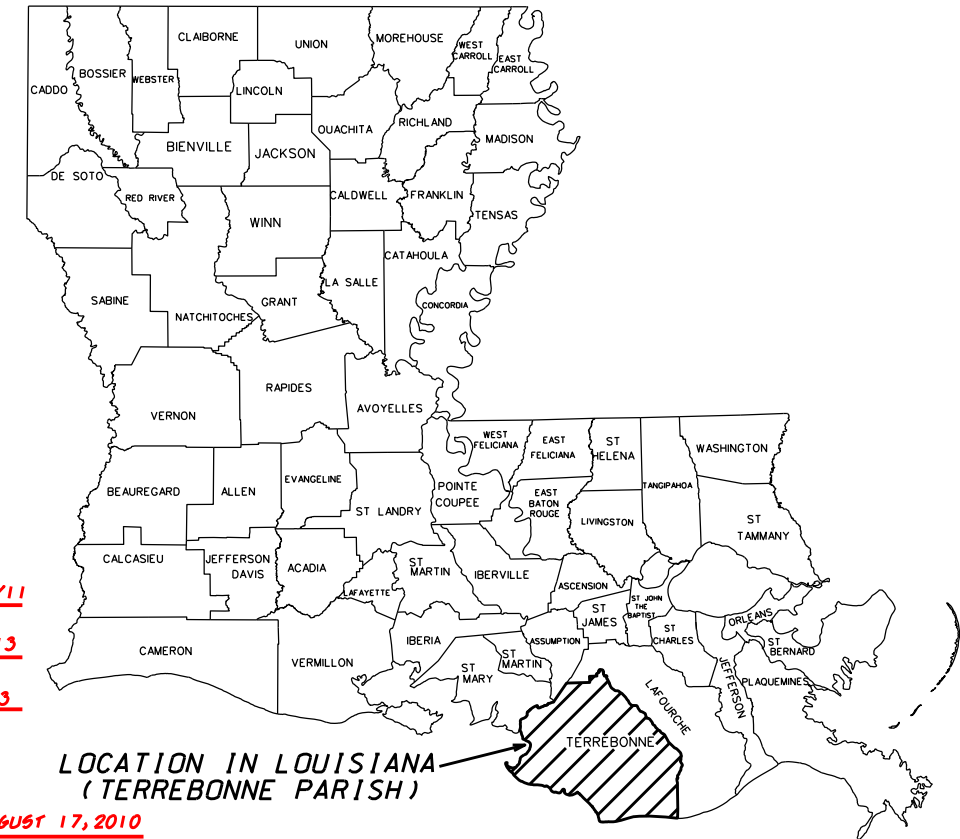




# SOUTH LAKE DECADE TE-39 - CONSTRUCTION UNIT 1

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



## "AS-BUILT PLANS"

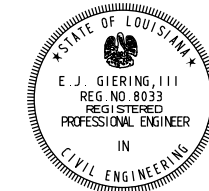
SUBMITTED BY: DALE GARDER 09/22/11  
GOVERNMENT REPRESENTATIVE DATE  
APPROVED BY: BRANDON SAMSON 1/07/13  
ASSISTANT STATE CONSERVATION ENGINEER DATE  
MARI GILFORD 1/08/13  
STATE CONSERVATION ENGINEER DATE

CONTRACT NO. AG-7217-G-10-0013 DATE AUGUST 17, 2010  
CONTRACTOR TRANSWEST MANUFACTURING, LLC  
INSPECTOR DONALD TAPPI  
DATE OF COMPLETION JULY 12, 2011

### INDEX OF DRAWINGS

- 1 COVER SHEET & LOCATION MAP
- 2 SITE MAP - LANDRIGHTS
- 3 PLAN LAKE RIM REVETMENT
- 4-11 PLAN/PROFILE LAKE RIM STA 0+00-85+45
- 12 TYPICAL SECTIONS & SETTLEMENT PLATE DETAILS
- 13-18 LAKE RIM X SECTIONS STA 0+00-85+45
- 19 APACHE PIPELINE PROFILE
- 20 SOIL BORING LOG B1-B5

## "AS-BUILT"



MAPS COPYRIGHT THE ROADS OF LOUISIANA, SHEARER PUBLISHING

### VICINITY MAP



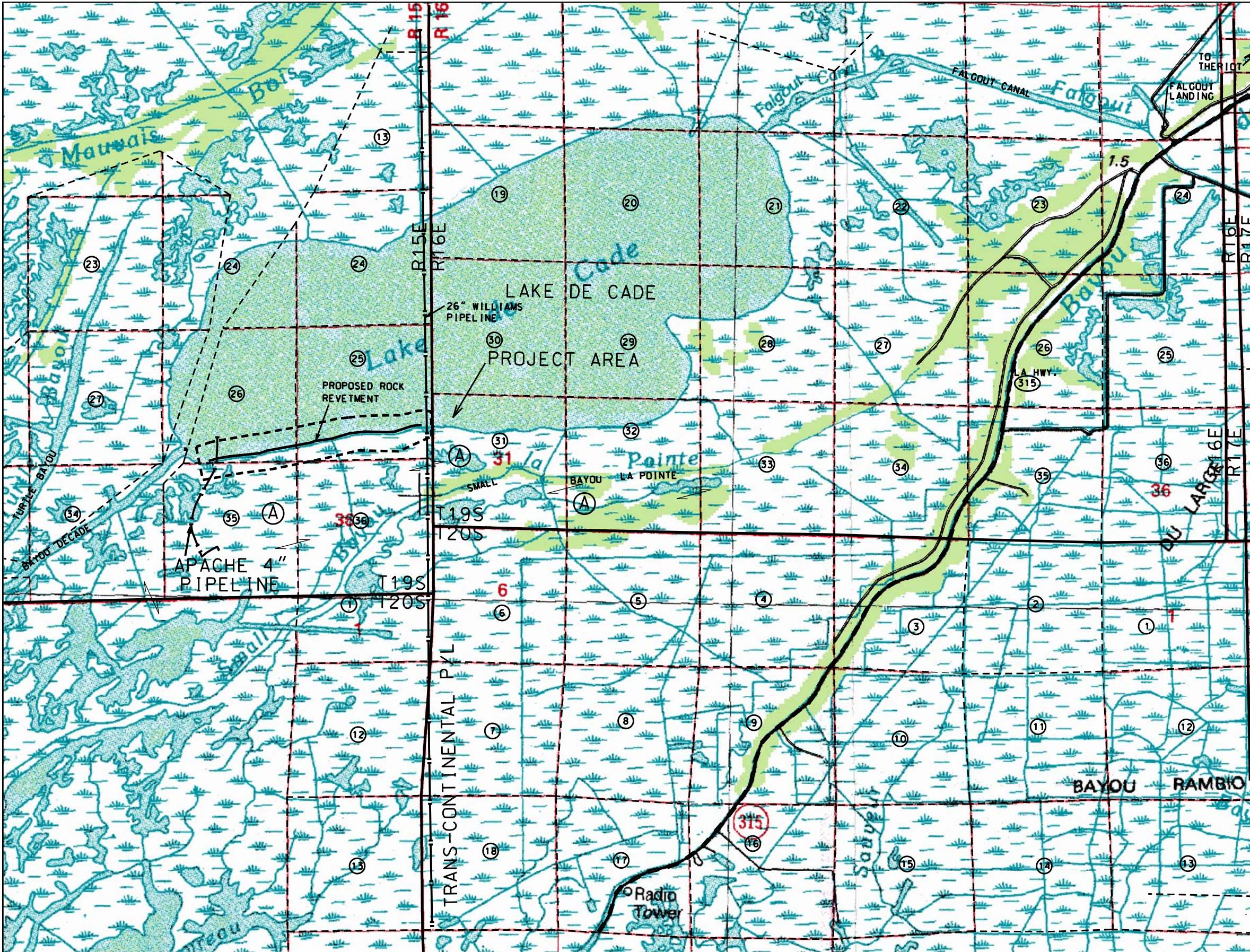
Date	11/09
Approved by	E. J. GIERING, III
Date	03/08
Designed	R. FAULKNER
Drawn	D. WILMORE
Traced	B. STICKER
Checked	B. STICKER
Date	11/09
Approved by	E. J. GIERING, III
Date	03/08
Approved by	E. J. GIERING, III
Date	03/08
Approved by	E. J. GIERING, III
Date	11/09
Approved by	E. J. GIERING, III

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



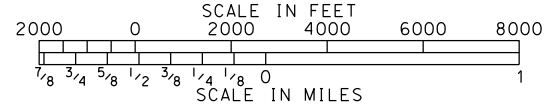
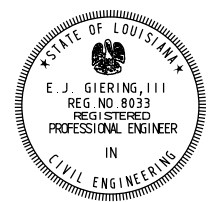
**NOTICE:**  
 48 HOURS BEFORE DIGGING  
 CALL 1-800-272-3020  
 TO LOCATE UTILITY LINES

**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

**"AS-BUILT"**



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

Date		Checked		Title	
11/09		B. STICKER		STATE CONSERVATION ENGINEER	

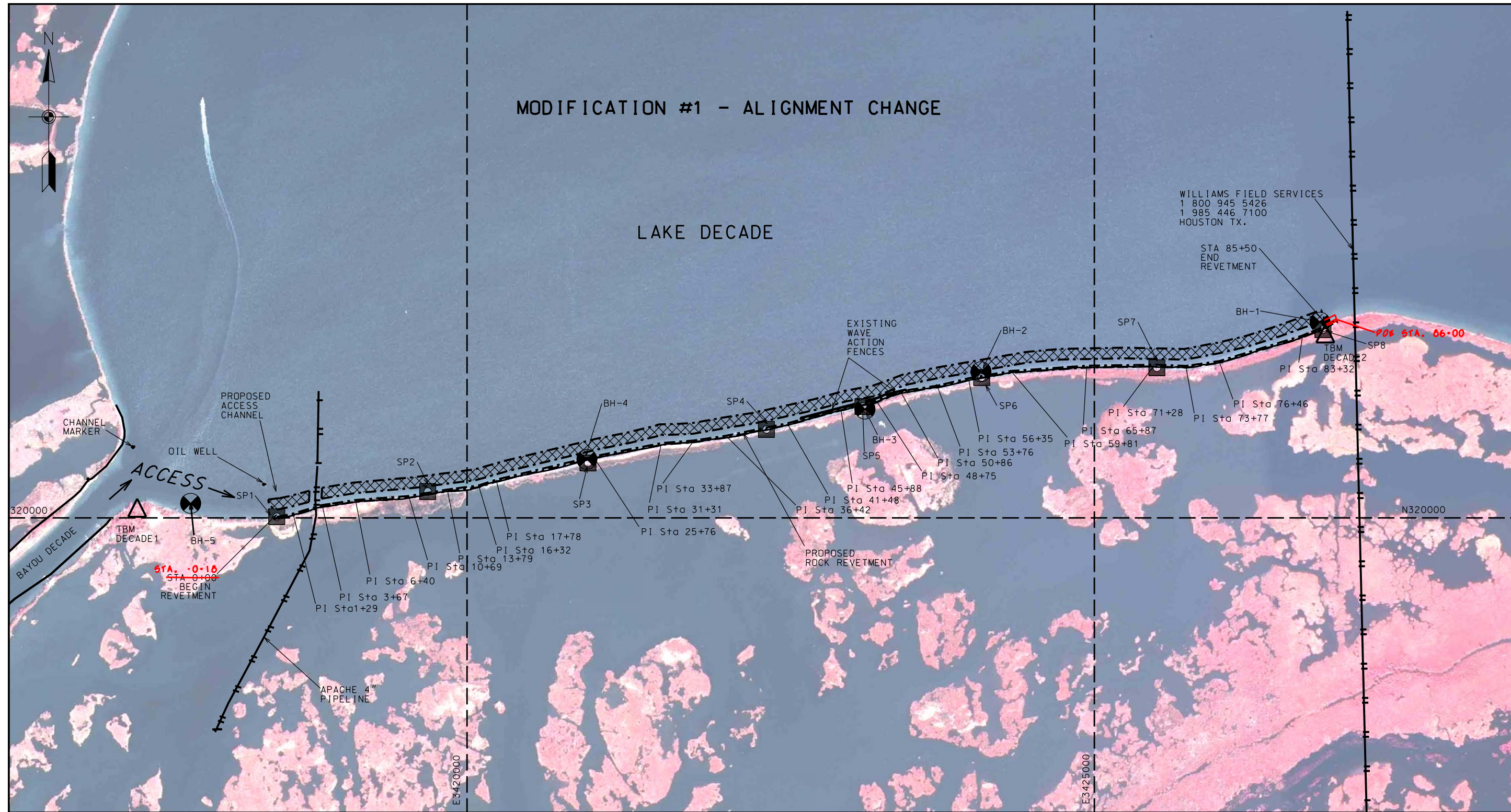
  

**SITE MAP - LANDRIGHTS**  
 TE-39 SOUTH LAKE DECADE CU#1  
 TERREBONNE, PARISH, LOUISIANA

NO.	DATE	APPR.	TITLE

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

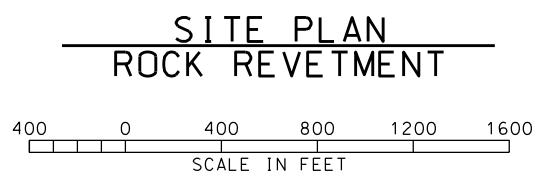
CAD FILENAME: LA327002.DGN  
 PROJECT NO.: LA327  
 SHEET NO. 02 OF 20



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

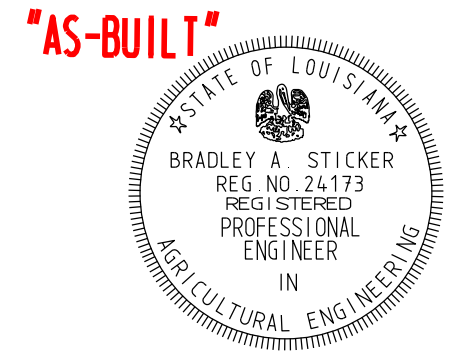
NOTICE:  
 48 HOURS BEFORE DIGGING  
 CALL 1-800-272-3020  
 TO LOCATE UTILITY LINES

TBMS				
DECADE1	N320080.52	E3417370.82	ELEV. = +3.22'	
DECADE2	N321470.63	E3426840.88	ELEV. = +5.30	
GEOD99	STATE PLANE LA. SOUTH NAD83, NAVD88			



**LEGEND**

	SP—SETTLEMENT PLATE
	BH—SOIL BORING
	ROCK REVETMENT
	ACCESS CHANNEL
	BENCHMARKS



Date	09/10
Approved by	B. STICKER
Title	STATE CONSERVATION ENGINEER
	ALEXANDRIA, LOUISIANA
Date	09/10
Designed	M. GREMILLION
Drawn	D. WILDMORE
Traced	B. STICKER
Checked	B. STICKER
Date	09/10

**SITE PLAN ROCK REVETMENT  
TE-39 SOUTH LAKE DECADE CUI  
TERREBONNE PARISH, LOUISIANA**

REVISONS	
NO.	DATE
1	09/10
	APPR. M.G.
	D.E.
CAD FILENAME	
LA32703M1.DGN	
PROJECT NO.	
LA327	
SHEET NO 3M10F 2Q	

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

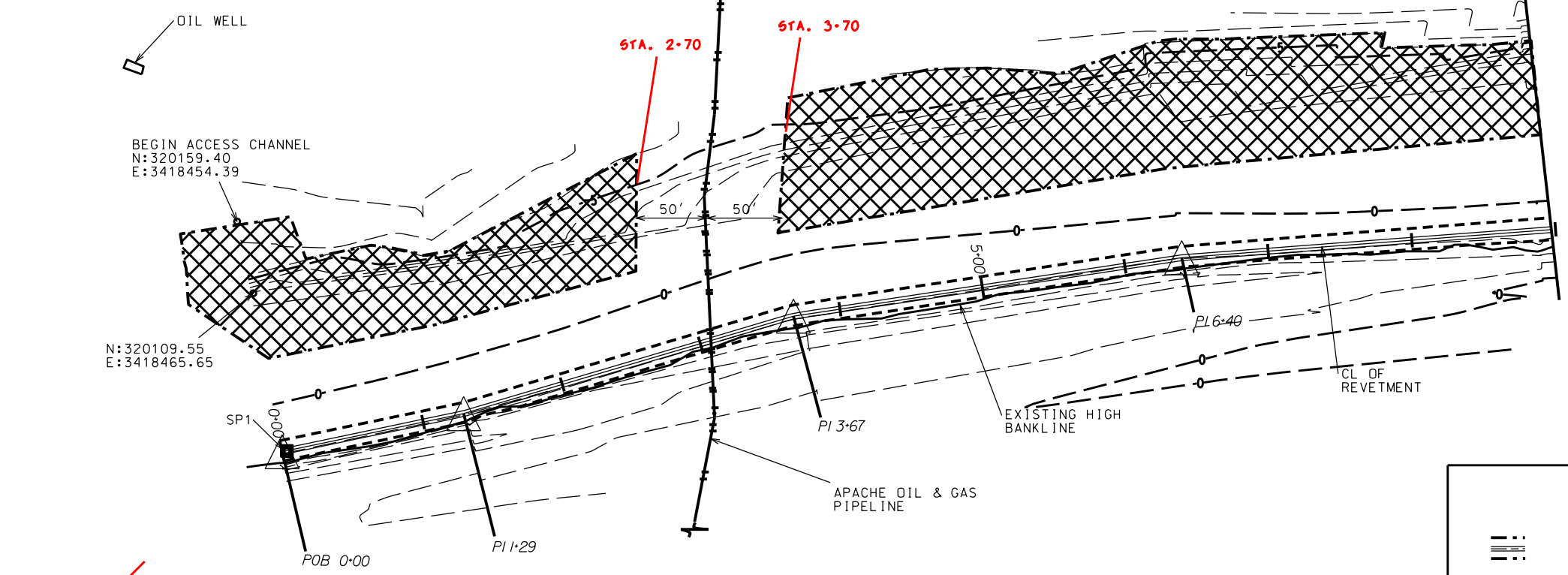
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
POB	0+00	319999.64	3418485.68
1	1+29	320026.04	3418611.66
2	3+67	320093.68	3418840.46
3	6+40	320134.23	3419109.94

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
1	0+00	320041.74	3418477.90
2	1+29	320068.01	3418603.98
3	3+67	320135.35	3418831.93
4	6+40	320176.74	3419104.62

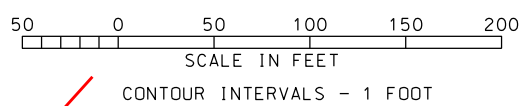
DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

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

### MODIFICATION #1 - ALIGNMENT CHANGE

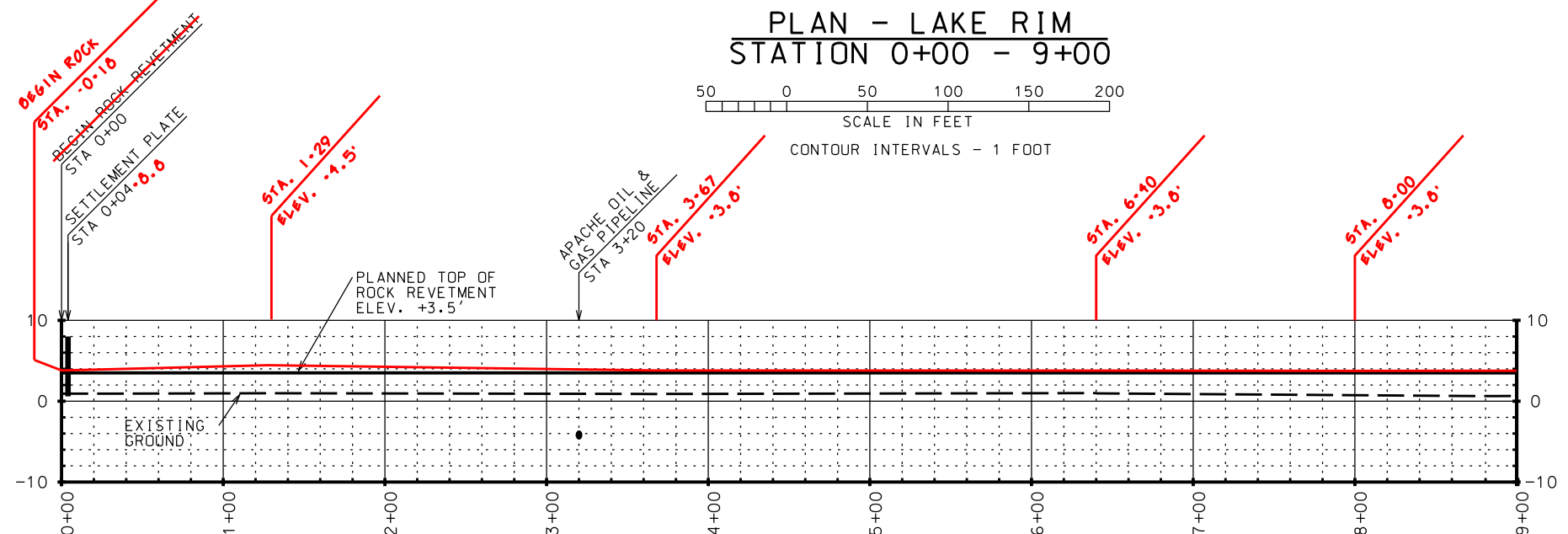


PLAN - LAKE RIM  
STATION 0+00 - 9+00



**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

**"AS-BUILT"**



Date Approved by: B. STICKER Title: STATE CONSERVATION ENGINEER Location: ALEXANDRIA, LOUISIANA	Date 09/10 09/10 09/10 09/10
Designed: M. GREMILLION Drawn: D. WILLMORE Traced: B. STICKER Checked: B. STICKER	Title Title Title 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	
REVISIONS NO. DATE APPR. TITLE M1 09/10 M.G. D.E.	CAD FILENAME LA32704M1.DGN PROJECT NO. LA327 SHEET NO. 4M10F 2Q

