

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
1835 Assembly Street
Strom Thurmond Federal Building
Room 865 B-1
Columbia, South Carolina 29201

and
THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Office of Environmental Quality Control
Water Quality Certification and Wetlands Programs Section
2600 Bull Street
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N # 2011-1356-6IO

August 23, 2013

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

Mr. Don Harris
C/o South Carolina Electric and Gas Company
220 Operation Way
Cayce, South Carolina 29033

for a permit to construct a cofferdam and remove a Tar-Like Material that is comingled with sediment in the

Congaree River

Located just south of the Gervais Street Bridge, in the City of Columbia, Richland County, South Carolina (Latitude 33.995127 Longitude -81.049628)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by **Corps** until

15 DAYS FROM THE DATE OF THIS NOTICE

And SCDHEC will receive written statements regarding the proposed work until

30 DAYS FROM THE DATE OF THIS NOTICE

The proposed work consists of the construction of a temporary cofferdam to facilitate the removal of a Tar-Like Material (TLM) comingled with sediment in the Congaree River. In detail, the applicant proposes to construct a 60' X 3990' temporary cofferdam in the Congaree River in three separate phases over three construction seasons (3 years). The applicant proposes to dewater the area and remove 27,000 cubic yards of TLM comingled with sediment by using a combination of physical methods which include excavation, dredging, vacuuming, and hand shoveling. The excavated material will be transported by truck to an on-site processing building where large objects that may be encountered in the sediment will be removed. The TLM entrained sediment will then be mixed with cement kiln dust or other readily available drying agents and transported

to Waste Management's Richland County Landfill located at 1047 Highway Church Road, Elgin, S.C. Upon completion of each phase, the rock material used to construct the temporary cofferdam will be left in place and used to construct the next phase of the cofferdam and/or used to re-establish the shoreline slope of the disturbed area. The project area is approximately 23.0 acres with 10.5 acres consisting of the Congaree River and the other 12.5 acres consisting of uplands. All construction will begin on May 1st and cease by October 31st to minimize potential impacts to spawning fish and endangered species. The project purpose, as stated by the applicant, is to address the occurrence of TLM that is comingled with sediment along the eastern shoreline of the Congaree River, just south of the Gervais Street Bridge in the City of Columbia, South Carolina. The South Carolina Department of Environmental Control (SCDHEC) has entered into a Voluntary Cleanup Contract (VCC) with South Carolina Electric and Gas Company (SCE&G) to assess and remediate the TLM that originated from the Huger Street former Manufactured Gas Plant. The work will be performed by SCE&G at the direction of SCDHEC. No mitigation is proposed for the impacts due to the remedial nature of the project.

The work shown on this application must be determined consistent with applicable provisions of the South Carolina Construction in Navigable Waters Permit Program. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to State navigable waters permit must submit all comments in writing to the S.C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

Preliminary review of the scope of work sought by this application indicates that State and Federal permits should be processed concurrently. If the Federal permit is issued in advance of the State's a special provision will be included in the Federal permit expressing the endorsement of the District Engineer to any revisions or conditions subsequently imposed by the State permit.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact freshwater habitat well inland of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), the District Engineer has consulted the most recently available information and has determined that the project is not likely to adversely affect any Federally endangered, threatened, or proposed species or result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of

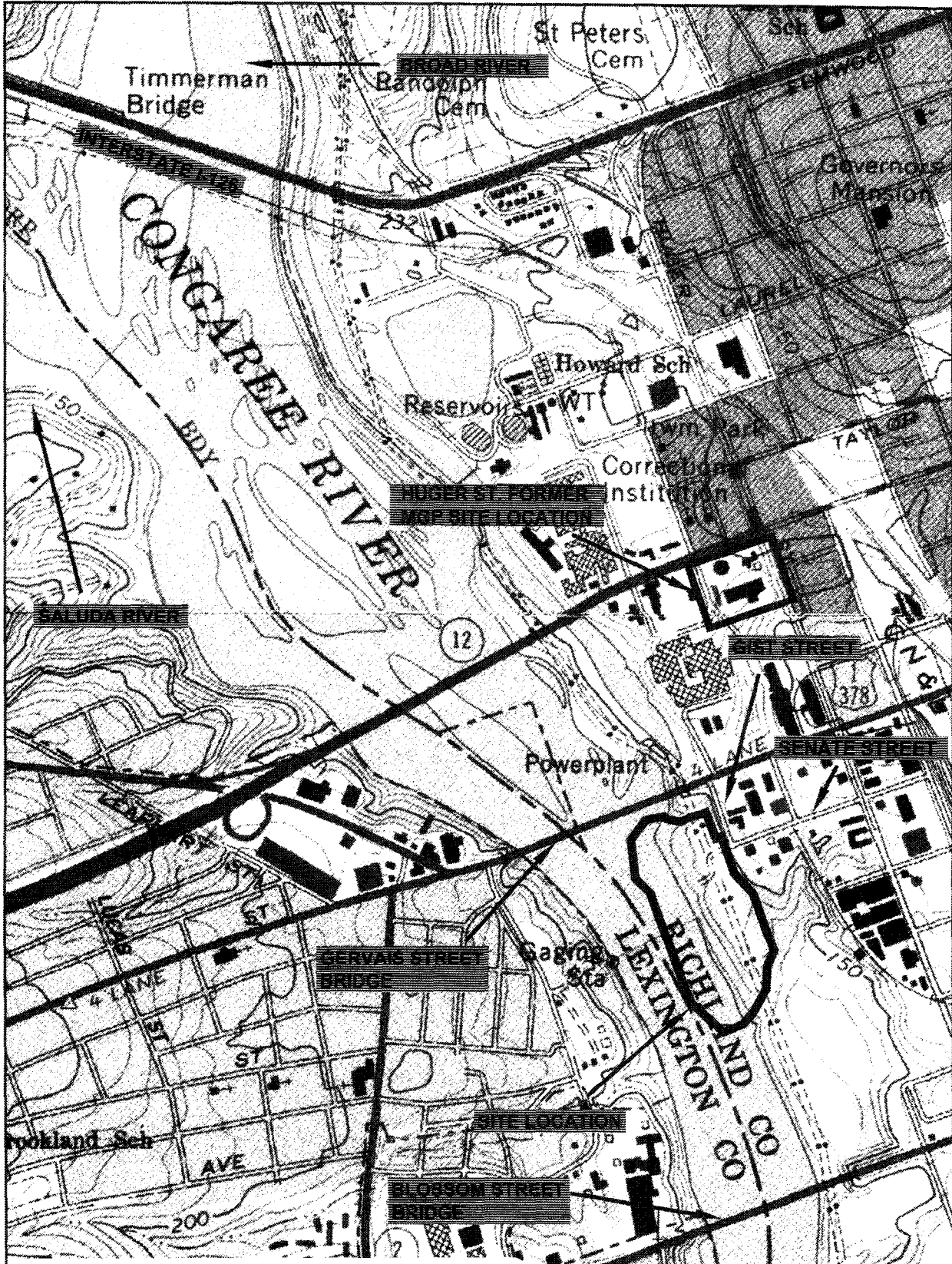
registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Chip Ridgeway at 803-253-3906.



2011-1356-610
 Cogaree River Remediation Project
 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013



FIGURE 1
 SOUTH CAROLINA
 ELECTRIC & GAS COMPANY
 SITE LOCATION MAP
 CONGAREE RIVER REMEDIATION
 COLUMBIA, SOUTH CAROLINA
 U.S.G.S. 7 1/2" TOPOGRAPHIC QUADRANGLES OF
 SOUTHWEST COLUMBIA AND COLUMBIA NORTH
 DATE 02/01/13
 PREPARED BY: [unreadable]
 CHECKED BY: [unreadable]
 MANAGED BY: [unreadable] AND TECHNICAL RESEARCH, INC.

