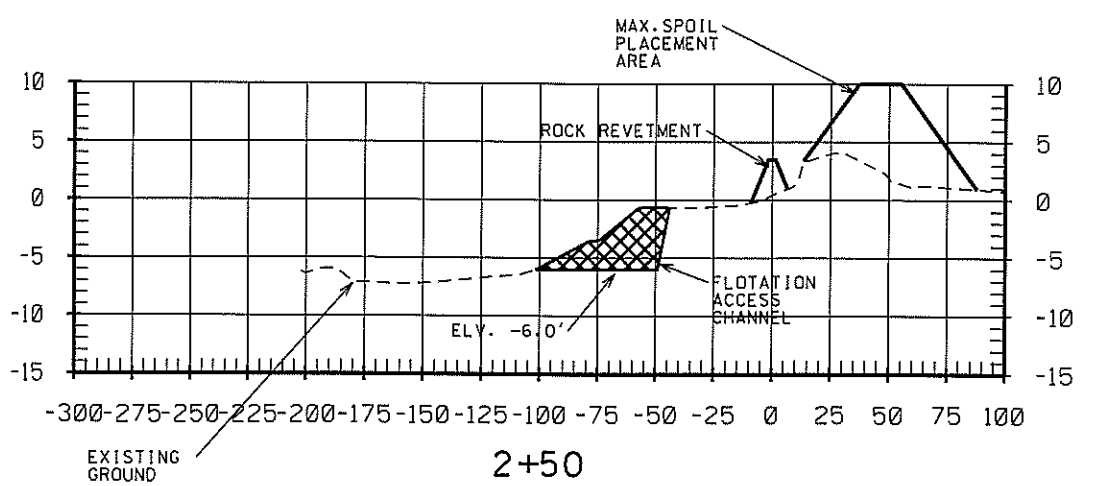
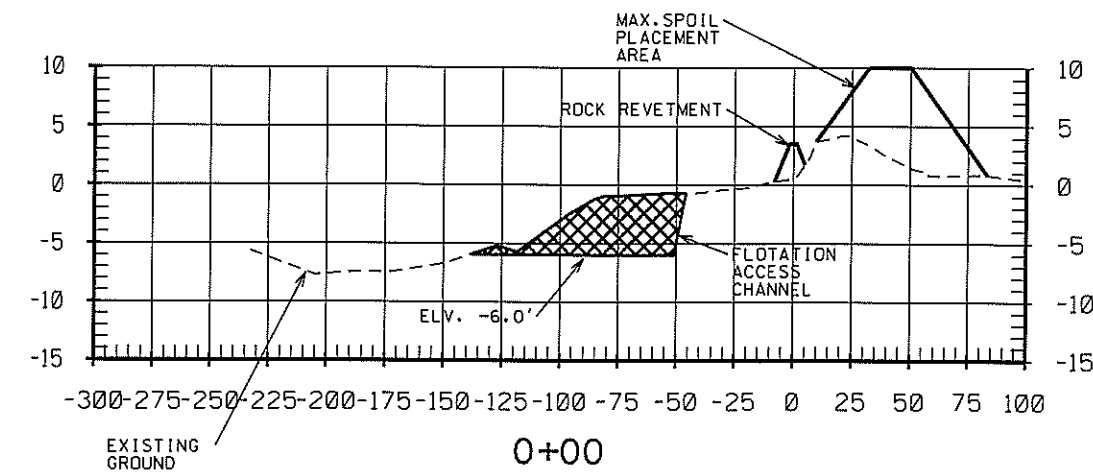
TYPICAL SECTIONS & SETTLEMENT PLATE DETAILS
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

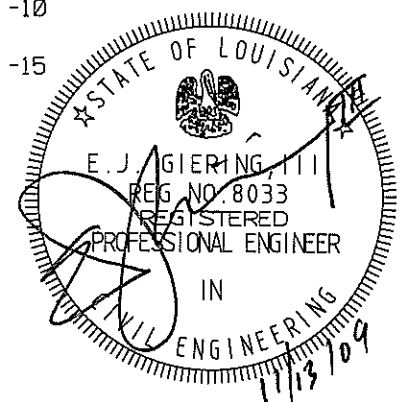
NO.	DATE	APPR.	TITLE

Designed <u>R. FAULKNER</u>	Date <u>03/08</u>	Approved by <u>E.J. GIERING, P.E.</u>	Date <u>11/09</u>
Drawn <u>D. WILLMORE</u>	Date <u>03/08</u>	Title <u>STATE CONSERVATION ENGINEER</u>	Title <u>ALEXANDRIA, LA.</u>
Traced <u>B. STICKER</u>			
Checked <u>B. STICKER</u>			