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
4	10+69	320166.74	3419537.68
5	13+79	320218.30	3419843.23
6	16+32	320250.73	3420094.50
7	17+78	320296.69	3420233.35

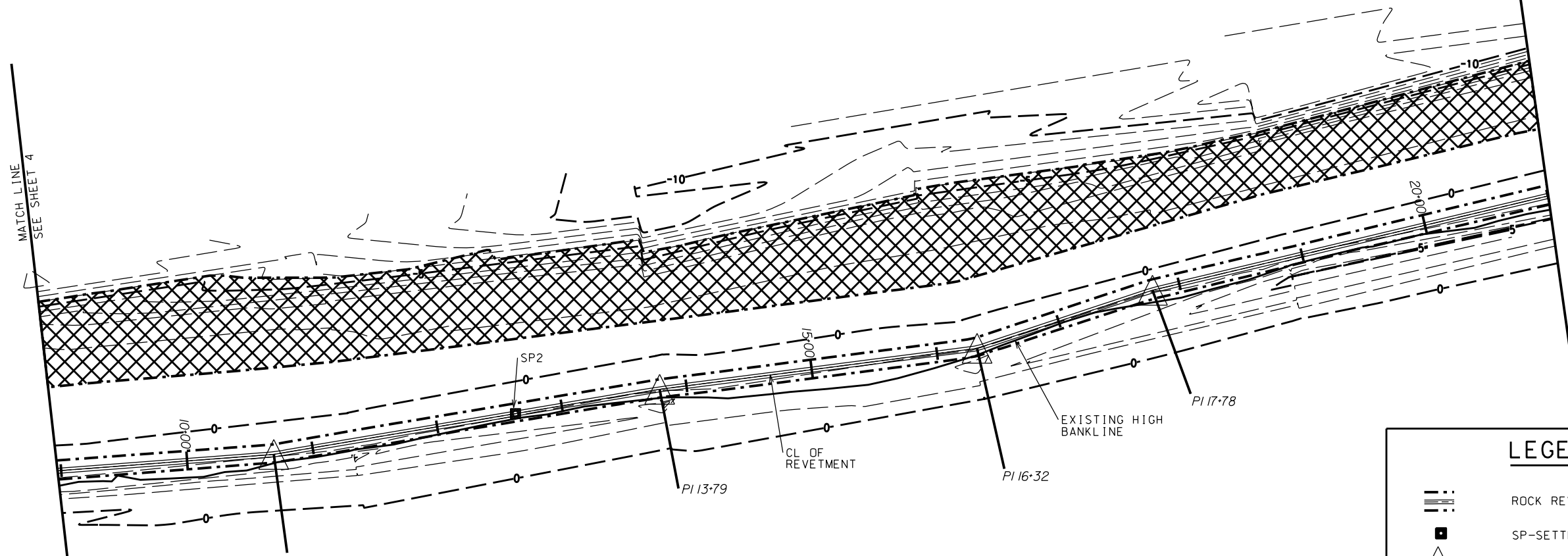
ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
5	10+69	320209.57	3419534.72
6	13+79	320261.05	3419839.87
7	16+32	320293.44	3420086.27
8	17+78	320338.37	3420221.38

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

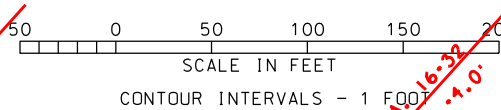
DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

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

MODIFICATION #1 - ALIGNMENT CHANGE

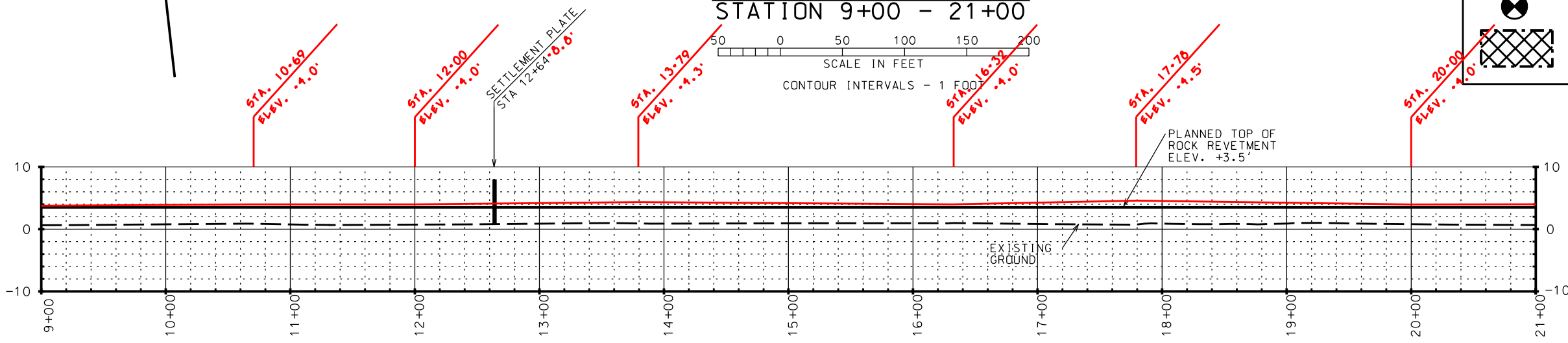


PLAN - LAKE RIM  
 STATION 9+00 - 21+00

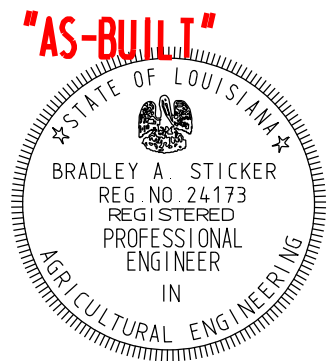


**LEGEND**

- 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



Date	Approved by	Title
09/10	B. STICKER	STATE CONSERVATION ENGINEER
09/10	D. WILMORE	ALEXANDRIA, LOUISIANA
09/10	B. STICKER	

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

NO.	DATE	APPR.	TITLE
MT	09/10	M.G.	D.E.

CAD FILENAME  
 LA32705M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO 5M10F 2Q

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

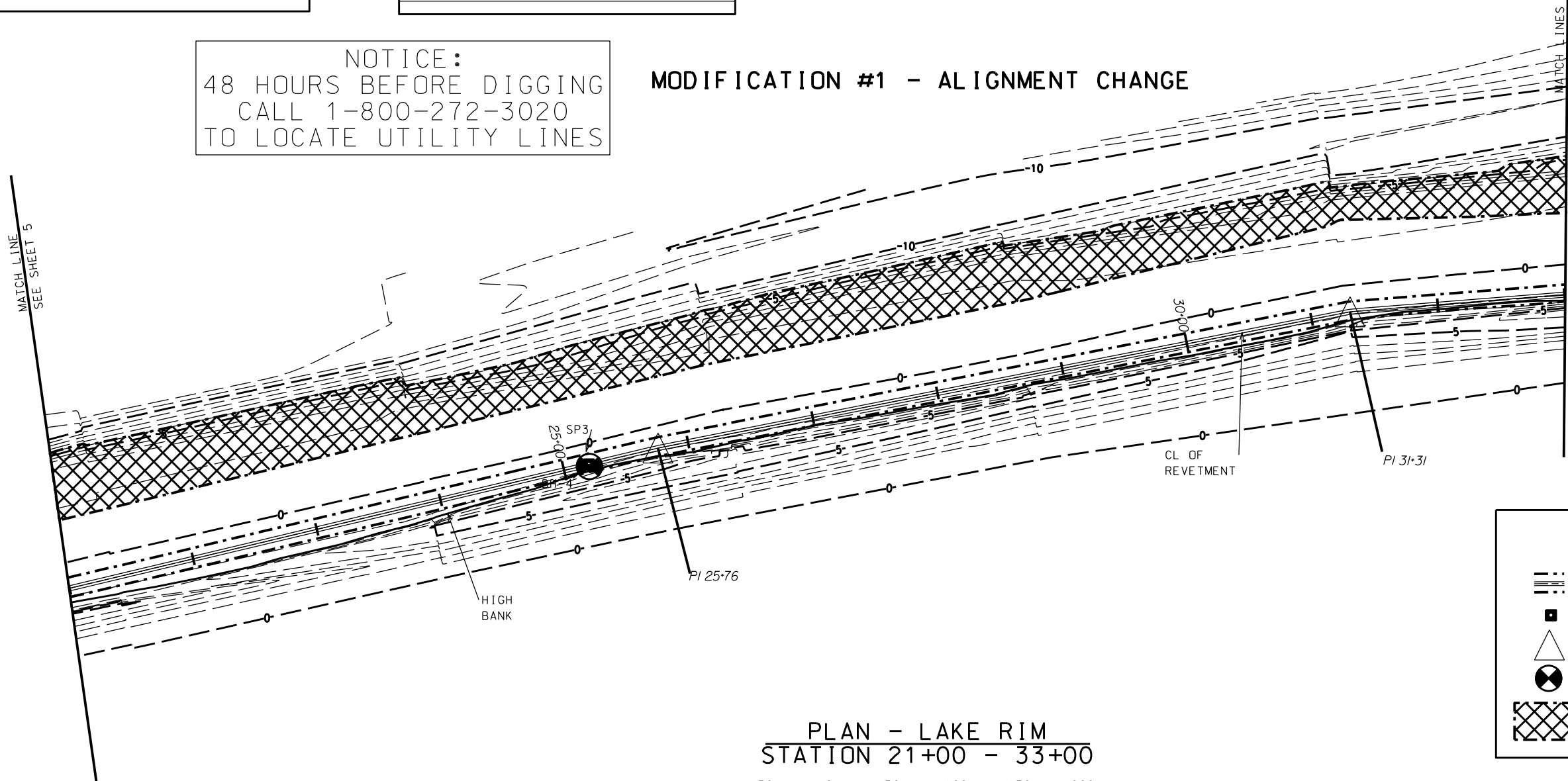
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
8	25+76	320481.74	3421009.18
9	31+31	320588.99	3421553.65

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
9	25+76	320523.82	3420998.45
10	31+31	320631.38	3421545.98

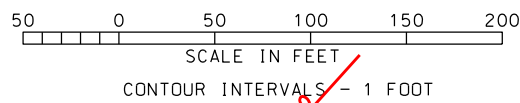
NOTE:  
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.  
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.  
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.  
 SEE SHEET 19 FOR PIPELINE DETAILS

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

MODIFICATION #1 - ALIGNMENT CHANGE



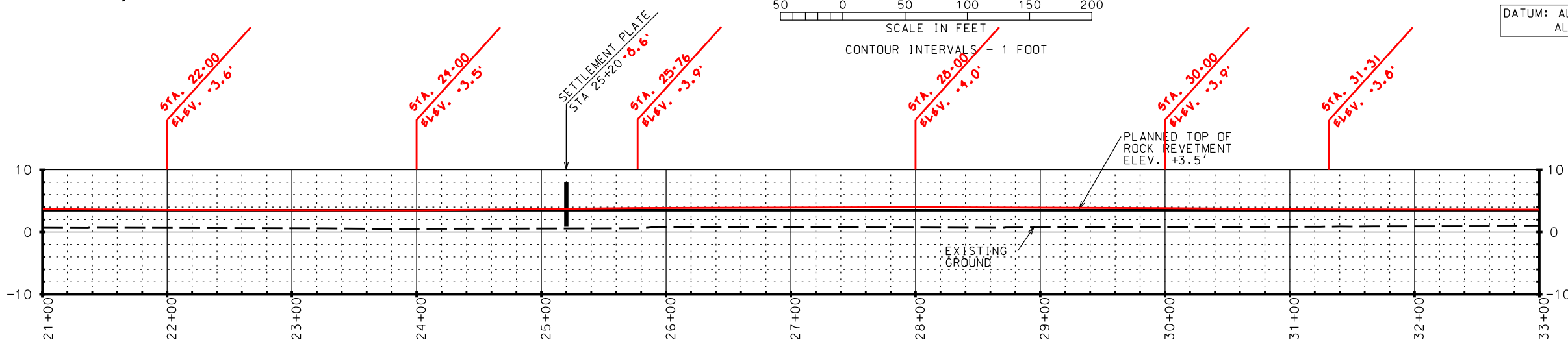
PLAN - LAKE RIM  
 STATION 21+00 - 33+00



**LEGEND**

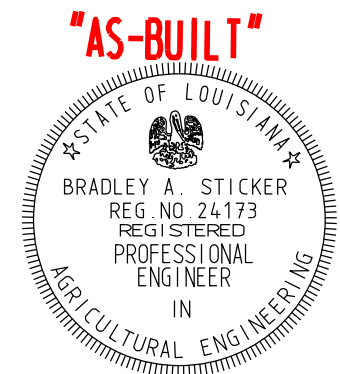
- ROCK REVETMENT
- SP-SETTLEMENT PLATE
- PI OF ROCK REVETMENT
- BH-SOIL BORING
- FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION

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



PROFILE - LAKE RIM  
 STATION 21+00 - 33+00

SCALE= 5 VERTICAL : 1 HORIZONTAL



Date	By	Title
09/10	B. STICKER	Approved by
09/10	D. WILMORE	Drawn
09/10	B. STICKER	Checked

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

NO.	DATE	APPR.	TITLE
MT	09/10	M.G.	D.E.

CAD FILENAME  
 LA32706M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO 6M10F 2Q

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

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
10	33+87	320609.39	3421809.00
11	36+42	320646.18	3422061.08
12	41+48	320747.12	3422557.03

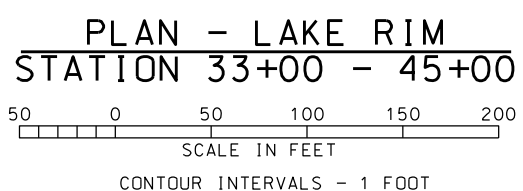
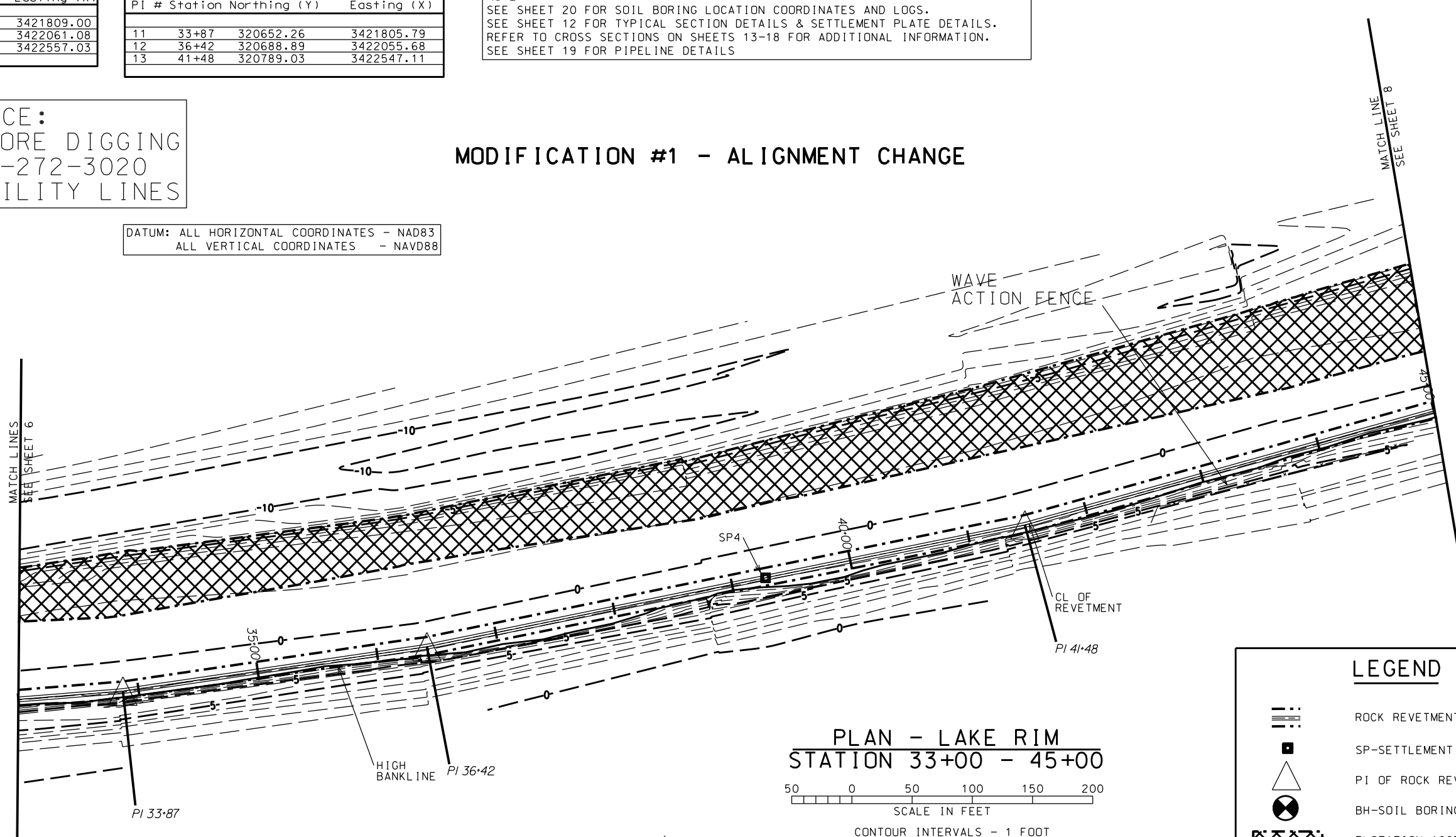
ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
11	33+87	320652.26	3421805.79
12	36+42	320688.89	3422055.68
13	41+48	320789.03	3422547.11

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

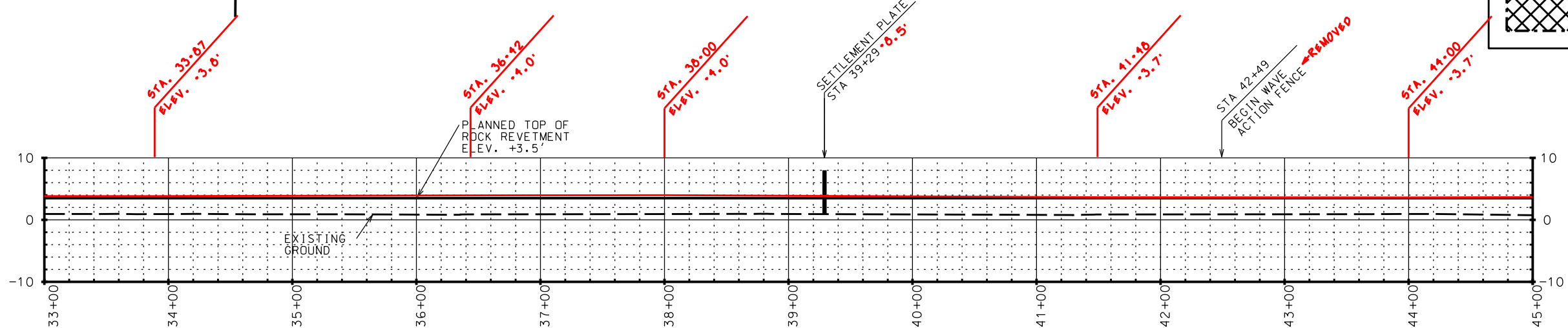
NOTICE:  
 48 HOURS BEFORE DIGGING  
 CALL 1-800-272-3020  
 TO LOCATE UTILITY LINES

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

### MODIFICATION #1 - ALIGNMENT CHANGE

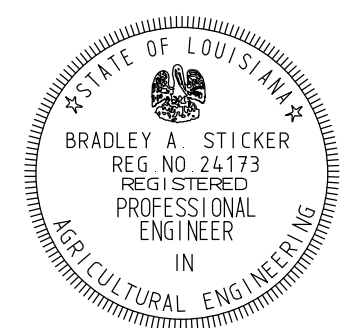


LEGEND	
	ROCK REVETMENT
	SP-SETTLEMENT PLATE
	PI OF ROCK REVETMENT
	BH-SOIL BORING
	FLOTATION ACCESS CHANNEL, NOT REQUIRED CONTRACTOR'S OPTION



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

**"AS-BUILT"**



Date	By	Title
09/10	B. STICKER	STATE CONSERVATION ENGINEER
09/10	M. GREMILLION	DESIGNED
09/10	D. WILMORE	DRAWN
09/10	B. STICKER	CHECKED

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

REVISONS		TITLE
NO.	DATE	D.E.
M1	09/10	

CAD FILENAME  
 LA32707M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO 7M10F 2Q

