



Richland County Transportation Ad Hoc Committee

December 16, 2021 - 4:00 PM

Council Chambers

2020 Hampton Street, Columbia, SC 29201

1. **CALL TO ORDER**

The Honorable Overture Walker

2. **APPROVAL OF MINUTES**

The Honorable Overture Walker

a. Regular Session: November 18, 2021 [PAGES 2-3]

3. **ADOPTION OF AGENDA**

The Honorable Overture Walker

4. **ITEMS FOR ACTION**

The Honorable Overture Walker

a. Dirt Road Package M [PAGES 4-16]

b. Atlas Rd. CE&I and Materials Testing [PAGES 17-28]

5. **ADJOURNMENT**



Transportation Ad Hoc Committee
November 18, 2021–4:30 PM
Council Chambers
2020 Hampton Street, Columbia, SC 29201

COMMITTEE MEMBERS PRESENT: Overture Walker, Chair, Bill Malinowski, Yvonne McBride, Paul Livingston and Jessica Mackey

OTHERS PRESENT: Allison Terracio, Michelle Onley, Derrek Pugh, Leonardo Brown, Patrick Wright, Lori Thomas, John Thompson, Michael Maloney, Allison Steele, Tamar Black, Justin Landy, Kyle Holsclaw, Jennifer Wladischkin, Stacey Hamm, Ashiya Myers, and Quinton Epps

1. **CALL TO ORDER** – Mr. O. Walker called the meeting to order at approximately 4:35 PM.

2. **APPROVAL OF MINUTES**

- a. **Regular Session: October 26, 2021** – Ms. McBride moved, second by Ms. Mackey, to approve the minutes as distributed.

In Favor: Malinowski, McBride, Livingston, O. Walker and Mackey

The vote in favor was unanimous.

3. **ADOPTION OF AGENDA** – Ms. McBride moved, seconded by Ms. Mackey, to adopt the agenda as published.

In Favor: Malinowski, McBride, Livingston, O. Walker and Mackey

The vote in favor was unanimous.

4. **ITEMS FOR ACTION**

- a. **Mitigation Credit Sales – Quick Trip Store in Lexington County** – Mr. Maloney stated staff recommends the credit sales of \$12,500/unit for wetland and \$125/credit for streams. The Quick Trip is using 2.21 credits in wetland and 900 credits in streams, which is broken down as 450 restoration and 450 preservation. Given those unit prices, the net proceeds to the County is \$131,972.09. The funds will be deposited in the Penny Tax fund.

Mr. Malinowski stated, for clarification, the mitigation bank is not strictly for use in Richland County.

Mr. Maloney responded in the affirmative.

Mr. Malinowski inquired as to what “HUC” stands for.

**Transportation Ad Hoc Committee
September 28, 2021**

-1-

Mr. Epps responded it stands for “Hydrologic Unit Code”, which is a measurement of the watershed.

Mr. O. Walker inquired if the sale of the credits would facilitate the construction of a Quick Trip Store in Lexington County, but the benefit to Richland County would be \$100,890.

Mr. Maloney responded in the affirmative.

Mr. Epps stated this would allow for the investment in conservation properties to be repaid.

Mr. Malinowski inquired if there is still enough conservation for future projects.

Mr. Epps responded in the affirmative.

Mr. Livingston moved, seconded by Ms. Mackey, to forward to Council with a recommendation to approve the mitigation credit sales.

In Favor: Malinowski, Livingston, O. Walker, and Mackey

Not Present: McBride

The vote in favor was unanimous.

- b. **Mitigation Credit Sales - Amick Farms rail upgrade in Saluda County** – Mr. Malinowski moved, seconded by Mr. Livingston, to forward to Council with a recommendation to approve the mitigation credit sales.

In Favor: Malinowski, McBride, Livingston, O. Walker and Mackey

The vote in favor was unanimous.

5. **ADJOURNMENT** – The meeting adjourned at approximately 4:42PM.



Agenda Briefing

Prepared by:	Michael Maloney, PE	Title:	Interim Director
Department:	Transportation	Division:	
Date Prepared:	November 24, 2021	Meeting Date:	December 16, 2021
Legal Review	Patrick Wright via email	Date:	December 01, 2021
Budget/Finance Review	Stacey Hamm via email	Date:	December 02, 2021
Approved for consideration:	Assistant County Administrator	John M. Thompson, Ph.D., MBA, CPM, SCCEM	
Committee	Transportation Ad Hoc		
Subject:	Dirt Road Package M		

STAFF'S RECOMMENDED ACTION:

The procurement process indicates the lowest, responsive, responsible bidder for Dirt Road Package M paving project is McClam & Associates in the amount of \$999,087.69 with a 15% contingency of \$149,863.15 for a total amount of \$1,148,950.84

Request for Council Reconsideration: Yes

FIDUCIARY:

Are funds allocated in the department's current fiscal year budget?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:

This will come from the \$4,273,637.57 currently available in the FY22 budget. (JL 13320302).

COUNTY ATTORNEY'S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:

None.

REGULATORY COMPLIANCE:

None applicable.

MOTION OF ORIGIN:

There is no associated Council motion of origin.