TABLE 1

AREA CALCULATIONS BY PHASE

Congaree River Sediments
Columbia, South Carolina

Phase	Cofferdam				Isolated Area ⁽²⁾		Total Area Per Phase ⁽³⁾	
	Length (linear feet)	Width ⁽¹⁾ (feet)	Total (square feet)	Total Acres	Total (square feet)	Total Acres	Total (square feet)	Total Acres
Phase 1	1,443	60	86,580	2.0	122,843	2.8	209,423	4.8
Phase 2	1,302	60	78,120	1.8	148,292	3.4	226,412	5.2
Phase 3	1,245	60	74,700	1.7	134,265	3.1	208,965	4.8
Project Total	3,990		239,400	5.5	405,400	9.3	644,800	14.8

Total Project Footprint Within River (All Phases)⁽⁴⁾ 458,000 10.5

Notes:

- ⁽¹⁾ The elevation of the river bottom within the project area varies, which directly impacts the final footprint width of the cofferdam. An average width of 60 feet wide at the base of the cofferdam (submerged in the bottom of the river) is shown on the attached figures and was used in the various area calculations. The 60-foot width is based on a 1.5 to 1 slope on both sides of the cofferdam with a 10-foot wide crest at elevation 123.5 (NGVD '29) and an assumed river bottom elevation of 107 (NGVD '29), which is conservative. The actual footprint of the temporary cofferdam and starter berm will vary.
- ⁽²⁾ The total "isolated" area for each phase includes only the area inside the cofferdam.
- ⁽³⁾ Total in-river footprint per phase (cofferdam + isolated area). The sum of the total area per phase overstates the overall project footprint because Phases 2 and 3 contain overlap areas as shown on the attached figures.
- ⁽⁴⁾ This area represents the cumulative project footprint. It is smaller than the sum of the phase-specific areas due to the overlap of areas.

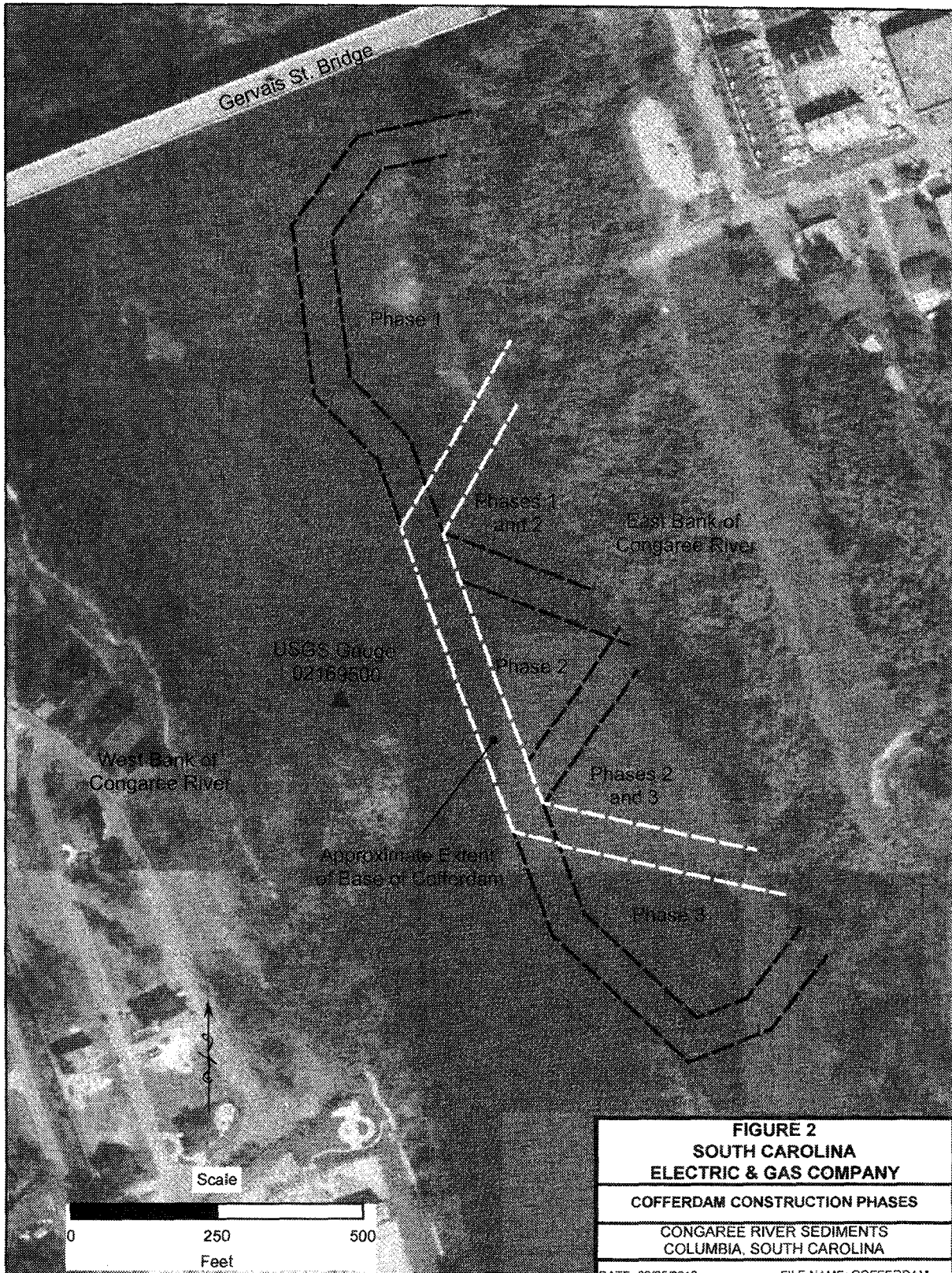






FIGURE 2
SOUTH CAROLINA
ELECTRIC & GAS COMPANY
COFFERDAM CONSTRUCTION PHASES
CONGAREE RIVER SEDIMENTS
COLUMBIA, SOUTH CAROLINA

DATE: 08/05/2013 FILE NAME: COFFERDAM
 MANAGEMENT AND TECHNICAL RESOURCES, INC.