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

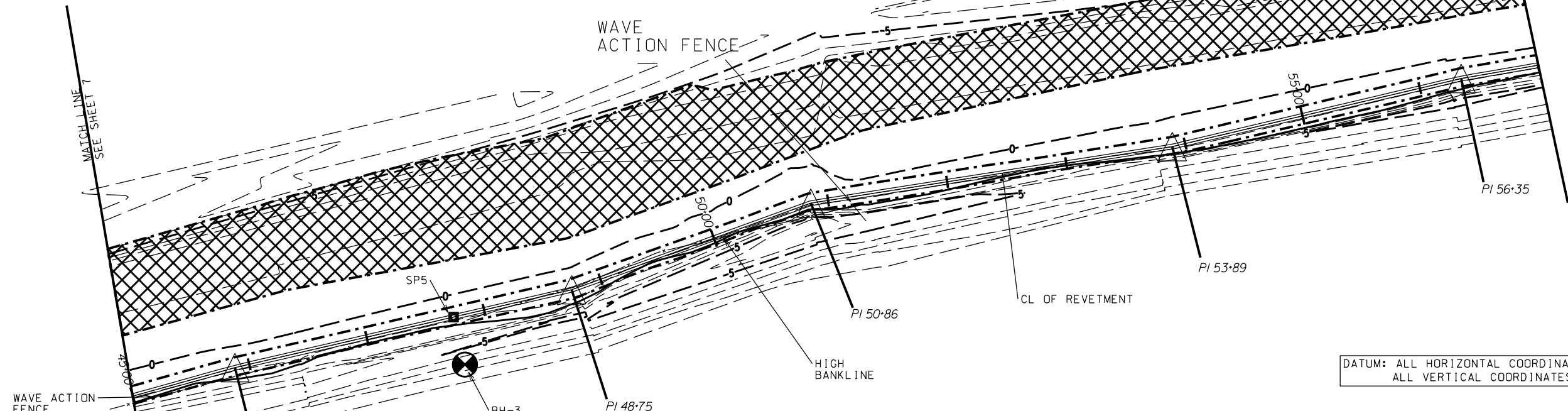
PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
13	45+88	320865.18	3422980.99
14	48+75	320929.76	3423260.26
15	50+86	321001.51	3423458.63
16	53+89	321048.37	3423758.49
17	56+35	321104.84	3423998.14

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
14	45+88	320907.32	3422970.74
15	48+75	320972.02	3423249.76
16	50+86	321043.36	3423447.92
17	53+89	321090.85	3423751.84
18	56+35	321147.48	3423989.60

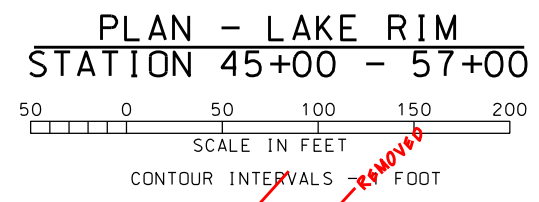
NOTE:  
 SEE SHEET 20 FOR SOIL BORING LOCATION COORDINATES AND LOGS.  
 SEE SHEET 12 FOR TYPICAL SECTION DETAILS & SETTLEMENT PLATE DETAILS.  
 REFER TO CROSS SECTIONS ON SHEETS 13-18 FOR ADDITIONAL INFORMATION.  
 SEE SHEET 19 FOR PIPELINE DETAILS

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

MODIFICATION #1 - ALIGNMENT CHANGE

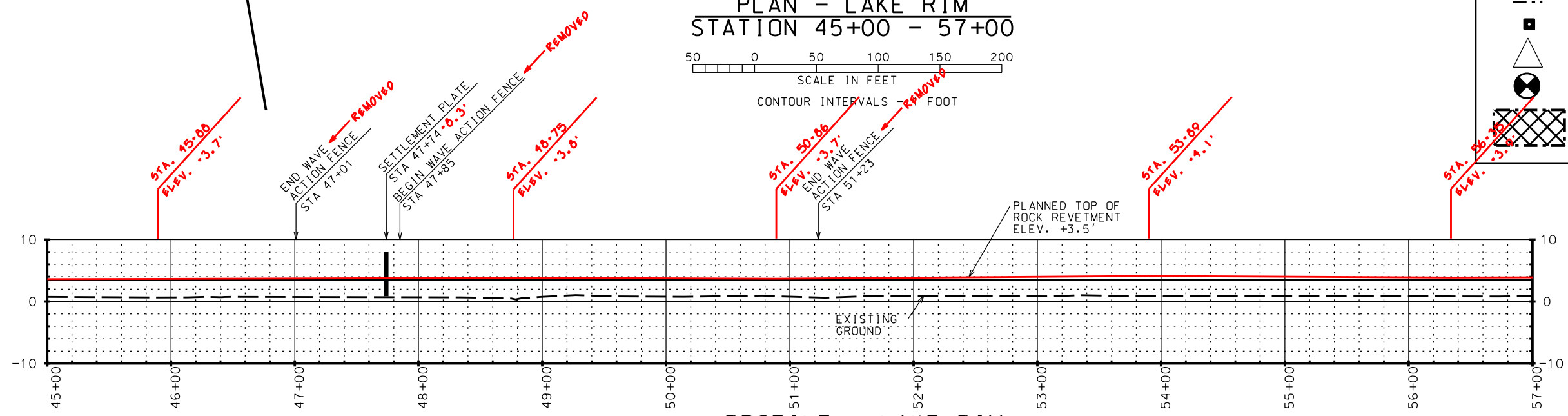


DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88



**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

"AS-BUILT"



Date	By	Title
09/10	B. STICKER	STATE CONSERVATION ENGINEER
09/10	D. WILMORE	TRACED
09/10	B. STICKER	CHECKED

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

NO.	DATE	APPR.	TITLE
M1	09/10	M.G.	D.E.

CAD FILENAME  
 LA32708M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO 8M10F 2Q

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



PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
18	59+81	321163.59	3424339.09
19	65+87	321205.80	3424942.98

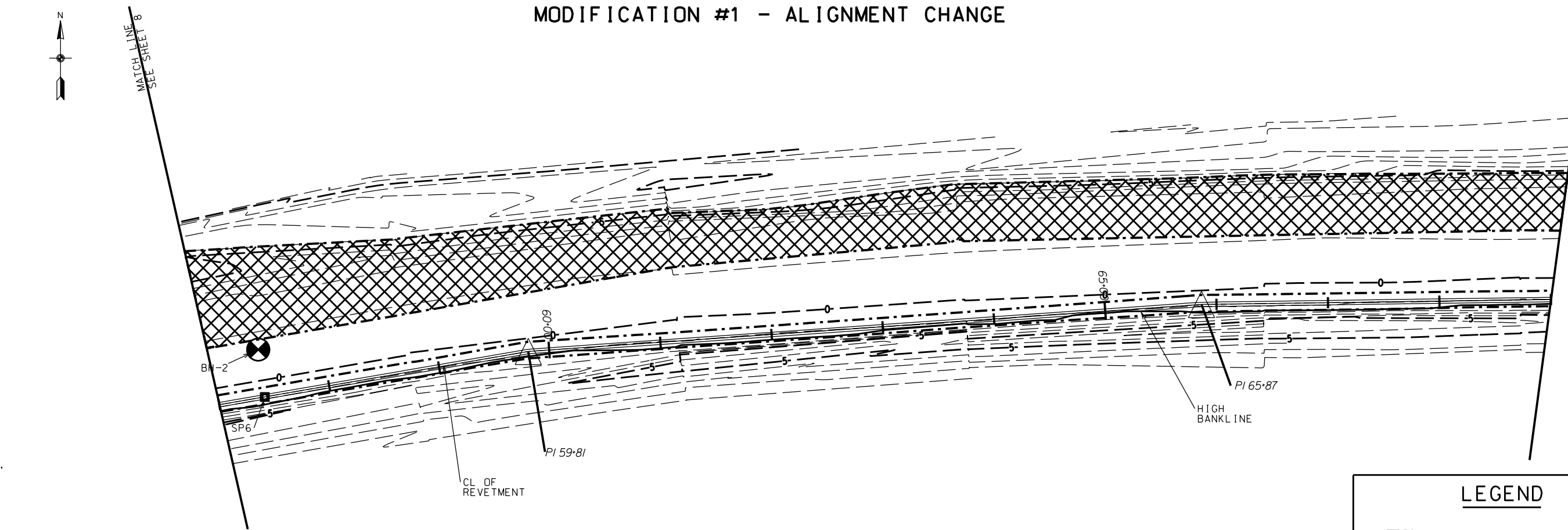
ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
19	59+81	321206.56	3424331.29
20	65+87	321249.31	3424943.84

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

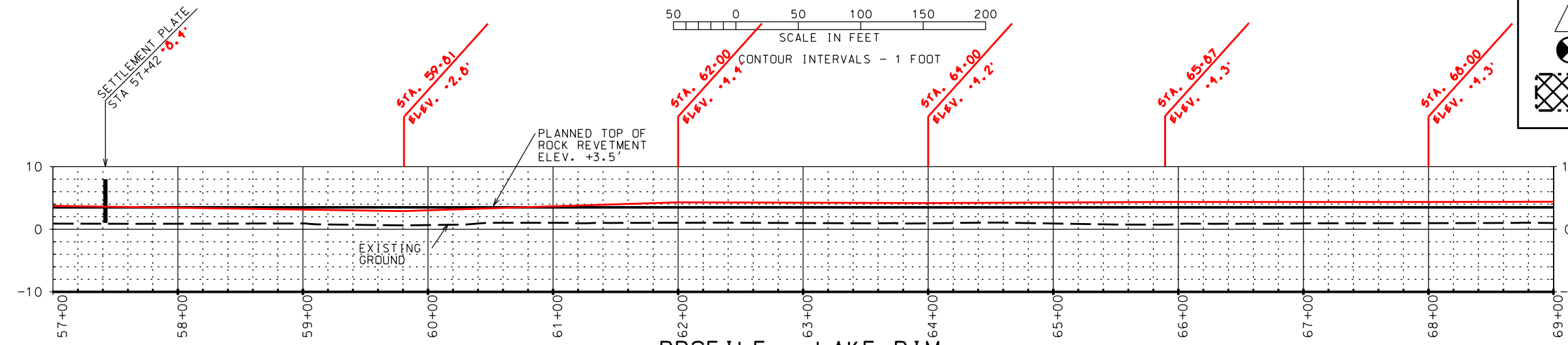
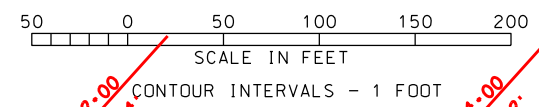
DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

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

### MODIFICATION #1 - ALIGNMENT CHANGE



PLAN - LAKE RIM  
 STATION 57+00 - 69+00



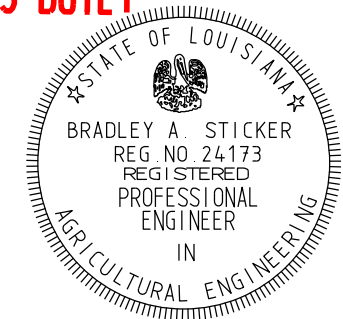
PROFILE - LAKE RIM  
 STATION 57+00 - 69+00

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

**"AS-BUILT"**



DESIGNED	DRAWN	TRACED	CHECKED	DATE
M. GREMILLION	D. WILMORE	B. STICKER	B. STICKER	09/10
Approved by				B. STICKER
Title				STATE CONSERVATION ENGINEER
Traced				ALEXANDRIA, LOUISIANA

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

REVISIONS		NO.	DATE	APPR.	TITLE
		1	9/7/10	M.G.	D.E.

CAD FILENAME  
 LA32709M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO 9M10F 2Q

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



PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
20	71+28	321213.45	3425484.16
21	73+77	321204.18	3425732.88
22	76+46	321242.95	3425999.40

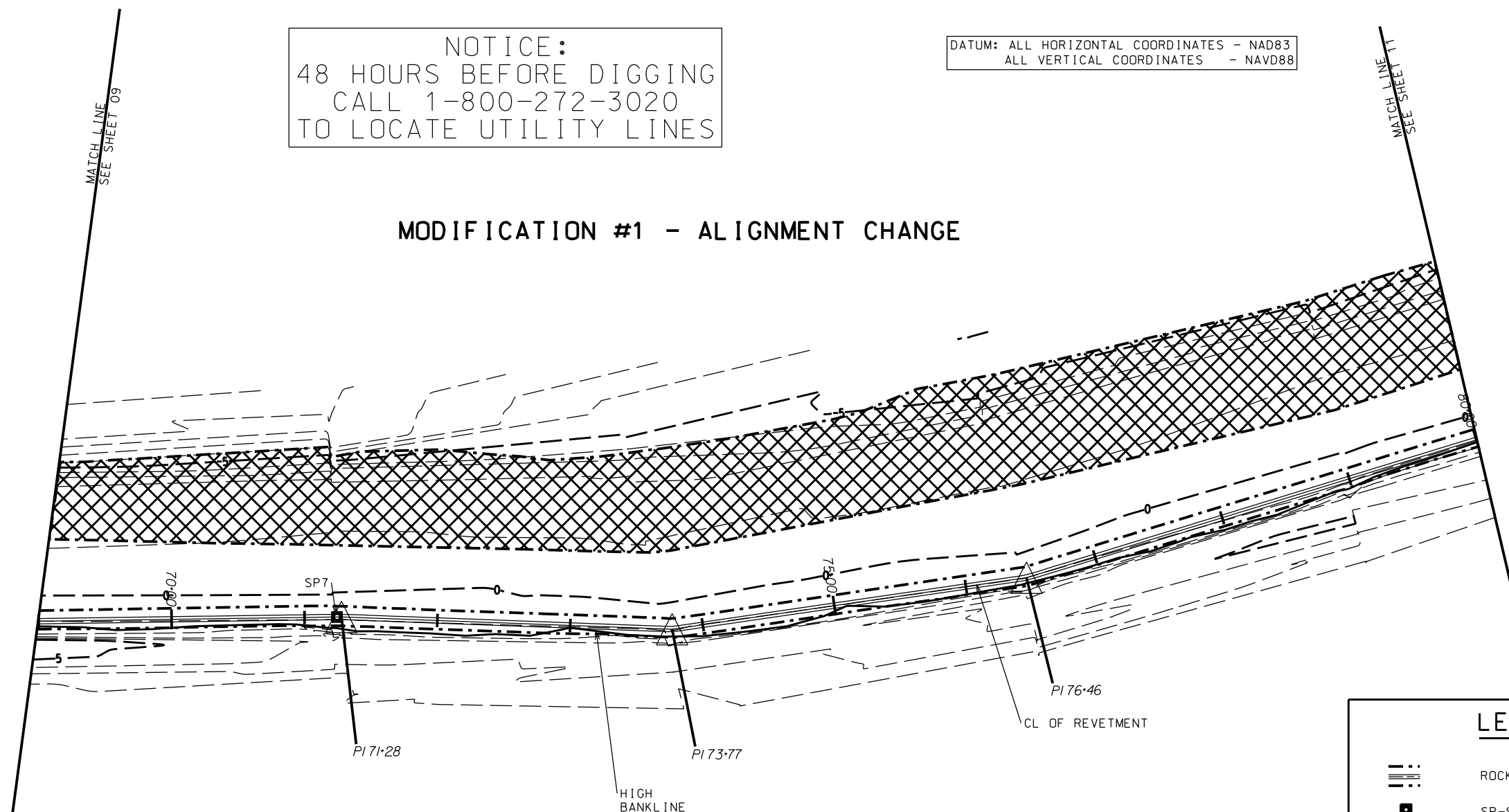
ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
21	71+28	321256.45	3425485.19
22	73+77	321247.26	3425731.44
23	76+46	321285.68	3425992.22

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

MODIFICATION #1 - ALIGNMENT CHANGE



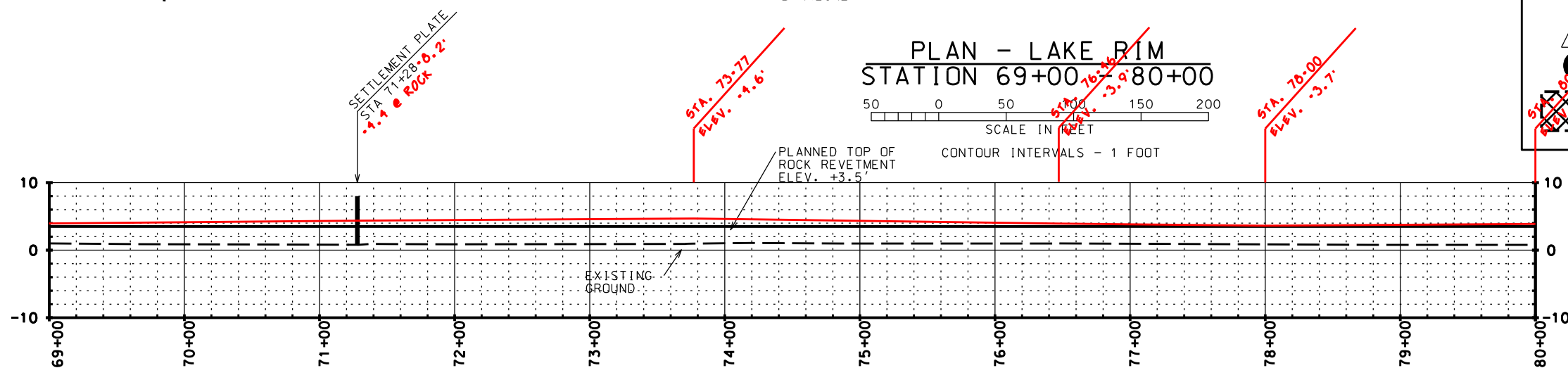
PLAN - LAKE RIM  
 STATION 69+00 - 80+00



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 69+00 - 80+00

SCALE= 5 VERTICAL : 1 HORIZONTAL

"AS-BUILT"



Date	Approved by	Title
09/10	B. STICKER	STATE CONSERVATION ENGINEER
09/10	D. WILMORE	ALEXANDRIA, LOUISIANA
09/10	B. STICKER	

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

NO.	DATE	APPR.	TITLE
M1	09/10	M.G.	D.E.

CAD FILENAME  
 LA32710M1.DGN  
 PROJECT NO.  
 LA327  
 SHEET NO1 QM1 OF 2 Q.

