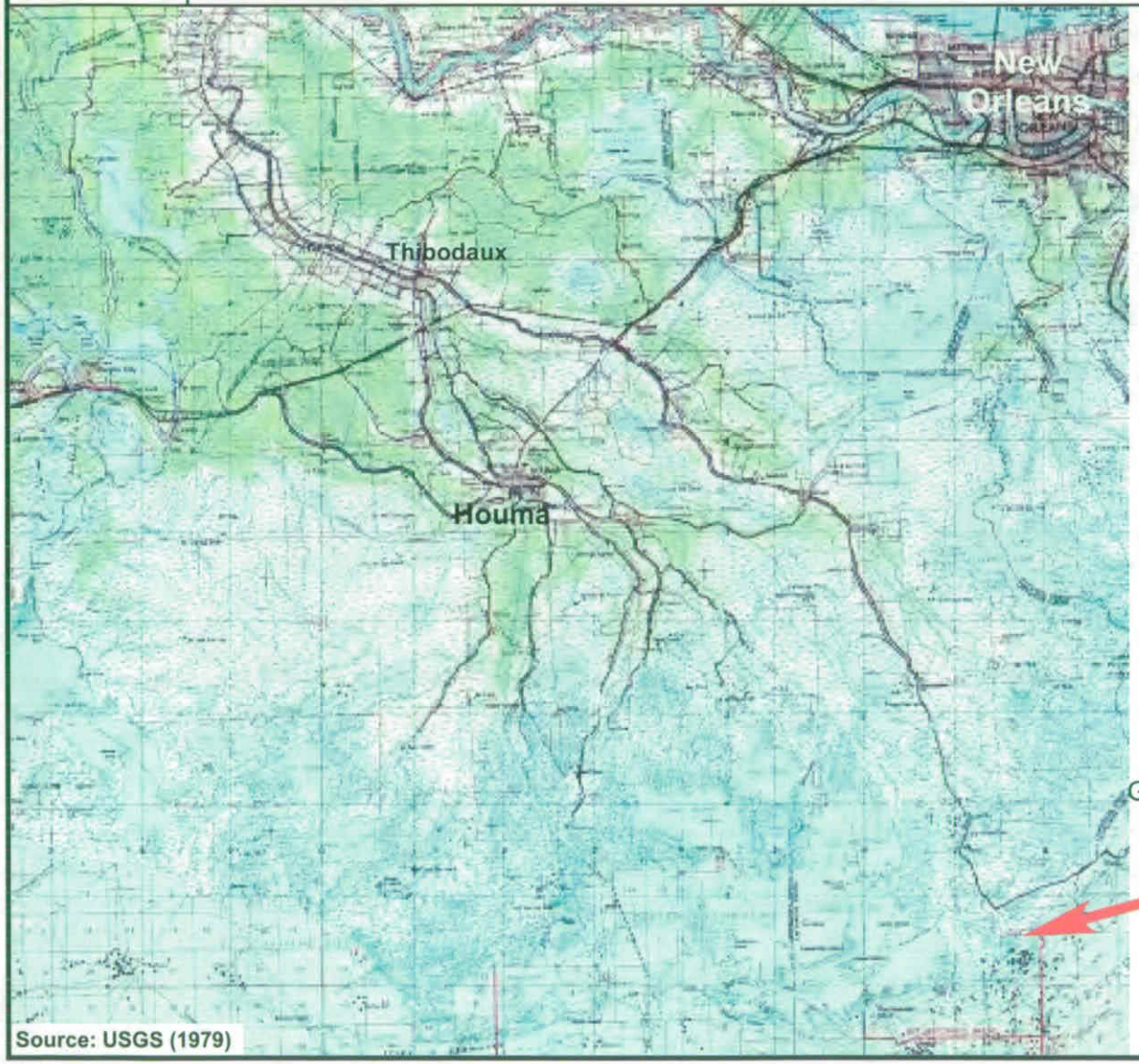
FEDERAL EMERGENCY MANAGEMENT AGENCY

Figure 1: Site Location Map - Fourchon Beach, LA

APPLICANT:	**Greater Lafourche Port Commission**	DATE:	**November 2011**
FIPS NO.:	**057-UPFLP-00**	PW/AI REF. NO.	**7475 / 1662**

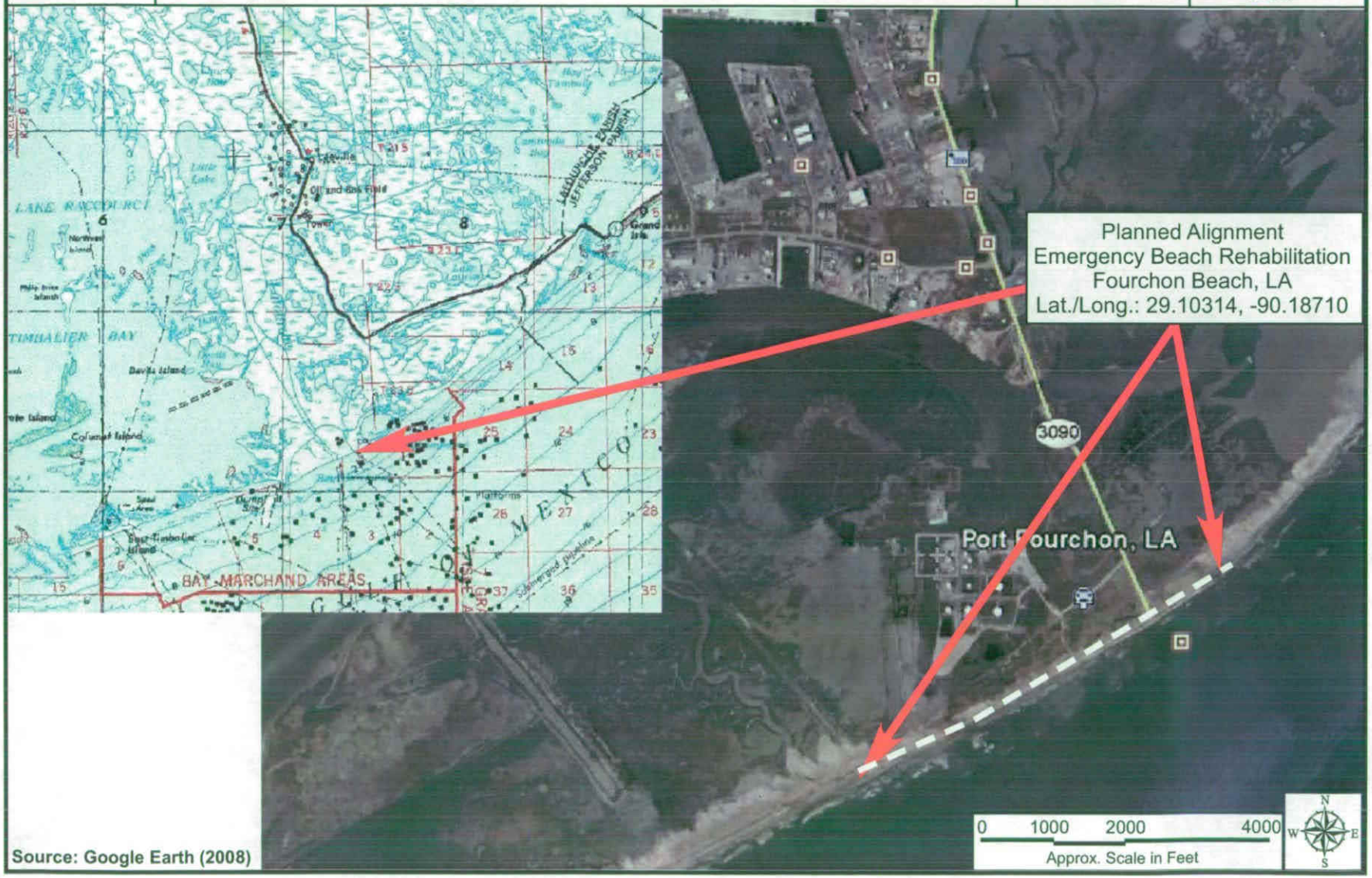


Source: USGS (1979)

FEDERAL EMERGENCY MANAGEMENT AGENCY

Figure 2: Site Map - Fourchon Beach Rehabilitation, Fourchon, LA

APPLICANT:	**Greater Lafourche Port Commission**	DATE:	**November 2011**
FIPS NO.:	**057-UPFLP-00**	PW/AI REF. NO.	**1035**



Source: Google Earth (2008)

GREATER LAFOURCHE PORT COMMISSION

FOURCHON
The Gulf's Energy Connection

EMERGENCY BEACH REHABILITATION
PHASE I

INDEX TO SHEETS:

SHEET NO.	DESCRIPTION:
1	TITLE SHEET
2	STATE AND LOCAL VICINITY MAPS, ESTIMATED QUANTITIES
3	OVERALL SITE PLAN
4	PROJECT DESIGNATION PLAN
5	TYPICAL GEOTUBE SECTIONS AND DETAILS
6-10	PLAN AND CENTERLINE PROFILE-STA. 100+00 TO STA. 155+00
11-16	CROSS SECTIONS-STA. 100+00 TO STA. 155+00

TOTAL NO. OF SHEETS 16

REVISIONS:	
DATE:	REMARKS:

INSPECTION TOWER:
CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT TOWER(S) TO ALLOW FOR INSPECTION OF TRUCKS DURING SAND DELIVERY TO VERIFY SAND QUANTITIES. REFERENCE PROJECT SPECS FOR MORE INFORMATION.

TYPE OF CONSTRUCTION:
EXCAVATION AND EMBANKMENT
SLURRY PUMPING
GEOTUBE REVETMENT

LICENSE REQUIRED:
HEAVY CONSTRUCTION

GENERAL NOTES:

1. VERTICAL AND HORIZONTAL CONTROL BASED ON NAD 83/N.A.V.D. 88 EPOCH 2006.81 DATA.
2. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES 48 HOURS PRIOR TO COMMENCING WORK. 811 (FORMERLY LOUISIANA ONE CALL) SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
3. THE 2006 EDITION OF LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN THIS PROJECT.