CAD FILENAME: LA327013.DGN
 PROJECT NO.: LA327
 SHEET NO. 12 OF 20



SCALE: VERTICAL 5:1 HORIZONTAL



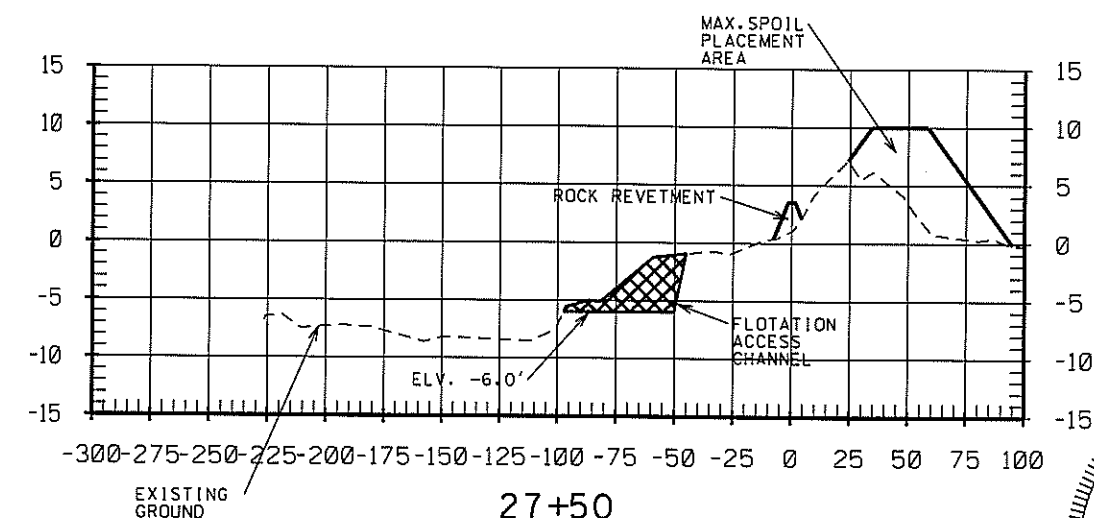
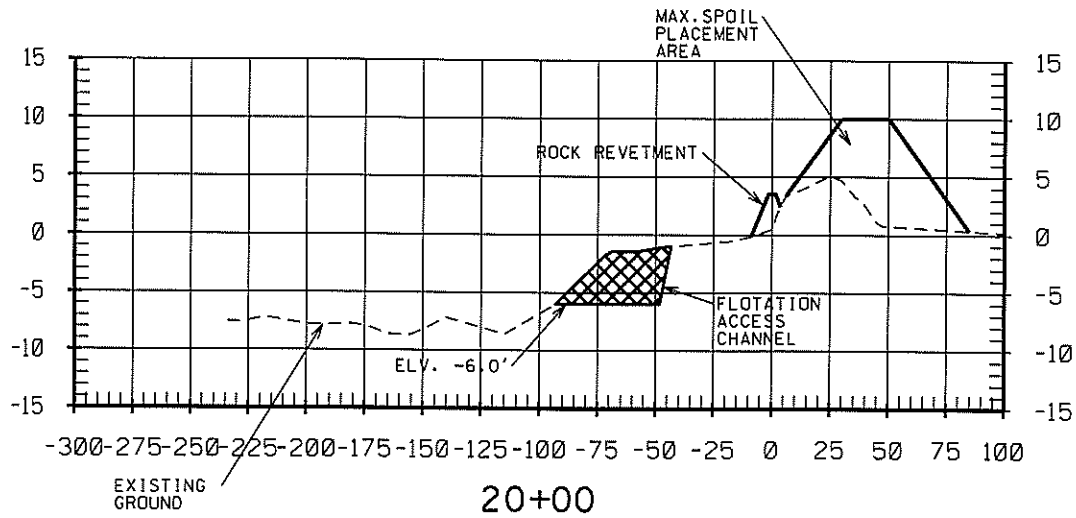
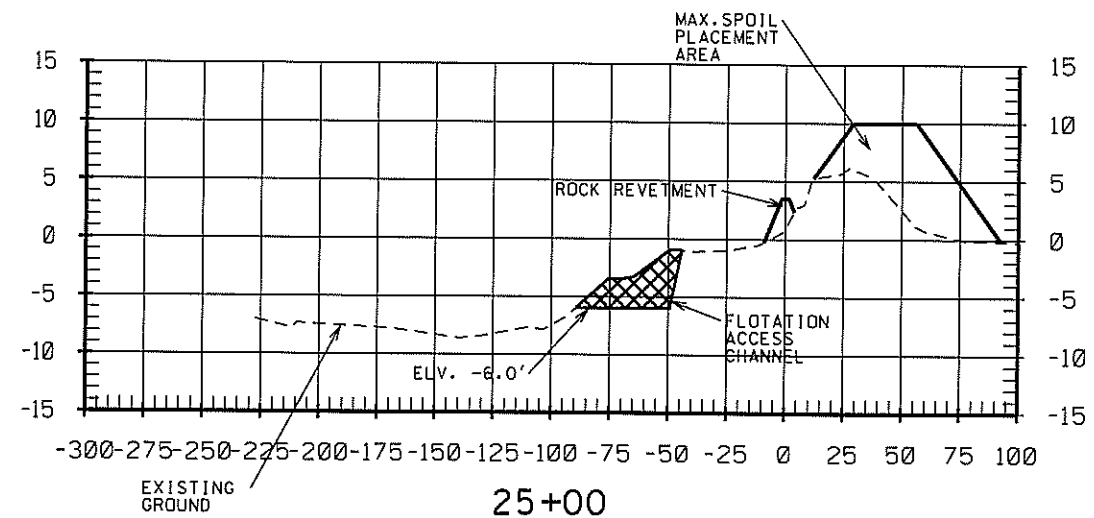
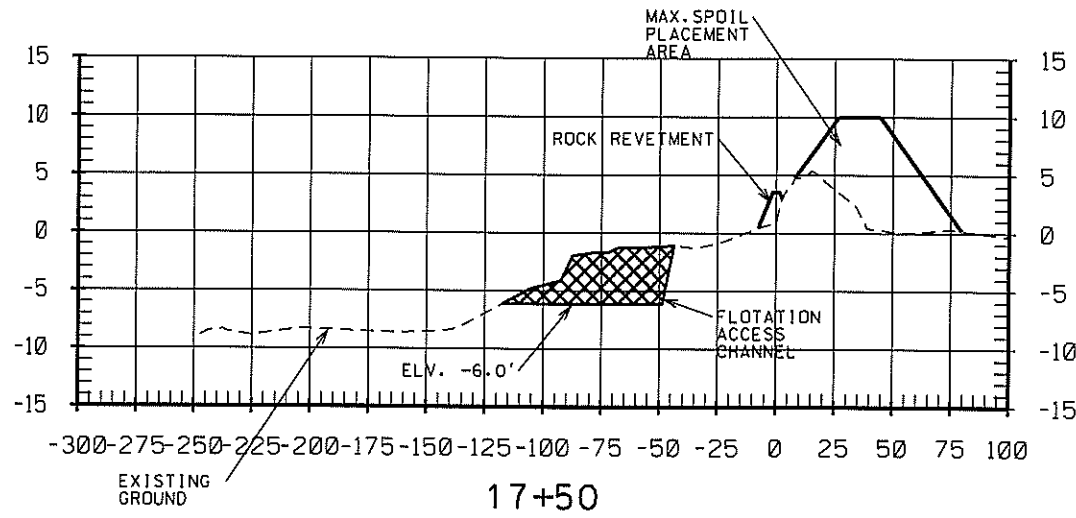
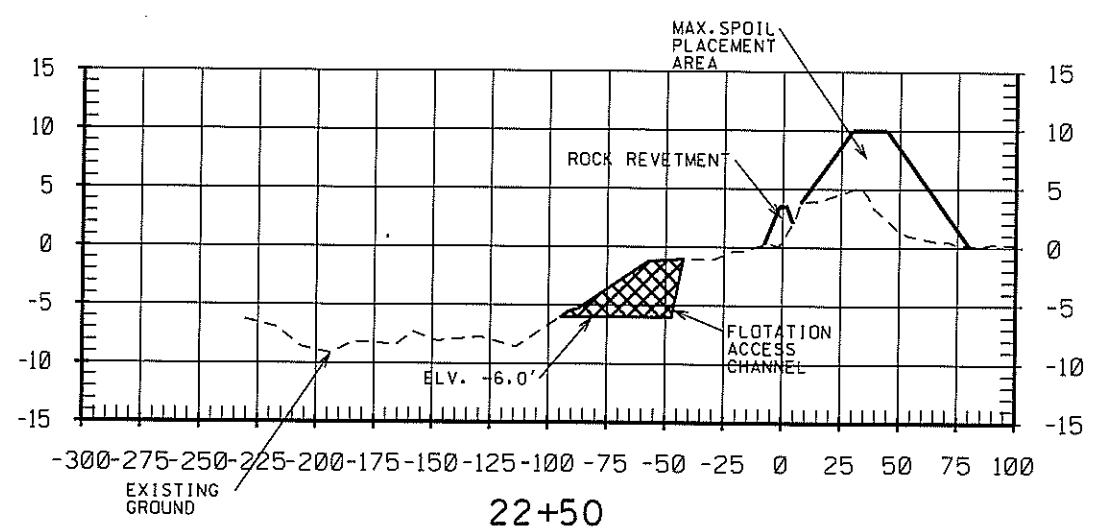
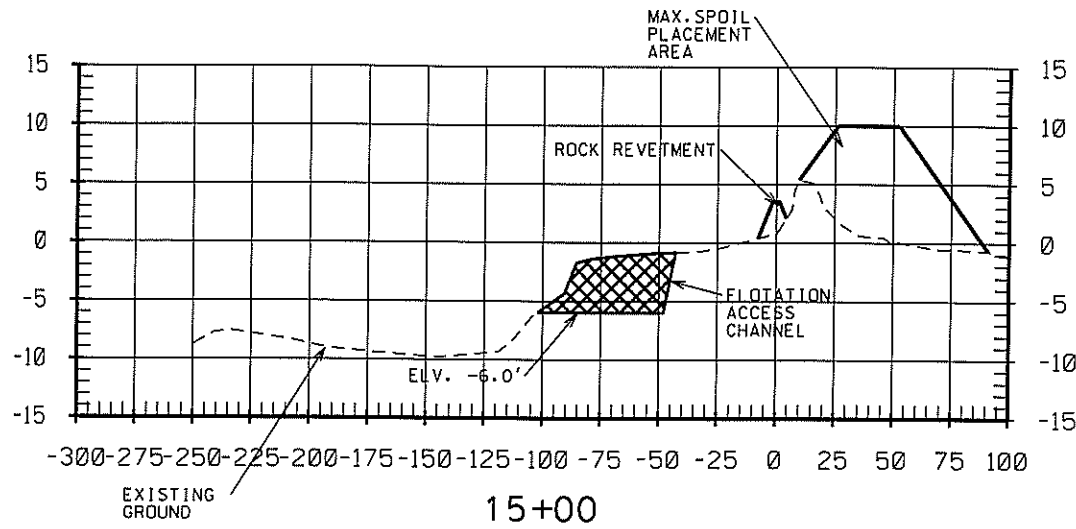
Designed	R. FAULKNER	Date	03/08
Drawn	D. WILMORE	Approved by	E. J. GIERING, III
Traced		Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER		11/09
			REHEMBAU, LOUISIANA