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



# MODIFICATION #1 - ALIGNMENT CHANGE

PROPOSED REVETMENT COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
23	83+32	321444.06	3426655.66
POE	86+00	321549.70	3426901.20

ACCESS CHANNEL TOP OF SLOPE COORDINATES			
PI #	Station	Northing (Y)	Easting (X)
24	83+32	321486.84	3426647.30
POE	85+85	321589.07	3426869.14

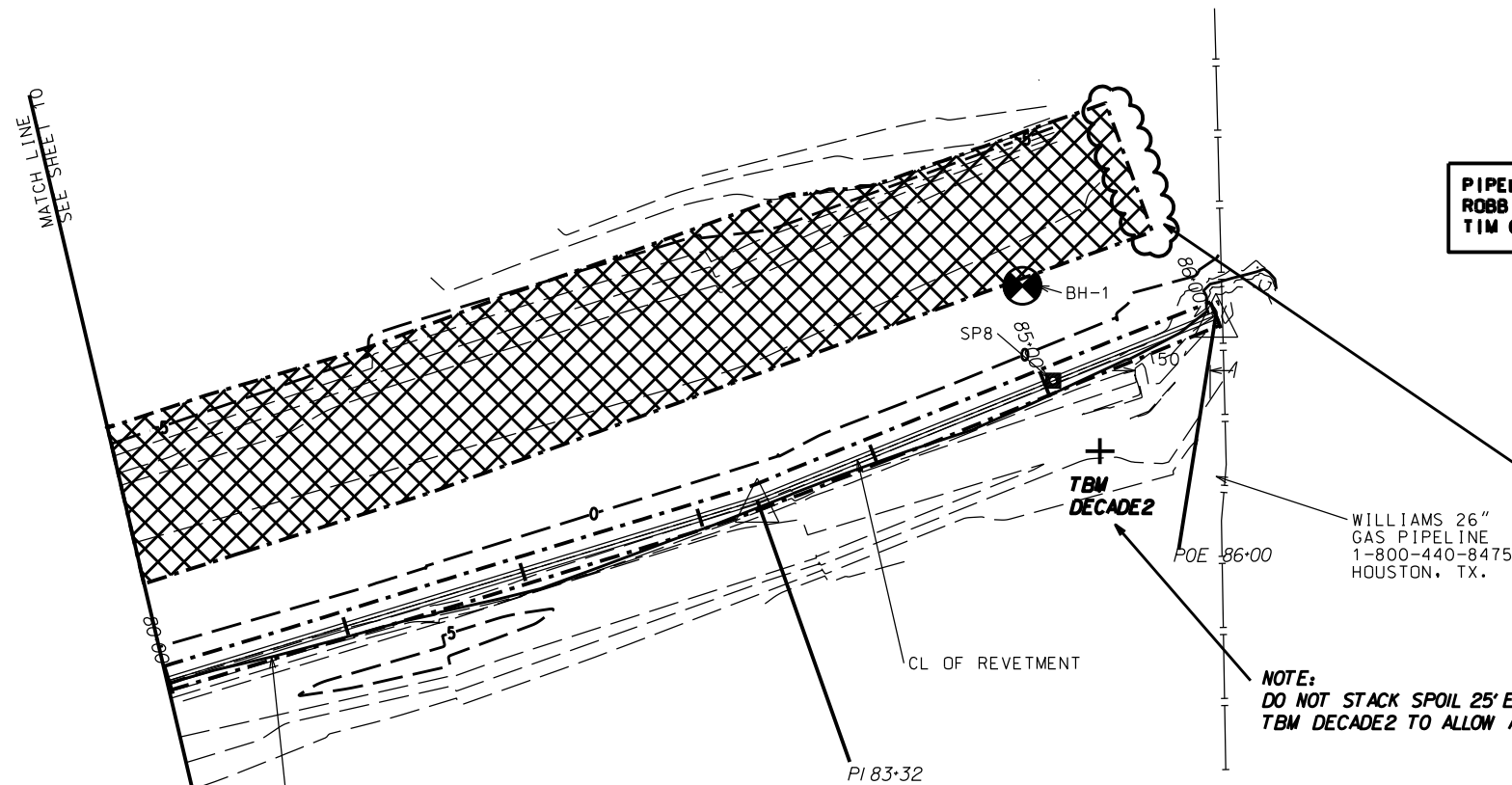
## MODIFICATION #3

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

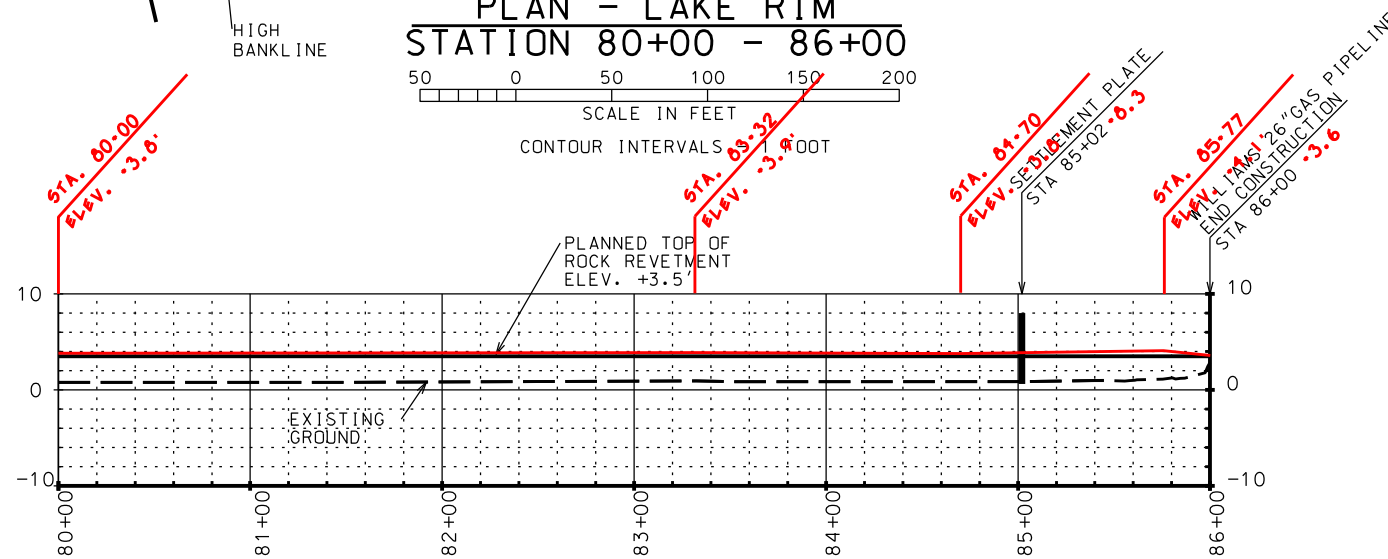
**PIPELINE CONTACTS**  
ROBBIE KNIGHT 985-446-7114  
TIM GIROIR 985-446-7174

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 80+00 - 86+00  
SCALE IN FEET  
CONTOUR INTERVALS 1.000'



PROFILE - LAKE RIM  
STATION 80+00 - 86+00  
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

**"AS-BUILT"**

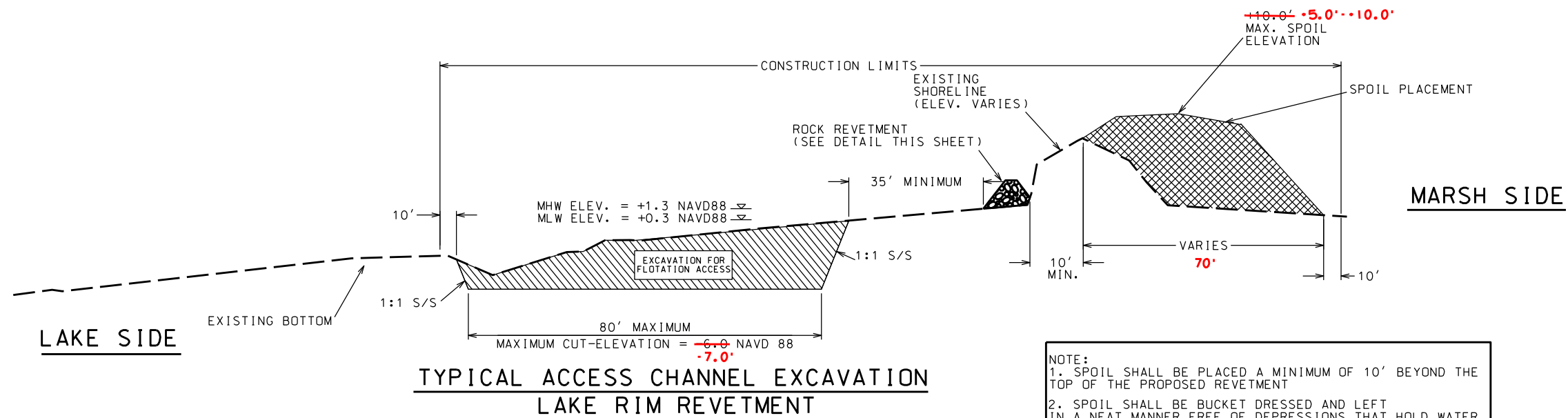


Date	Approved by	Title
09/10	B. STICKER	STATE CONSERVATION ENGINEER
09/10	D. WILMORE	TRACED
09/10	B. STICKER	CHECKED

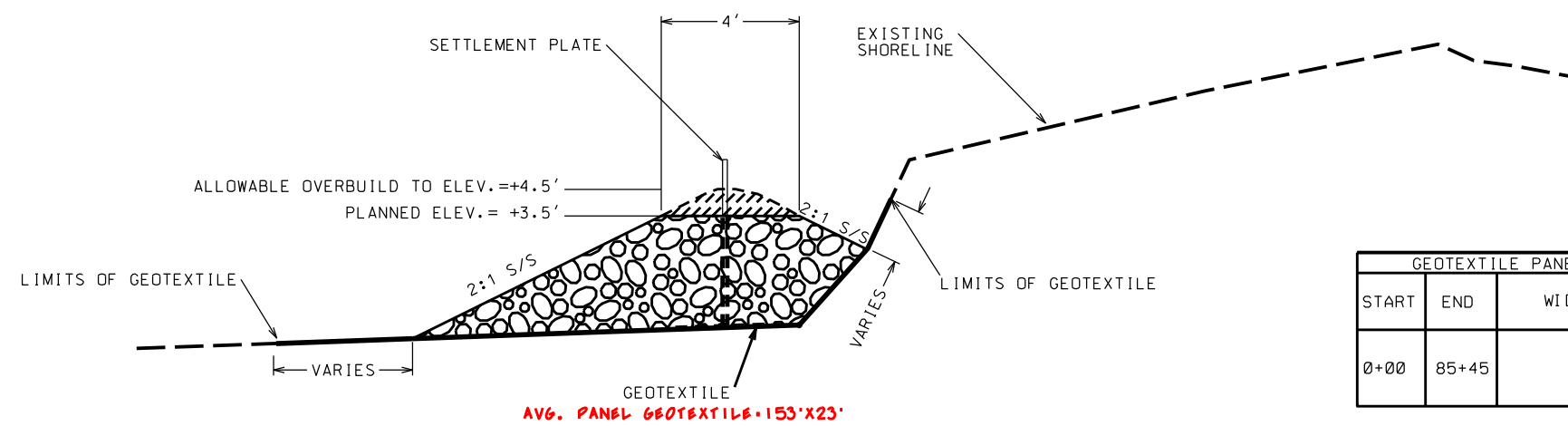
SITE PLAN - STA. 80+00 - STA. 86+00  
TE-39 SOUTH LAKE DECADE CU#1  
TERREBONNE PARISH, LOUISIANA  
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

NO.	DATE	APPR.	TITLE
M1	09/10	M.G.	D.E.
M2	03/11	C.S.	D.E.
M2	03/11	C.S.	D.E.

CAD FILENAME  
LA32711M3.DGN  
PROJECT NO.  
LA327  
SHEET NO1 M3 OF 2 Q.

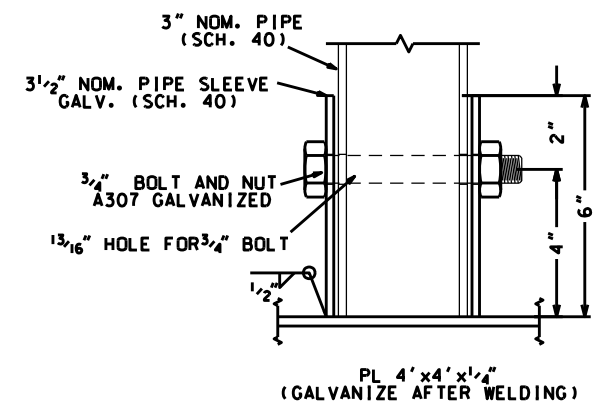


NOTE:  
 1. SPOIL SHALL BE PLACED A MINIMUM OF 10' BEYOND THE TOP OF THE PROPOSED REVETMENT  
 2. SPOIL SHALL BE BUCKET DRESSED AND LEFT IN A NEAT MANNER FREE OF DEPRESSIONS THAT HOLD WATER  
 3. SEE SHTS 4-11 FOR ACCESS CHANNEL COORDINATES

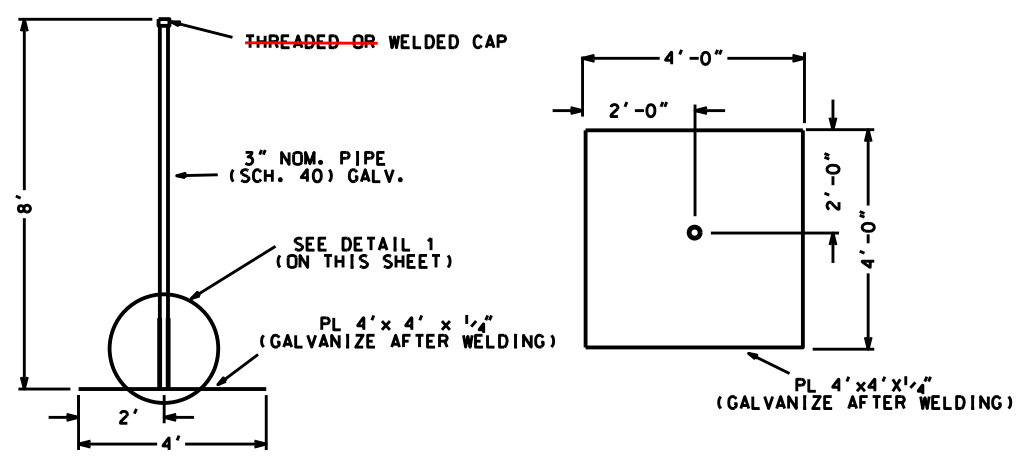


ROCK GRADATION	
PERCENT LIGHTER BY WEIGHT	ASTM D6092-97 R-300 ROCK RIPRAP ROCK SIZE BY WEIGHT
100	700 LBS.
50-100	300 LBS.
15-50	50 LBS.
0-15	45 LBS.

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



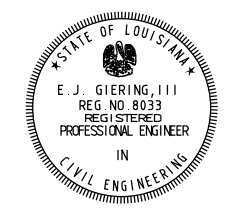
DETAIL 1 - PIPE SLEEVE (NOT TO SCALE)



SETTLEMENT PLATE DETAILS (NOT TO SCALE)

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

"AS-BUILT"



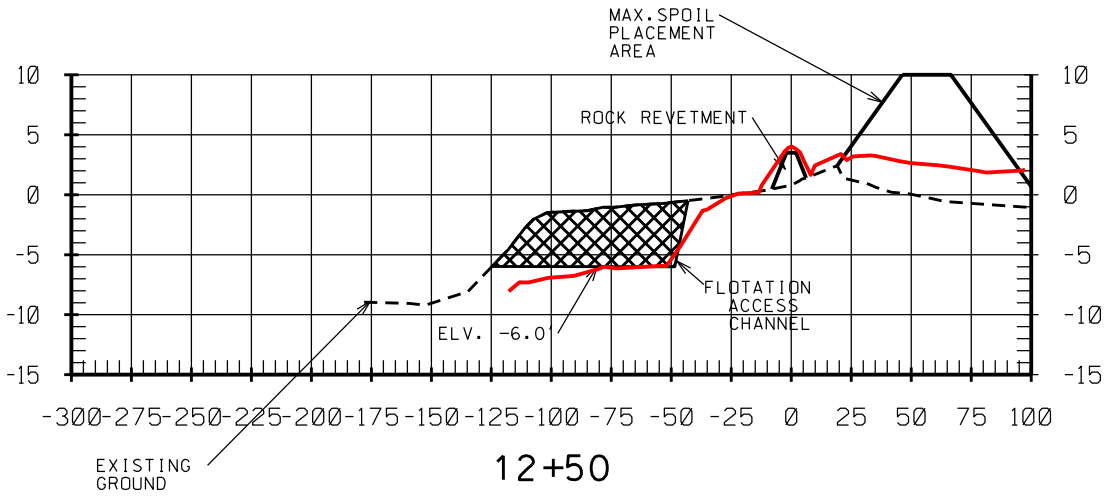
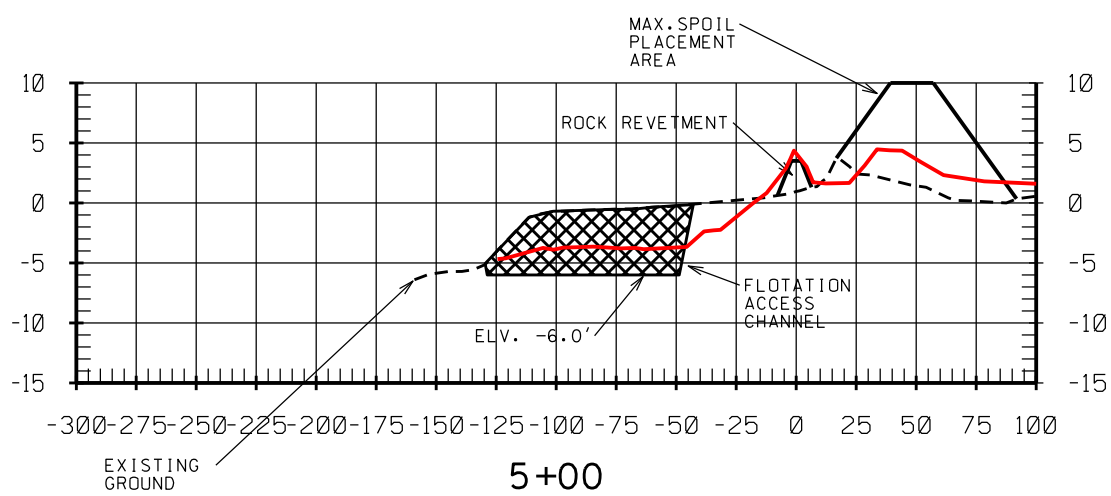
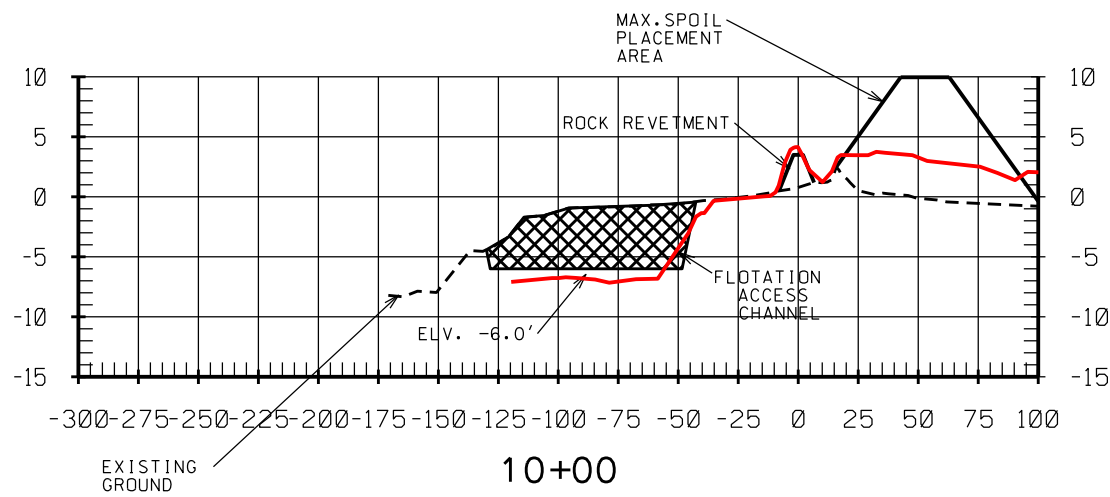
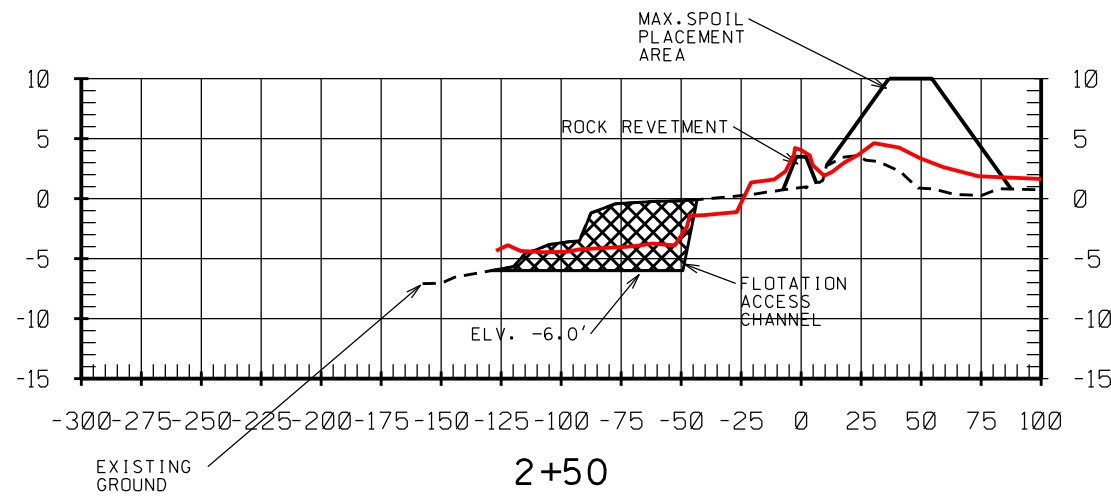
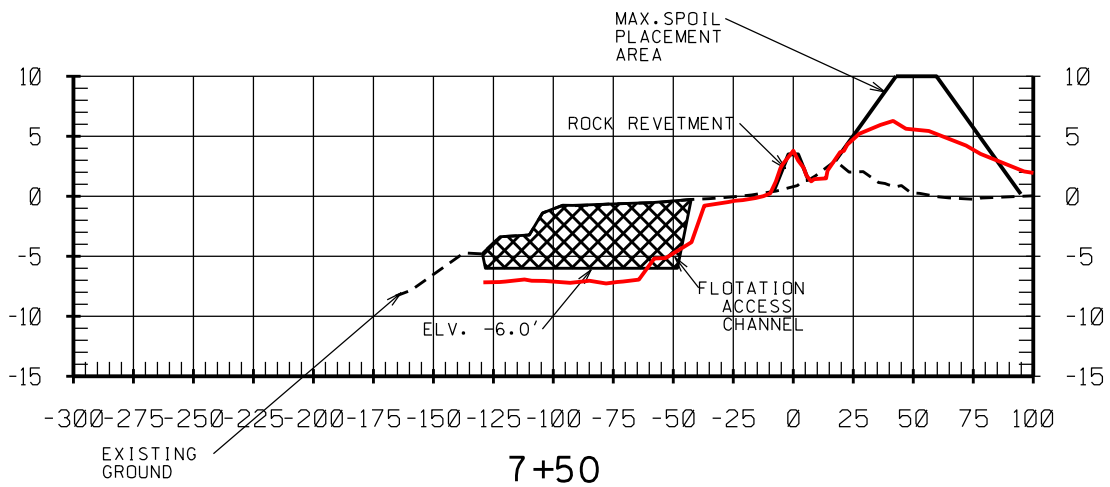
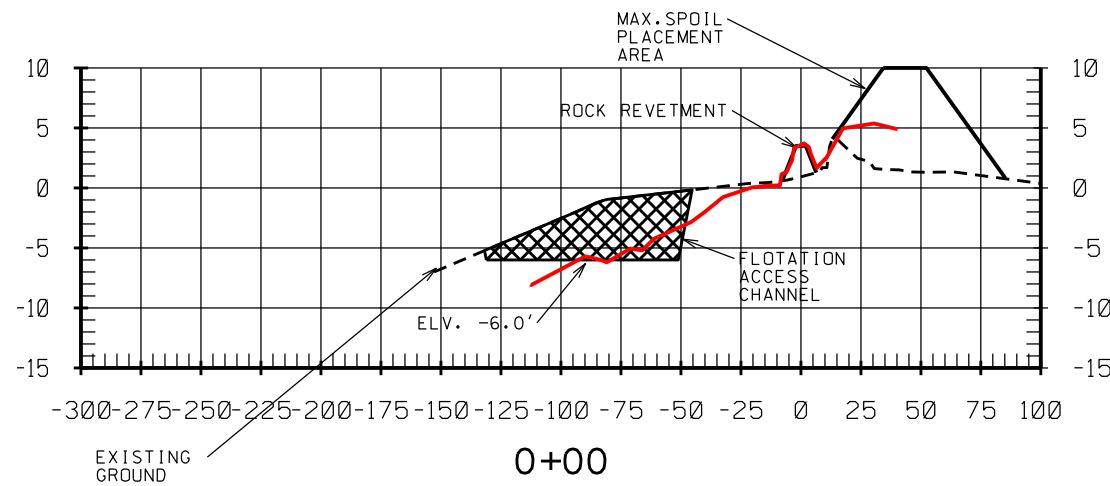
Date	Approved by	Date	Traced	Checked
11/09	E.J. GIERING, III	03/08	R. FAULKNER	B. STICKER
11/09	ALEXANDR, A.C.A.	03/08	D. WILLMORE	
	STATE CONSERVATION ENGINEER			