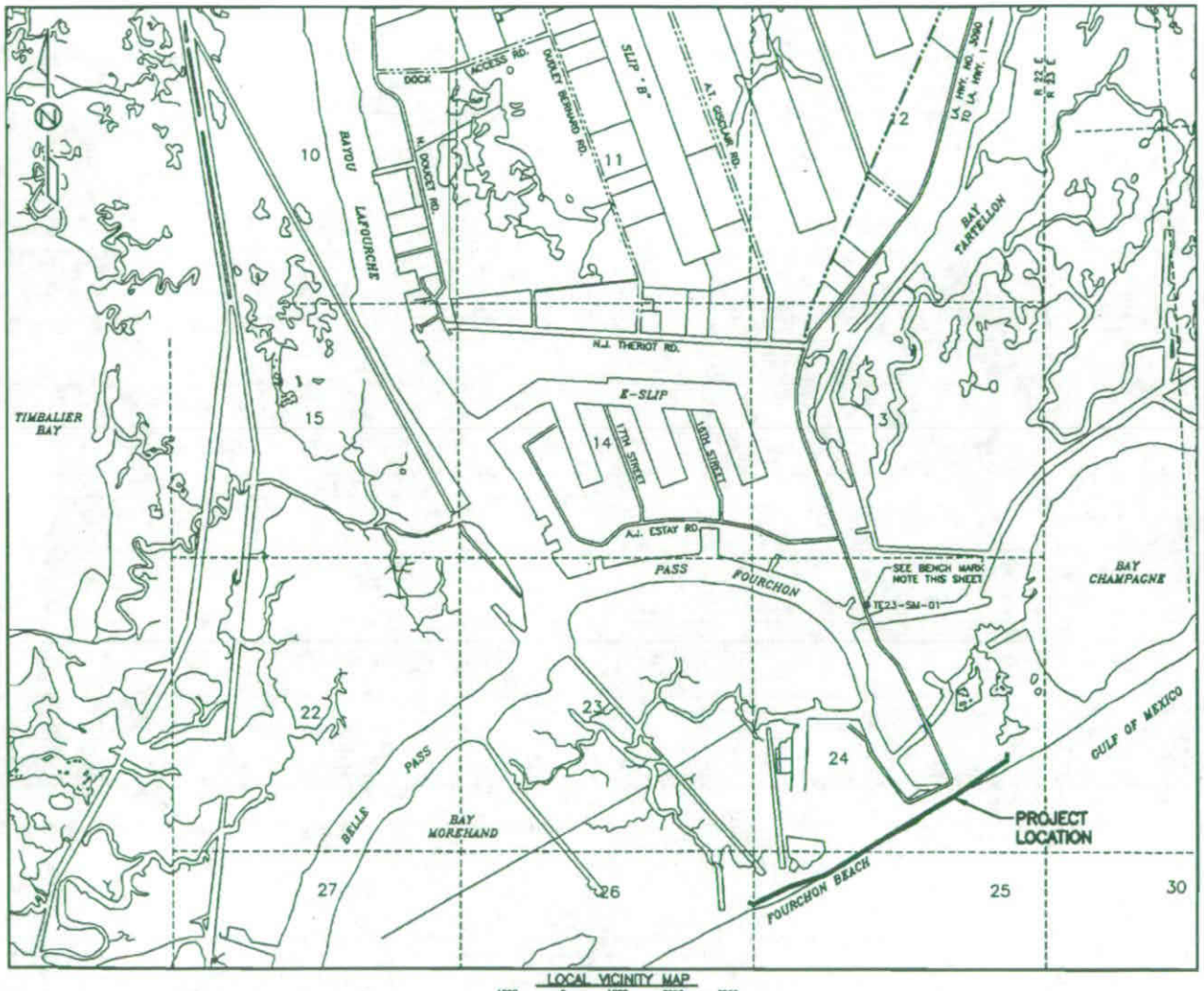
PRELIMINARY

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS
LAND SURVEYORS
NAVAL ARCHITECTS
MARINE ENGINEERS
P.O. BOX. 687
CUT OFF, LOUISIANA 70345
(985) 632-5786

APPROVED BY: _____ DATE: _____
JOSEPH C. PICCIOLA, II, P.E.
CIVIL ENGINEERING
LA. LICENSE NO. 25614

SHEET NO. 1 OF 16 SET NO. ___

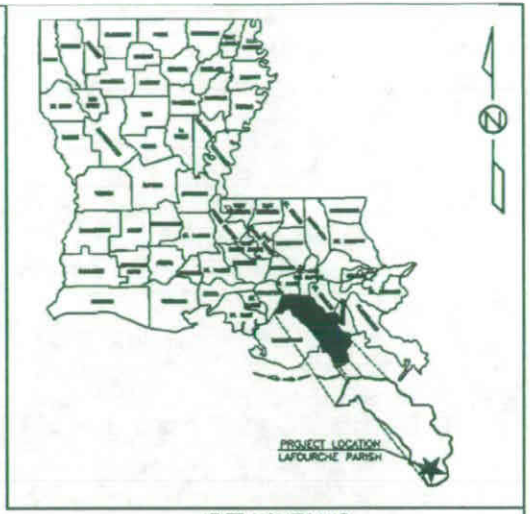
E:\09-DIR\03100902 GLPC - Caminada Beach Restoration\ACAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\01-SHEET_TITLE.dwg, Layout1, 8/4/2011 3:44:27 PM, lee



LOCAL VICINITY MAP

1000 0 1000 2000 3000

SCALE: 1" = 1000'



STATE VICINITY MAP
NOT TO SCALE

SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	1
203-05	EXCAVATION AND EMBANKMENT	LUMP SUM	1
1 723-02	GRANULAR MATERIAL (VEHICULAR MEASUREMENT)	CU. YD.	137,000
727-01	MOBILIZATION	LUMP SUM	1
740-01	CONSTRUCTION LAYOUT	LUMP SUM	1
2 S-001	GEOTUBE CONTAINER, SCOUR APRON & ANCHOR TUBES (INCLUDING SAND FILL)	LIN. FT.	5,500

QUANTITY NOTES:

1 QUANTITY REFLECTS APPROXIMATE VOLUME OF GRANULAR MATERIAL REQUIRED TO ACHIEVE DESIGN GRADE FOR BEACH FILL.

2 QUANTITY INCLUDES PURCHASING, PLACEMENT, SAND FILL, FILLING PROCESS, AND DE-WATERING OF GEOTUBE CONTAINERS, ANCHOR TUBES, AND SCOUR APRON AS PER MANUFACTURER SPECIFICATIONS. (QUANTITY DOES NOT REFLECT THE 5' MINIMUM LAP OF THE SCOUR APRON)

BENCH MARKS:

VERTICAL AND HORIZONTAL CONTROL BASED ON NAD 83/NAVD 88 EPOCH 2006.81. PRIMARY MONUMENT USED: "TE23-SM-01"; X=1,845,888.88, Y=224,284.36, +7.8 NAVD.

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL BURIED OIL/GAS PIPELINES AND UTILITY LINES PRIOR TO ANY DIGGING. 811 (LOUISIANA ONE CALL) SHALL BE CONTACTED PRIOR TO COMMENCING WORK.

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:		STAMP:
DATE:	REMARKS:	

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 687
GOLDEN MEADOW, LOUISIANA 70357
(985) 632-5788

DESIGNED BY:	DRAWN BY:	CHECKED BY:
J.C.P.	L.J.C.	M.V.C.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

STATE AND LOCAL VICINITY MAPS, SUMMARY OF ESTIMATED QUANTITIES

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 2 OF 16

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GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL BURIED OIL/GAS PIPELINES AND UTILITY LINES PRIOR TO ANY DIGGING. 811 (LOUISIANA ONE CALL) SHALL BE CONTACTED PRIOR TO COMMENCING WORK.

2. CONTRACTOR SHALL UTILIZE SLURRY TANK TO FILL GEOTUBE CONTAINERS WITH WATER FROM THE GULF OF MEXICO AND OFFSITE SAND TO SPECIFIED HEIGHT, WIDTH, AND LENGTH (REFERENCE TYPICAL SECTIONS SHEET 5 OF 16).

3. CONTRACTOR SHALL FILL AND DE-WATER GEOTUBE CONTAINERS AS PER MANUFACTURER SPECIFICATIONS.

4. GEOTUBE CONTAINERS SHALL BE TENCATE GT1000N OR APPROVED EQUAL. CONTRACTOR SHALL PLACE GEOTUBES IN ±300' SEGMENTS FOR THE ENTIRE LENGTH OF THE ALIGNMENT SHOWN ON THIS SHEET.

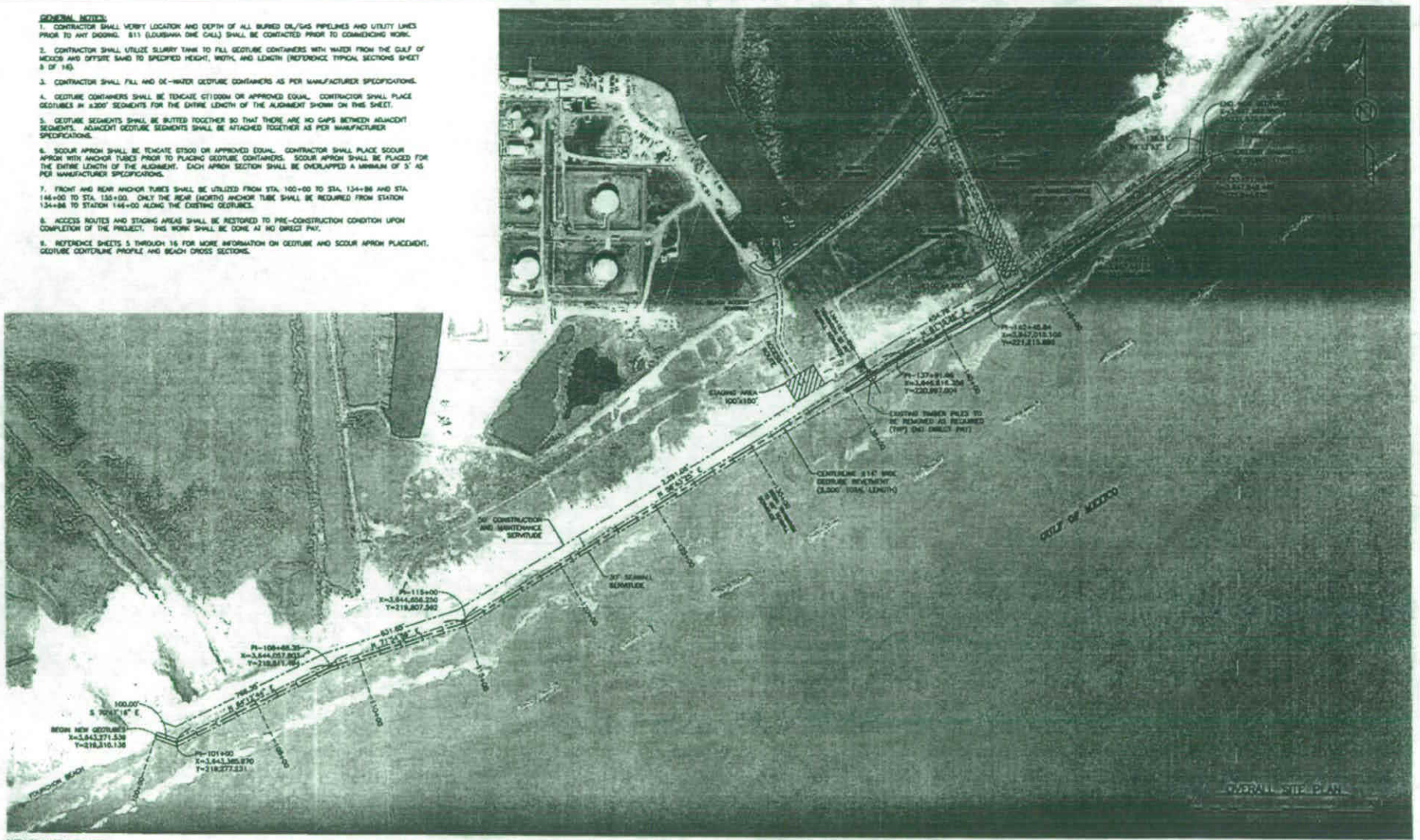
5. GEOTUBE SEGMENTS SHALL BE BUTTED TOGETHER SO THAT THERE ARE NO GAPS BETWEEN ADJACENT SEGMENTS. ADJACENT GEOTUBE SEGMENTS SHALL BE ATTACHED TOGETHER AS PER MANUFACTURER SPECIFICATIONS.