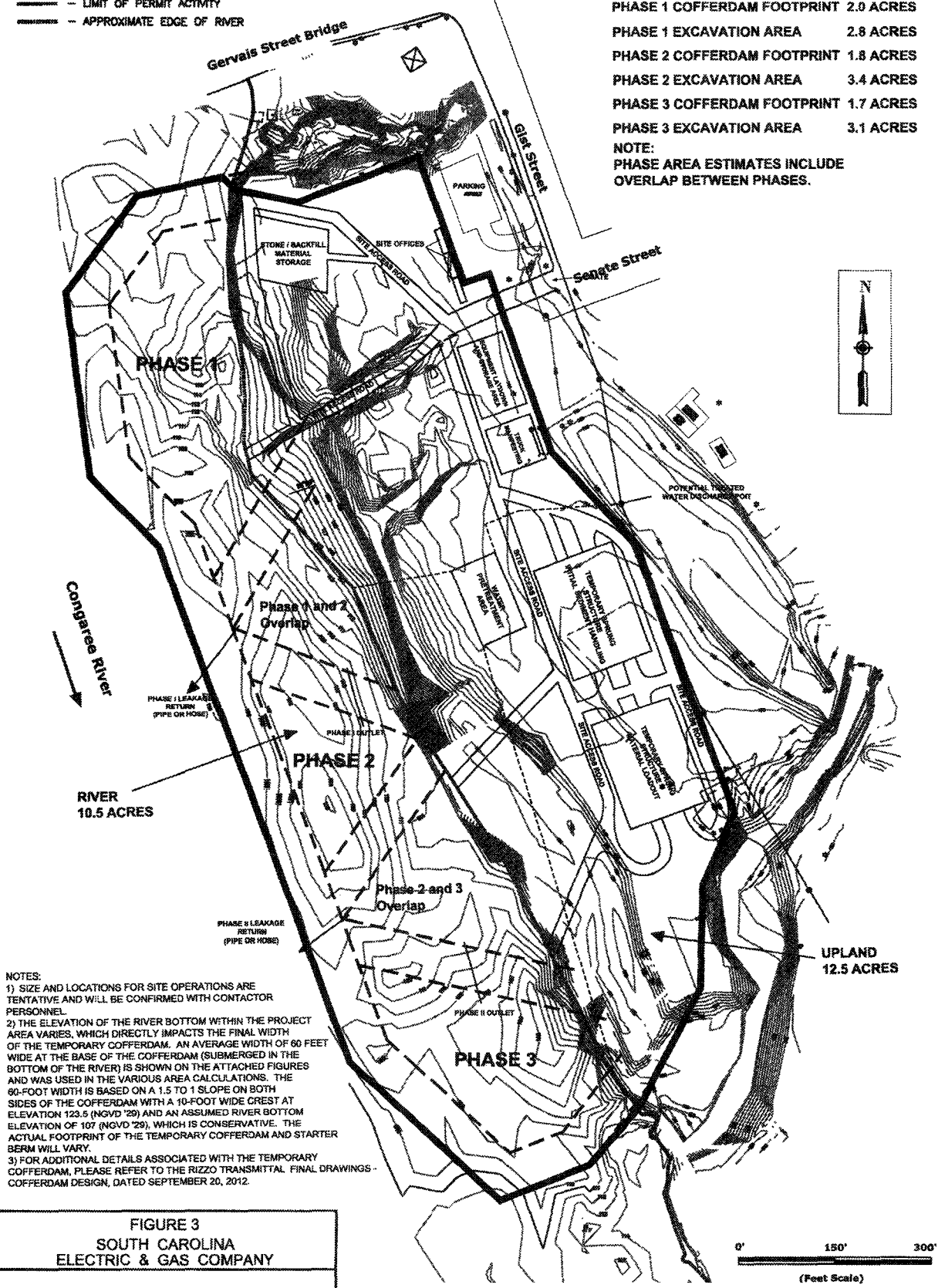
LEGEND

-  - BATHYMETRIC LINE (FEET NAVD '88)
-  - APPROXIMATE COFFERDAM/DIKE LOCATION
-  - LIMIT OF PERMIT ACTIVITY
-  - APPROXIMATE EDGE OF RIVER

PROJECT SITE - APPROXIMATE ACRES

PROJECT SITE	23.0 ACRES
UPLAND	12.5 ACRES
RIVER	10.5 ACRES
PHASE 1 COFFERDAM FOOTPRINT	2.0 ACRES
PHASE 1 EXCAVATION AREA	2.8 ACRES
PHASE 2 COFFERDAM FOOTPRINT	1.8 ACRES
PHASE 2 EXCAVATION AREA	3.4 ACRES
PHASE 3 COFFERDAM FOOTPRINT	1.7 ACRES
PHASE 3 EXCAVATION AREA	3.1 ACRES

NOTE:
PHASE AREA ESTIMATES INCLUDE OVERLAP BETWEEN PHASES.



- NOTES:
- 1) SIZE AND LOCATIONS FOR SITE OPERATIONS ARE TENTATIVE AND WILL BE CONFIRMED WITH CONTACTOR PERSONNEL.
 - 2) THE ELEVATION OF THE RIVER BOTTOM WITHIN THE PROJECT AREA VARIES, WHICH DIRECTLY IMPACTS THE FINAL WIDTH OF THE TEMPORARY COFFERDAM. AN AVERAGE WIDTH OF 60 FEET WIDE AT THE BASE OF THE COFFERDAM (SUBMERGED IN THE BOTTOM OF THE RIVER) IS SHOWN ON THE ATTACHED FIGURES AND WAS USED IN THE VARIOUS AREA CALCULATIONS. THE 60-FOOT WIDTH IS BASED ON A 1.5 TO 1 SLOPE ON BOTH SIDES OF THE COFFERDAM WITH A 10-FOOT WIDE CREST AT ELEVATION 123.5 (NGVD '20) AND AN ASSUMED RIVER BOTTOM ELEVATION OF 107 (NGVD '20), WHICH IS CONSERVATIVE. THE ACTUAL FOOTPRINT OF THE TEMPORARY COFFERDAM AND STARTER BERM WILL VARY.
 - 3) FOR ADDITIONAL DETAILS ASSOCIATED WITH THE TEMPORARY COFFERDAM, PLEASE REFER TO THE RIZZO TRANSMITTAL FINAL DRAWINGS - COFFERDAM DESIGN, DATED SEPTEMBER 20, 2012.

FIGURE 3	
SOUTH CAROLINA ELECTRIC & GAS COMPANY	
APPROXIMATE LIMIT OF PERMIT ACTIVITY	
CONGAREE RIVER SEDIMENTS COLUMBIA, SOUTH CAROLINA	
DATE: 8/7/13	FILE NAME: CONG045
MANAGEMENT AND TECHNICAL RESOURCES, INC.	

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 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013