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

REV. NO.	DATE	APPR.	TITLE

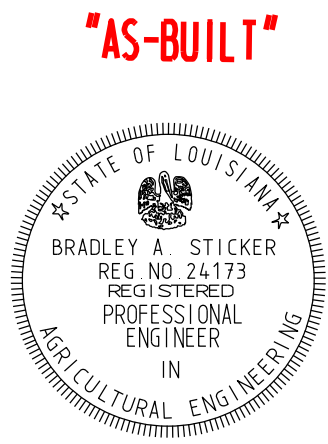
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 PROJECT NO.: LA327  
 SHEET NO. 12 OF 20

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



MODIFICATION #1 - TOPOGRAPHY CHANGE

SCALE: VERTICAL 5:1 HORIZONTAL



**"AS-BUILT"**

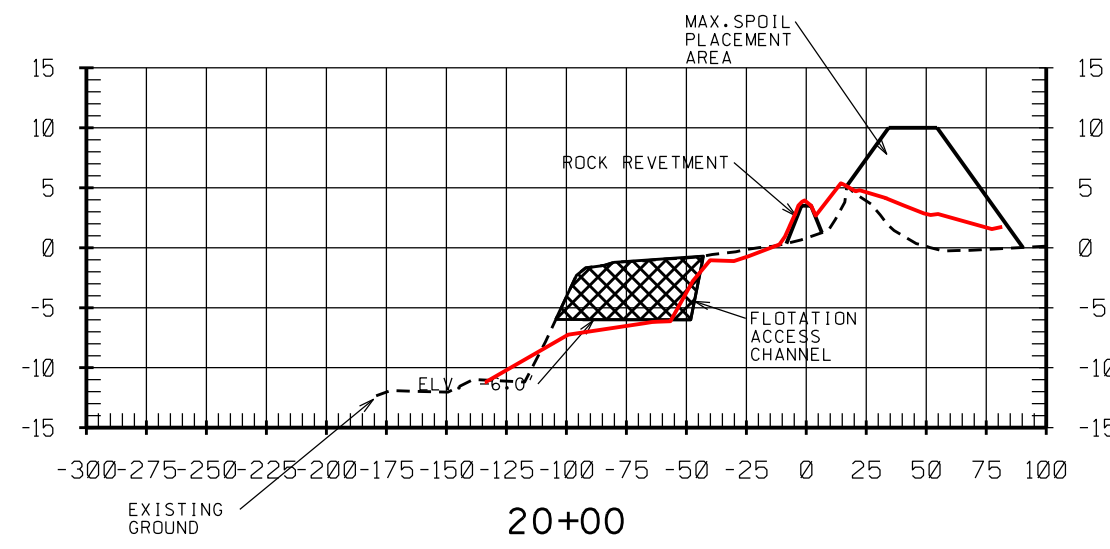
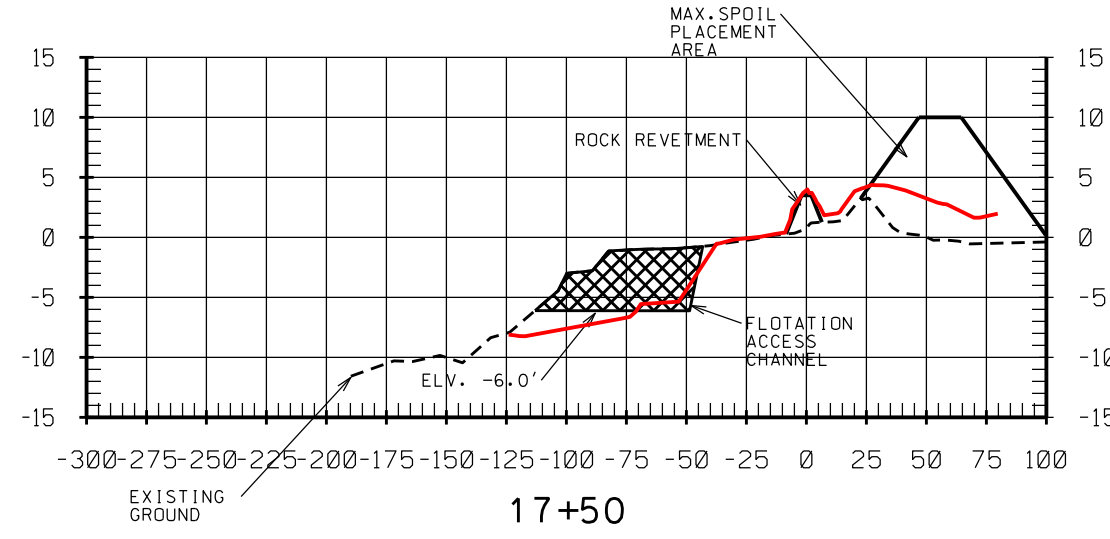
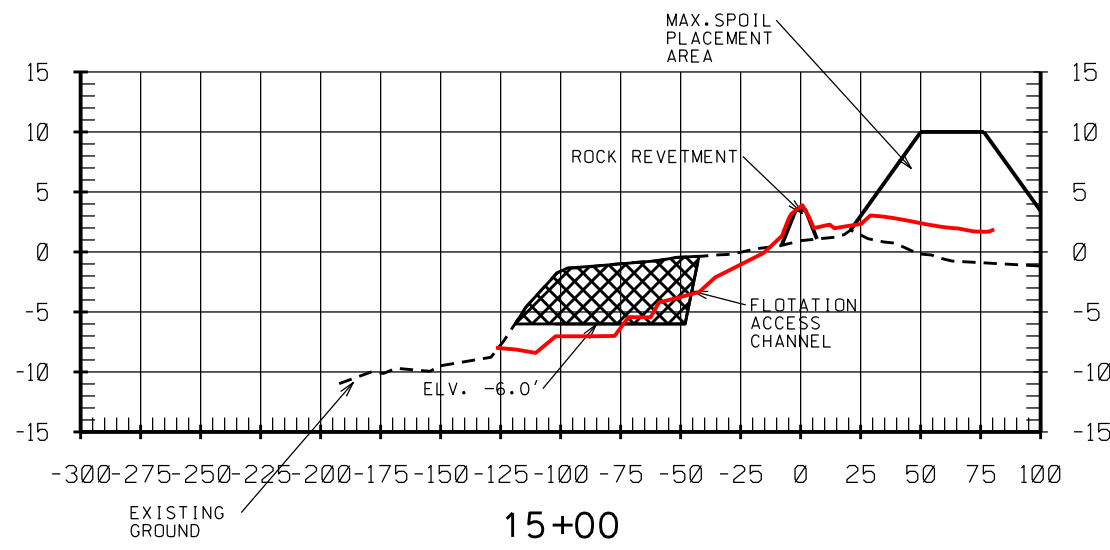
Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALEXANDRIA, LOUISIANA
		Date	09/10
		Title	

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

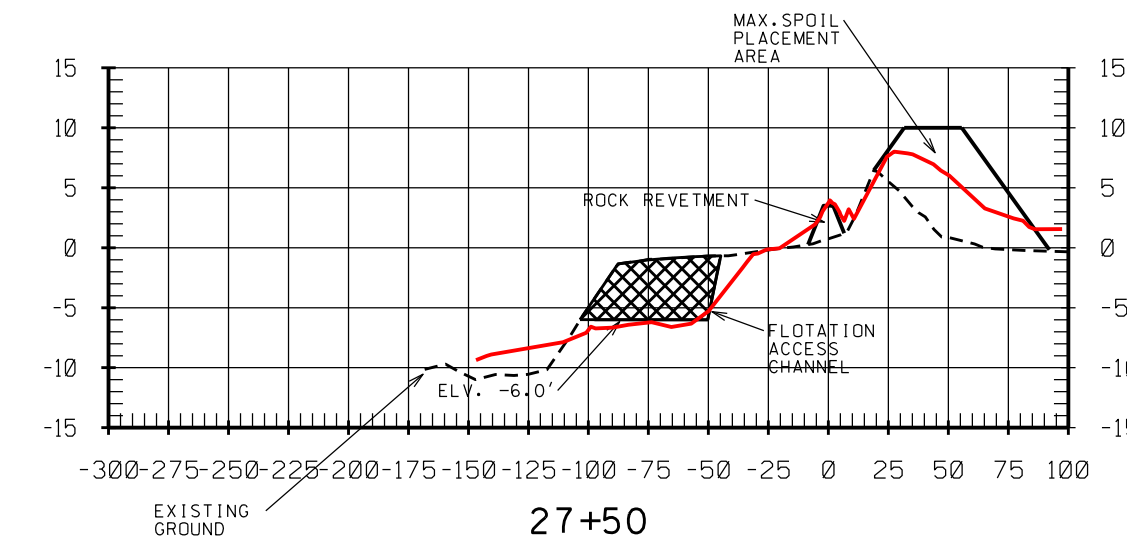
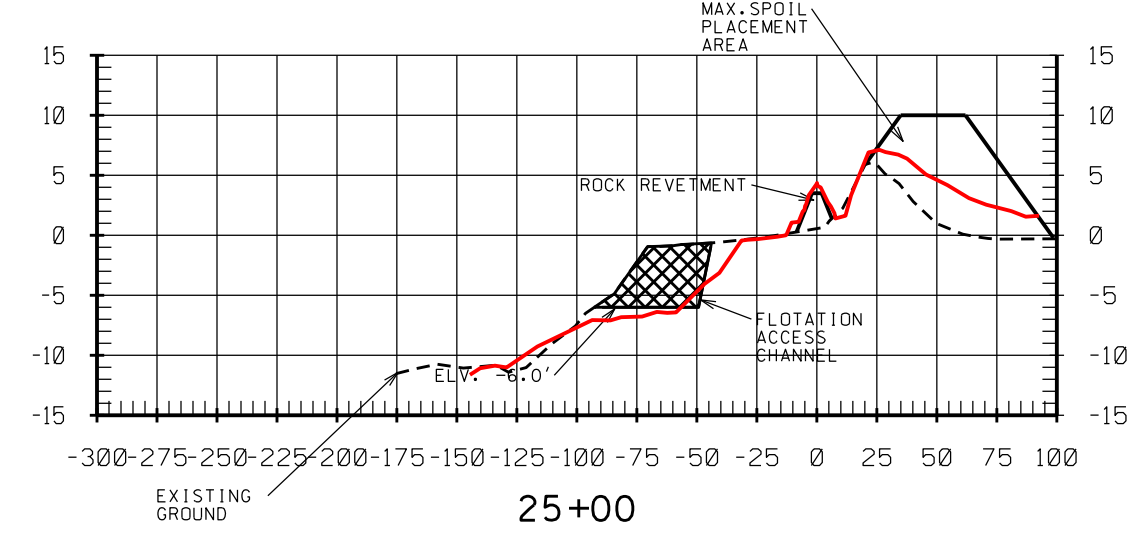
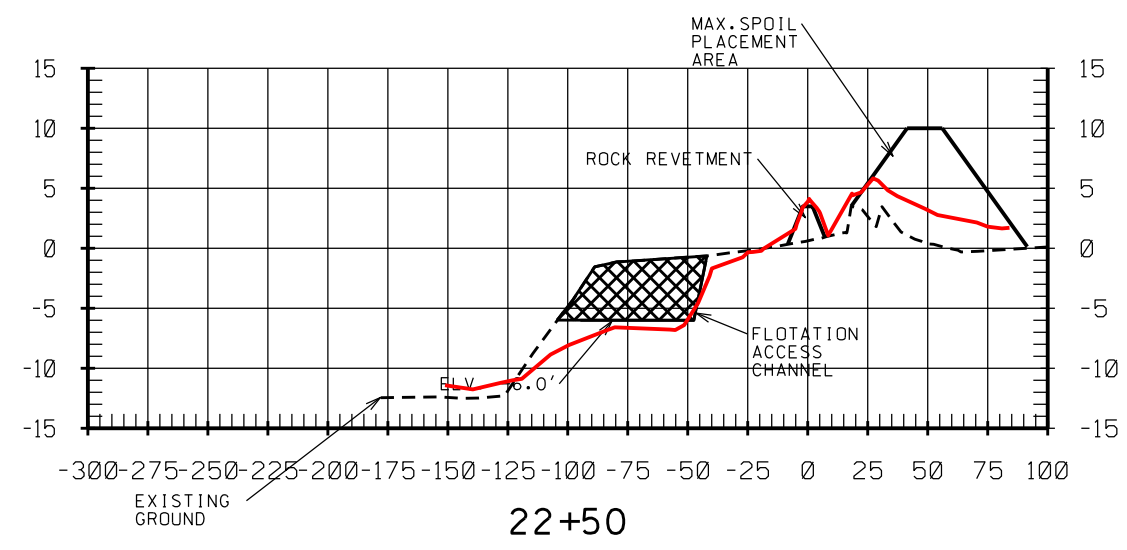
REV. NO.	DATE	BY	TITLE
1	09/10	MI	D.E.

CAD FILENAME  
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 PROJECT NO.  
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 SHEET NO1 3M1 OF 20

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



MODIFICATION #1 - TOPOGRAPHY CHANGE



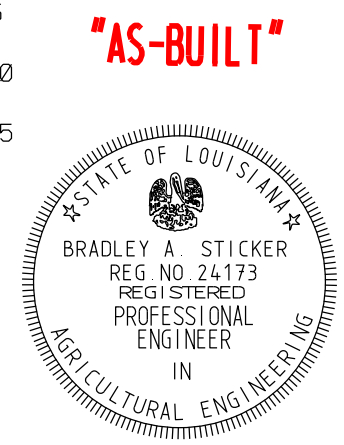
SCALE: VERTICAL 5:1 HORIZONTAL

Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALEXANDRIA, LOUISIANA
		Date	09/10