6. SCOUR APRON SHALL BE TENCATE ST500 OR APPROVED EQUAL. CONTRACTOR SHALL PLACE SCOUR APRON WITH ANCHOR TUBES PRIOR TO PLACING GEOTUBE CONTAINERS. SCOUR APRON SHALL BE PLACED FOR THE ENTIRE LENGTH OF THE ALIGNMENT. EACH APRON SECTION SHALL BE OVERLAPPED A MINIMUM OF 5' AS PER MANUFACTURER SPECIFICATIONS.

7. FRONT AND REAR ANCHOR TUBES SHALL BE UTILIZED FROM STA. 100+00 TO STA. 134+86 AND STA. 146+00 TO STA. 155+00. ONLY THE REAR (NORTH) ANCHOR TUBE SHALL BE REQUIRED FROM STATION 134+86 TO STATION 146+00 ALONG THE EXISTING GEOTUBES.

8. ACCESS ROUTES AND STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE DONE AT NO DIRECT PAY.

9. REFERENCE SHEETS 5 THROUGH 16 FOR MORE INFORMATION ON GEOTUBE AND SCOUR APRON PLACEMENT, GEOTUBE CENTERLINE PROFILE AND BEACH CROSS SECTIONS.



SATELLITE IMAGE DATE: 2008

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

LA. 6319-0900

REVISIONS:	
DATE:	REMARKS:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS AND LAND SURVEYORS — MARINE ARCHITECTS — MARINE ENGINEERS
P.O. BOX 857
CUT OFF, LOUISIANA 70345
(985) 632-5785

DESIGNED BY:	DRAWN BY:	CHECKED BY:
J.C.P.	L.J.C.	M.V.C.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

OVERALL SITE PLAN

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 3 OF 16

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SATELLITE IMAGE DATE: 2008

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:	
DATE	REMARKS

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 847
CUT OFF, LOUISIANA 70345
(985) 632-3766

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.C.P.	L.J.S.	M.V.G.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

PROJECT DESIGNATION PLAN

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 4 OF 16

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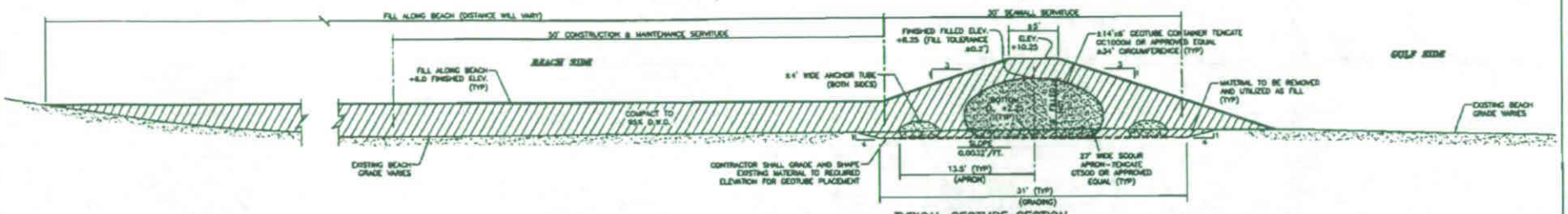
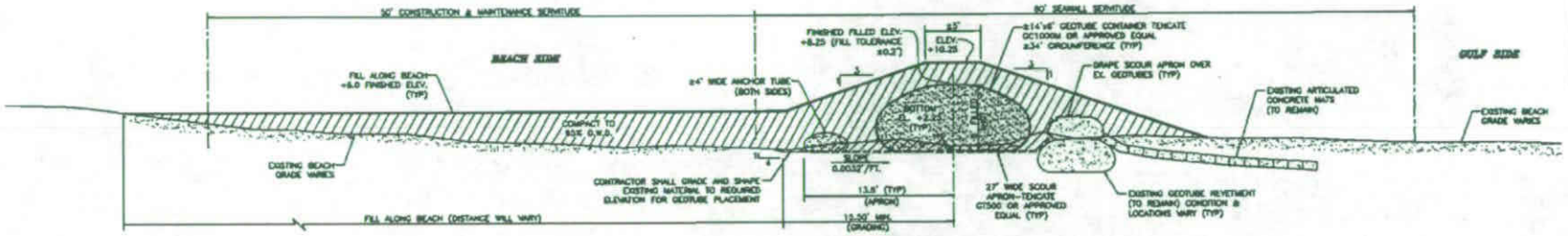
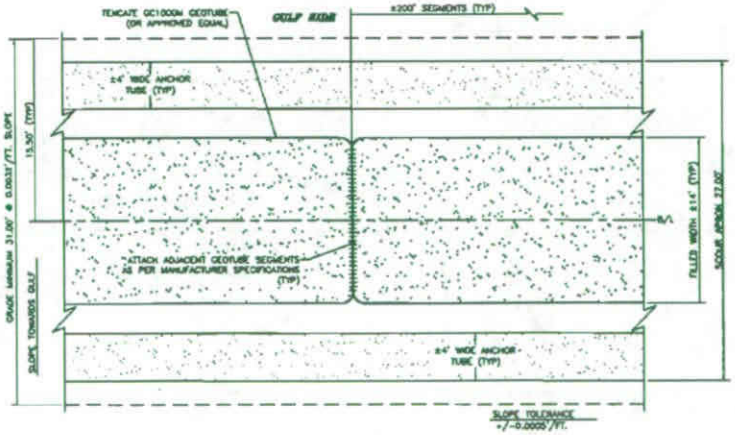


TYPICAL GEOTUBE SECTION
SCALE: 1" = 5'-0"



TYPICAL GEOTUBE SECTION (ALONG EX. GEOTUBES)
SCALE: 1" = 5'-0"



TYPICAL GEOTUBE PLACEMENT—PLAN VIEW
SCALE: 1" = 5'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL BURIED OIL/GAS PIPELINES AND UTILITY LINES PRIOR TO ANY DIGGING. 811 (LOUISIANA ONE CALL) SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL UTILIZE SLURRY TANK TO FILL GEOTUBE CONTAINERS WITH WATER FROM THE GULF OF MEXICO AND OFFSITE SAND TO SPECIFIED HEIGHT, WIDTH, AND LENGTH.
3. CONTRACTOR SHALL FILL AND DE-WATER GEOTUBE CONTAINERS AS PER MANUFACTURER SPECIFICATIONS.
4. GEOTUBE CONTAINERS SHALL BE TENCATE GT1000M OR APPROVED EQUAL. CONTRACTOR SHALL PLACE GEOTUBES IN ±200' SEGMENTS FOR THE ENTIRE LENGTH OF THE ALIGNMENT SHOWN ON SHEET 3 OF 18.
5. GEOTUBE SEGMENTS SHALL BE BUTTED TOGETHER SO THAT THERE ARE NO GAPS BETWEEN ADJACENT SEGMENTS. ADJACENT GEOTUBE SEGMENTS SHALL BE ATTACHED TOGETHER AS PER MANUFACTURER SPECIFICATIONS.
6. SCOUR APRON SHALL BE TENCATE GT500 OR APPROVED EQUAL. CONTRACTOR SHALL PLACE SCOUR APRON WITH ANCHOR TUBES PRIOR TO PLACING GEOTUBE CONTAINERS. SCOUR APRON SHALL BE PLACED FOR THE ENTIRE LENGTH OF THE ALIGNMENT. EACH APRON SECTION SHALL BE OVERLAPPED A MINIMUM OF 5' AS PER MANUFACTURER SPECIFICATIONS.
7. FRONT AND REAR ANCHOR TUBES SHALL BE UTILIZED FROM STA. 100+00 TO STA. 134+86 AND STA. 146+00 TO STA. 150+00. ONLY THE REAR (NORTH) ANCHOR TUBE SHALL BE REQUIRED FROM STATION 134+86 TO STATION 146+00 ALONG THE EXISTING GEOTUBES.
8. ACCESS ROUTES AND STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE DONE AT NO DIRECT PAY.
9. REFERENCE SHEETS 6 THROUGH 18 FOR CENTERLINE PROFILE AND BEACH CROSS SECTIONS.

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE:	REMARK:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — LAND SURVEYORS — NAVAL ARCHITECTS — MARINE ENGINEERS
P.O. BOX 487
GIBSON, LOUISIANA 70346
(985) 633-0756

DESIGNED BY: J.C.P. | DRAWN BY: L.L.G. | CHECKED BY: M.V.C.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