X-SECTION LAKE RIM
REVTMENT STA. 0+00-12+50
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

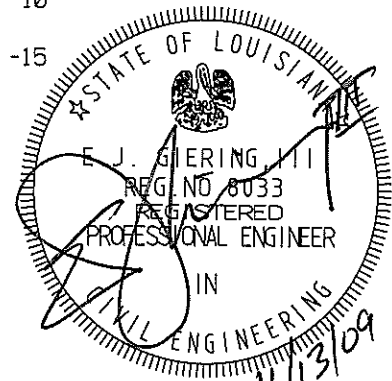
REVISIONS	DATE	REV.	BY	TITLE

CAD FILENAME
LA327013.DGN
PROJECT NO.
LA327
SHEET NO. 13 OF 20

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



SCALE: VERTICAL 5:1 HORIZONTAL



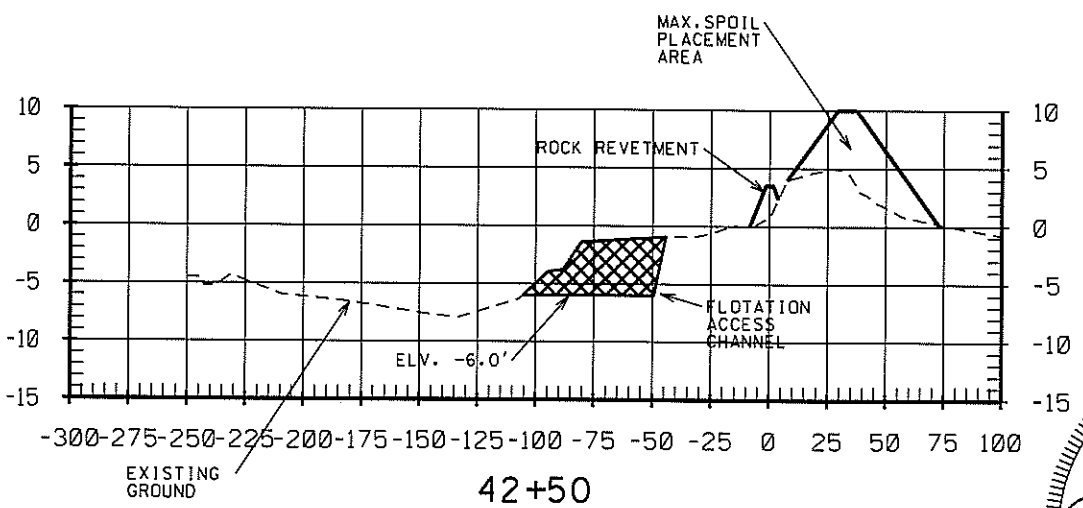
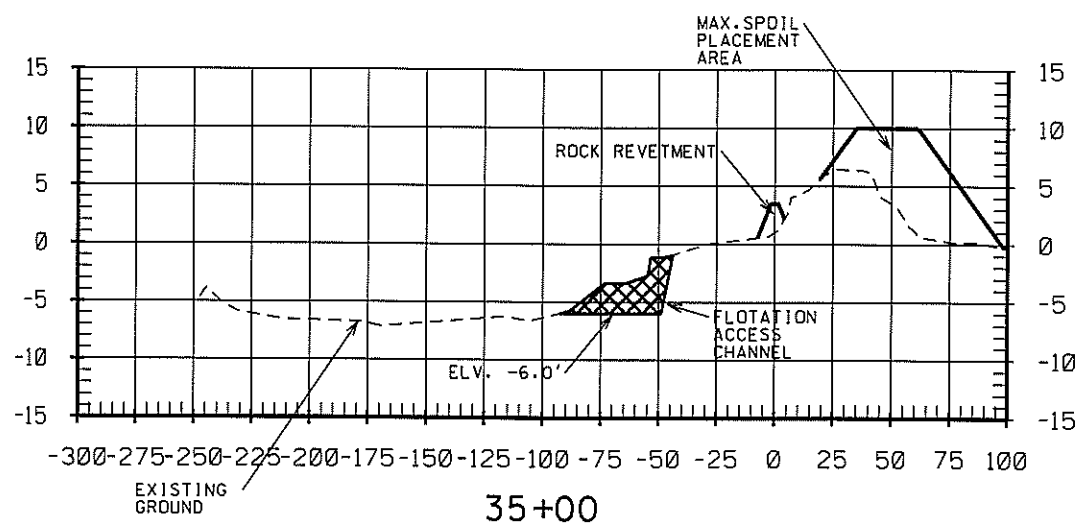
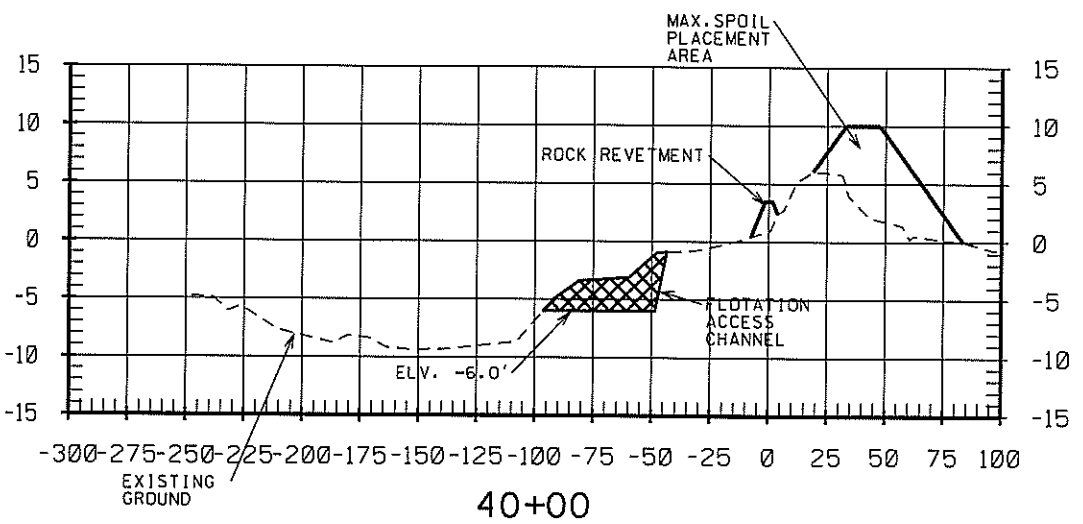
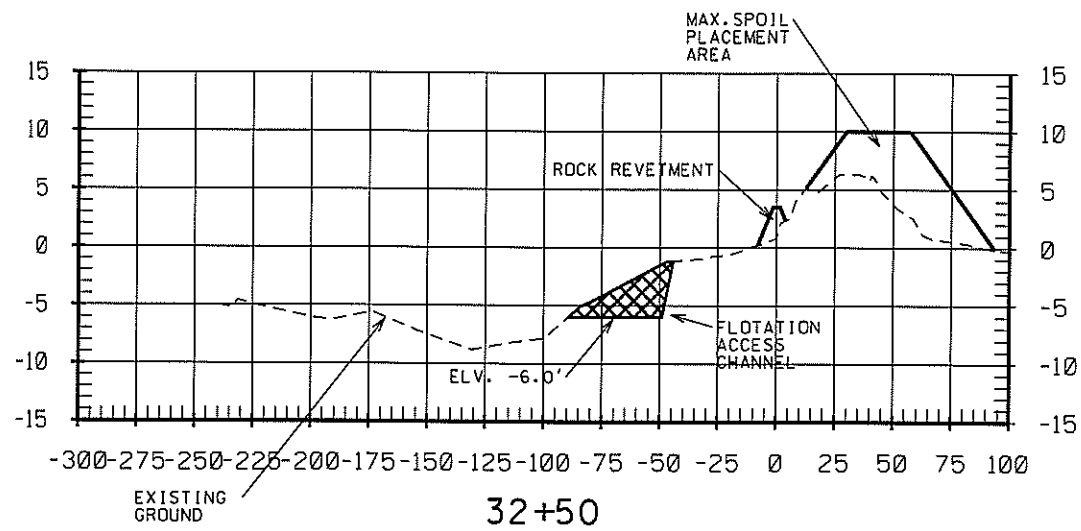
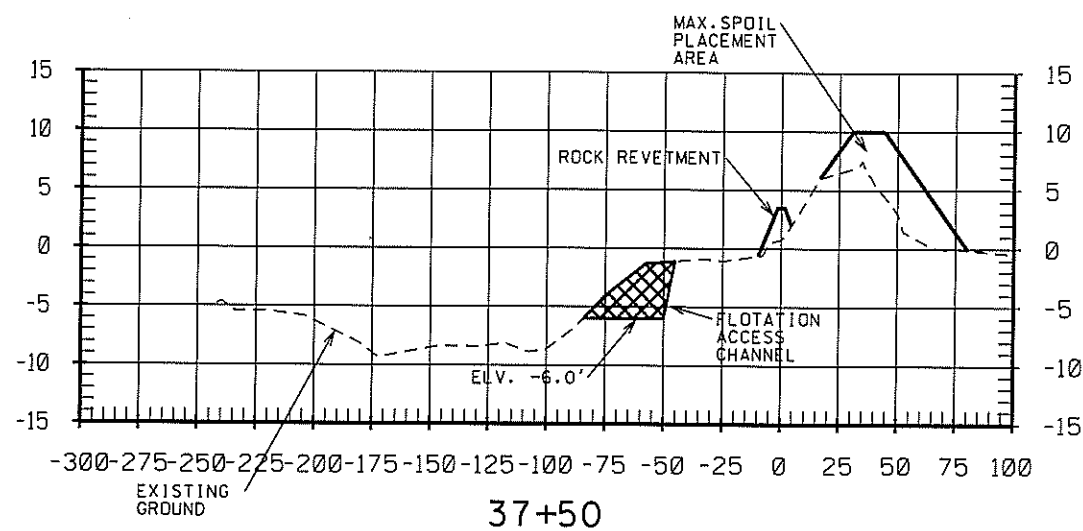
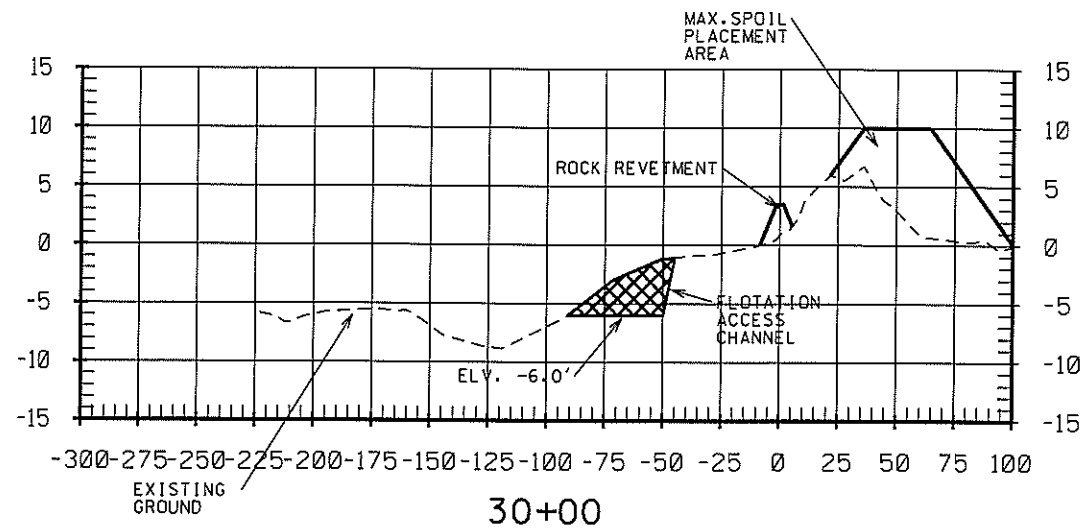
DESIGNED	R. FAULKNER	DATE	03/08	APPROVED BY	E. J. GIERING, III	DATE	11/09
DRAWN	D. WILLMORE	TITLE	STATE CONSERVATION ENGINEER				
TRACED	B. STICKER	TITLE	ALEXANDRIA, LOUISIANA				
CHECKED		TITLE					

**X-SECTION LAKE RIM
REVEMENT STA. 15+00-27+50
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA**

REV. NO.	DATE	BY	TITLE

CAD FILENAME
LA327014.DGN
PROJECT NO.
LA327
SHEET NO. 14 OF 20

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



SCALE: VERTICAL 5:1 HORIZONTAL

Date	11/09
Approved by	E. J. GIERANG, III
Approved Title	STATE CONSERVATION ENGINEER
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	B. STICKER
Checked	B. STICKER
Date	03/08
Approved by	E. J. GIERANG, III
Approved Title	STATE CONSERVATION ENGINEER
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	B. STICKER
Checked	B. STICKER

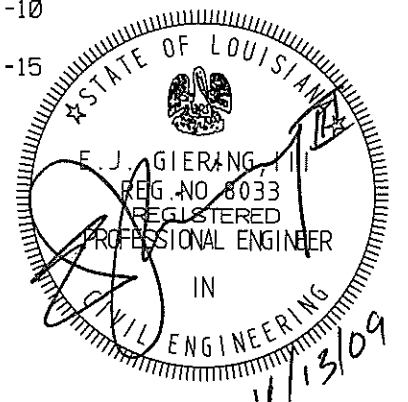
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 REVTMENT STA. 30+00-42+50
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA