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

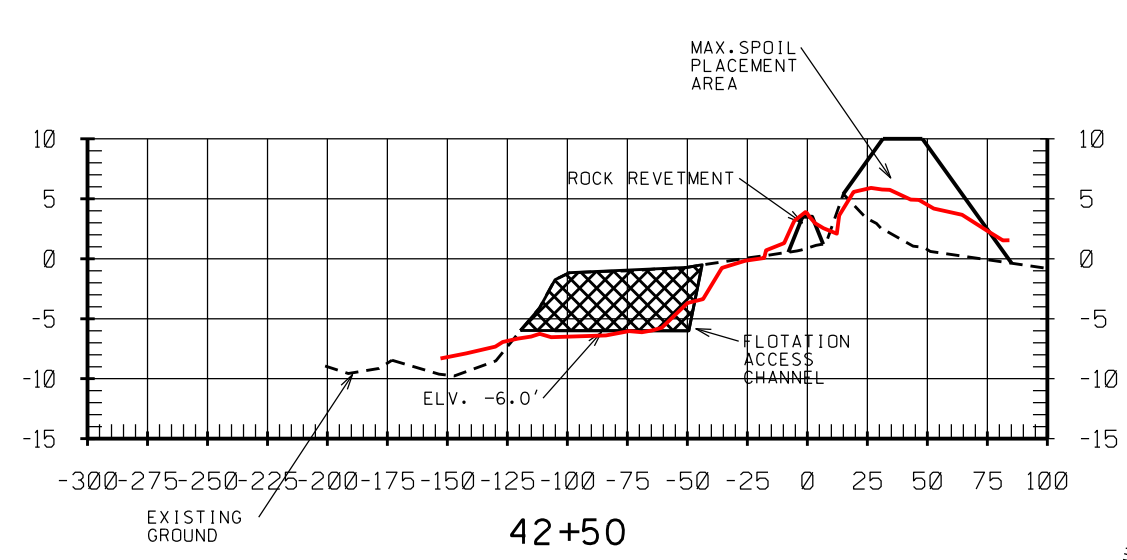
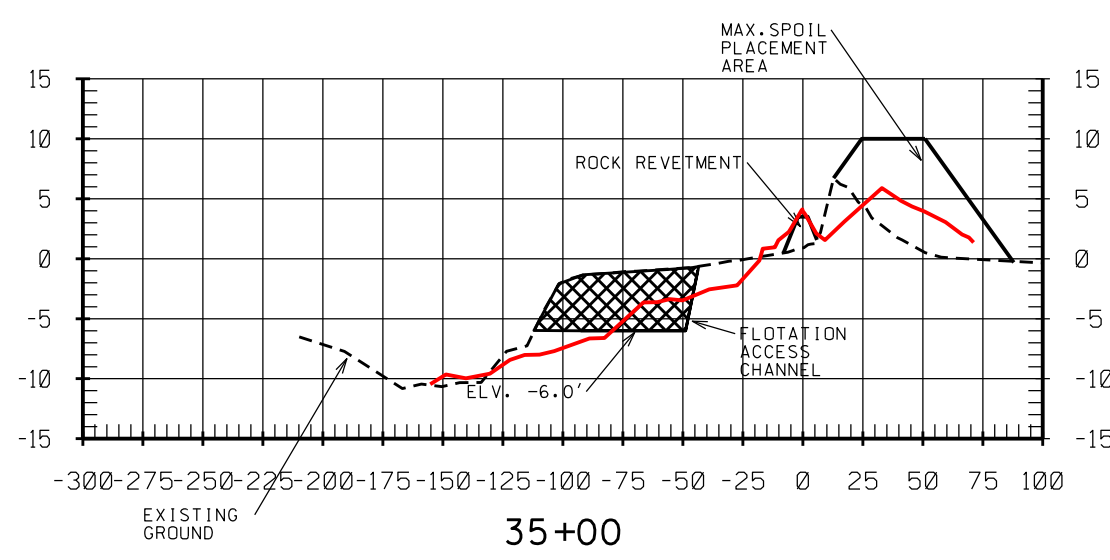
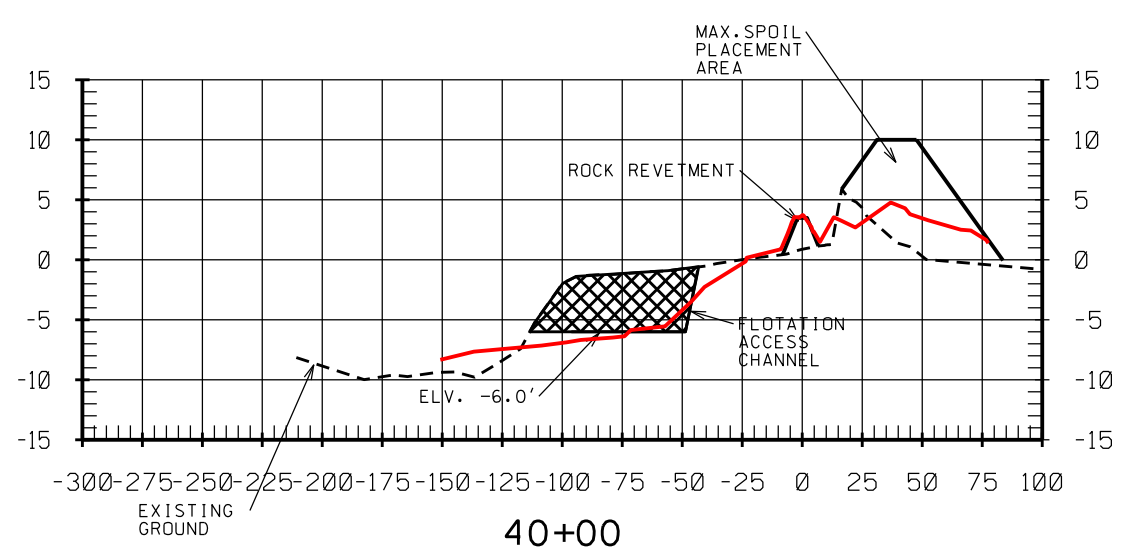
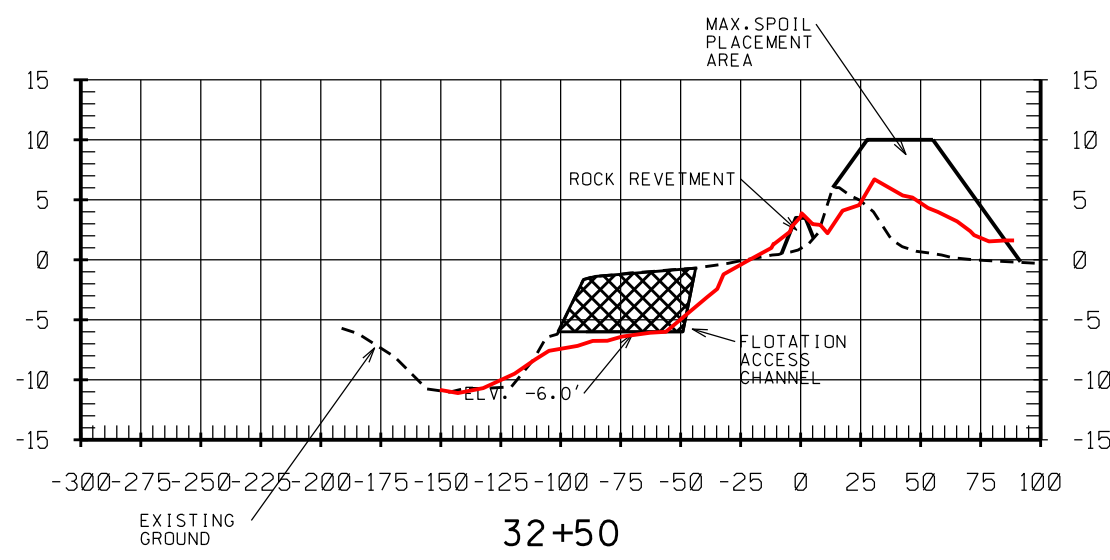
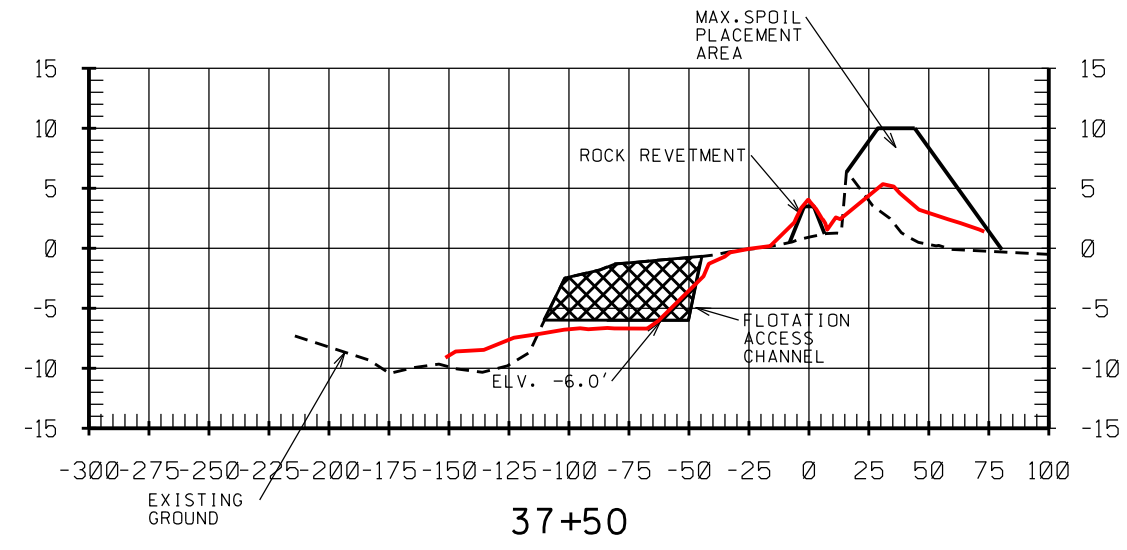
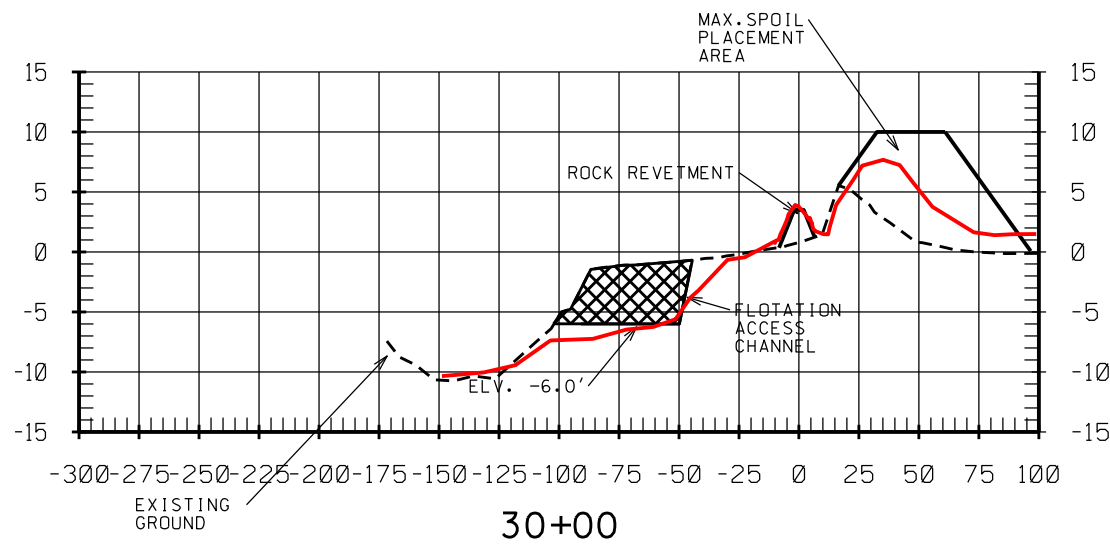
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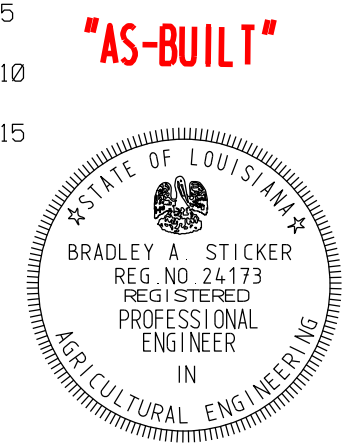
"AS-BUILT"

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



MODIFICATION #1 - TOPOGRAPHY CHANGE

SCALE: VERTICAL 5:1 HORIZONTAL



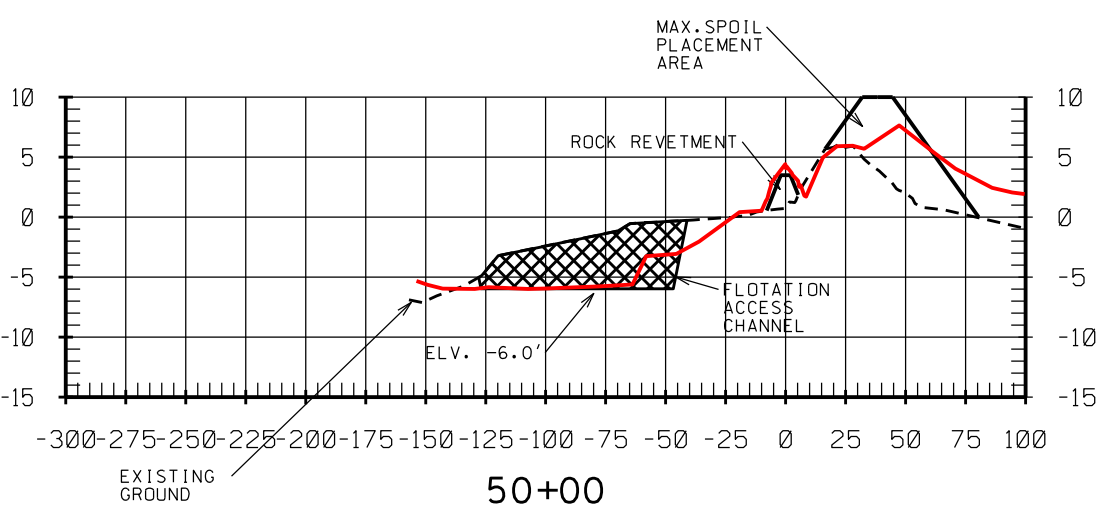
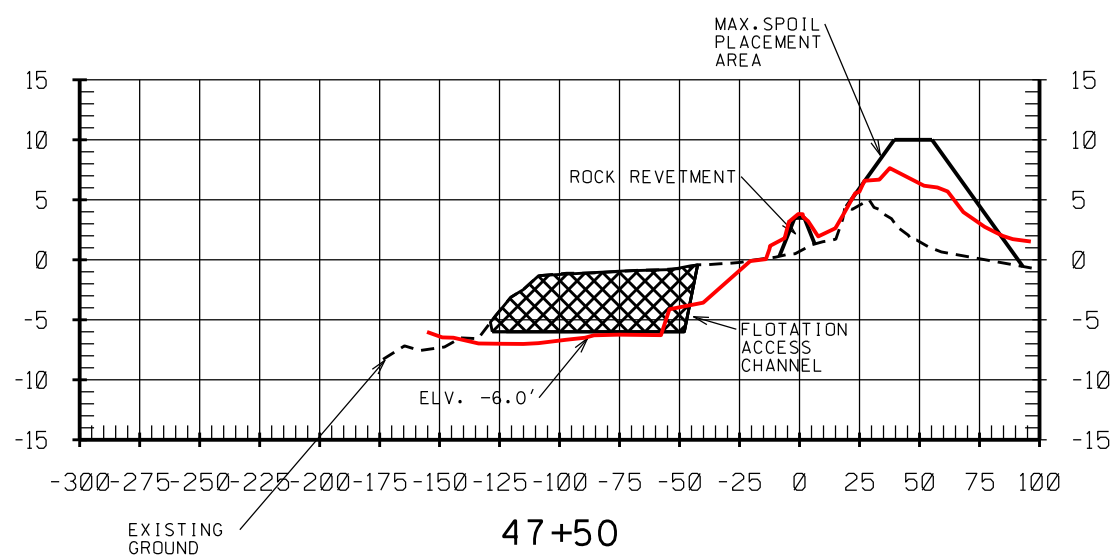
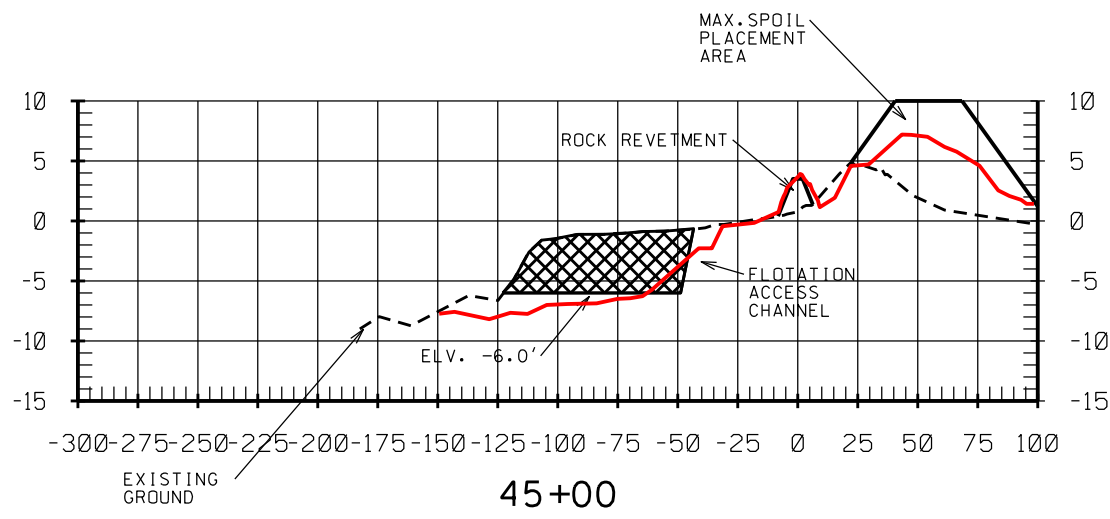
Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALEXANDRIA, LOUISIANA
		Date	09/10
		Title	

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

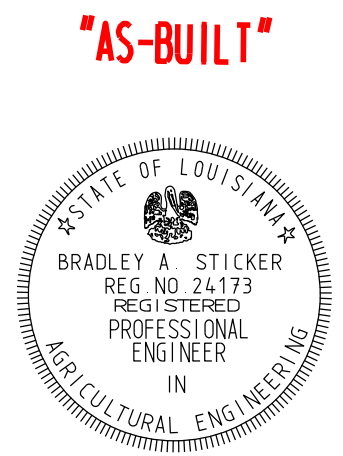
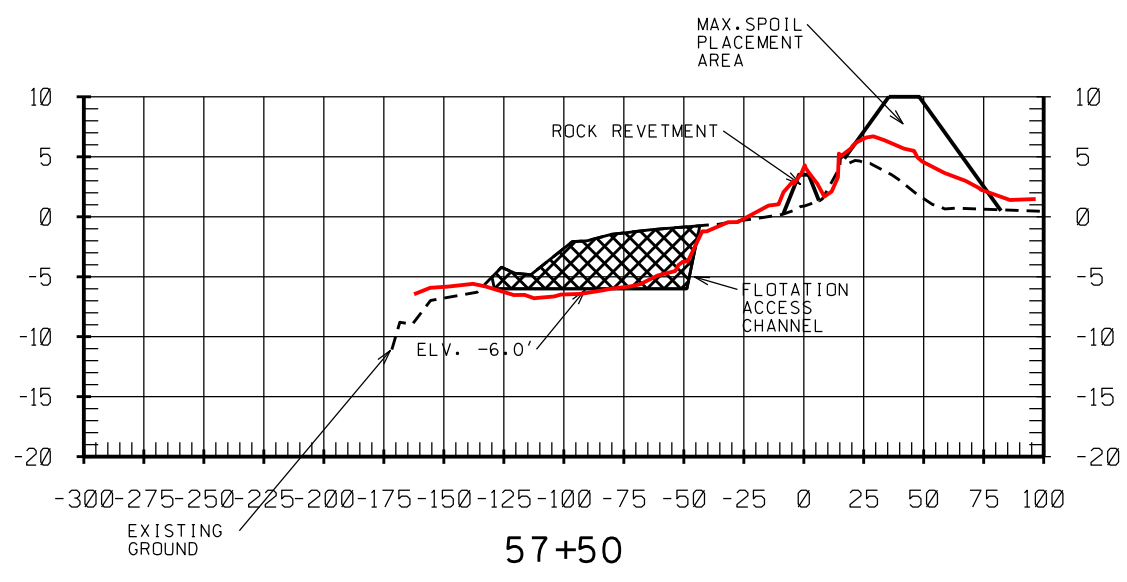
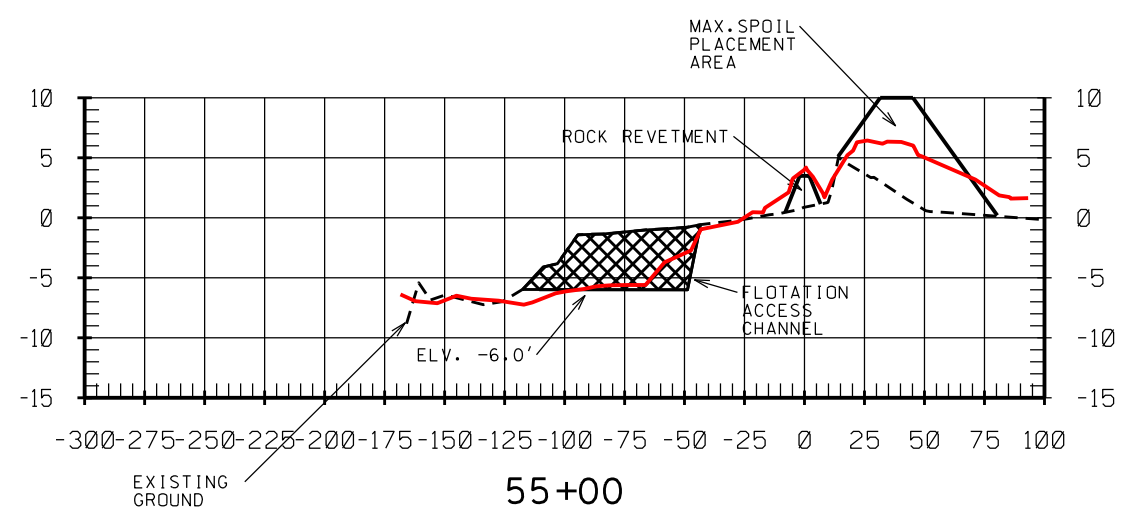
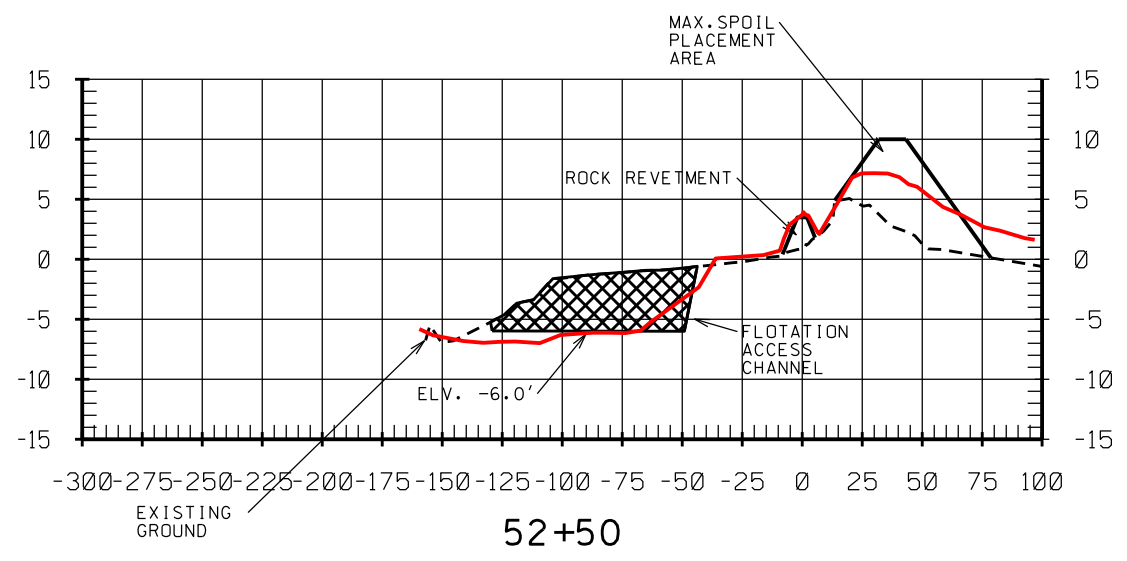
REV. NO.	DATE	BY	TITLE
1	09/10	MT	D.E.

CAD FILENAME  
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 PROJECT NO.  
 LA327  
 SHEET NO 15 M 1 OF 2 Q.