TYPICAL GEOTUBE SECTIONS AND PLAN VIEW

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 5 OF 18

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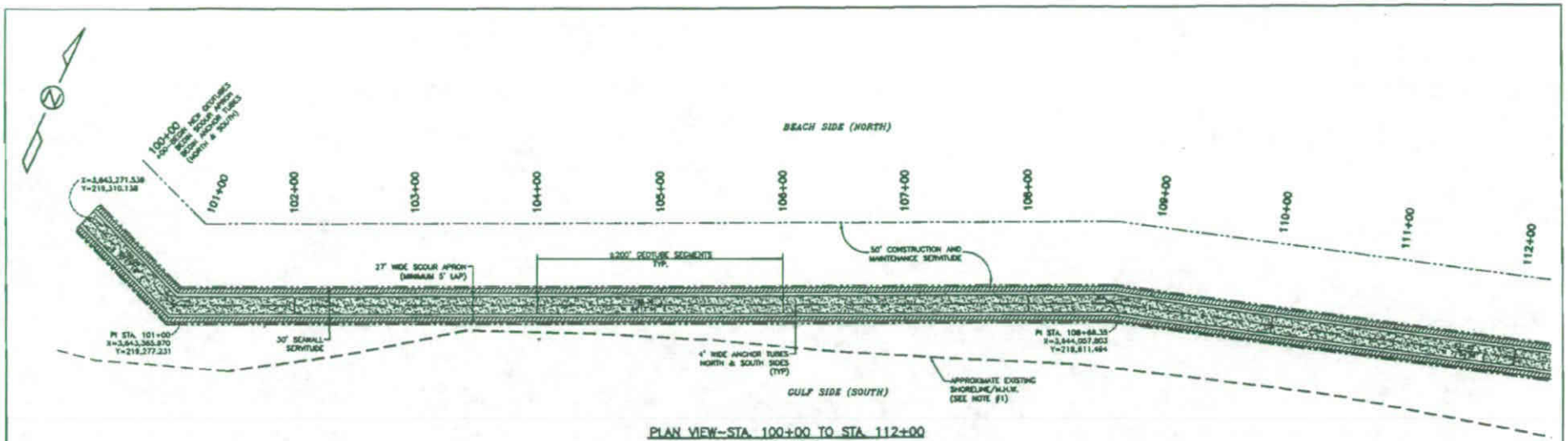
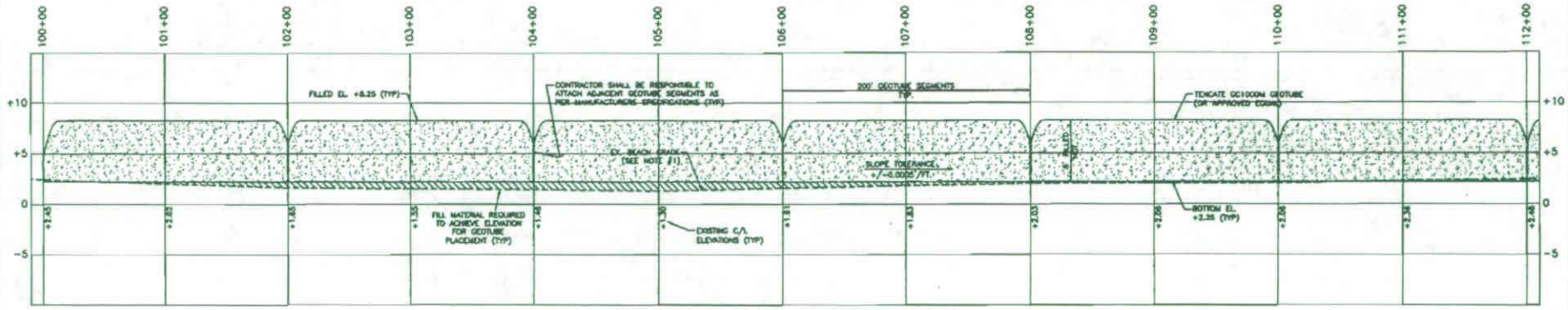


PLAN VIEW–STA. 100+00 TO STA. 112+00

SCALE: 1" = 40'-0"



CENTERLINE PROFILE–STA. 100+00 TO STA. 112+00

SCALE: HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"

PRELIMINARY

NOTES:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:		STAMP:	PICCIOLA & ASSOCIATES, INC.	DATE: MARCH 24, 2010	GREATER LAFOURCHE PORT COMMISSION	SHEET NO.
DATE:	REMARKS:		CIVIL ENGINEERS LAND SURVEYORS NAVAL ARCHITECTS MARINE ENGINEERS P.O. BOX 687 GULF OUT, LOUISIANA 70345 (985) 532-0786	SCALE: AS SHOWN	EMERGENCY BEACH REHABILITATION–PHASE I PLAN VIEW AND CENTER LINE PROFILE STA. 100+00 TO STA. 112+00	6 of 16
			DESIGNED BY: A.C.P. DRAWN BY: L.J.G. CHECKED BY: M.V.G.		PORT FOURCHON, LA. LAFOURCHE PARISH	

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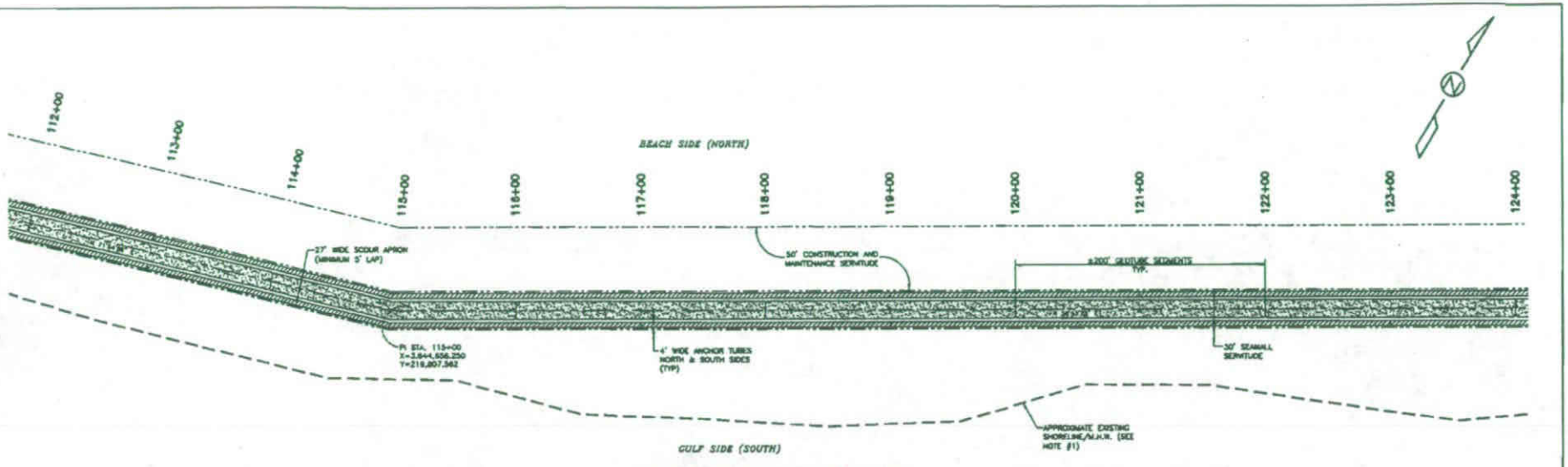
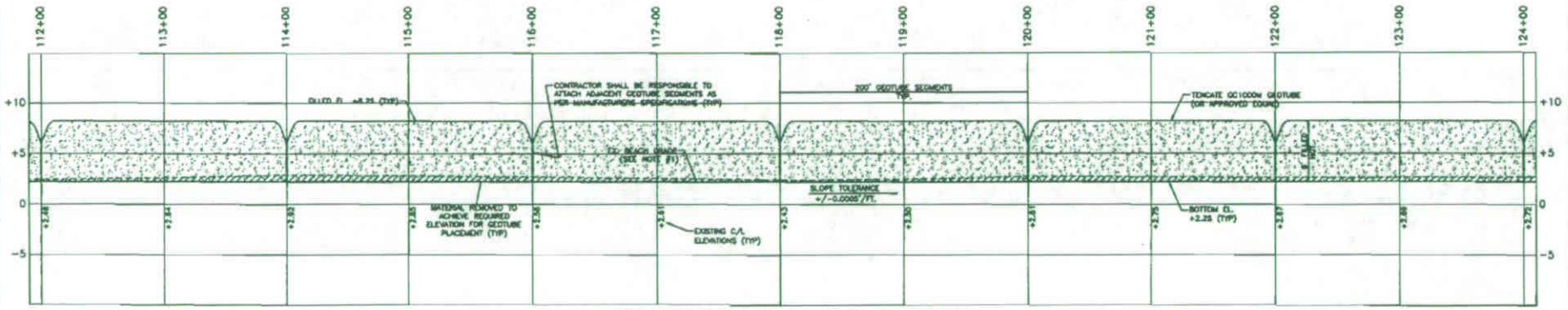


PLAN VIEW–STA. 112+00 TO STA. 124+00

SCALE: 1" = 40'-0"



CENTERLINE PROFILE–STA. 112+00 TO STA. 124+00

SCALE: HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"

NOTES:

1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:		STAMP:	PICCIOLA & ASSOCIATES, INC.	DATE:	GREATER LAFOURCHE PORT COMMISSION	SHEET NO.
DATE:	REMARKS:		CIVIL ENGINEERS / LAND SURVEYORS; NAVAL ARCHITECTS / MARINE ENGINEERS; P.O. BOX 867, GOLDEN MEADOW, LOUISIANA 70357, (985) 632-0786	MARCH 24, 2010	EMERGENCY BEACH REHABILITATION–PHASE I	7 of 16
			DESIGNED BY: J.C.P. / DRAWN BY: L.J.G. / CHECKED BY: M.V.G.	SCALE: AS SHOWN	PLAN VIEW AND CENTER LINE PROFILE STA. 112+00 TO STA. 124+00	
					PORT FOURCHON, LA. LAFOURCHE PARISH	

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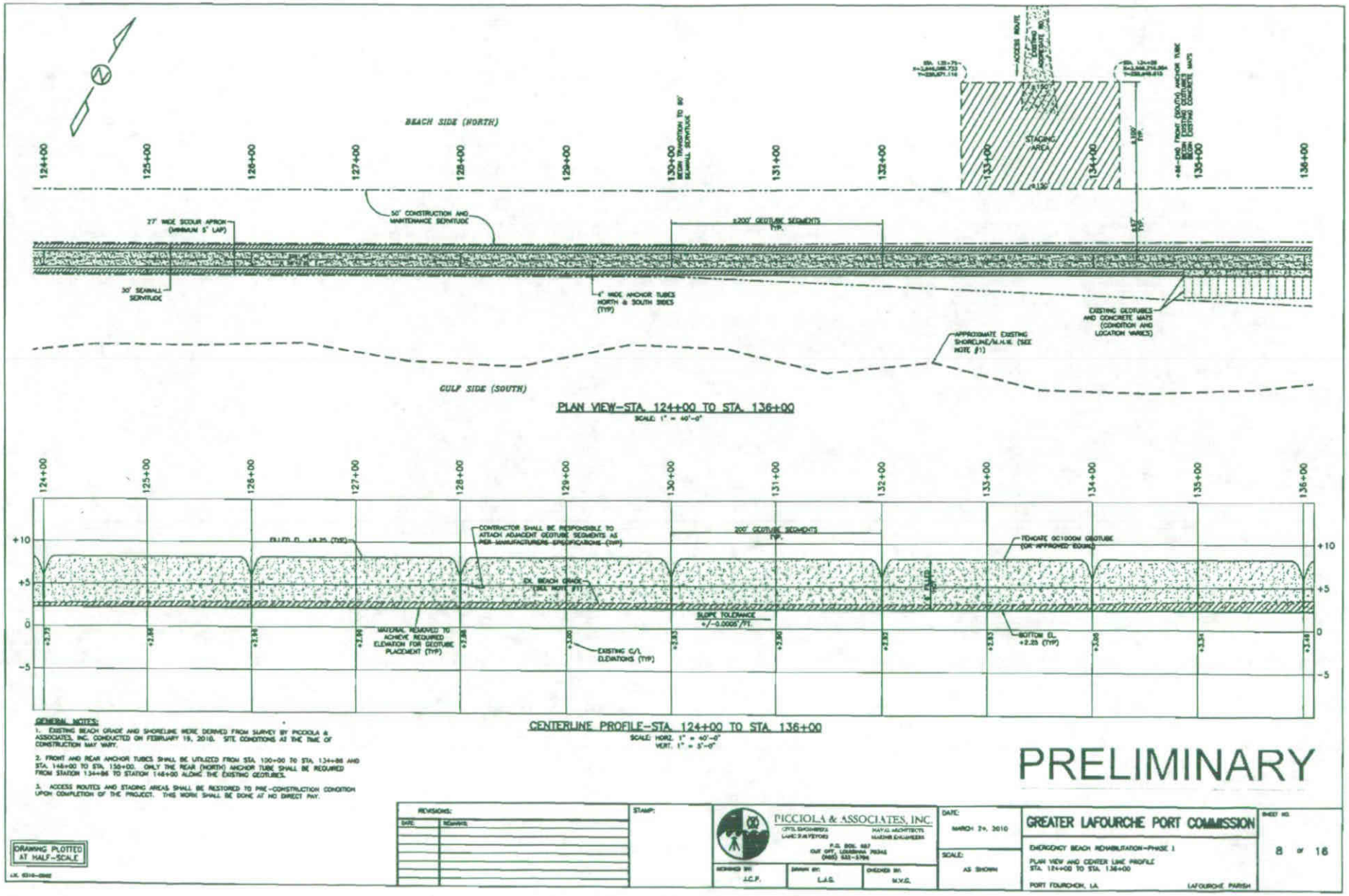