REV. NO.	DATE	BY	TITLE

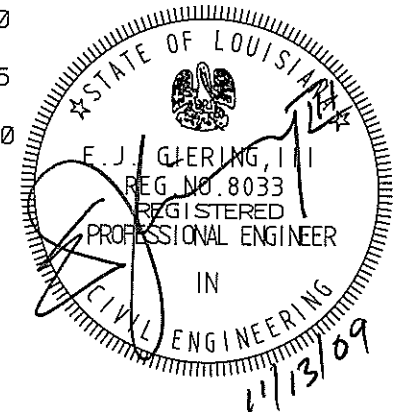
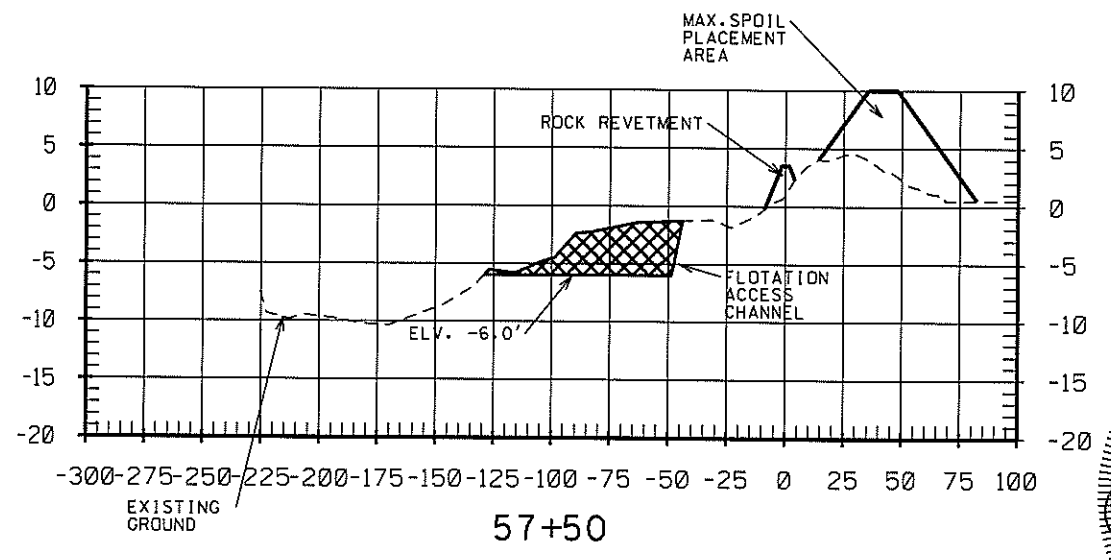
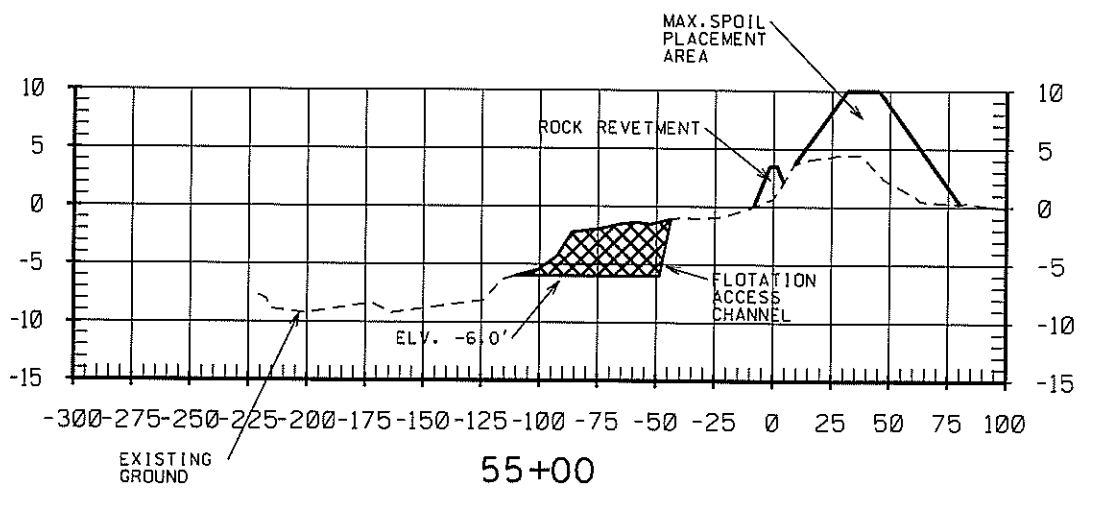
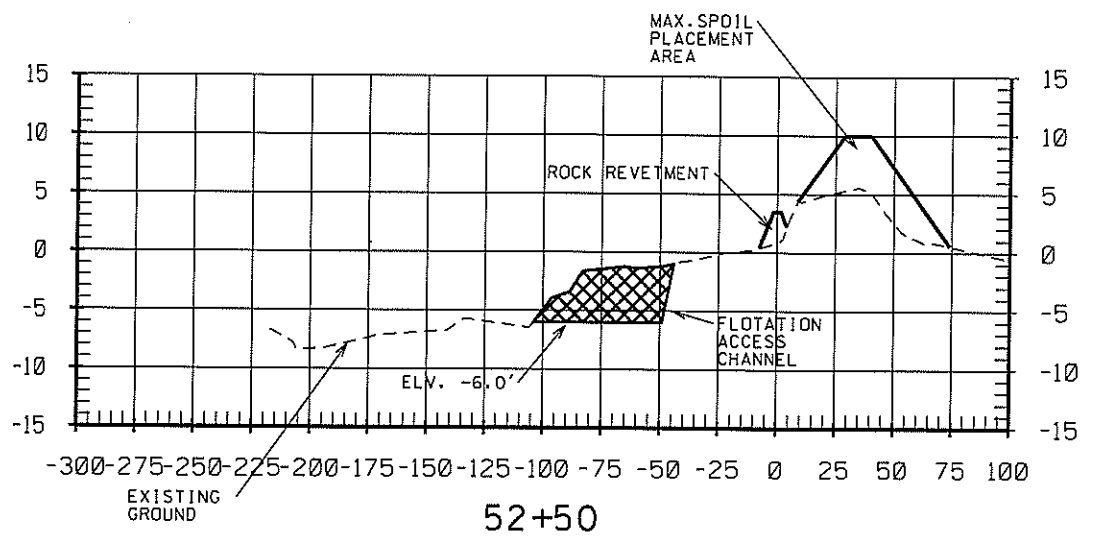
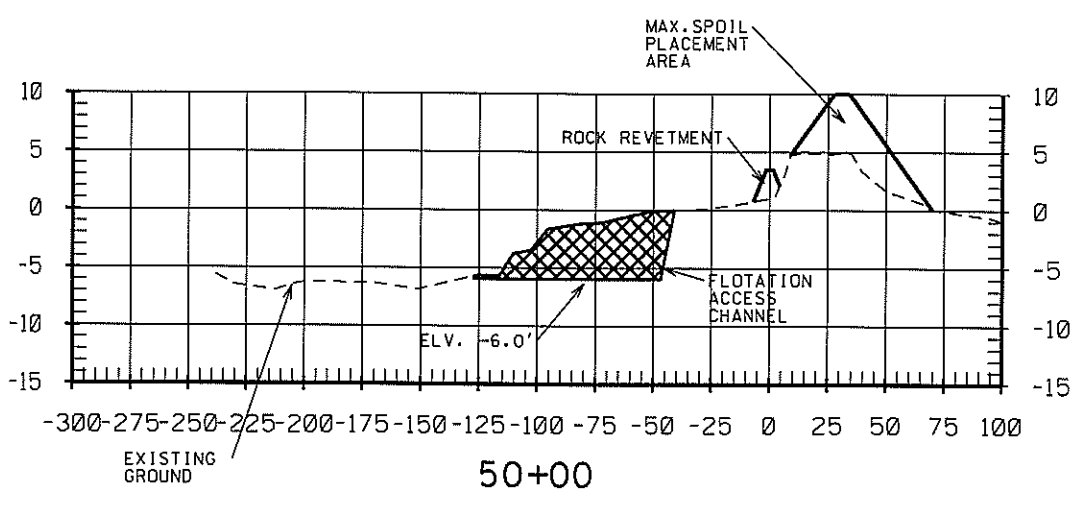
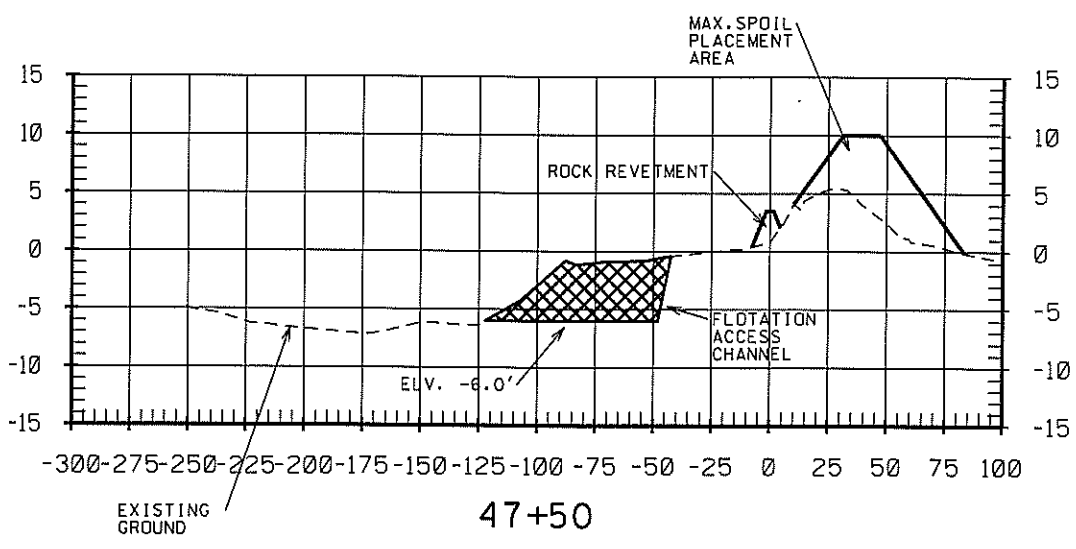
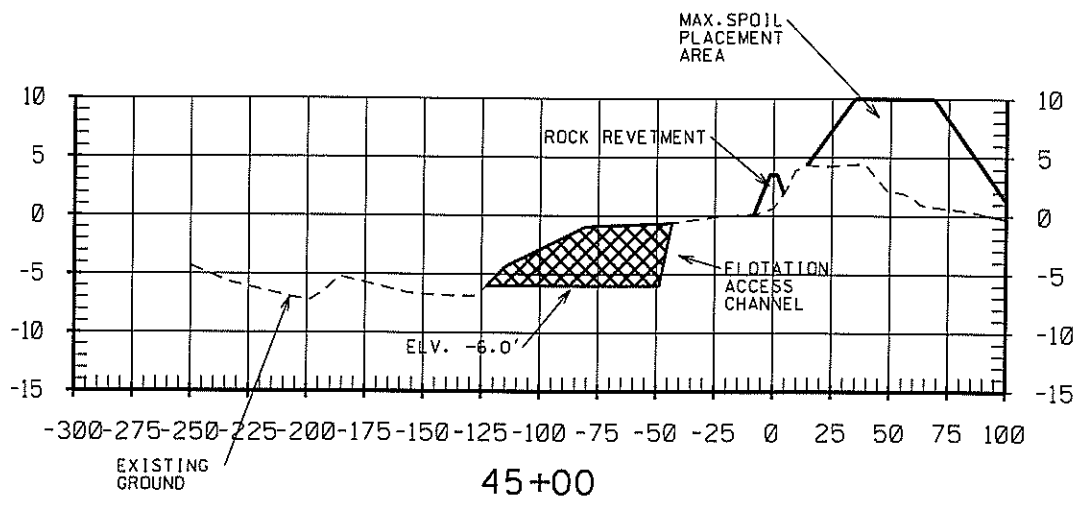
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LA327015.DGN