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



MODIFICATION #1 - TOPOGRAPHY CHANGE



"AS-BUILT"

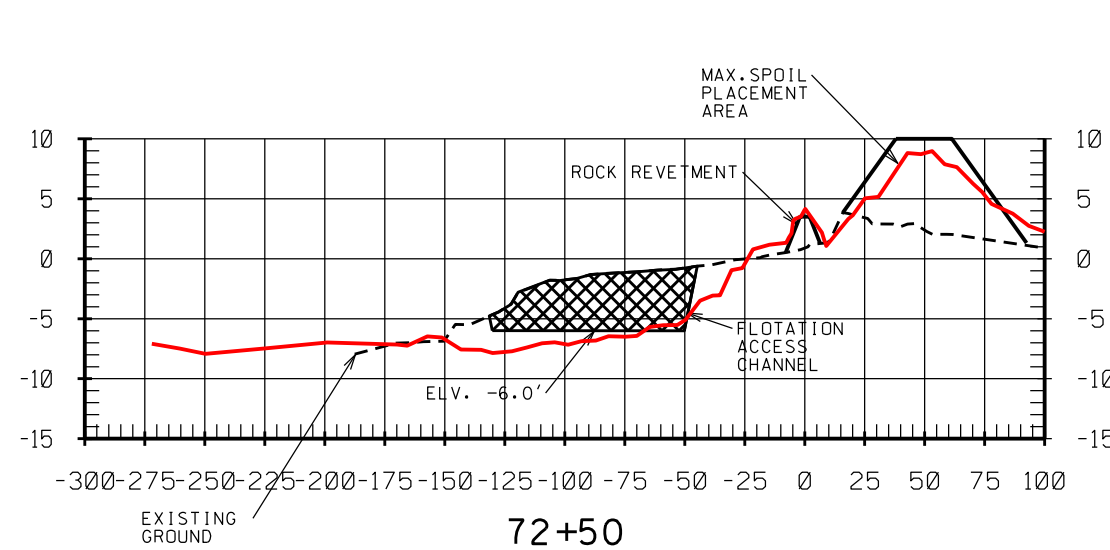
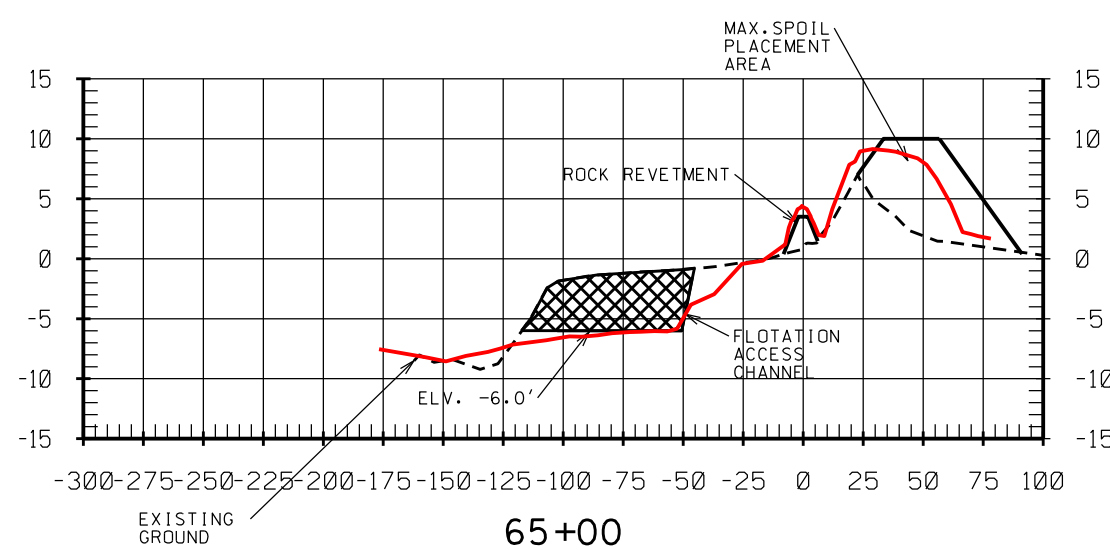
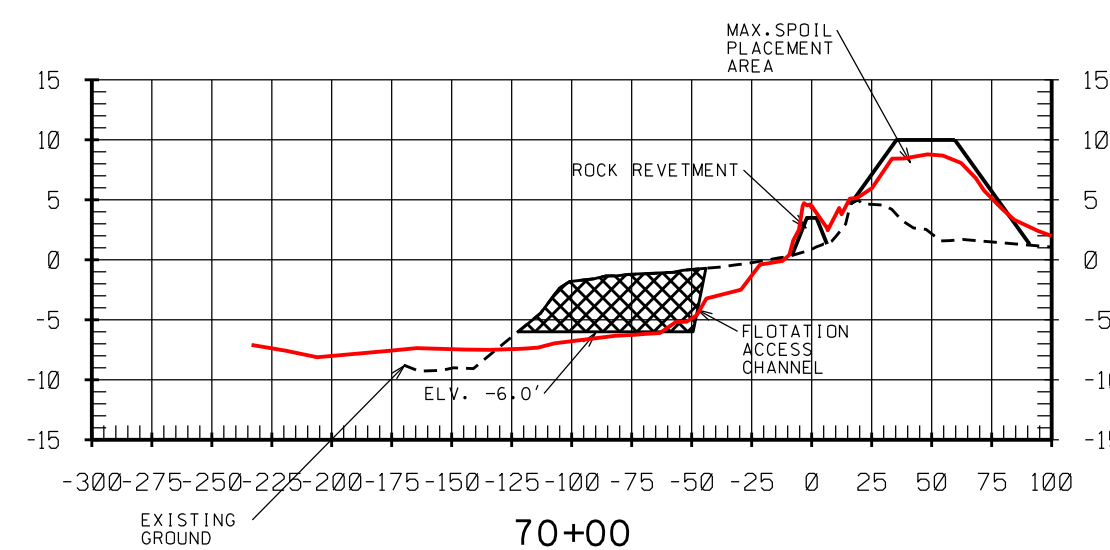
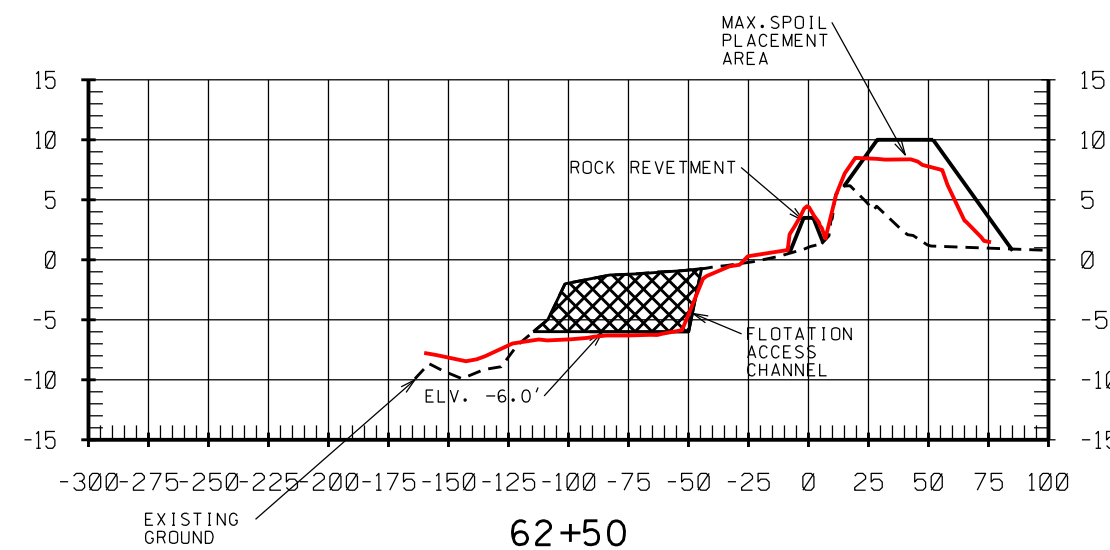
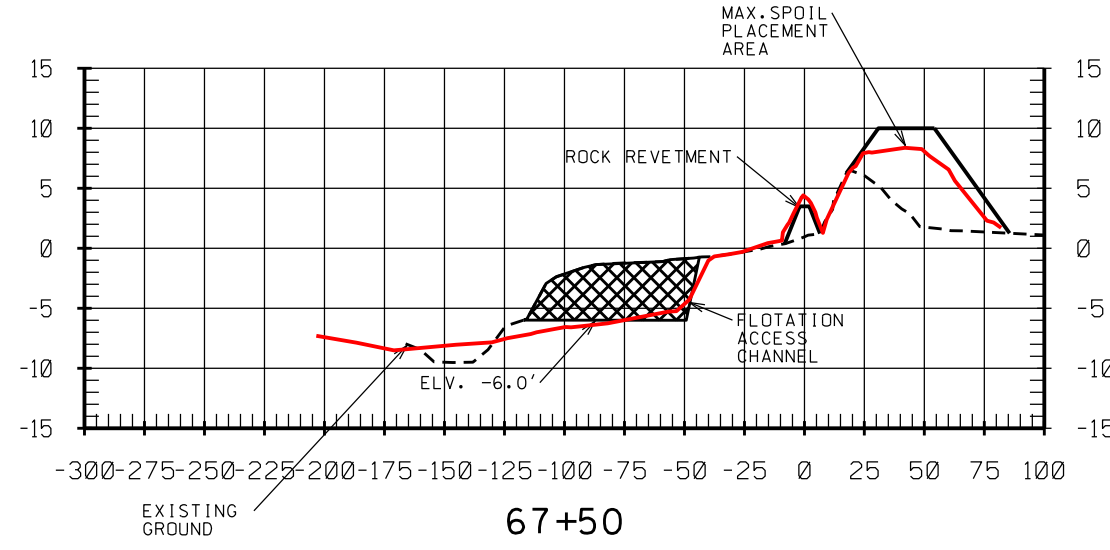
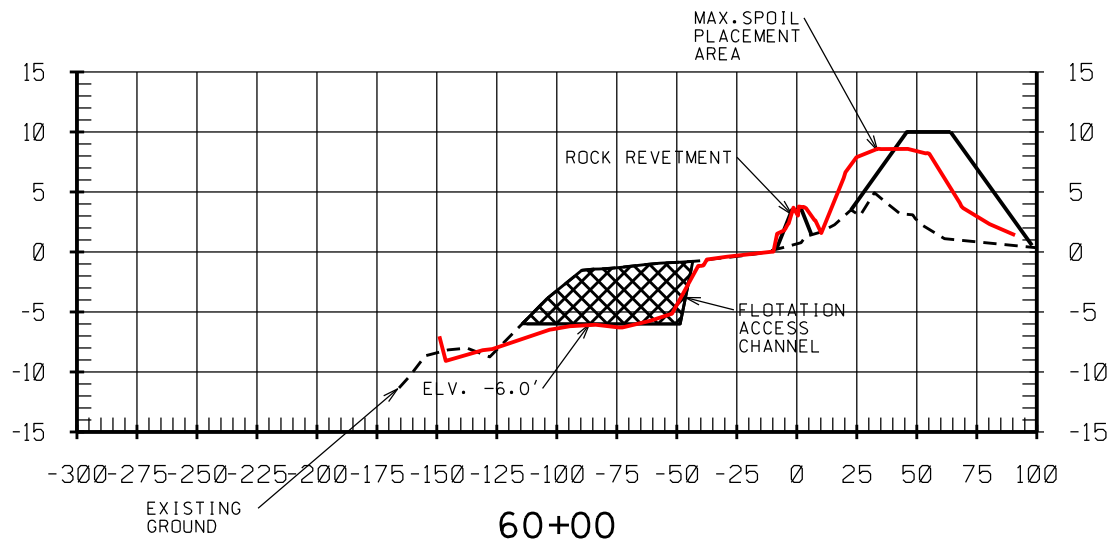
Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced		Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER		ALEXANDRIA, LOUISIANA
		Date	09/10
		Title	

X-SECTION LAKE RIM  
 REVETMENT STA. 45+00-57+50  
 TE-39 SOUTH LAKE DECADE CU#1  
 TERREBONNE PARISH, LOUISIANA

REVISIONS	TITLE
DATE	REV. NO.
09/10	M1
	M.C.
	D.E.
CAD FILENAME	
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PROJECT NO.	
LA327	
SHEET NO16M1OF20	

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





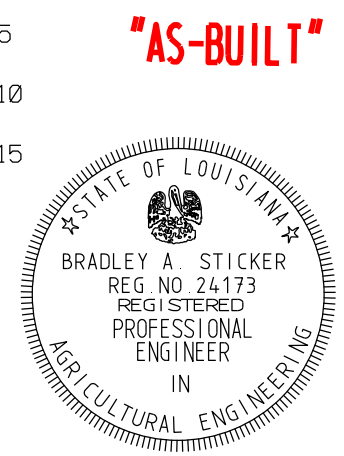
MODIFICATION #1 - TOPOGRAPHY CHANGE

Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALEXANDRIA, LOUISIANA
		Date	09/10
		Title	

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

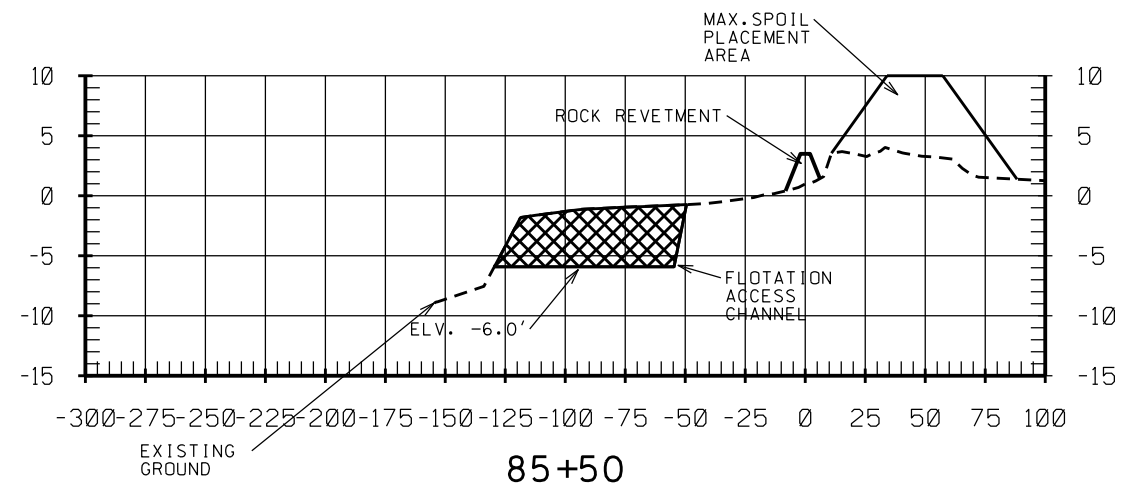
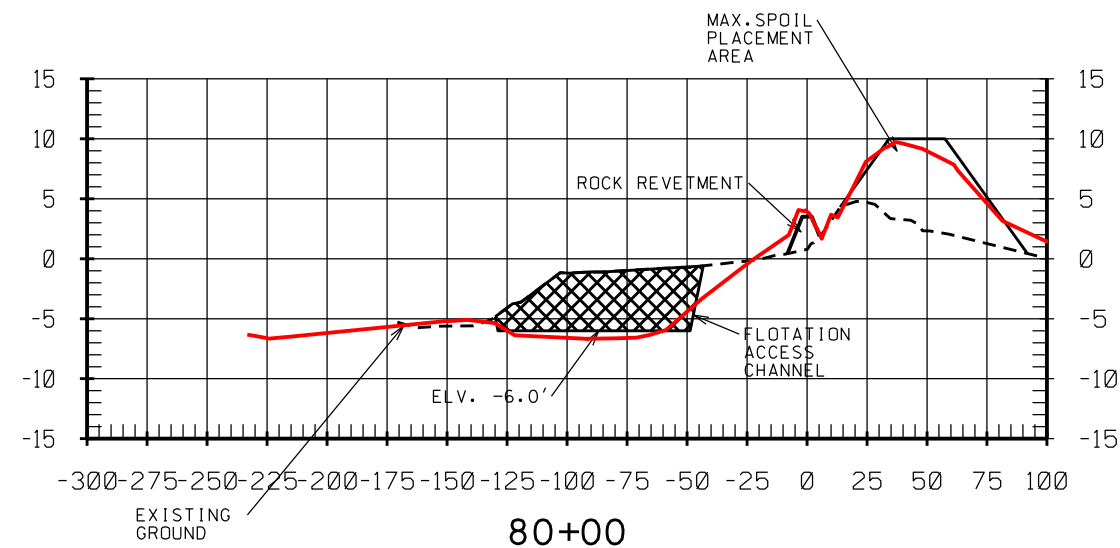
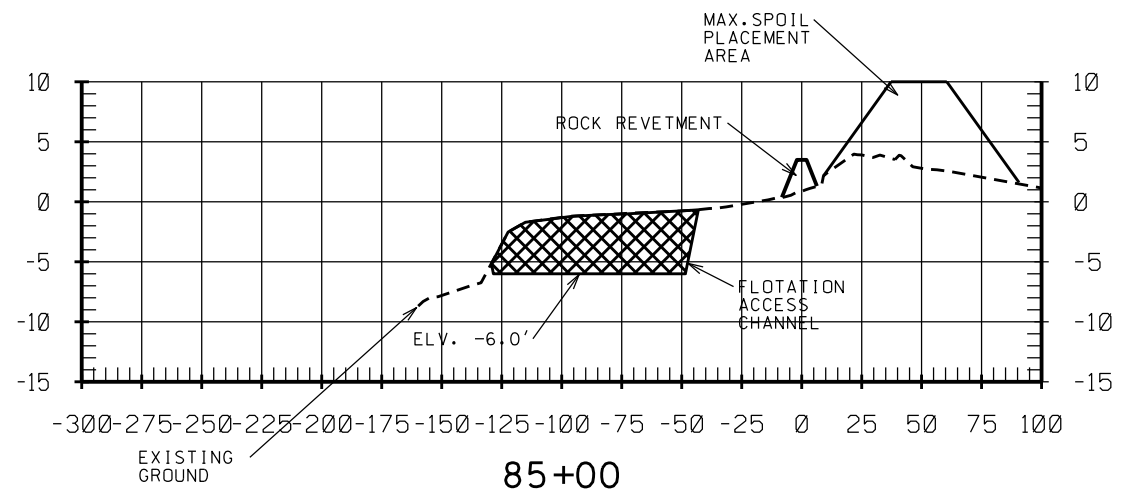
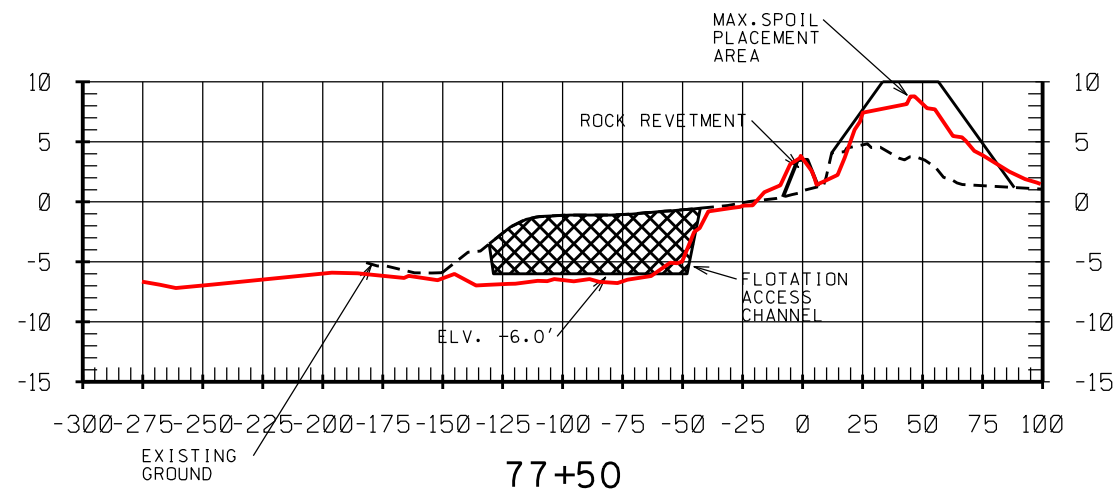
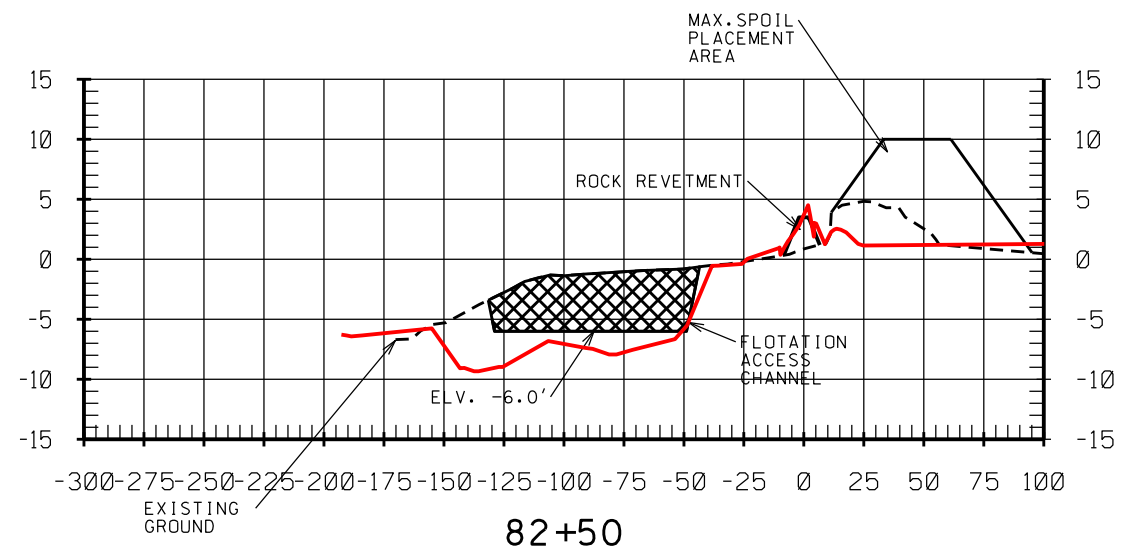
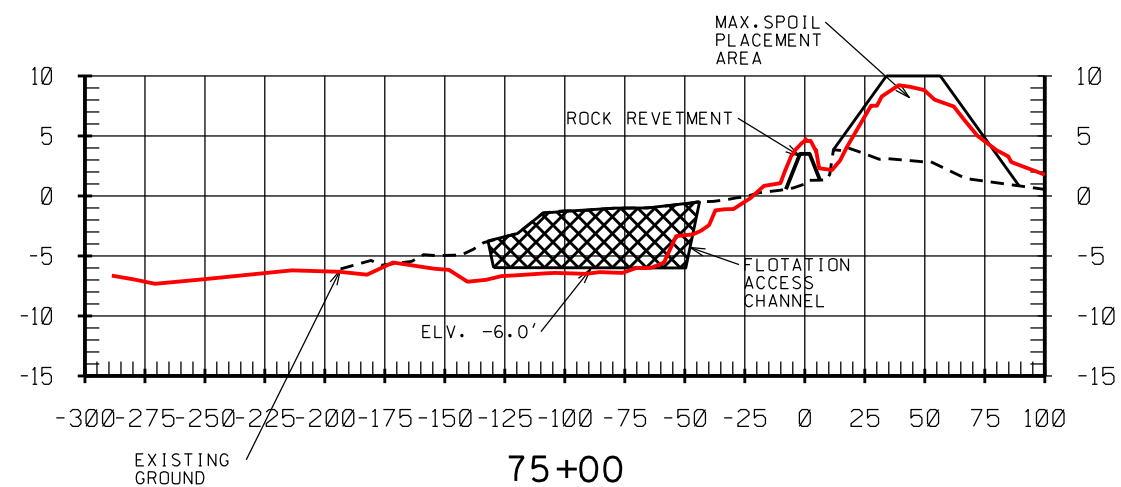
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CAD FILENAME  
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 LA327  
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"AS-BUILT"