PLAN VIEW–STA. 124+00 TO STA. 136+00
SCALE: 1" = 40'-0"

CENTERLINE PROFILE–STA. 124+00 TO STA. 136+00
SCALE: HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"

GENERAL NOTES:

1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.
2. FRONT AND REAR ANCHOR TUBES SHALL BE UTILIZED FROM STA. 130+00 TO STA. 134+86 AND STA. 148+00 TO STA. 150+00. ONLY THE REAR (NORTH) ANCHOR TUBE SHALL BE REQUIRED FROM STATION 134+86 TO STATION 146+00 ALONG THE EXISTING GEOTUBES.
3. ACCESS ROUTES AND STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE DONE AT NO DIRECT PAY.

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:		STAMP:
DATE:	REMARKS:	

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 867
CUT OFF, LOUISIANA 70345
(985) 632-3704

DESIGNED BY: J.C.F. | DRAWN BY: L.A.S. | CHECKED BY: M.V.C.

DATE: MARCH 24, 2010
SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION
EMERGENCY BEACH REHABILITATION–PHASE 1
PLAN VIEW AND CENTER LINE PROFILE
STA. 124+00 TO STA. 136+00
PORT FOURCHON, LA. — LAFOURCHE PARISH

SHEET NO. 8 OF 16

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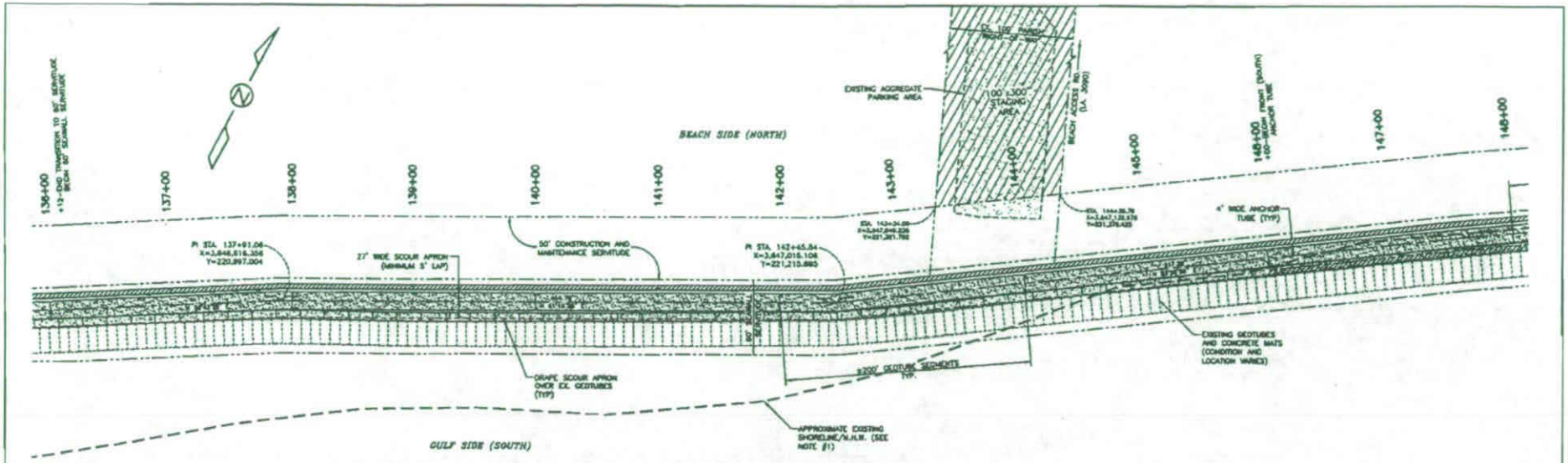
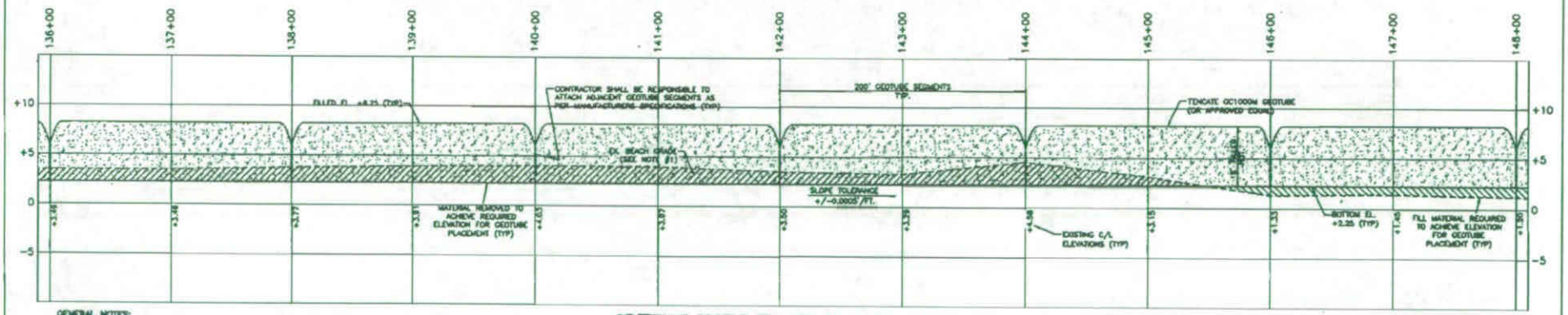


PLAN VIEW–STA. 136+00 TO STA. 148+00

SCALE: 1" = 40'-0"



CENTERLINE PROFILE–STA. 136+00 TO STA. 148+00

SCALE: HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"

GENERAL NOTES:

1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.
2. FRONT AND REAR ANCHOR TUBES SHALL BE UTILIZED FROM STA. 100+00 TO STA. 134+86 AND STA. 146+00 TO STA. 155+00. ONLY THE REAR (NORTH) ANCHOR TUBE SHALL BE REQUIRED FROM STATION 134+86 TO STATION 146+00 ALONG THE EXISTING GEOTUBES.
3. ACCESS ROUTES AND STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE DONE AT NO DIRECT PAY.

PRELIMINARY

ORAWING PLOTTED AT HALF-SCALE

REVISIONS:	
DATE:	REMARKS:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS · NAVAL ARCHITECTS · LAND SURVEYORS · MARINE ENGINEERS
P.O. BOX 467
CUT OFF, LOUISIANA 70345
(985) 632-5788

DESIGNED BY: J.C.P. | DRAWN BY: L.J.E. | CHECKED BY: M.V.C.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

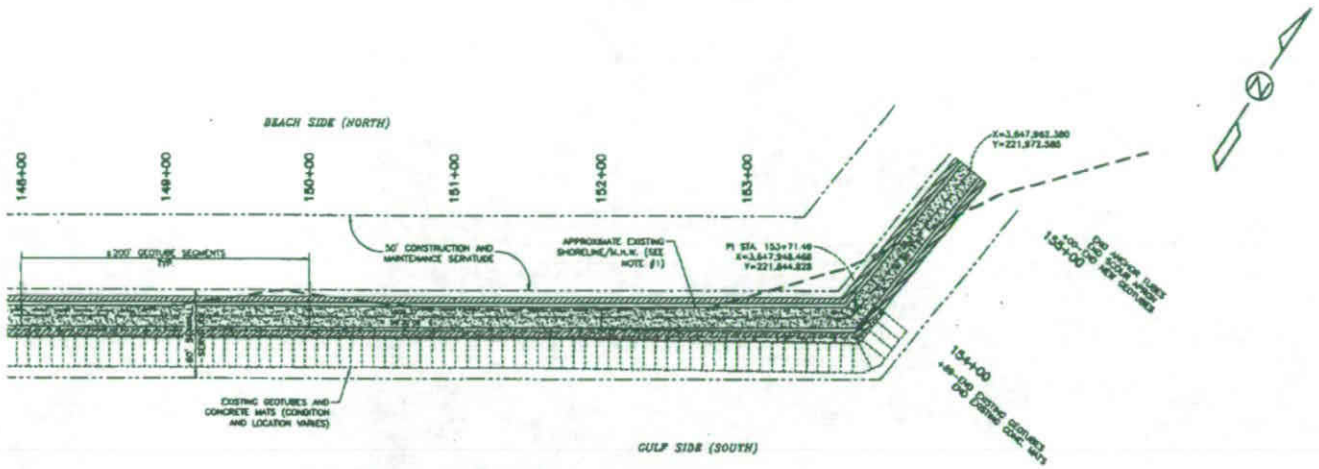
EMERGENCY BEACH REHABILITATION–PHASE 1

PLAN VIEW AND CENTER LINE PROFILE
STA. 136+00 TO STA. 148+00

PORT FOURCHON, LA. LAFOURCHE PARISH

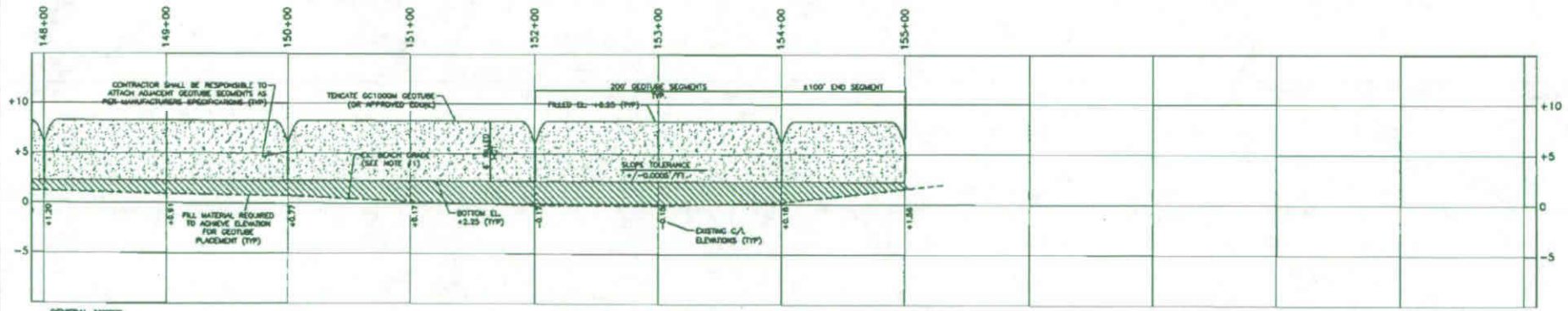
SHEET NO. 9 of 16

E:\09-DIR\03100902 GLPC - Caminada Beach Restoration\ACAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\06-10-SHT_PLAN PROFILES.dwg, 09-SHT, 8/4/2011 3:49:14 PM, lee