PROJECT NO.
LA327

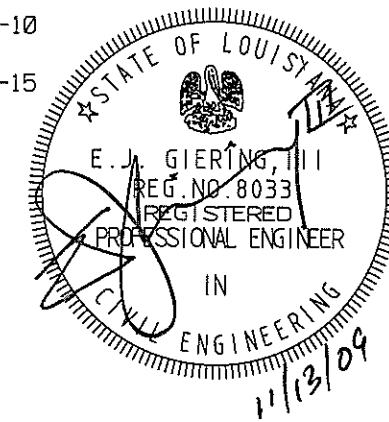
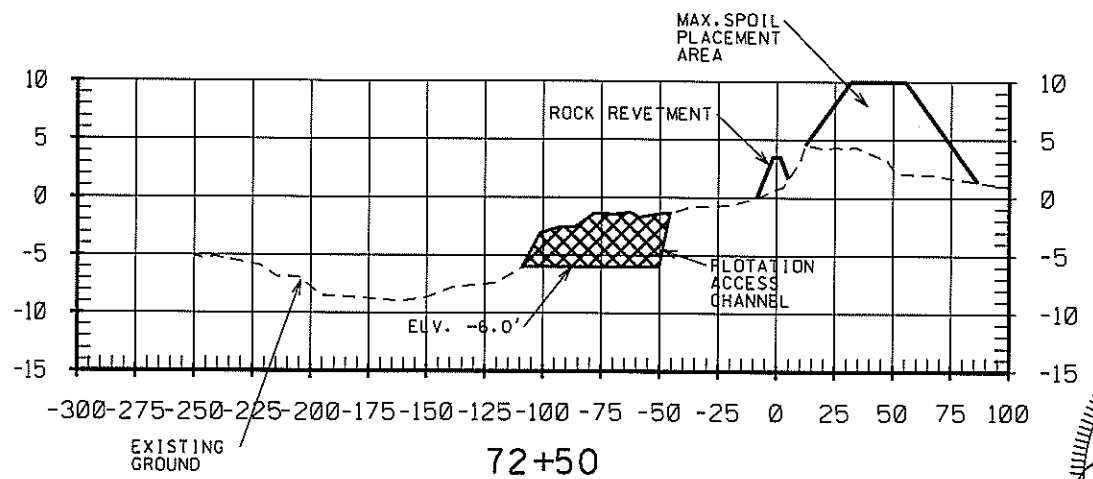
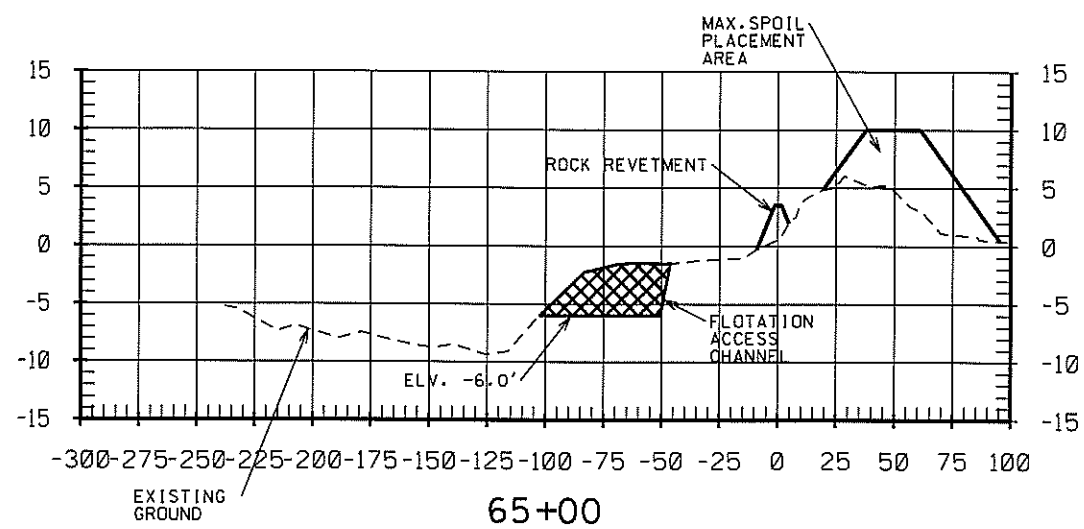
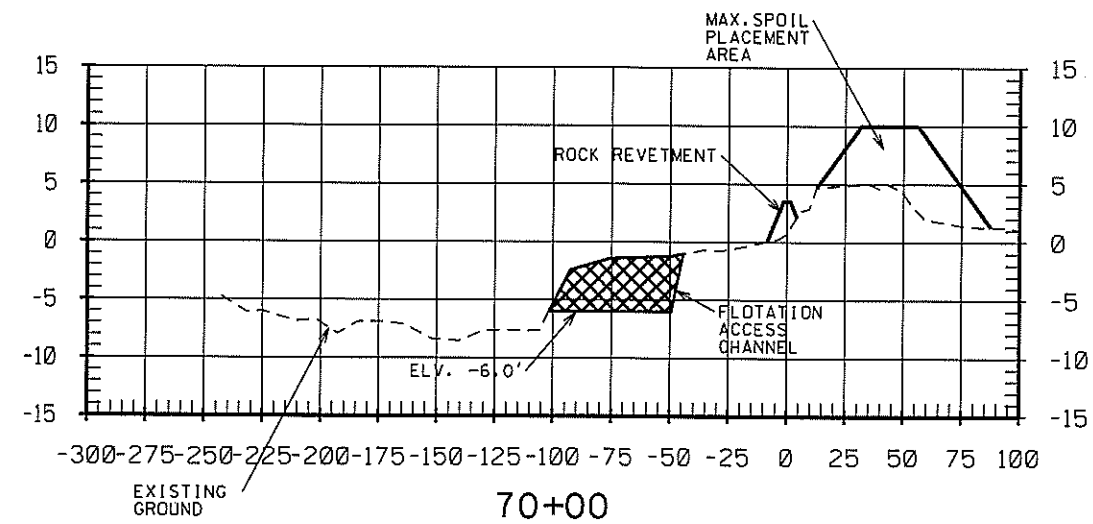
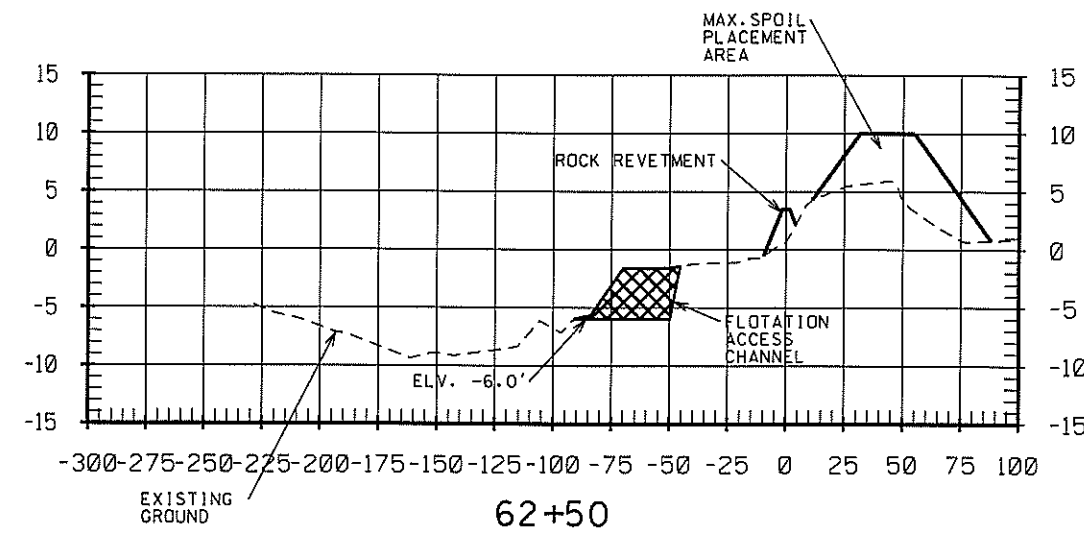
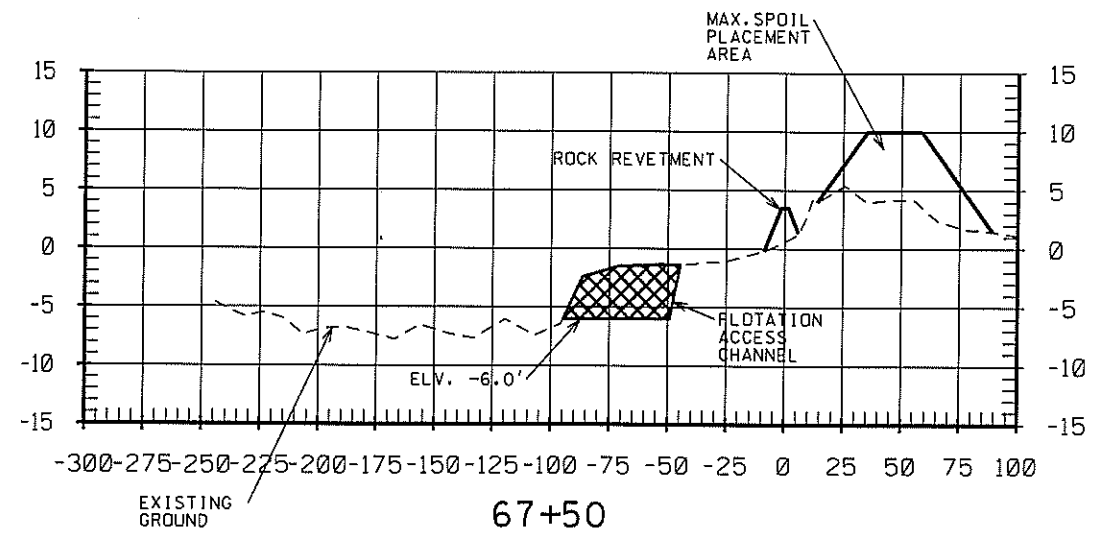
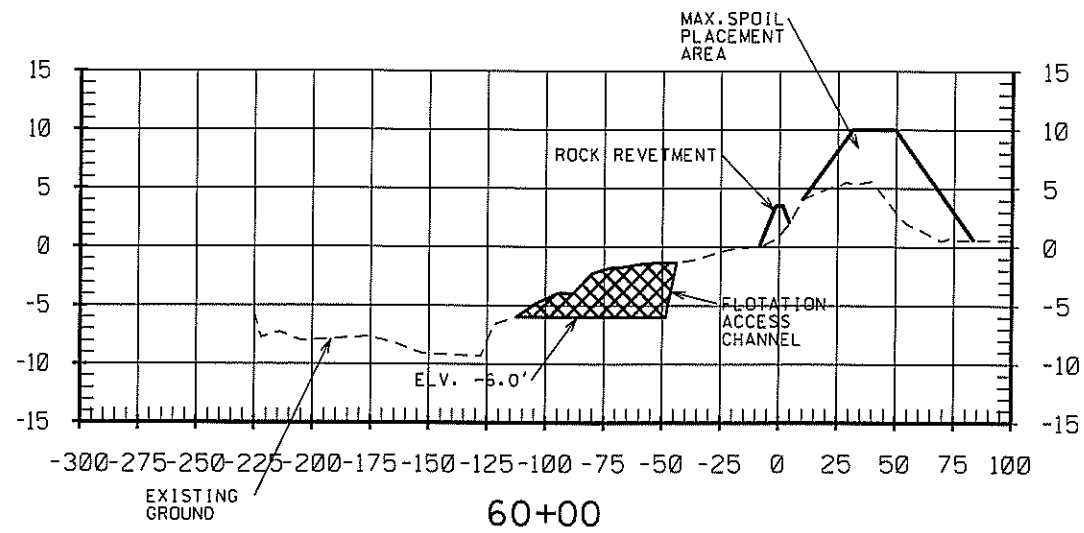
SHEET NO 15 OF 20



U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



Approved by T. J. GIERING, III STATE CONSERVATION ENGINEER MONROE, LOUISIANA	Date 11/09
Designed R. FAULKNER	Date 03/08
Drawn D. WILMORE	Title 03/08
Traced B. STICKER	Title 11/09
X-SECTION LAKE RIM REVETMENT STA. 45+00-57+50 TE-39 SOUTH LAKE DECADE CU#1 TERREBONNE PARISH, LOUISIANA	
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE	
REVISIONS DATE REV. NO. APPR. TITLE	CAD FILENAME LA327016.DGN PROJECT NO. LA327 SHEET NO. 16 OF 20