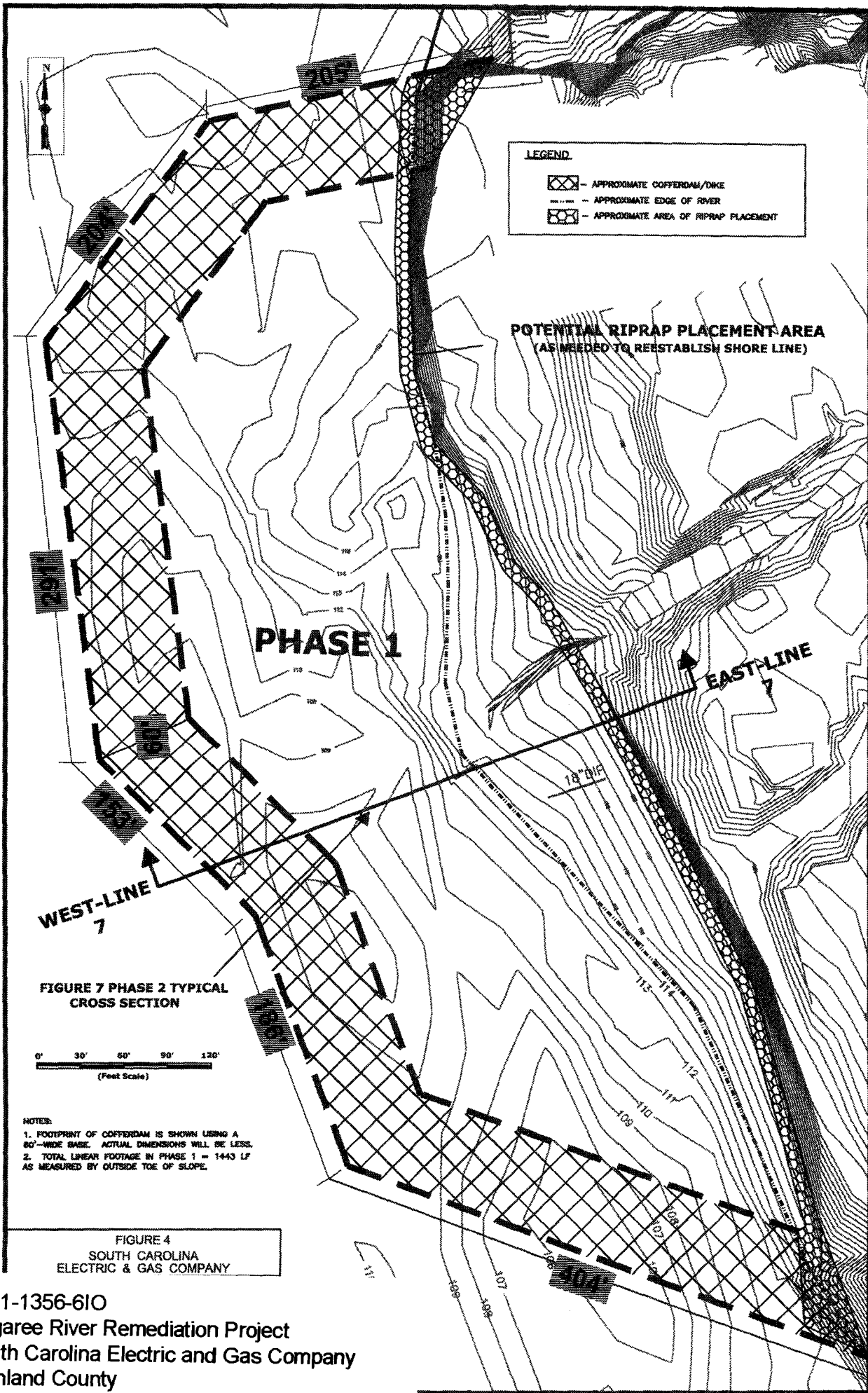


FIGURE 7 PHASE 2 TYPICAL CROSS SECTION

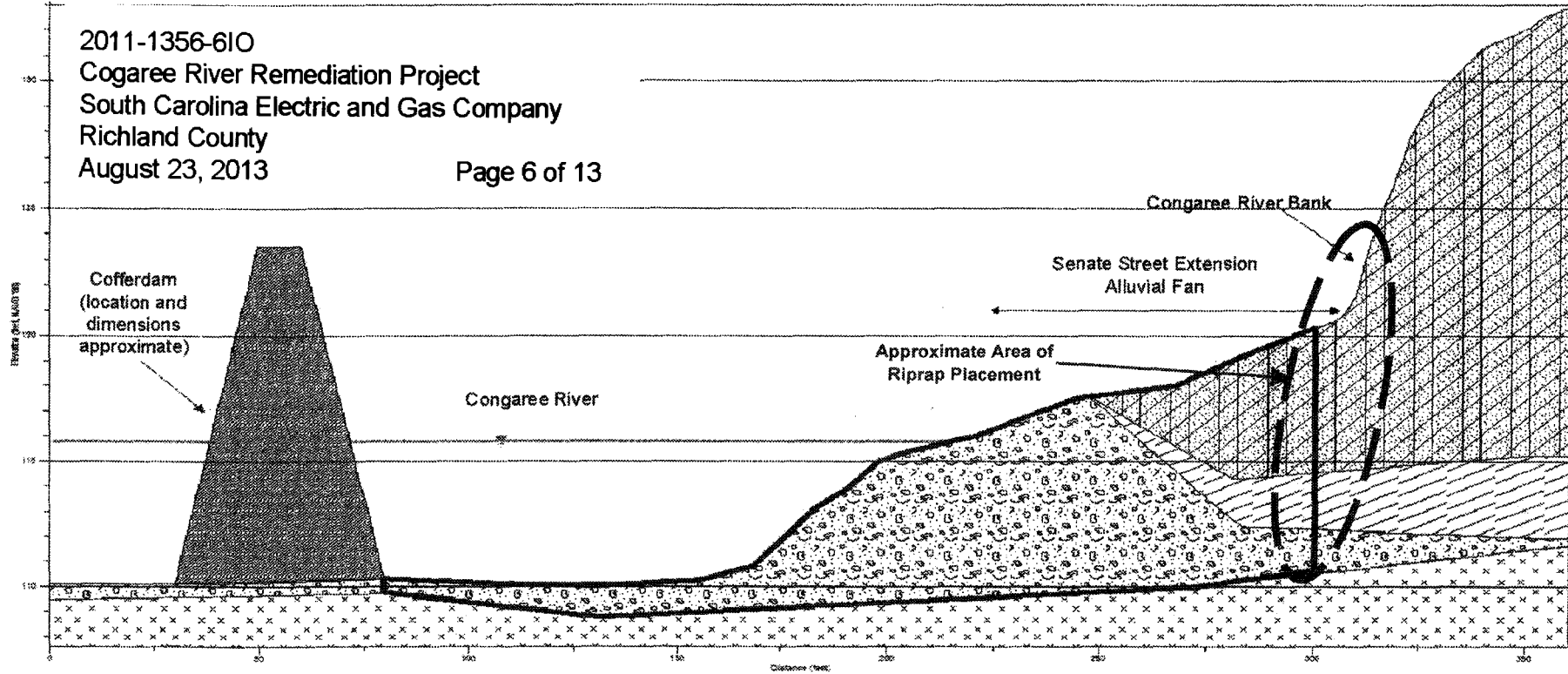







NOTES:

1. FOOTPRINT OF COFFERDAM IS SHOWN USING A 80'-WIDE BASE. ACTUAL DIMENSIONS WILL BE LESS.
2. TOTAL LINEAR FOOTAGE IN PHASE 1 = 1443 LF AS MEASURED BY OUTSIDE TOE OF SLOPE.

FIGURE 4
SOUTH CAROLINA
ELECTRIC & GAS COMPANY

2011-1356-610
 Cogaree River Remediation Project
 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013



LEGEND	
	Cogaree River Bank Deposits - Depositional environment is unknown but may be varied (fluvial to near shore marine (transgressive/retrogressive sequences)). Lithology ranges from clays, to silt, to fine to medium sands or combinations thereof and is layered.
	Cogaree River Sediments or Remnants- fine to coarse sand, fine to coarse gravels, cobbles, boulders, and in places can have varying amounts of silt.
	Cogaree River Shoreline or Remnants- gray to black, silt, clay, and very fine to fine sand or combination thereof. Can be micaceous.
	Granite Bedrock and/or boulders - assumed.
	Approximate extent of sediment targeted for removal

Notes

1. The surface water level was determined by using the average of the maximum river gauge heights recorded during the September-October 2010 investigations, accounting for river slope (2.10 feet/mile, USACE Congaree River Basin Navigability Study 1977) and referencing to the elevation (112.25 feet, NAVD '88) of USGS gauge 02169500, Congaree River at Columbia, SC.
2. The coring/boring locations are constructed along a fence line, and bathymetry and topography are from the "7" -strike line.
3. Western extent of sediment targeted for removal is approximately 50 feet west of O7.
4. The Congaree River bank slope likely differs from that shown.
5. Since no corings/borings were collected west of O7, lithology was interpreted from existing corings/borings along Line 7.
6. This geological cross-section was prepared by evaluating existing coring/boring logs and inferred site conditions between data points. As such, interpretation between data points was based on best professional judgement. Actual site conditions depicted between existing corings/borings may vary.

PHASE 1

FIGURE 5

SOUTH CAROLINA ELECTRIC AND GAS CO.

PHASE 1 TYPICAL CROSS SECTION

CONGAREE RIVER SEDIMENTS
COLUMBIA, SOUTH CAROLINA

DATE: 08/05/2013 FILE NAME: PHASE 1 TYPICAL

MANAGEMENT AND TECHNICAL RESOURCES, INC.

