

REQUEST FOR BOARD ACTION / CONTRACT CONTROL FORM

Tracking Number: 5.

Date of Request: November 10, 2008

Date Request Received: November 10, 2008

Board Meeting Date Requested: November 17, 2008

Board Meeting Date Assigned: November 17, 2008

Short Title: Resolution Authorizing A Purchase Order To S&M E For Geotechnical Borings In The U.S. 421 Industrial Park In The Amount Of \$7,330.

- Request Status:**
- Request is proceeding to Board of Commissioners
 - More information is needed – see attached
 - Request on hold – no further information needed
 - Other:

Background: Geotechnical work is scheduled to begin for the U.S. 421 water plant facility the week of November 17 by S&ME. Preliminary geotechnical work is also necessary throughout the industrial park to meet industrial certification requirements and to help more effectively market the site. The County can save considerable monies by having the park's geotechnical work accomplished while the company is mobilized for the geotechnical work for the water plant facility. The proposed cost for ten-20' bores (one on each of the ten lots) is \$7,330. Funds are set aside in the Industrial Infrastructure Development Fund (Fund 60) for this work.

(Administrative Use Only)

Specific Action Requested: To adopt the resolution attached authorizing a purchase order to S&ME for soil borings in the US 421 Industrial Park in the amount of \$7,330.

CONTRACT TYPE

- Renewal
- For Service(s)
- Intergovernmental – County as Grantee
 - Federal Grantor
 - State Grantor
 - Grantor
- County as Grantor
 - County Funds
 - Other Funds:
- Revision
- For Equipment

Requested by: Rick Benton
 Department: County Manager's Office
 Title: County Manager
 Contact Phone: 910.259.1200
 Contact Fax: 910.259.1402

PURCHASING Budgeted Item: Yes No
 Date Rec'd: Reviewed and Approved
 Comments on Reverse

Date Sent: _____
 Signed: _____

ATTORNEY Reviewed and Approved
 Date Rec'd: Legal Problem(s)
 Comments on Reverse

Date Sent: _____
 Signed: _____

FINANCE Sufficient Funds Available
 Date Rec'd Not Available
 Budget Amendment Necessary
 Budgeted Amendment is Attached
 Comments on Reverse

Date Sent: _____
 Signed: _____

CLERK Signature(s) Required:
 Board Chairman/County Manager
 Other:

Date Rec'd Approved by Board: Yes No
 At meeting on

MANAGER'S RECOMMENDATION:

Respectfully Recommend Approval

JD
Initials

RESOLUTION: NOW, THEREFORE BE IT RESOLVED, by the Pender County Board of Commissioners that

a purchase order to S&ME in the amount of \$7,330 for geotechnical borings in the US 421 Industrial Park is approved. The budget line item is 60-407409-610 (Industrial Infrastructure Development). The County Manager is authorized to execute any and all agreements necessary to implement this resolution.

ADMENDENTS:

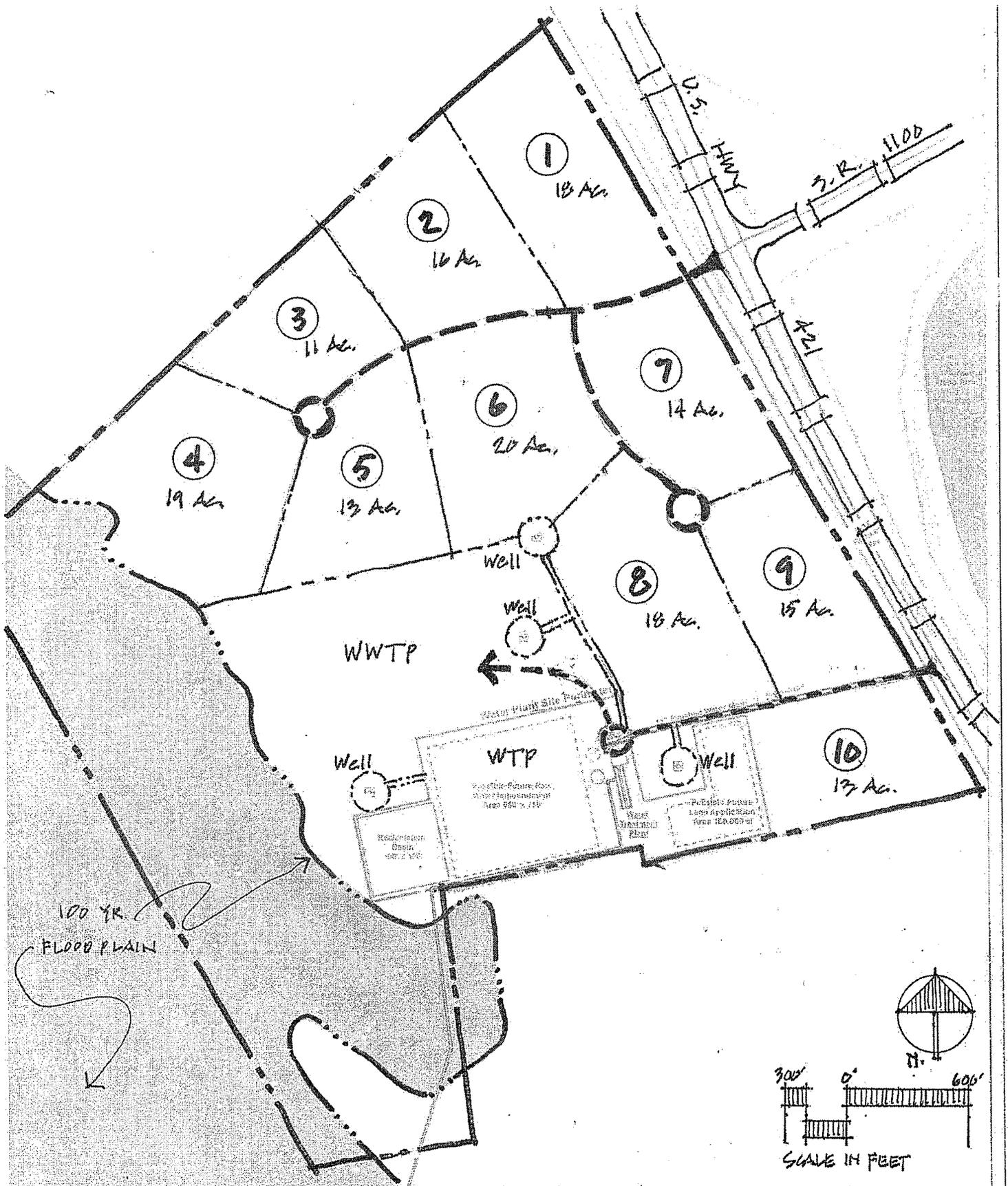
MOVED _____ SECONDED _____

APPROVED _____ DENIED _____ UNANIMOUS

YEA VOTES: Williams ___ Tate ___ Blanchard ___ Brown ___ Rivenbark ___

James David Williams, Jr., Chairman 11/17/08
Date

ATTEST 11/17/08
Date



PENDER CO. INDUSTRIAL PARK

CONCEPT PLAN - No. 2

7/31/08

Obrien Atkins



*Celebrating 35 Years
1973 - 2008*

November 7, 2008

Pender County Utilities Department
605 E. Freemont St.
Burgaw, NC 28425

Attention: Mr. Michael Mack

Reference: **Proposal for Preliminary Geotechnical Services**
Proposed Pender County Industrial Park
U.S. Highway 421
Pender County, North Carolina
S&ME Proposal No. 751-08

Dear Mr. Mack:

S&ME is pleased to have the opportunity to submit this proposal for the above referenced project. This proposal describes our understanding of the project, discusses the intended scope of services, outlines the project schedule and presents the associated compensation for our services. Agreement for Services (Form AS-041) is attached to this proposal and is incorporated as part of this proposal.