Date	11/09
Approved by	E.J. GIERING, III
Approved Title	SITE CONSERVATION ENGINEER
Drawn	D. WILMORE
Drawn Title	ALEXANDRIA, LOUISIANA
Traced	B. STICKER
Checked	B. STICKER
Checked Title	

X-SECTION LAKE RIM
 REVTMENT STA. 60+00-72+50
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA

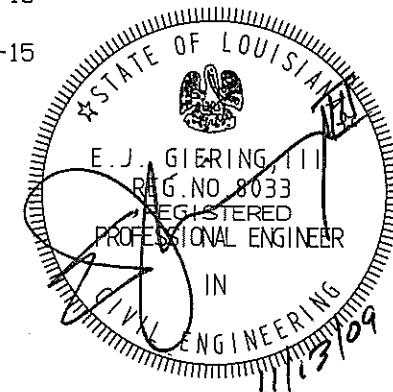
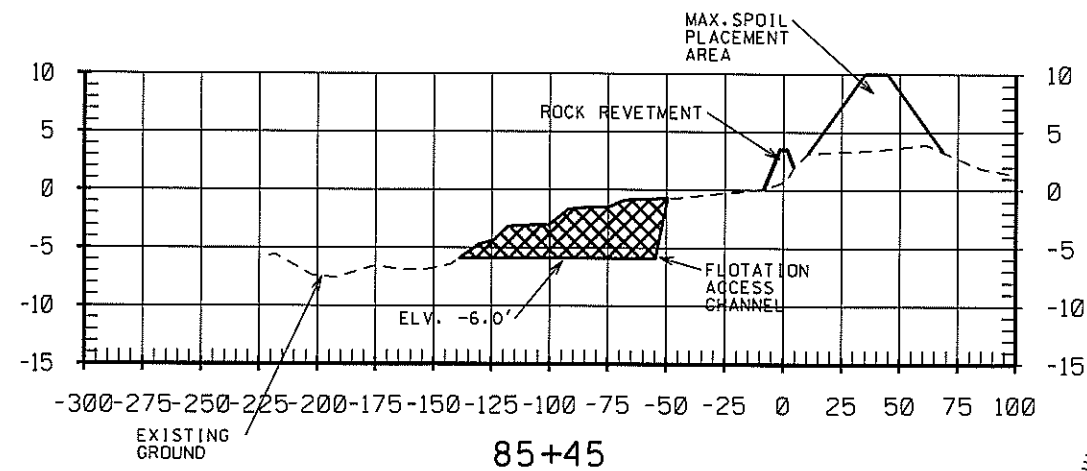
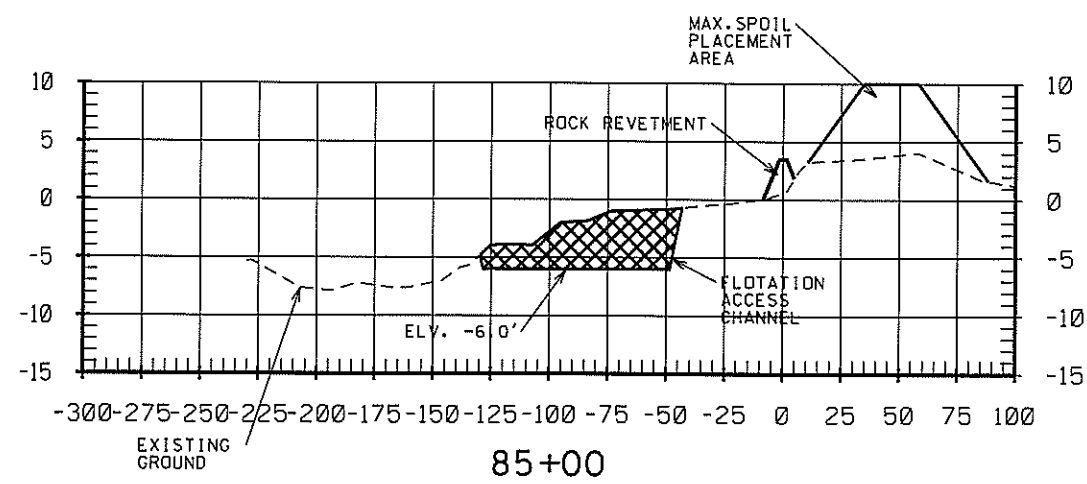
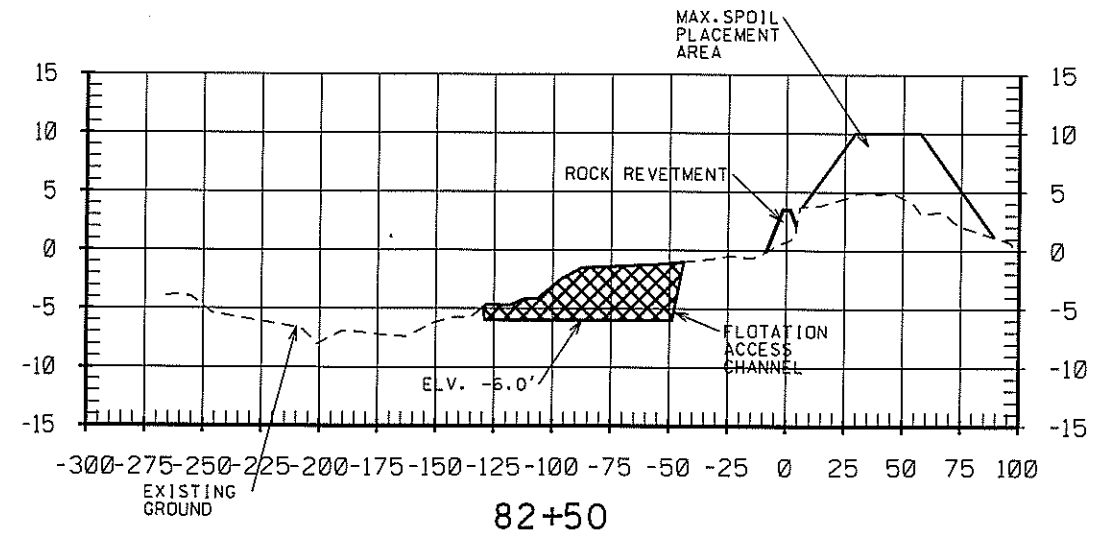
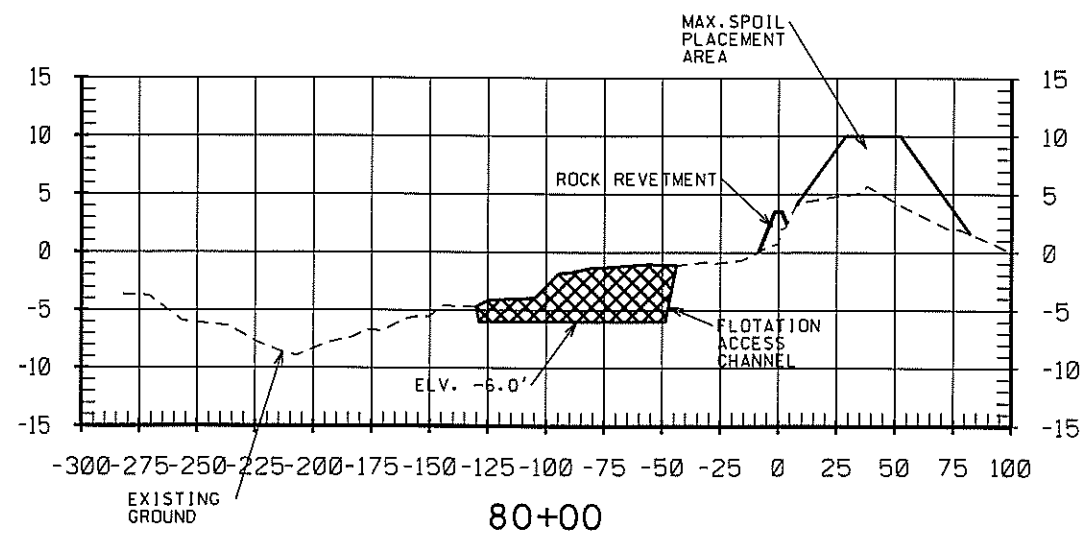
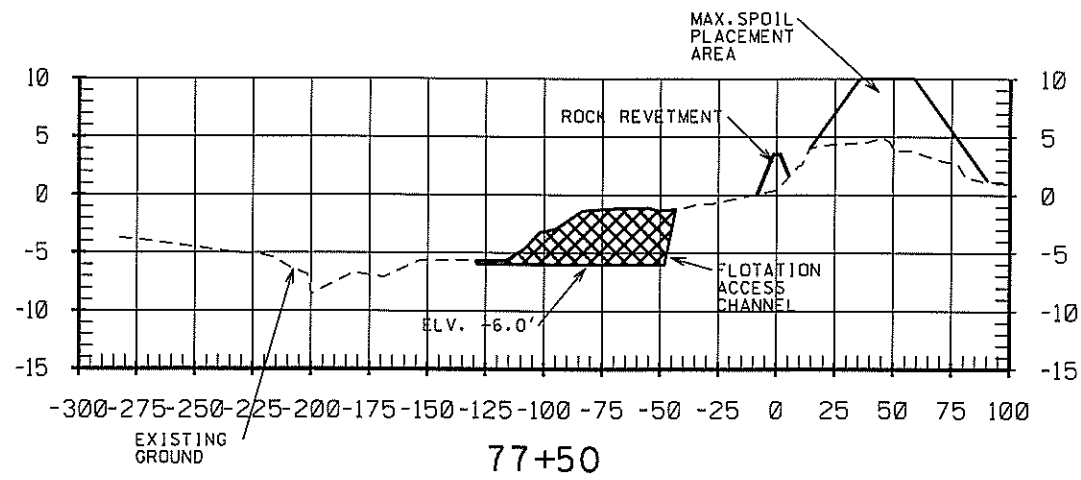
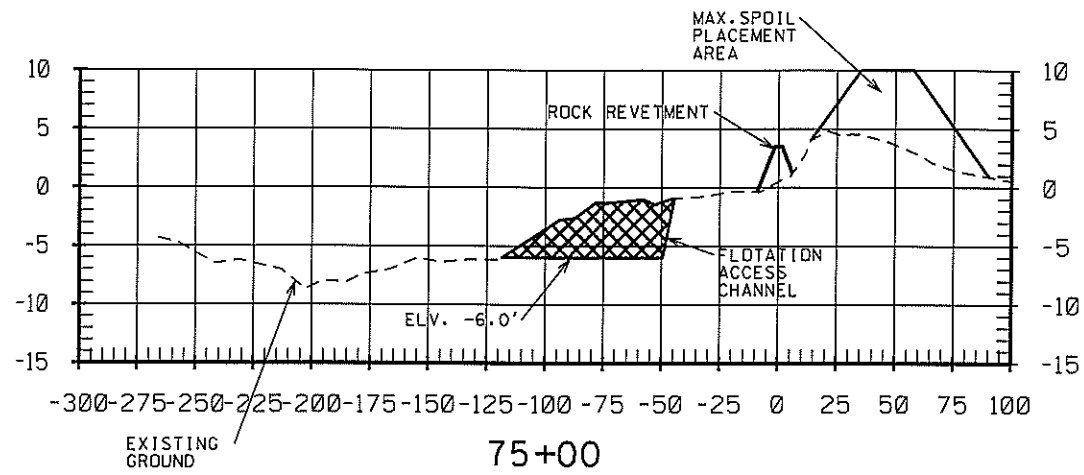
REV. NO.	DATE	BY	TITLE