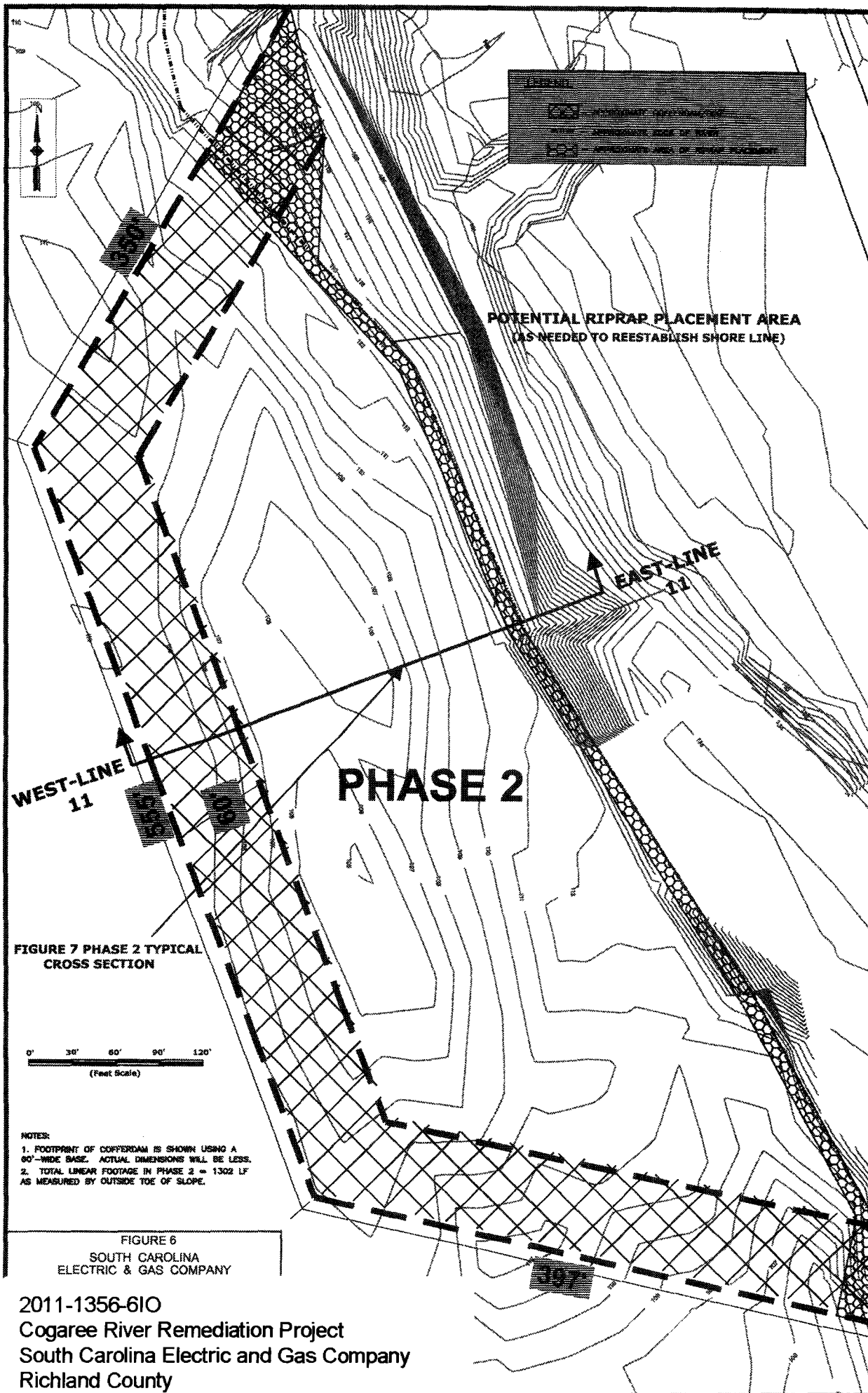
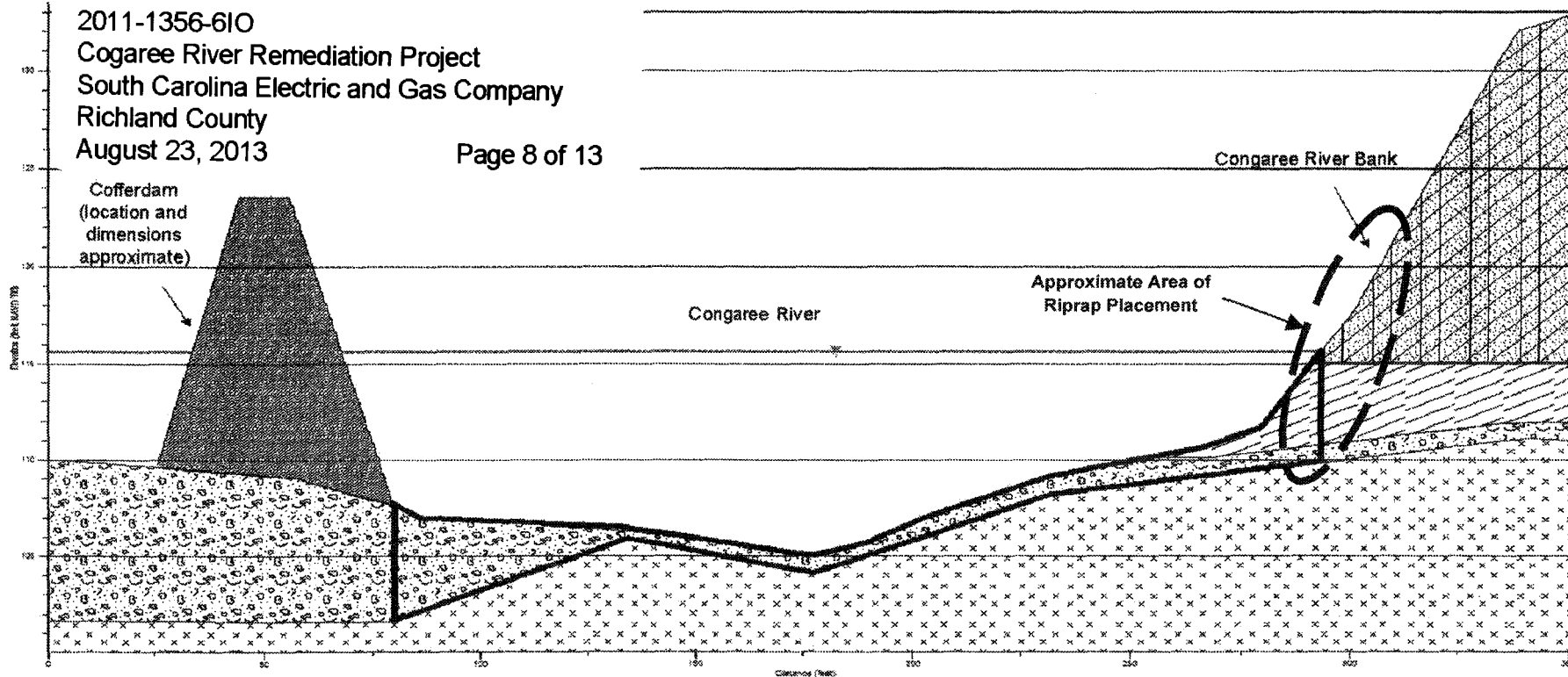







FIGURE 6
SOUTH CAROLINA
ELECTRIC & GAS COMPANY

2011-1356-610
 Cogaree River Remediation Project
 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013



LEGEND	
	Congaree River Bank Deposits - Depositional environment is unknown but may be varied (fluvial to near shore marine (transgressive/retrogressive sequences)). Lithology ranges from clays, to silt, to fine to medium sand or combinations thereof and is layered.
	Congaree River Sediments or Remnants- fine to coarse sand, fine to coarse gravels, cobbles, boulders, and in places can have varying amounts of silt.
	Congaree River Shoreline or Remnants- gray to black, silt, clay, and very fine to fine sand or combination thereof. Can be micaceous.
	Granite Bedrock and/or boulders - assumed
	Approximate extent of sediment targeted for removal

Notes:

1. The surface water level was determined by using the average of the maximum river gauge heights recorded during the September-October 2010 investigations, accounting for river slope (2.10 feet/mile, USACE Congaree River Basin Navigability Study 1977) and referencing to the elevation (112.25 feet, NAVD '88) of USGS gauge 02169500, Congaree River at Columbia, SC
2. The coring/boring locations are constructed along a fence line, and bathymetry and topography are from the "11" -strike line.
3. The Congaree River bank slope likely differs from that shown.
4. Since no corings/borings were collected west of O11, lithology was interpreted from existing corings/borings along Line 11.
5. This geological cross-section was prepared by evaluating existing coring/boring logs and inferred site conditions between data points. As such, interpretation between data points was based on best professional judgement. Actual site conditions depicted between existing corings/borings may vary.

PHASE 2

FIGURE 7

SOUTH CAROLINA ELECTRIC AND GAS CO.

PHASE 2 TYPICAL CROSS SECTION

**CONGAREE RIVER SEDIMENTS
 COLUMBIA, SOUTH CAROLINA**

DATE: 08/05/2013 FILE NAME: PHASE 2 TYPICAL
 MANAGEMENT AND TECHNICAL RESOURCES, INC.