BACKGROUND INFORMATION

This proposal is based on a telephone conversation between Brenan Buckley, P.E. of CDM and Tom Schipporeit of S&ME on November 5, 2008. It is also based on a subsequent telephone conversation and emails between Michael Mack of the Pender County Utilities Department and Mr. Schipporeit on November 5, 2008. Mr. Mack's email included a drawing titled "Concept Plan No. 2, Pender County Industrial Park," dated July 31, 2008, scale 1"=600,' prepared by O'Brien Atkins.

We understand that Pender County currently owns and plans to develop a 350-acre site along the west side of U.S. Highway 421 in southwestern Pender County. The southern 35 acres of the site will include a new water treatment plant, currently being designed by CDM with geotechnical engineering by S&ME. The western 30 to 50 acres of the site consists of floodplain and wetlands which is not proposed for development. An industrial park is planned for the remainder of site, and will include roadways and 11 to 20 acre tracts.

We understand that the site is wooded and undeveloped. According to an aerial photograph available on the Pender County GIS website, the northeastern portion of the site appears to be sparsely wooded, with the remainder so the site appearing moderately to heavily wooded. Unpaved paths/roads, in addition to water supply wells and pipes for the existing BASF plant to the south, are also present on the subject site.

We also understand that Pender County is planning to submit for approval of this site under the North Carolina Department of Commerce Certified Site Program. This program requires a preliminary geotechnical study of the site that defines the subsurface conditions using soil test borings at least 20 feet deep using Standard Penetration Test (SPT) sampling.

ASSUMPTIONS

In developing the proposed scope of services, we have made the following assumptions:

- Design loads for the proposed building will be relatively light to moderate (column loads less than 300 kips, wall loads less than 6 kips per foot, and floor loads less than 200 pounds per square foot);
- The buildings will have a slab-on-grade ground floor.
- The finish floor elevation of the proposed buildings will be within 5 feet of the existing grade at the site.
- Earthwork resulting in up to 5 feet of excavation and 5 feet of fill will be necessary to achieve the design grades.
- Design traffic conditions will be limited to automobiles and light- to moderately-heavy trucks.
- The proposed boring locations can be accessed by off-road equipment without crossing jurisdictional streams or wetlands.

SCOPE OF SERVICES

S&ME proposes to offer the following base scope of preliminary geotechnical services for this project:

- Visit the site to observe site surface conditions, mark proposed boring locations, and measure stabilized groundwater levels.
- Contact North Carolina One Call, BASF, and a subcontracted private utility locating service to mark the locations of existing underground utilities in the proposed exploration areas.
- Mobilize a power drilling rig mounted on an all-terrain vehicle and crew to the site.
- Clear small trees and brush with subcontracted environmental mulch clearing equipment and personnel (i.e., hydro-axe) to provide drill rig access to the proposed boring locations.

- Drill 10 soil test borings to depths of 20 feet below existing grades at the approximate locations shown on Figure No. 1 (attached). The total drilling footage proposed is 200 feet. The borings will include split-barrel soil sampling at 2.5 to 5 foot intervals. The sampler will be driven in general accordance with the Standard Penetration Test procedures (ASTM D 1586). The borings will be terminated at depths shallower than those proposed if refusal to drilling equipment is encountered.
- Measure stabilized groundwater levels and backfill the boreholes with soil cuttings.
- Prepare a preliminary geotechnical report summarizing our exploration procedures, describing the subsurface conditions at the site, discussing the impacts of the encountered subsurface conditions on the proposed development, and providing preliminary geotechnical recommendations for site development and foundation design. The report will be signed and sealed by a professional engineer specializing in geotechnical engineering.