PLAN VIEW–STA. 148+00 TO STA. 155+00

SCALE: 1" = 40'-0"



CENTERLINE PROFILE–STA. 148+00 TO STA. 155+00

SCALE: HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"

GENERAL NOTES:

1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.
2. FRONT AND REAR ANCHOR TUBES SHALL BE UTILIZED FROM STA. 100+00 TO STA. 134+86 AND STA. 148+00 TO STA. 155+00. ONLY THE REAR (NORTH) ANCHOR TUBE SHALL BE REQUIRED FROM STATION 134+86 TO STATION 148+00 ALONG THE EXISTING GEOTUBES.
3. ACCESS ROUTES AND STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE DONE AT NO DIRECT PAY.

PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:		STAMP:	PICCIOLA & ASSOCIATES, INC.	DATE: MARCH 24, 2010	GREATER LAFOURCHE PORT COMMISSION	SHEET NO. 10 OF 16
DATE	REMARKS		CIVIL ENGINEERS, NAVAL ARCHITECTS, LAND SURVEYORS, MARINE ENGINEERS	SCALE: AS SHOWN	EMERGENCY BEACH REHABILITATION–PHASE I	
			P.O. BOX 867, GOLDEN MEADOW, LOUISIANA 70357 (985) 532-3786		PLAN VIEW AND CENTER LINE PROFILE STA. 148+00 TO STA. 155+00	
			DESIGNED BY: J.C.P. / DRAWN BY: L.J.G. / CHECKED BY: M.V.C.		PORT FOURCHON, LA. LAFOURCHE PARISH	

J.N. 9310-0800

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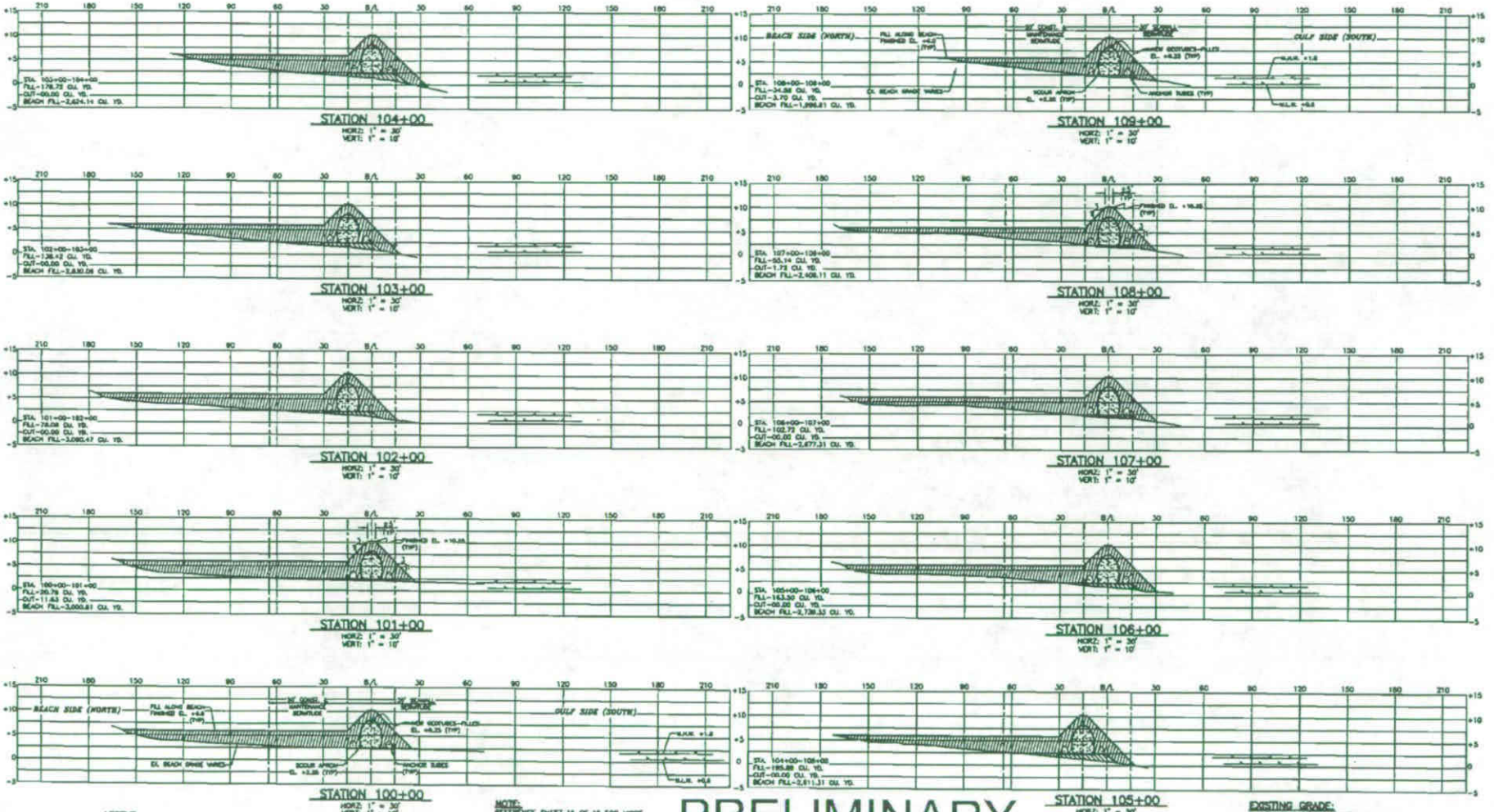

LEGEND:

- FROSS SECTIONS DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010
- NEW GEOTUBE CONTAINERS
- SCOUR APRON WITH ANCHOR TUBES
- APPROX. MATERIAL TO BE REMOVED AND UTILIZED AS FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 5 OF 16)
- APPROX. FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 5 OF 16)
- APPROX. FILL ALONG BEACH

NOTE:
REFERENCE SHEET 15 OF 16 FOR MORE INFORMATION ON CUT AND FILL VOLUMES SHOWN.

PRELIMINARY

EXISTING GRADE:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE:	REMARKS:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS · NAVAL ARCHITECTS
LAND SURVEYORS · MARINE ENGINEERS
P.O. BOX 867
CUT OFF, LOUISIANA 70346
(985) 532-5788

DESIGNED BY:	DRAWN BY:	CHECKED BY:
J.C.P.	L.J.G.	M.V.G.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION–PHASE I

BEACH CROSS SECTIONS– STA. 100+00 TO STA. 109+00

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 11 of 16

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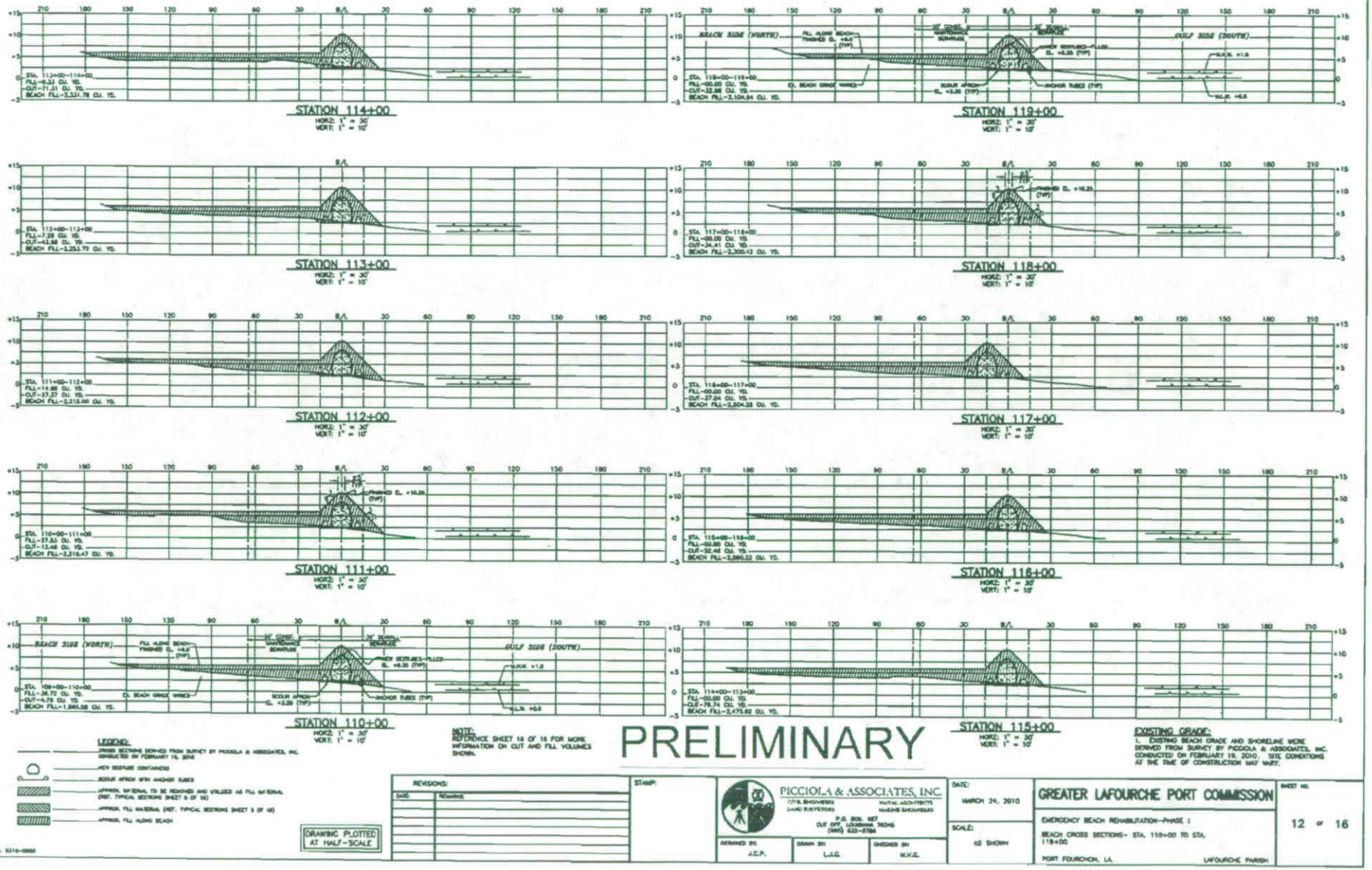


PRELIMINARY

NOTE:
REFERENCE SHEET 16 OF 16 FOR MORE INFORMATION ON CUT AND FILL VOLUMES SHOWN.