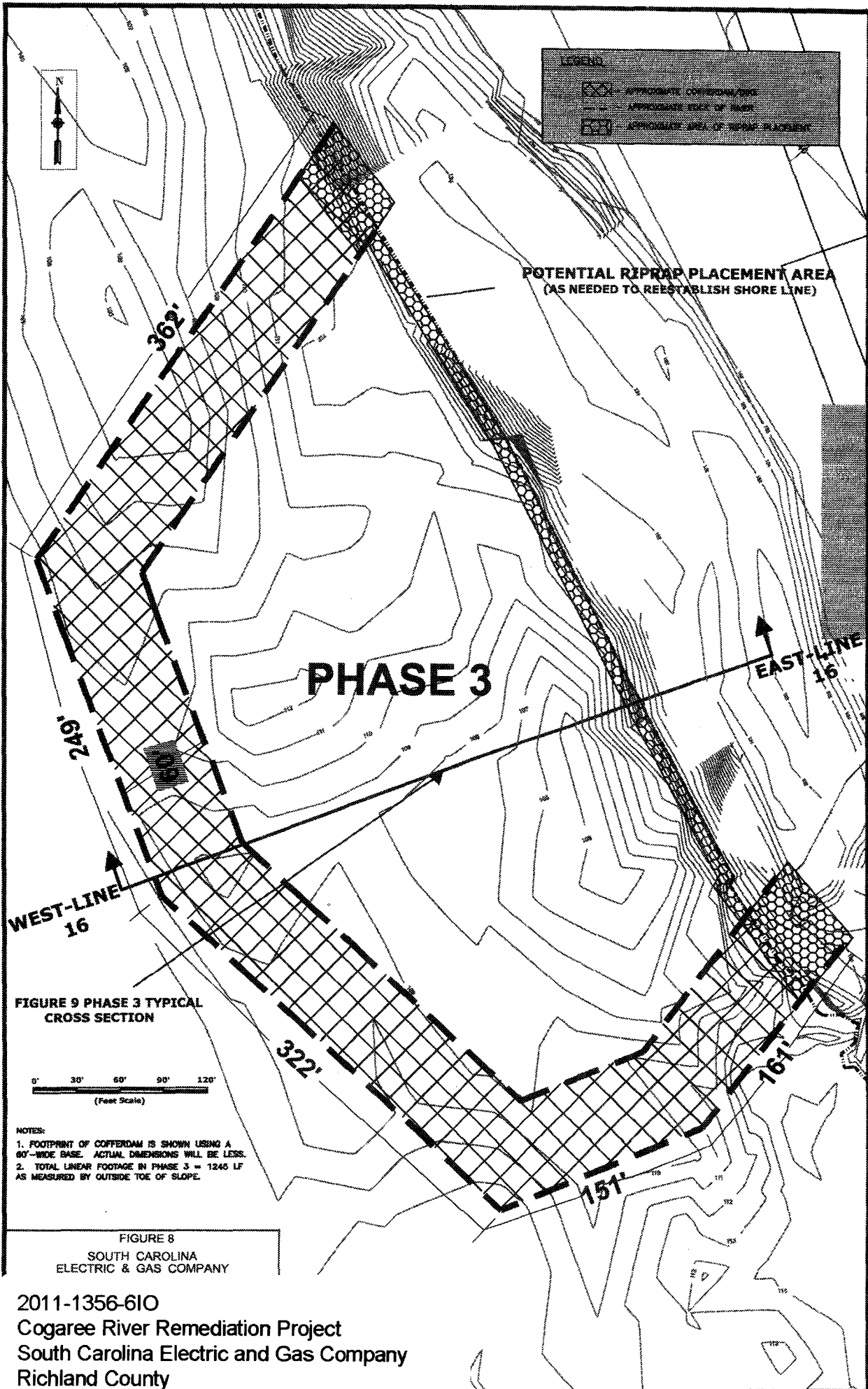
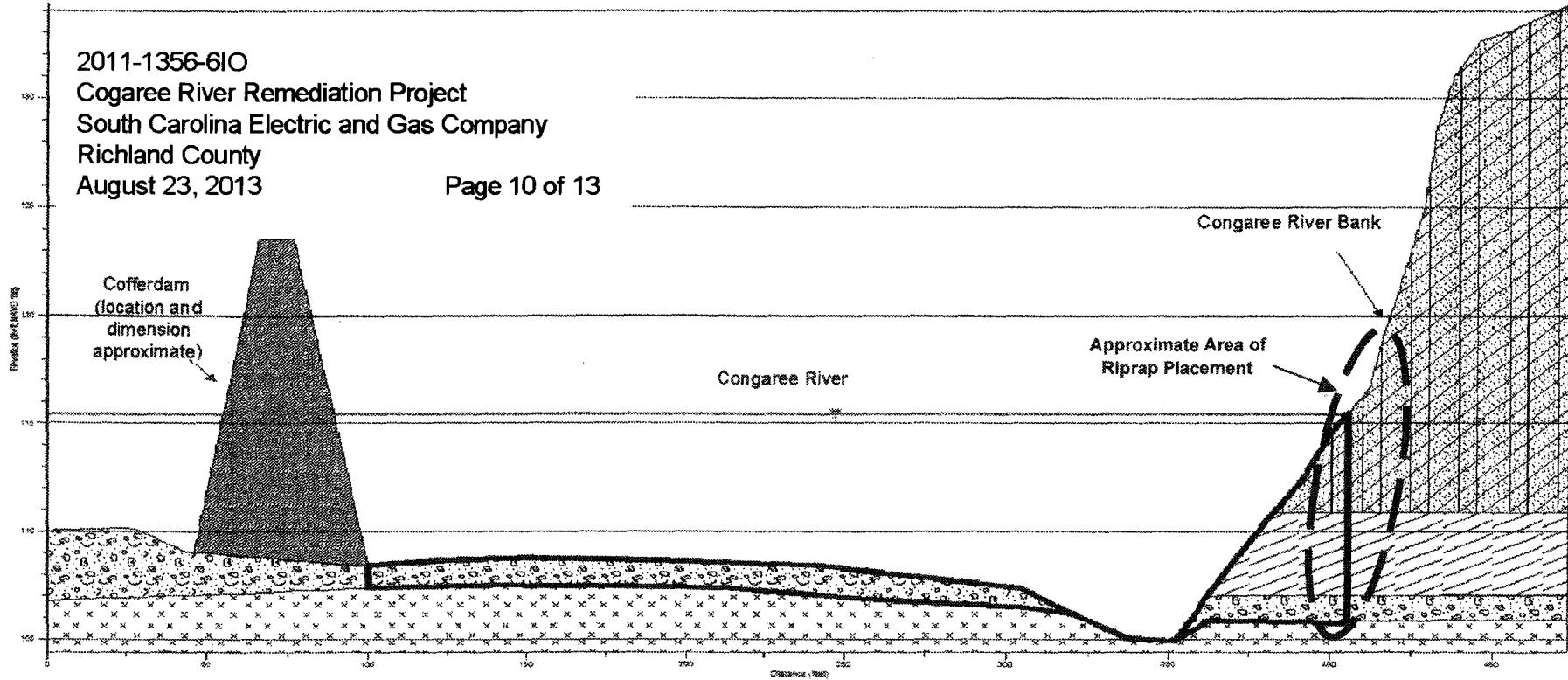







FIGURE 8
SOUTH CAROLINA
ELECTRIC & GAS COMPANY

2011-1356-6IO
 Congaree River Remediation Project
 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013



LEGEND	
	Congaree River Bank Deposits- Depositional environment is unknown but may be varied (fluvial to near shore marine (transgressive/regressive sequences)). Lithology ranges from clays, to silt, to fine to medium sands or combinations thereof and is layered.
	Congaree River Sediments or Remnants- fine to coarse sand, fine to coarse gravels, cobbles, boulders, and in places can have varying amounts of silt.
	Congaree River Shoreline or Remnants- gray to black, silt, clay, and very fine to fine sand or combination thereof. Can be micaceous.
	Granite Bedrock and/or boulders - assumed
	Approximate extent of sediment targeted for removal

Notes:

1. The surface water level was determined by using the average of the maximum river gauge heights recorded during the September-October 2010 investigations, accounting for river slope (2.10 feet/mile, USACE Congaree River Basin Navigability Study 1977) and referencing to the elevation (112.25 feet, NAVD '88) of USGS gauge 02169500, Congaree River at Columbia, SC.
2. The coring/boring locations are constructed along a fence line, and bathymetry and topography are from the "16" - strike line
3. The Congaree River bank Slope likely differs from that shown.
4. Since no corings/borings were collected west of O16, lithology was interpreted from existing corings/borings along Line 16.
5. This geological cross-section was prepared by evaluating existing coring/boring logs and inferred site conditions between data points. As such, interpretation between data points was based on best professional judgement. Actual site conditions depicted between existing corings/borings may vary.