CAD FILENAME
LA327017.DGN

PROJECT NO.
LA327

SHEET NO. 17 OF 20

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE



Designed	R. FAULKNER	Date	03/08
Drawn	D. WILLMORE	Approved by	E. J. GIERING, III
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALCOURIA, LOUISIANA
		Date	11/09

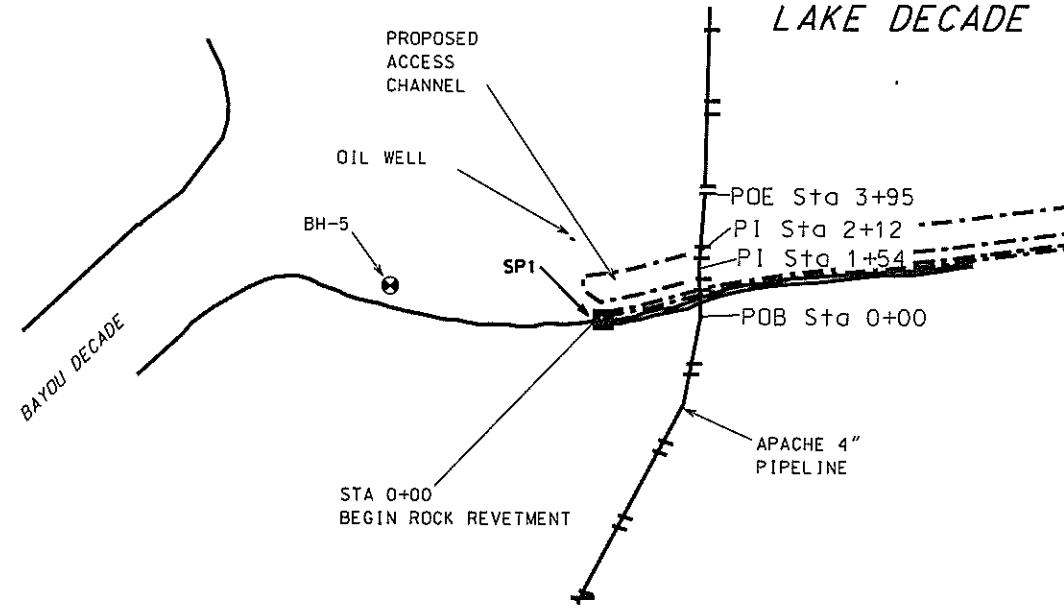
X-SECTION LAKE RIM
 REVETMENT STA. 75+00-85+45
 TE-39 SOUTH LAKE DECADE CU#1
 TERREBONNE PARISH, LOUISIANA

REVISIONS	DATE	REV. NO.	APPR.	TITLE

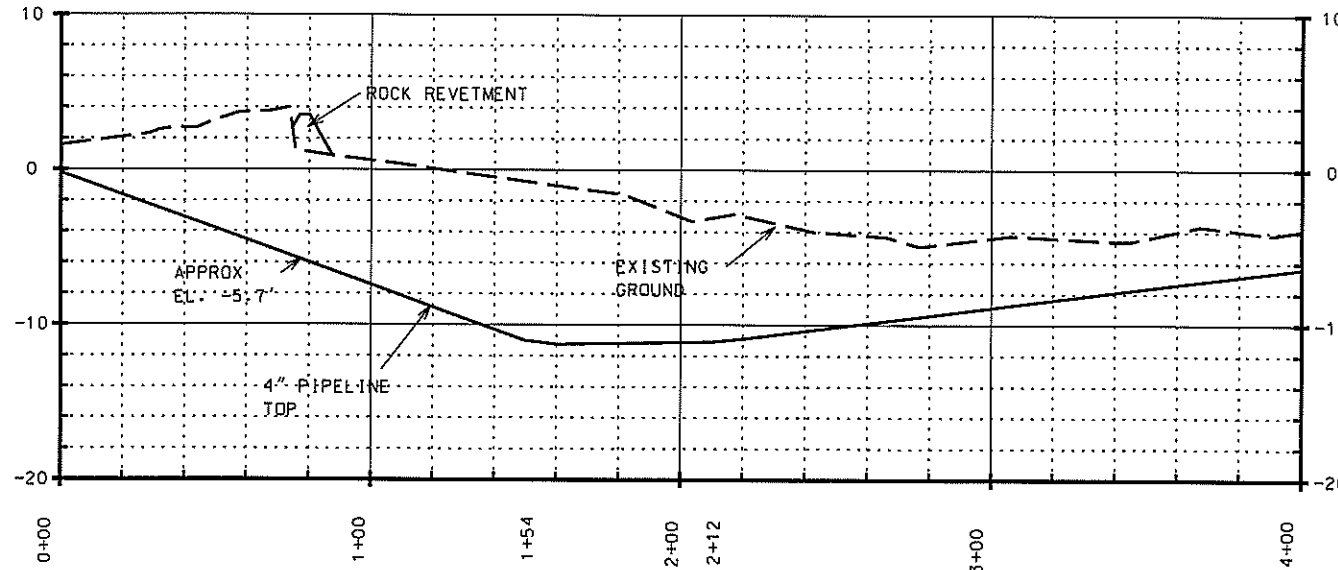
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CAD FILENAME
 LA327018.DGN
 PROJECT NO.
 LA327
 SHEET NO. 18 OF 20

NOTE: PIPELINE CROSSES THE
ROCK REVETMENT @ APPROX STA. 3+19



PLAN APACHE
4-INCH PIPELINE

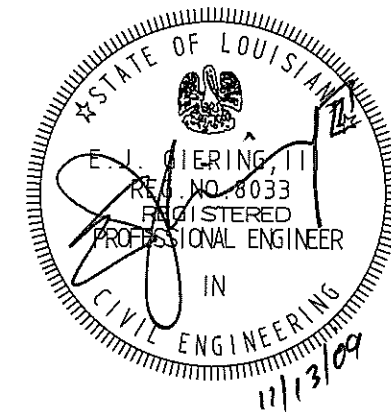


PROFILE APACHE
4-INCH PIPELINE

COORDINATES
APACHE 4" PIPELINE

NORTHING	EASTING	ELV
320019.532	3418798.531	-0.2
320172.921	3418790.492	-11.3
320230.588	3418797.573	-11.1
320413.537	3418807.161	-6.5