EXISTING GRADE:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

LEGEND:

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE	REMARKS

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — MARINE ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 487
CUT OFF, LOUISIANA 70345
(985) 632-5788

DESIGNED BY: J.C.P.
DRAWN BY: L.J.G.
CHECKED BY: M.V.E.

DATE: MARCH 24, 2010
SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

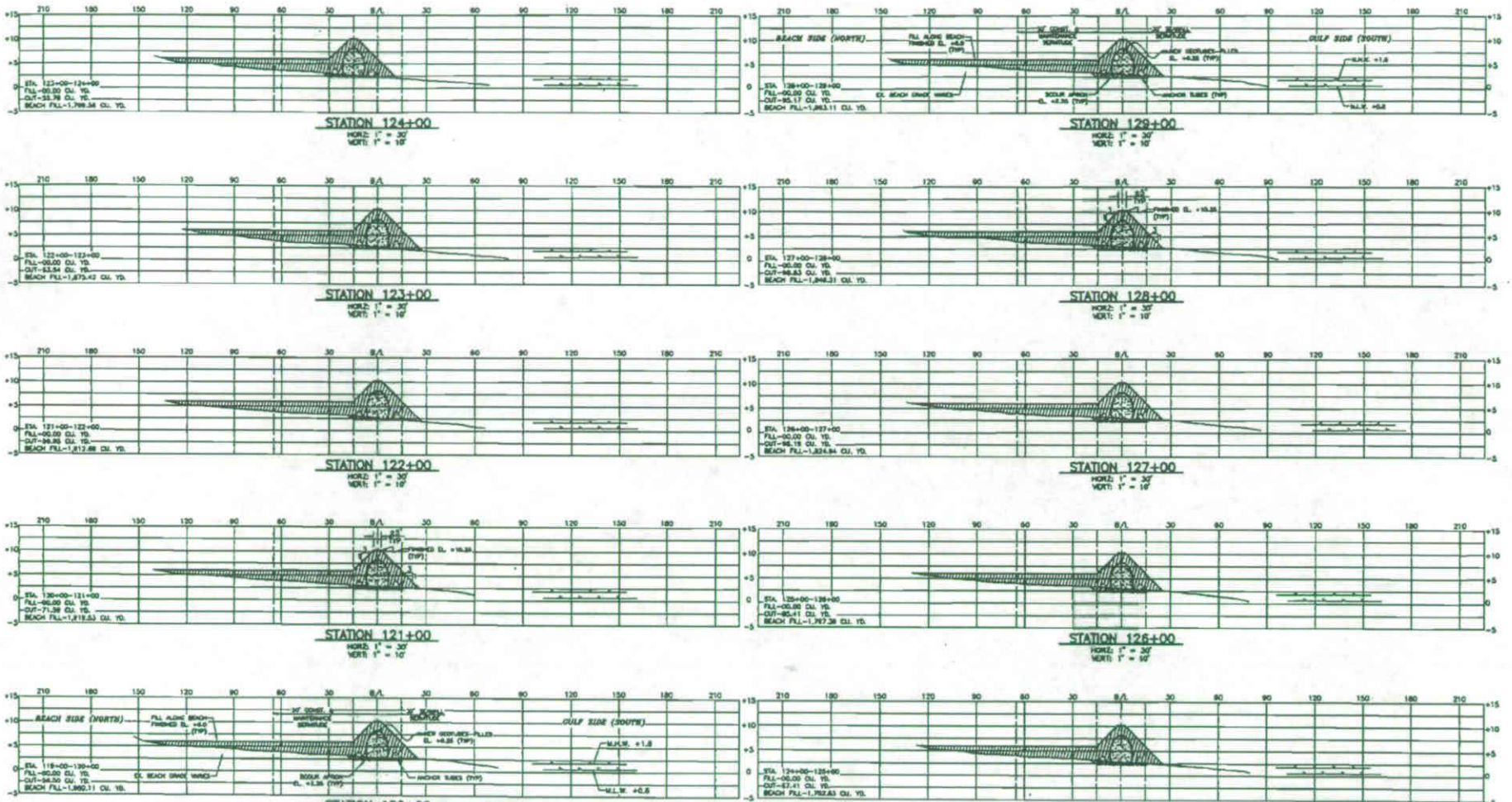
EMERGENCY BEACH REHABILITATION—PHASE I

BEACH CROSS SECTIONS- STA. 110+00 TO STA. 118+00

PORT FOURCHON, LA. LAFOURCHE PARISH

SHEET NO. 12 OF 16

E:\09-DIR\03100902 GLPC - Caminada Beach Restoration\ACAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\11-16-SHT_CROSS SECTIONS.dwg, Model, 8/4/2011 3:50:34 PM, lac



LEGEND:

- CROSS SECTIONS DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010
- NEW GEOTUBE CONTAINERS
- SCOUR APRON WITH ANCHOR TUBES
- APPROX. MATERIAL TO BE REMOVED AND UTILIZED AS FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 8 OF 16)
- APPROX. FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 8 OF 16)
- APPROX. FILL ALONG BEACH

NOTE:
REFERENCE SHEET 16 OF 16 FOR MORE INFORMATION ON CUT AND FILL VOLUMES SHOWN.

PRELIMINARY

EXISTING GRADE:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE:	REMARKS:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 687
CUT OFF, LOUISIANA 70346
(985) 632-5796

DESIGNED BY: J.C.P. | DRAWN BY: L.J.G. | CHECKED BY: M.V.G.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

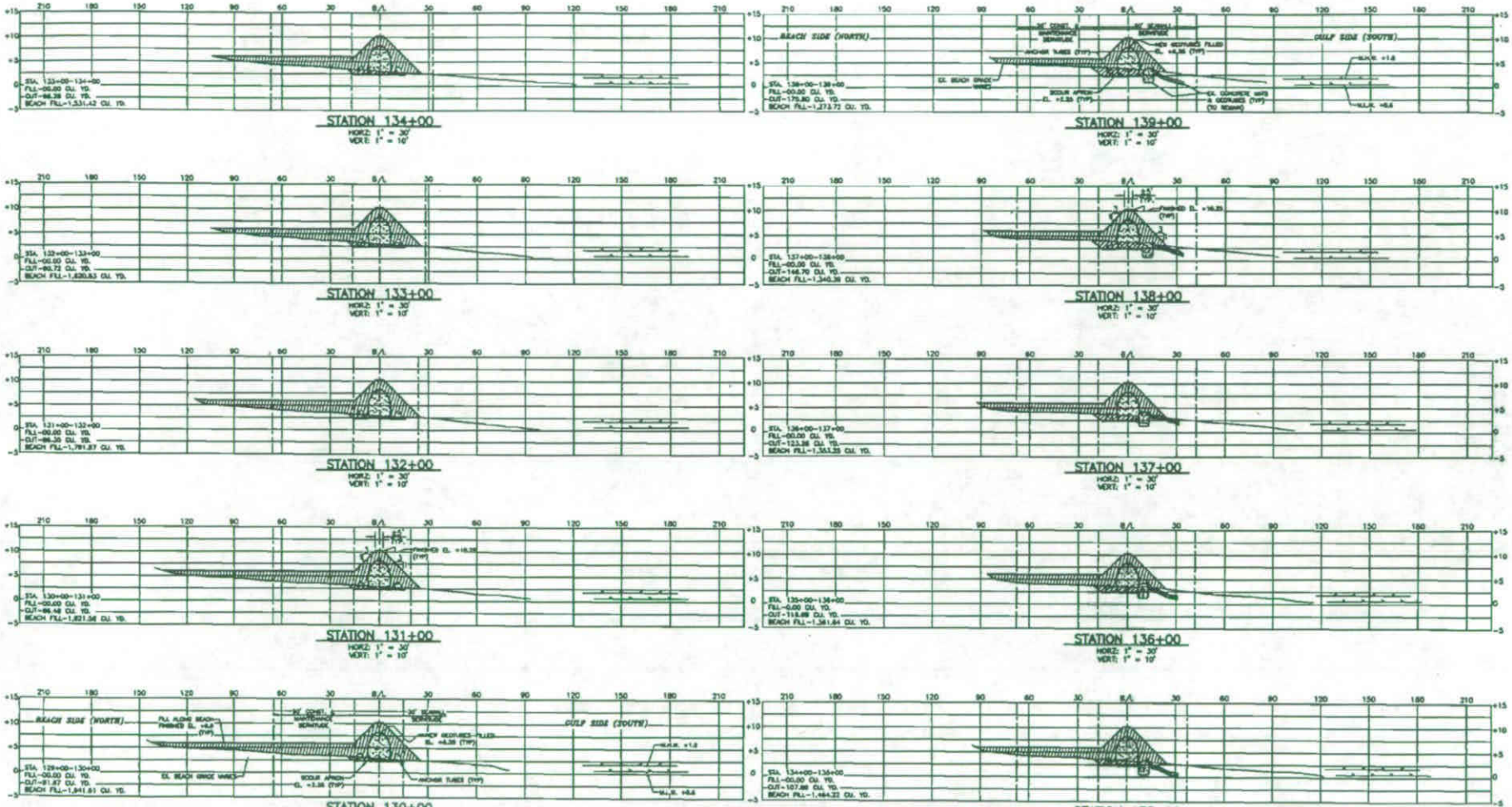
EMERGENCY BEACH REHABILITATION-PHASE I

BEACH CROSS SECTIONS- STA. 120+00 TO STA. 129+00

PORT FOURCHON, LA. — LAFOURCHE PARISH

SHEET NO. 13 OF 16

E:\09-DIR\03100902 GLPC - Caminada Beach Restoration\ACAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\11-16-SHT_CROSS SECTIONS.dwg, Model, 8/4/2011 3:50:47 PM, lee



LEGEND:

NOTE:
REFERENCE SHEET 16 OF 16 FOR MORE INFORMATION ON CUT AND FILL VOLUMES SHOWN.