Excluded Services

Without attempting to be a complete list of all services or potential services that will be excluded from this proposal and performed by S&ME, the following services are specifically excluded from this proposal:

- Laboratory testing of on-site soils.
- Direct measurement of shear wave velocities of the subsurface materials at the site via downhole or geophysical methods, such as Multi-Channel Analysis of Surface Wave Velocities (MASW).
- Addenda to the preliminary geotechnical report to address changes or additions to the proposed project not known to us at the time of this proposal.
- Design phase geotechnical services, including specific soil parameter recommendations for design of project foundations, floor slabs, retaining walls, and pavements.
- Wetlands and jurisdictional waters determination or delineation.
- Environmental site assessment. The assessment of site environmental conditions or the presence of contaminants in the soil, rock, surface water or groundwater of the site is beyond the proposed scope of geotechnical services.
- Wetland, endangered species, or archeological studies.
- Construction phase services. The monitoring of construction or testing of construction materials is beyond the proposed scope of preliminary geotechnical services.

If any of the above excluded services are required, please contact us so that we can modify this proposal or prepare a proposal for additional services.

Limitations

The generalized subsurface information to be obtained is intended to convey trends in subsurface conditions. The boundaries between strata will be approximate and idealized. They will be developed by interpretations of widely-spaced borings, test pits, or other types of exploration. Therefore, actual subsurface conditions may vary from those given between subsurface exploration locations.

The use of soil test borings and Standard Penetration Test N-values to determine the Seismic Site Classification in accordance with the 2000 International Building Code may be conservative for the subject site. Direct measurement of shear wave velocities at the site could possibly result in a less-conservative seismic site classification for structural design.

Client Responsibilities

It is our understanding that the client will provide access to the site. If the client is aware of any utilities serving the project site and the presence and accurate locations of hidden or obscure man-made objects relative to field tests or boring locations, we request that this information be provided to us prior to the proposed field work.

SCHEDULE

Our schedule is dependent upon your completion of those items provided under client responsibilities and our field work can be delayed by adverse weather. S&ME will be prepared to initiate our services upon receipt of written authorization, including but not limited to site visits, coordination of underground utility locating, marking of borings locations, and clearing access (if required).

Based on our present schedule, we plan to complete the following tasks within the following timeframes after completion of the previous task:

1. Mobilize Drilling Crew & Equipment	2 week
2. Complete Field Work	1 week
3. <u>Complete Engineering Analysis and Report</u>	1 week
Total Duration*	4 weeks*

*After receipt of written authorization to proceed.

Please note that draft geotechnical findings, conclusions, and recommendations can normally be given during or upon completion of the field work, subject to confirmation by laboratory testing and further engineering analysis.

COMPENSATION

We agree to provide the proposed base scope of preliminary geotechnical services for a **lump sum fee of \$7,830**. A breakdown of our fee estimate is attached. Additional services, if required and authorized by you in advance, will be charged at a unit rate basis in accordance with the attached fee estimate.

Please note that if written authorization to proceed is received by November 14, 2008, our lump sum fee can be reduced to \$7,330. We plan to have an S&ME ATV drill rig on the water treatment plant next week, and will not charge for a drill crew/rig mobilization to the adjacent industrial park site if the two sites can be drilled consecutively.

AUTHORIZATION

Our Agreement for Services (Form Number AS-071) is attached and is incorporated as a part of this proposal. Please indicate your acceptance of our proposal by signing the form and returning it to our office. Upon receipt of the signed agreement, we will proceed with the performance of our services. Any changes or modifications to AS-071 or the proposal are required to be acknowledged by both parties initialing acceptance of this proposal and agreement for services next to the change or modification.

If you elect to accept our proposal by issuing a purchase order, then please specifically reference this proposal number in the purchase order as authorization to proceed with the performance of our services. The terms and conditions included in any purchase order shall not apply, and are hereby specifically rejected, as our agreement is for services which are not compatible with purchase order agreements.

If this proposal is transmitted to you via e-mail, and if you choose to accept this proposal by e-mail, your reply e-mail acceptance will serve as your representation to S&ME that you have reviewed the proposal and the associated Agreement for Services (Form Number AS-071) and hereby accept both as written.

This proposal is solely intended for the basic services as described in the Scope of Services. The Scope of Services may not be modified or amended, unless the changes are first agreed to in writing by the Client and S&ME. Use of this proposal and resulting documents is limited to the above-referenced project and Client. No other use is authorized by S&ME.