NOTE: ELEVATIONS ARE IN NAVD 88.
DATA TAKEN FROM PRIMARY FUELS
AS-BUILT 4" PIPELINE DRAWING 1/7/1988



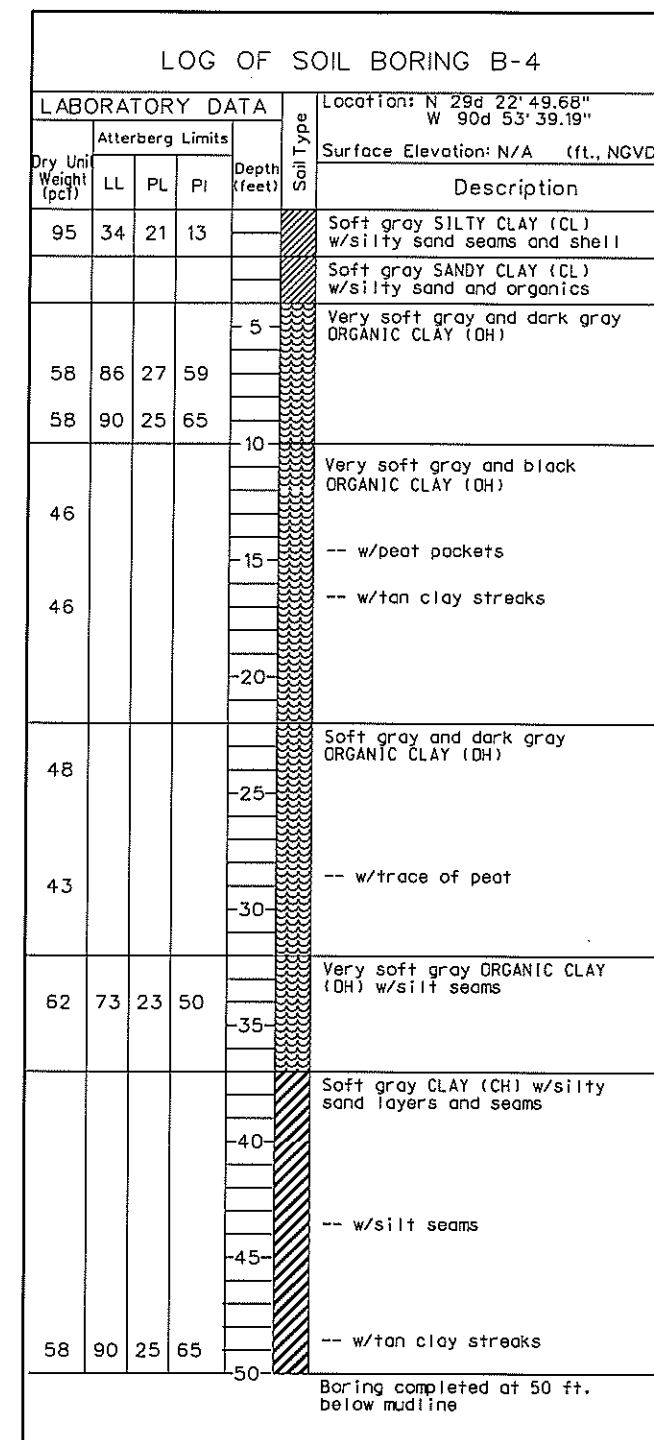
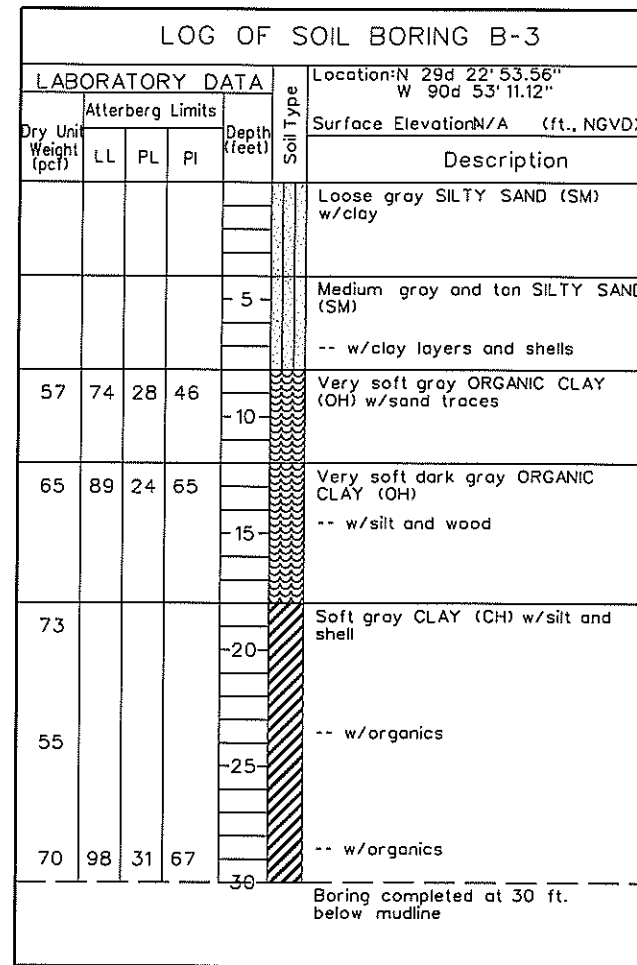
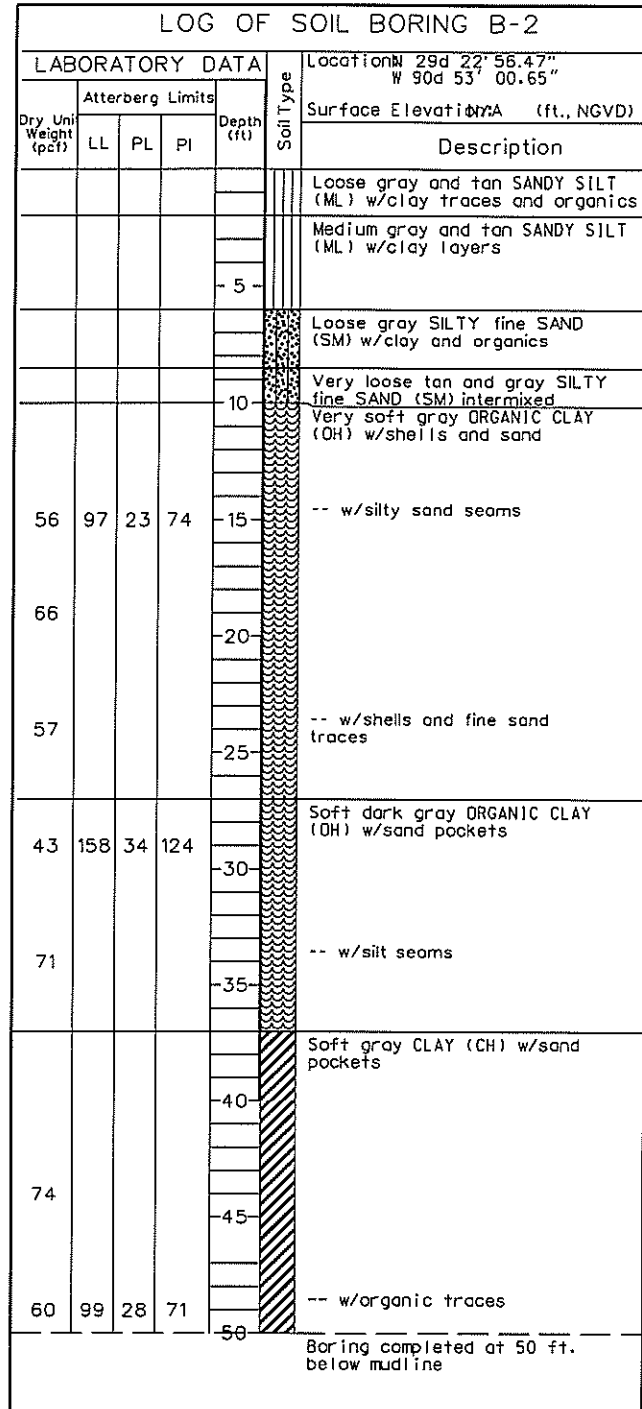
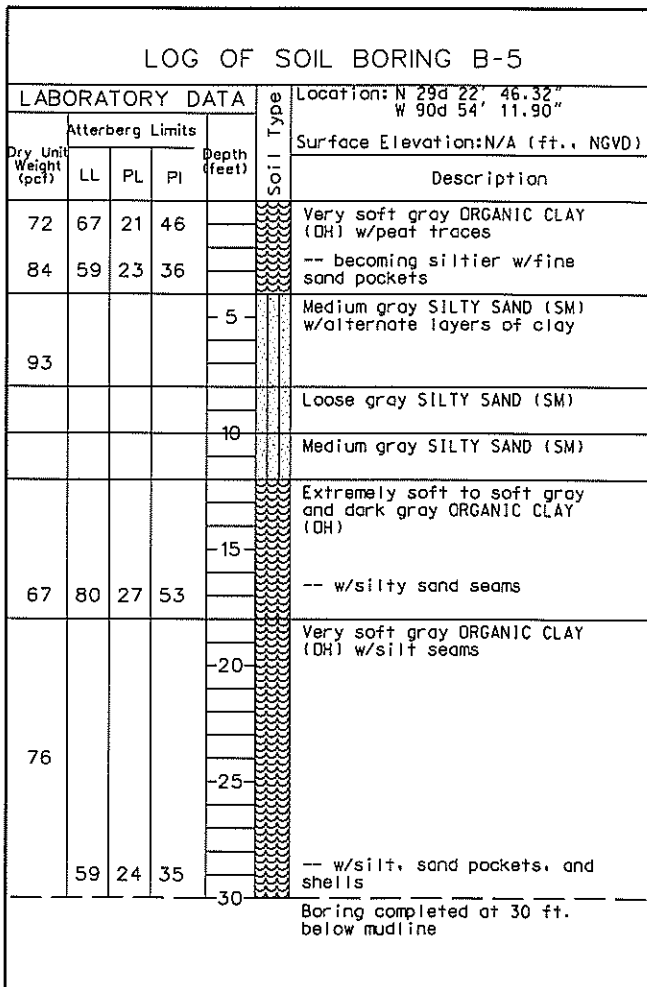
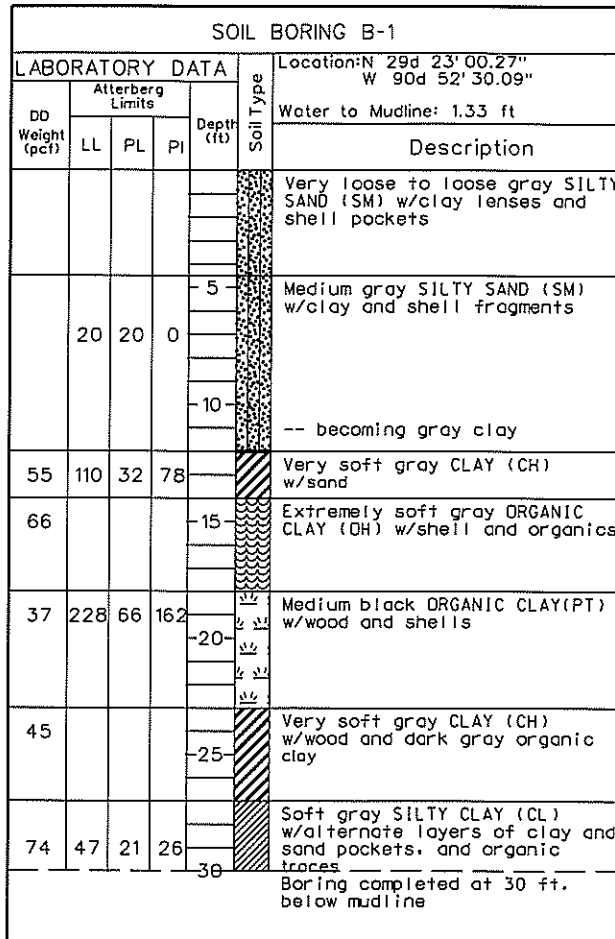
Date	Approved by	Title
11/09 <td>E. J. GIERING, III <td>STATE CONSERVATION ENGINEER</td> </td>	E. J. GIERING, III <td>STATE CONSERVATION ENGINEER</td>	STATE CONSERVATION ENGINEER
03/08 <td>D. WILMORE <td>STATE CONSERVATION ENGINEER</td> </td>	D. WILMORE <td>STATE CONSERVATION ENGINEER</td>	STATE CONSERVATION ENGINEER
03/08 <td>B. STICKER <td>CHECKED</td> </td>	B. STICKER <td>CHECKED</td>	CHECKED
11/09 <td></td> <td></td>		

APACHE PIPELINE PROFILE
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA

REVISIONS	DATE	REV. NO.	APPR.	TITLE

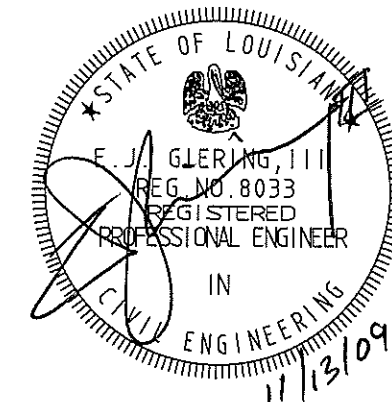
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CAD FILENAME	LA327019.DGN
PROJECT NO.	LA327
SHEET NO.	19 OF 20



BORE HOLE COORDINATES

BH#	NORTHING	EASTING
B-1	321559.86	3426798.96
B-2	321165.30	3424096.87
B-3	320867.73	3423171.74
B-4	320467.22	3420955.30
B-5	320115.82	3417797.28



**SOIL BORING LOGS BH 1-5
TE-39 SOUTH LAKE DECADE CU#1
TERREBONNE PARISH, LOUISIANA**

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE

Date: 11/09
 Approved by: L. J. GIERING, III
 State Conservation Engineer
 Title: STATE CONSERVATION ENGINEER
 Location: TERREBONNE PARISH, LOUISIANA
 Date: 03/08
 Designed: R. FAULKNER
 Drawn: D. WILMORE
 Traced: B. STICKER
 Checked: B. STICKER
 Title:

CAD FILENAME: LA327020.DGN
 PROJECT NO.: LA327
 SHEET NO. 20 OF 20