PHASE 3

FIGURE 9

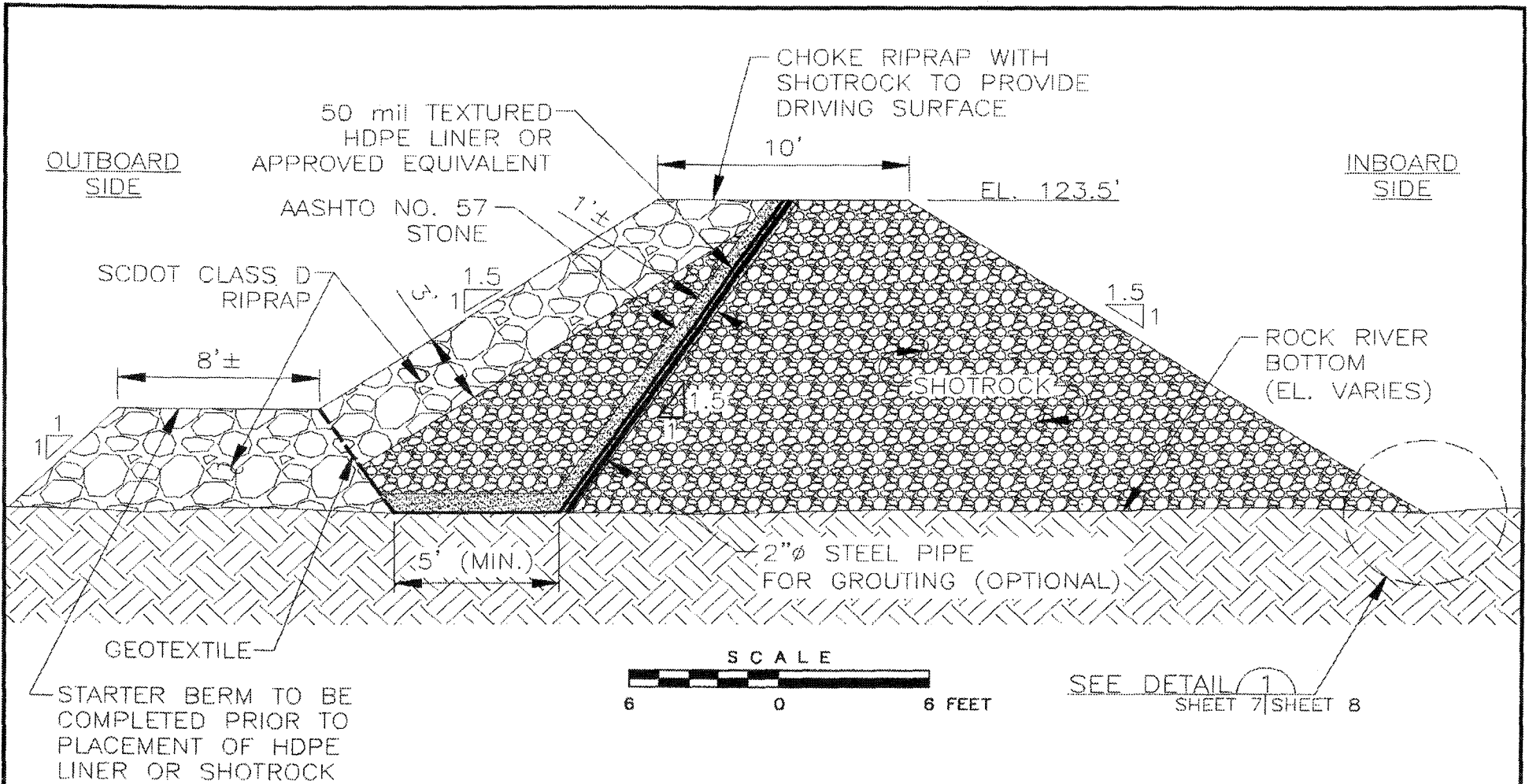
SOUTH CAROLINA ELECTRIC AND GAS CO.

PHASE 3 TYPICAL CROSS SECTION

CONGAREE RIVER SEDIMENTS
COLUMBIA, SOUTH CAROLINA

DATE: 08/05/2013 FILE NAME: PHASE 3 TYPICAL

MANAGEMENT AND TECHNICAL RESOURCES, INC.



SEE DETAIL 1
SHEET 7 | SHEET 8

LEGEND:

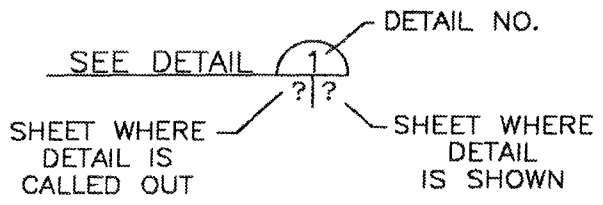


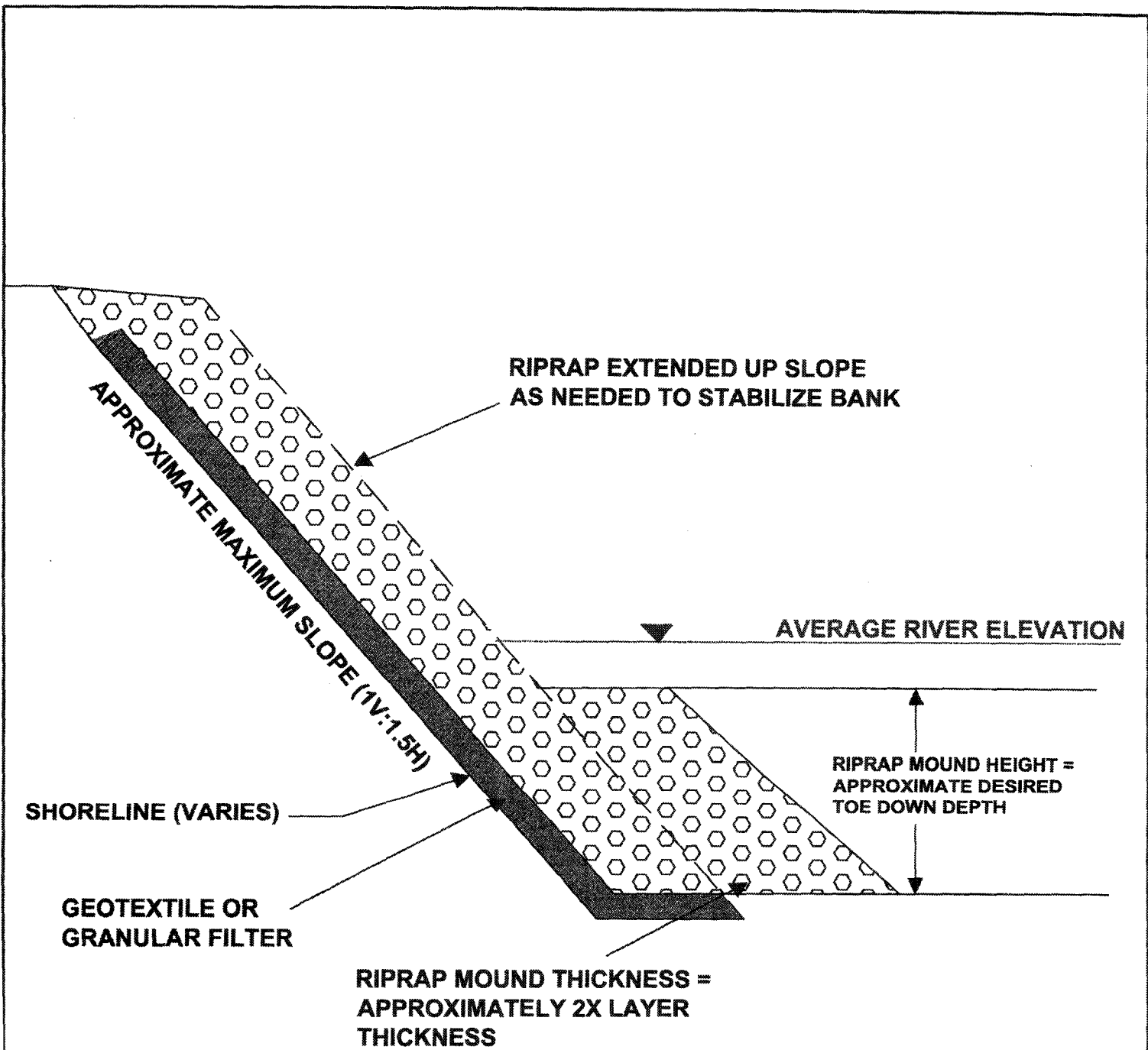
FIGURE 10
(Sheet 7 of 13 from Rizzo Cofferdam Design)
TYPICAL COFFERDAM SECTION