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



MODIFICATION #1 - TOPOGRAPHY CHANGE

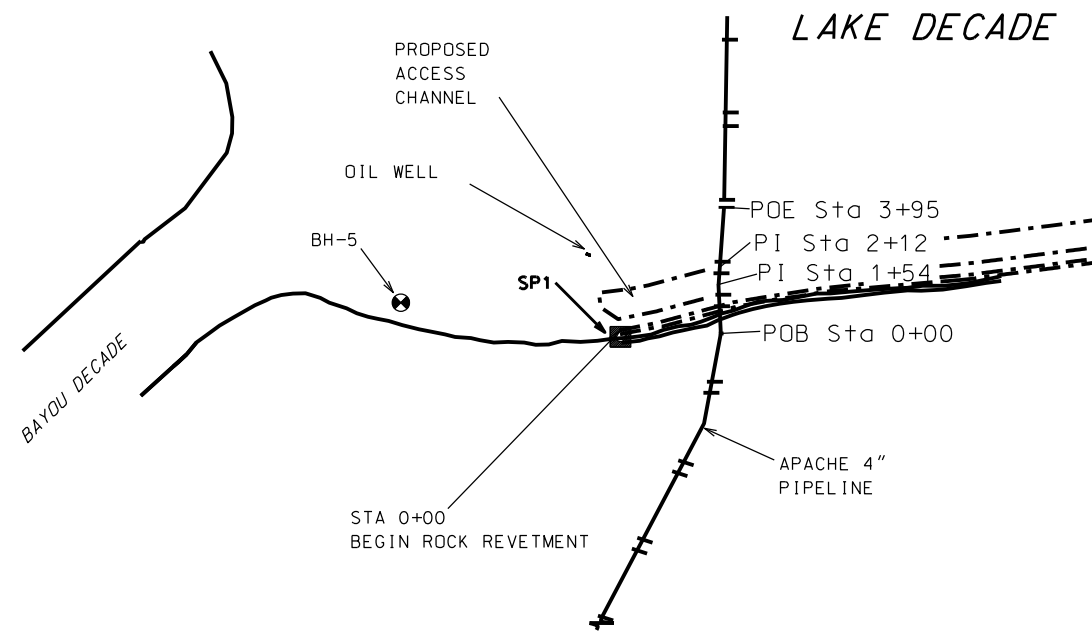
**"AS-BUILT"**



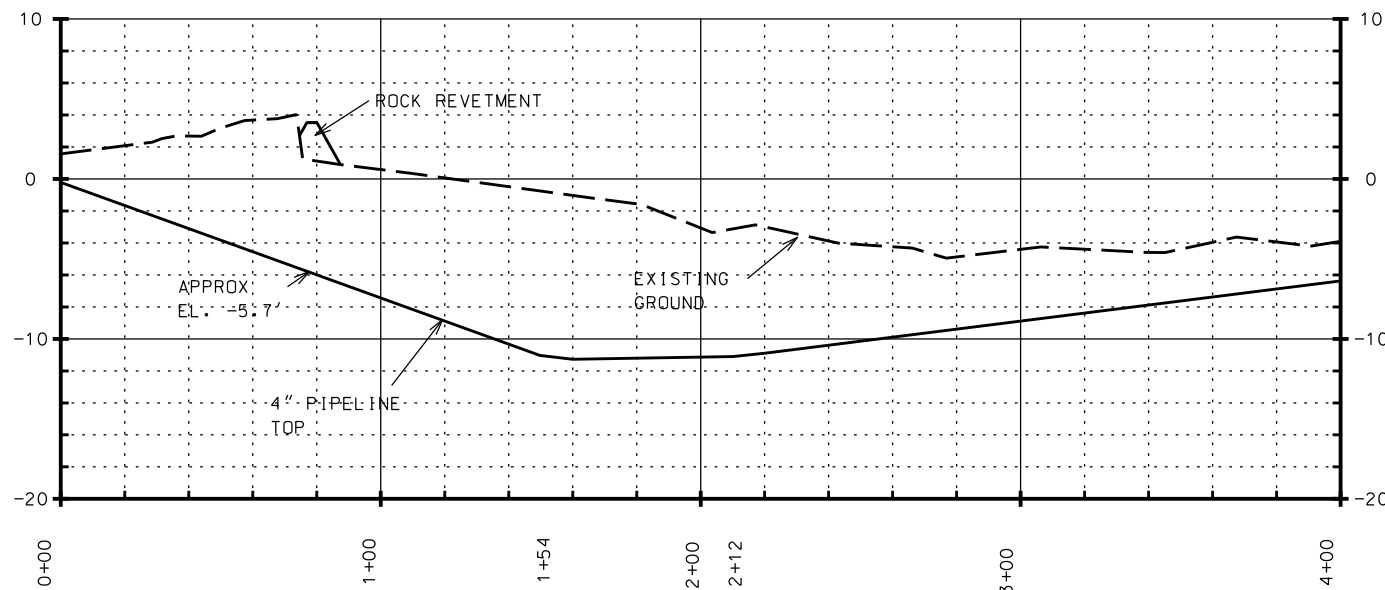
Designed	M. GREMILLION	Date	09/10
Drawn	D. WILMORE	Approved by	B. STICKER
Traced	B. STICKER	Title	STATE CONSERVATION ENGINEER
Checked	B. STICKER	Title	ALEXANDRIA, LOUISIANA
		Date	09/10
		Title	

<b>X-SECTION LAKE RIM          REVELMENT STA. 75+00-85+45          TE-39 SOUTH LAKE DECADE CU#1          TERREBONNE PARISH, LOUISIANA</b>	
REVISIONS DATE REV. NO. APPR. TITLE 09/10 M1 M.G.	CAD FILENAME LA32718M1.DGN PROJECT NO. LA327 SHEET NO18M1OF2Q.
<b>U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE</b>	

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



PLAN APACHE  
4-INCH PIPELINE



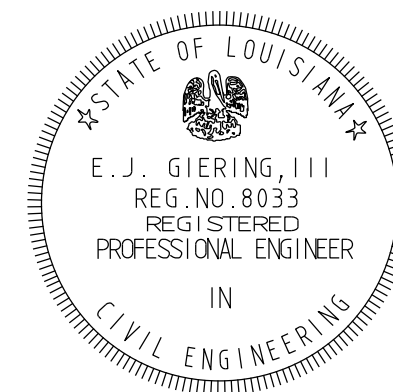
PROFILE APACHE  
4-INCH PIPELINE

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

**"AS-BUILT"**



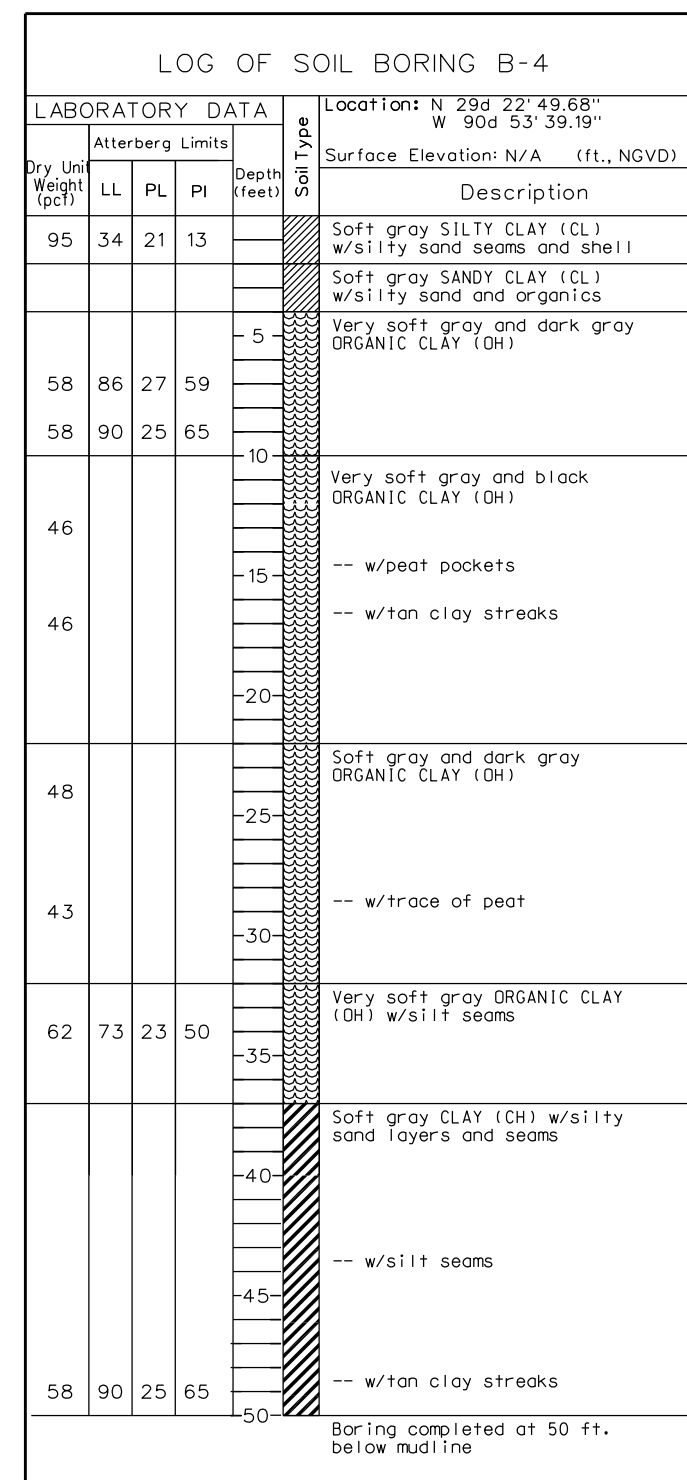
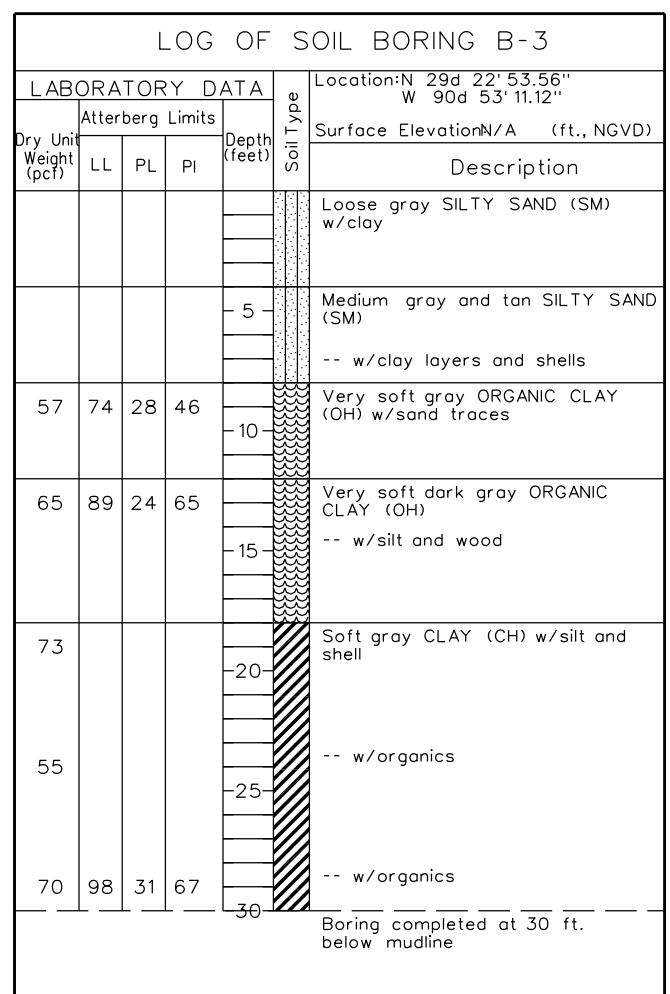
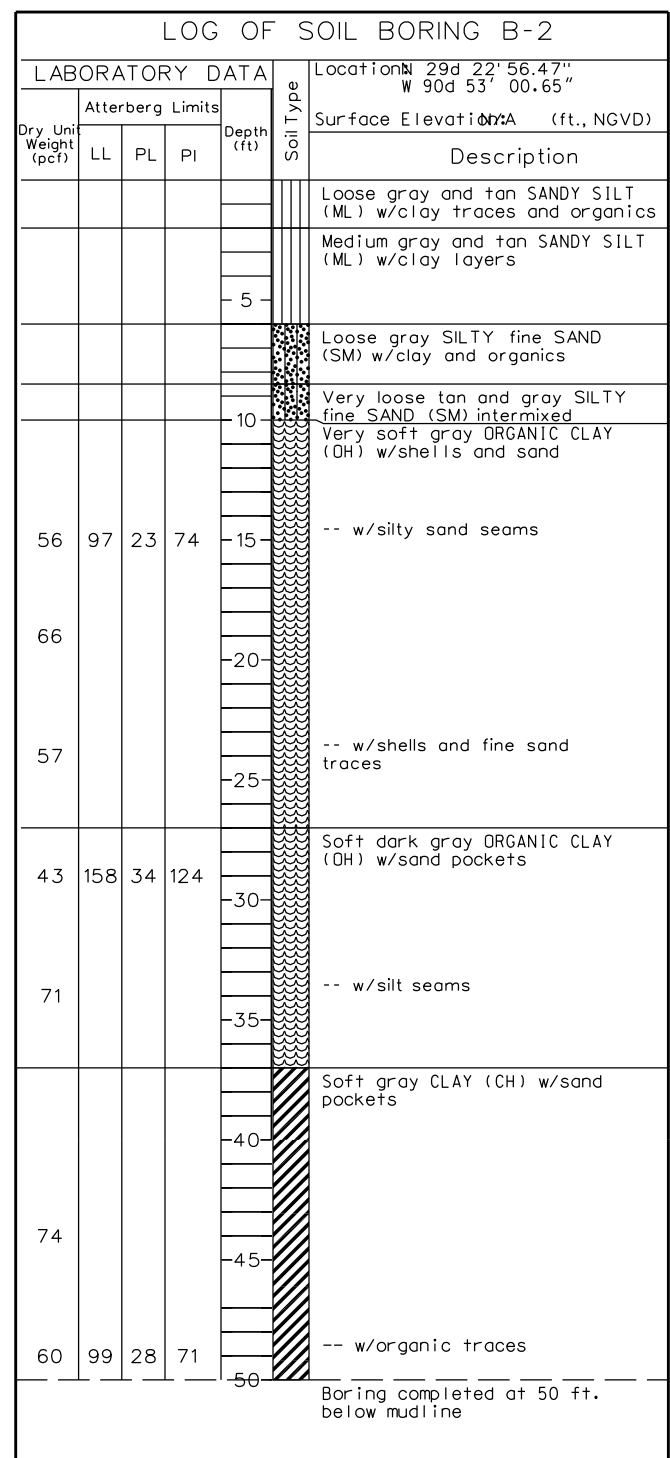
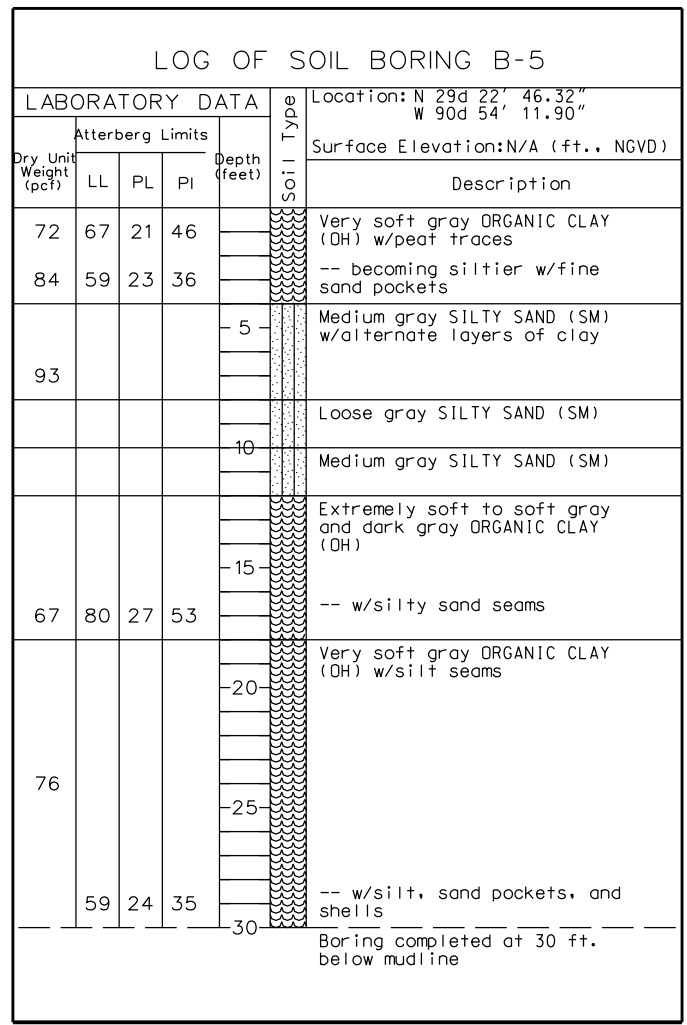
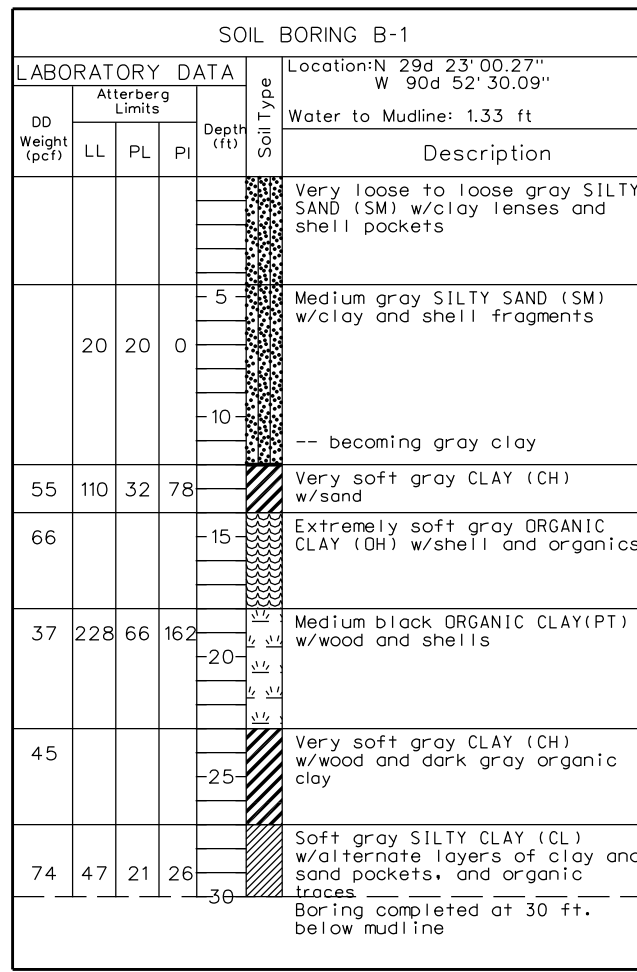
Date	Approved by	Title
11/09	E. J. GIERING, III	STATE CONSERVATION ENGINEER
03/08	D. WILMORE	ALEXANDRIA, LOUISIANA
03/08	B. STICKER	
11/09		

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

REVISIONS	DATE	REV. NO.	APPR.	TITLE

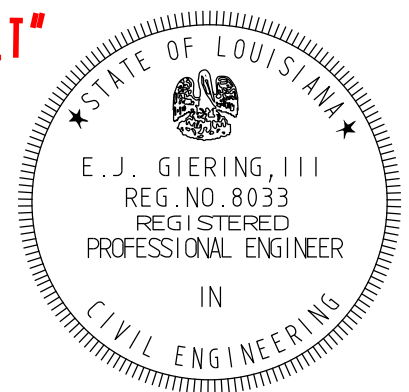
CAD FILENAME  
LA327019.DGN  
PROJECT NO.  
LA327  
SHEET NO. 19 OF 20

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



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: E.J. GIERING, III  
 Title: STATE CONSERVATION ENGINEER  
 Location: ALEXANDRIA, LOUISIANA

Date: 03/08  
 Designed: R. FAULKNER  
 Drawn: D. WILMORE  
 Traced: B. STICKER  
 Checked: B. STICKER

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