CLOSURE

S&ME, Inc. appreciates the opportunity to submit this proposal to provide preliminary geotechnical services for the above referenced project. If you should have questions concerning this proposal, or if additional information is required, please contact us.

Sincerely,

S&ME, Inc.



Brett P. Grant
Staff Professional



Tom Schipporeit, P.E.
Branch Manager

BPG/TMS

Attachments: Detailed Budget Estimate
Agreement for Services Form AS-071



S&ME, Inc. Fee Estimate
 Proposed Pender County Industrial Park
 Pender County, North Carolina
 S&ME Proposal No. 751-08

*NA if give notice
Monday*

Drilling

Mobilization of truck and/or ATV rigs and crew	1	mob	@	\$	500.00	each	\$	500.00
SPT borings or CPT soundings (depths from 0 to 50 feet)	200	feet	@	\$	12.00	per foot	\$	2,400.00
SPT borings or CPT soundings (depths from 50 to 80 feet)	0	feet	@	\$	17.00	per foot	\$	-
Observation Well Installation	0	feet	@	\$	35.00	per foot	\$	-
Surface Completions (stickup/flush mount covers)	0	wells	@	\$	200.00	each	\$	-
Bore Hole Grouting	0	feet	@	\$	8.00	per foot	\$	-
Shear Wave Velocity Testing (CPT only)	0	tests	@	\$	25.00	each	\$	-
Difficult moving / Standby / Hauling Water:	0	hours	@	\$	185.00	per hour	\$	-
Shelby Tube Samples (SPT only)	0	samples	@	\$	100.00	each	\$	-
Macrocore Samples (CPT only):	0	samples	@	\$	75.00	each	\$	-
Dissipation Testing (CPT only)	0	hours	@	\$	150.00	hour	\$	-
Bulk Samples	0	samples	@	\$	40.00	each	\$	-
Drilling/Project Coordination	8	hours	@	\$	85.00	per hour	\$	680.00
Staff Professional - Field Supervision (part time)	0	hours	@	\$	75.00	per hour	\$	-
GPS Rental:	1	days	@	\$	150.00	per day	\$	150.00
Clearing Subcontractor (cost plus 15% included with total):	1	days	@	\$	1,500.00	per day	\$	1,725.00
Utility Location Subcontractor (cost plus 15% included with total):	8	hours	@	\$	75.00	per hour	\$	690.00
Per Diem, per crew day	1	days	@	\$	185.00	per day	\$	185.00
Drilling Subtotal								\$ 6,330.00

Laboratory Testing

Natural Moisture Content	0	tests	@	\$	11.00	per test	\$	-
Soil Corrosivity Tests (pH and resistivity)	0	tests	@	\$	200.00	per test	\$	-
Atterberg Limits	0	tests	@	\$	65.00	per test	\$	-
Gradation Analysis (without hydrometer)	0	tests	@	\$	65.00	per test	\$	-
Gradation Analysis (with hydrometer)	0	tests	@	\$	140.00	per test	\$	-
Standard Proctor Compaction	0	tests	@	\$	175.00	per test	\$	-
California Bearing Ratio	0	tests	@	\$	250.00	per test	\$	-
Laboratory Consolidation Tests	0	tests	@	\$	500.00	per test	\$	-
3 Point Laboratory Triaxial Shear Tests (Remolded Samples)	0	tests	@	\$	500.00	per test	\$	-
3-Point Laboratory Triaxial Shear Tests (Undisturbed Samples)	0	tests	@	\$	400.00	per test	\$	-
Laboratory Permeability Tests (Remolded Samples)	0	tests	@	\$	400.00	per test	\$	-
Laboratory Subtotal								\$ -

Engineering Report Preparation

Report	1	item	@	\$	1,000.00	lump sum	\$	1,500.00
Engineering Subtotal								\$ 1,500.00

Lump Sum Fee \$ 7,830.00

7,330.00