PREPARED FOR
SOUTH CAROLINA ELECTRIC & GAS
CONGAREE RIVER REMEDIATION
COLUMBIA, SOUTH CAROLINA

PCR Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

CAD FILE NUMBER	114708A8
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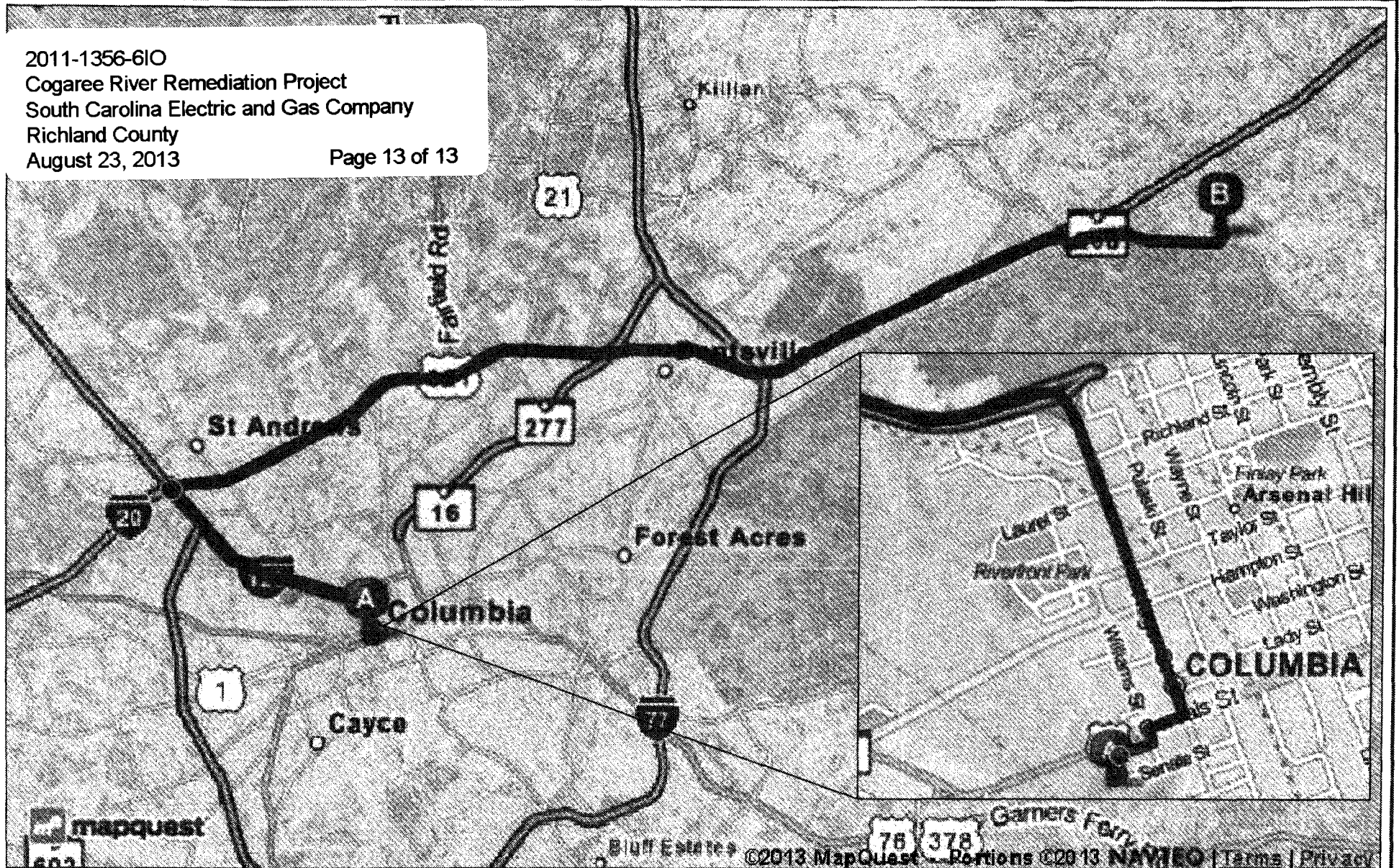
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 Cogaree River Remediation Project
 South Carolina Electric and Gas Company
 Richland County
 August 23, 2013

NOT TO SCALE

FIGURE 11 SOUTH CAROLINA ELECTRIC & GAS COMPANY	
TYPICAL RIPRAP RIVER BANK STABILIZATION	
CONGAREE RIVER SEDIMENTS COLUMBIA, SOUTH CAROLINA	
DATE: 8/21/13	FILE NAME: CONG057
MANAGEMENT AND TECHNICAL RESOURCES, INC.	



TRUCK ROUTE TO LANDFILL

- 1) FROM THE SITE ENTRANCE GATE TRUCKS WILL MAKE A LEFT ONTO GIST STREET.
- 2) AT THE STOP SIGN AT THE END OF GIST STREET TRUCKS WILL MAKE A RIGHT TURN ONTO GERVAIS STREET.
- 3) AT THE NEXT INTERSECTION TRUCKS WILL MAKE A LEFT ONTO HUGER STREET.
- 4) TRUCKS WILL FOLLOW HUGER STREET FOR APPROXIMATELY 0.8 MILES AND MERGE ONTO I-126 W/US-76 W TOWARD GREENVILLE/SPARTANBURG.
- 5) TRUCKS WILL MERGE ONTO I-20E AND CONTINUE FOR APPROXIMATELY 17.5 MILES TO EXIT 82 - SPEARS CREEK CHURCH ROAD.
- 6) TRUCKS WILL MAKE A RIGHT ONTO SPEARS CREEK CHURCH ROAD (SC-53) AND THEN TURN LEFT ONTO PERCIVAL ROAD (SC-12).
- 7) TRUCKS WILL MAKE RIGHT ONTO SCREAMING EAGLE ROAD (SC-288) AND TURN LEFT INTO THE LANDFILL ENTRANCE.

FIGURE 12
 SOUTH CAROLINA
 ELECTRIC & GAS COMPANY

ROUTE TO LANDFILL

CONGAREE RIVER SEDIMENTS
 COLUMBIA, SOUTH CAROLINA

DATE: 8/14/13

FILE NAME: CONG051

MANAGEMENT AND TECHNICAL RESOURCES, INC.