PRELIMINARY

EXISTING GRADE:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE	REMARKS

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 667
CUT OFF, LOUISIANA 70345
(985) 632-5740

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.C.P.	L.J.S.	K.W.G.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

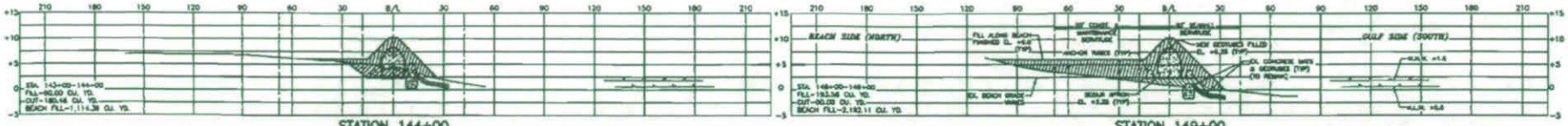
EMERGENCY BEACH REHABILITATION—PHASE I

BEACH CROSS SECTIONS— STA. 130+00 TO STA. 139+00

PORT FOURCHON, LA. LAFOURCHE PARISH

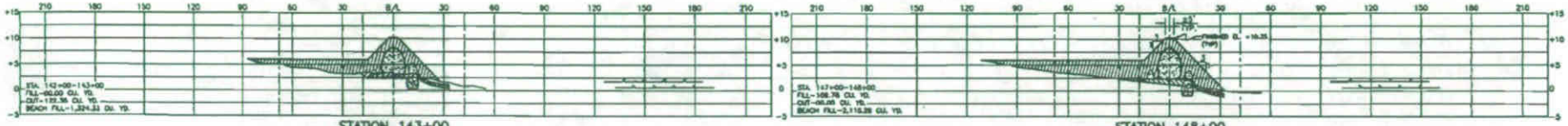
SHEET NO. 14 OF 16

E:\09-DIR\03100902 GLPC - Caminada Beach Restoration\ACAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\11-16-SHT_CROSS SECTIONS.dwg, Model, 8/4/2011 3:52:35 PM, kee



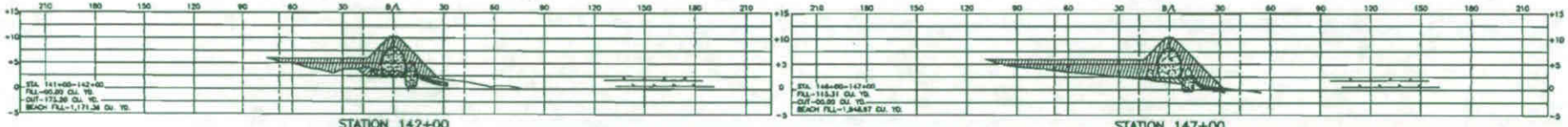
STATION 144+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 149+00
HORZ: 1" = 30'
VERT: 1" = 10'



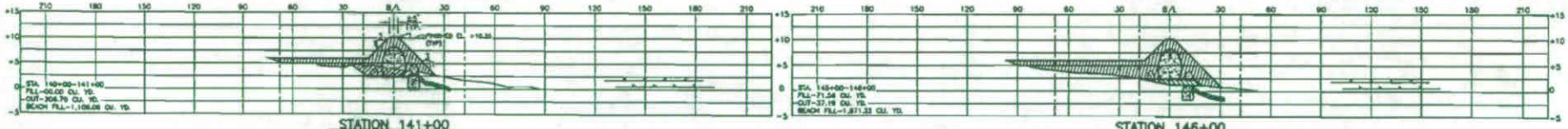
STATION 143+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 148+00
HORZ: 1" = 30'
VERT: 1" = 10'



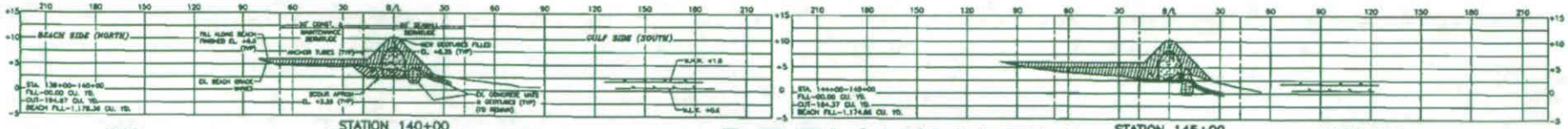
STATION 142+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 147+00
HORZ: 1" = 30'
VERT: 1" = 10'



STATION 141+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 146+00
HORZ: 1" = 30'
VERT: 1" = 10'



STATION 140+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 145+00
HORZ: 1" = 30'
VERT: 1" = 10'

LEGEND:
- CROSS SECTIONS DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010
- APPROXIMATE EXISTING REVETMENT & CONCRETE MATS
- NEW GEOTUBE CONTAINERS
- SCOUR APRON WITH ANCHOR TUBES
- APPROX. MATERIAL TO BE REMOVED AND UTILIZED AS FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 5 OF 16)
- APPROX. FILL MATERIAL (REF. TYPICAL SECTIONS SHEET 5 OF 16)
- APPROX. FILL ALONG BEACH

NOTE:
REFERENCE SHEET 16 OF 16 FOR MORE INFORMATION ON CUT AND FILL VOLUMES SHOWN.

PRELIMINARY

EXISTING GRADE:
1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 19, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE:	REMARKS:

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 1167
CUT OFF, LOUISIANA 70345
(985) 632-5766

DESIGNED BY:	DRAWN BY:	CHECKED BY:
J.C.P.	L.J.G.	M.V.G.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

BEACH CROSS SECTIONS- STA. 140+00 TO STA. 148+00

PORT FOURCHON, LA. — LAFOURCHE PARISH

SHEET NO. 15 OF 16

J.A. 4310-0902

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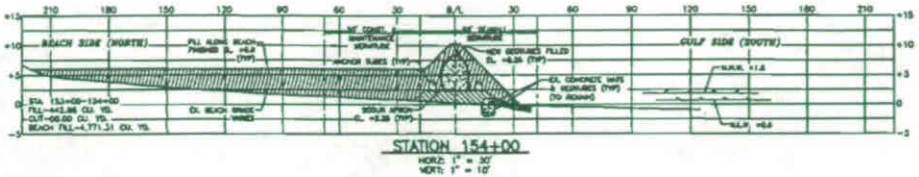
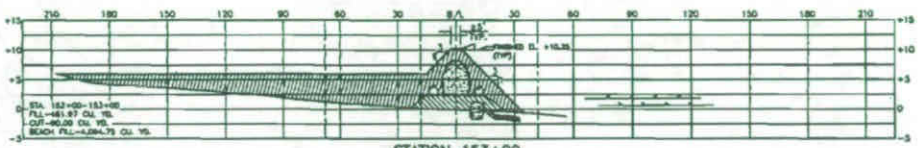
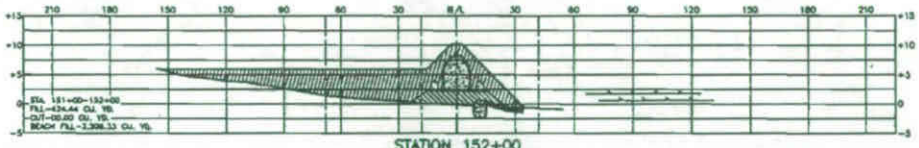


STATION 154+00
HORZ: 1" = 30'
VERT: 1" = 10'



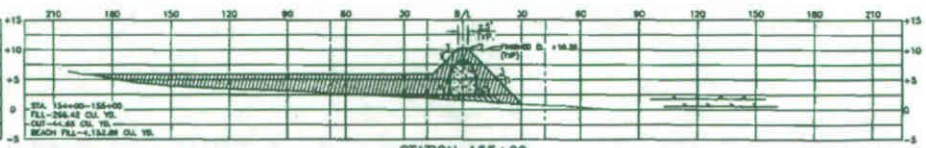
STATION 153+00
HORZ: 1" = 30'
VERT: 1" = 10'



STATION 152+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 151+00
HORZ: 1" = 30'
VERT: 1" = 10'

STATION 150+00
HORZ: 1" = 30'
VERT: 1" = 10'



STATION 155+00
HORZ: 1" = 30'
VERT: 1" = 10'

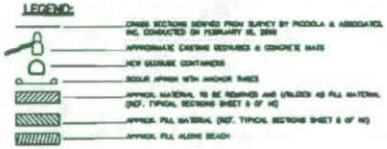
NOTES:

1. "FILL" VOLUMES INDICATE APPROXIMATE CUBIC YARDAGE OF FILL MATERIAL REQUIRED BETWEEN EACH STATION TO ACHIEVE PROPER ELEVATION FOR GEOTUBE PLACEMENT. VOLUMES ARE APPROXIMATE.
2. "CUT" VOLUMES INDICATE APPROXIMATE CUBIC YARDAGE OF MATERIAL TO BE REMOVED BETWEEN EACH STATION TO ACHIEVE PROPER ELEVATION FOR GEOTUBE PLACEMENT. VOLUMES ARE APPROXIMATE.
3. "BEACH FILL" VOLUMES INDICATE APPROXIMATE CUBIC YARDAGE OF FILL MATERIAL REQUIRED TO ACHIEVE DESIGN GRADE SHOWN ON THE CROSS SECTIONS. VOLUMES ARE APPROXIMATE.

EXISTING GRADE:

1. EXISTING BEACH GRADE AND SHORELINE WERE DERIVED FROM SURVEY BY PICCIOLA & ASSOCIATES, INC. CONDUCTED ON FEBRUARY 18, 2010. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY VARY.

LEGEND:



PRELIMINARY

DRAWING PLOTTED AT HALF-SCALE

REVISIONS:

DATE	REMARKS

STAMP:

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS — NAVAL ARCHITECTS
LAND SURVEYORS — MARINE ENGINEERS
P.O. BOX 467
CUT OFF, LOUISIANA 70345
(985) 632-3798

DESIGNED BY: J.C.P. | DRAWN BY: L.A.C. | CHECKED BY: M.V.C.

DATE: MARCH 24, 2010

SCALE: AS SHOWN

GREATER LAFOURCHE PORT COMMISSION

EMERGENCY BEACH REHABILITATION-PHASE I

BEACH CROSS SECTIONS- STA. 150+00 TO STA. 155+00

PORT FOURCHON, LA. — LAFOURCHE PARISH

SHEET NO. 16 OF 16

E:\09-028\03100902 GLPC - Caminada Beach Restoration\CAD\CURRENT\PROJECT PLAN_3-24-10_LATEST\11-16-SHT_CROSS SECTIONS.dwg, Model, 8/4/2011 3:51:43 PM, kee