Council Member	
Meeting	
Date	

STRATEGIC & GENERATIVE DISCUSSION:

The Dirt Road Package M project consists of the paving of Bow String Rd., Maggie Hipp Rd., Rosa Dowdy Rd., and Tall Oaks Dr. This is approximately 0.72 miles of roadway, and these roadways are in Districts 1, 2, 9, and 10.

ADDITIONAL COMMENTS FOR CONSIDERATION:

The Engineer's Cost Estimate for this project was \$972,000.00, and the SLBE goal was 8.5%. There was one bidder that came in lower than McClam & Associates; however, that bidder only provided 5% of the SLBE goal and did not meet the good faith effort to achieve the goal.

There is a strong request by affected residents to commence this project package.

ATTACHMENTS:

1. Procurement Award Recommendation Letter
2. Dirt Road Package L Bid Tab



**Lindler's Construction of
South Carolina, LLC
(803) 276-6557
8253 SC-34
Newberry, SC 29108**

Date: 11/05/2021

The following documents will be record of good faith efforts to utilize and achieve the SLBE goal of 8.5% for the project of "Dirt Road Package M" by Lindler's Construction.

We have contacted and sent certified letters to the following companies seeking various quotes on October 27th, 2021:

CABRA Construction & Design, Inc – Asphalt Paving
Shady Grove Construction, LLC – Asphalt Paving
Southern Vistas, Inc – Asphalt Paving
Taylor Brothers Construction Company, Inc – Asphalt Paving
Chao & Associates, Inc – Surveying/ Staking
Construction Support Services, LLC – Surveying/Staking
Greens Landscaping & Lawn Service – Erosion Control

We have received receipts from five of the companies listed above, stating they have received our request which will be attached to this document.

As of todays date, 11/09/21, we have not received any quotes from these companies.

We will be using Carolina Wrecking for a portion of SLBE. They will be providing crushed Concrete to use as stone base. Roughly 5% of the bid total.

Cameron Unger
Cameron Unger
(804) 366-7953
cameron@lindlers.com
Estimator/ Project Coordinator
Lindler's Construction

Invitation to Bid



Project: Dirt Road Package M
Due Date for Bids: 11/6/2021 @ 11:00 A.M.
Submit Quote to: Lindler's Construction of SC, LLC. – Estimating Department
cameron@lindlers.com
Plan room: *Contact Cameron Unger for an emailed set of plans*

We are seeking SLBE subcontractor and vendor quotes for:

- Asphalt Paving
- Construction Stakes/Lines/Grades
- Traffic Control
- Erosion Control

*Please e-mail your "Bid Response" to us indicating your intent to Bid as soon as possible.

*Quotes should be e-mailed to the e-mail address above.

* All qualified bidders will not be discriminated against due to race, color, sex or country of origin.

For further information or coordination of your proposal, please contact:
Cameron Unger at (803)276-6557 ext 104

_____	WE WILL BE BIDDING
_____	WE WILL NOT BE BIDDING
Company Name _____	
Person to Contact _____	
Bidding _____	
(Please Circle All That Apply)	DBE WBE MBE SLBE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Construction Support
PO Box 90408
Columbia, SC 29290



9590 9402 5863 0038 4038 77

Article Number (Transfer from service label)

7021 0950 0000 4451 2864

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature *[Signature]* Agent
- B. Received by (Printed Name) Addressee
- Domestic*
- C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

P.O. Box 90408
NOV 04 2021

- 3. Service Type, Priority Mail Express®
- Adult Signature Required Delivery Registered Mail™
- Certified Mail® Registered Mail Restricted Delivery
- Certified Mail Restricted Delivery Return Receipt for Merchandise
- Collect on Delivery Restricted Delivery Signature Confirmation™
- Insured Mail Restricted Delivery (over \$500) Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

*Greens Landscaping
 3300 Cedar Creek Rd
 Bluffton SC 29916*



9590 9402 5863 0038 4038 46

2. Article Number (Transfer from service label)

7021 0950 0000 4451 2857

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
[Signature] Addressee
 B. Received by (Printed Name) Date of Delivery
[Signature] 11-4-21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

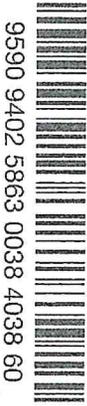
Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

2204 Academy St
Columbia, SC
29203



9590 9402 5863 0038 4038 60

2. Article Number (Transfer from service label)
7021 0950 0000 4451 2925

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 103

Agent
 Addressee

B. Received by (Printed Name)

Pod Wiliam

C. Date of Delivery

Oct 29, 2011

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

2201 Atlas Rd
Columbia SC
29209



9590 9402 5863 0038 4038 91

702J 0950 0000 445J 288B

COMPLETE THIS SECTION ON DELIVERY

A. Signature
RT

Agent
 Addressee

B. Received by (Printed Name)
Clay RFS

C. Date of Delivery
10-29-21

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt :

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

7 Clusters Ct.
Columbia, SC 29210

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 X *AMAD* Addressee

B. Received by (Printed Name) Date of Delivery
COVID-19

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



9590 9402 5863 0038 4038 84

Transfer from service label)

702J 0950 0000 445J 287J

PS Form 3811, July 2015 PSN 7530-02-000-9053

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SMALL LOCAL BUSINESS ENTERPRISE (SLBE) PARTICIPATION SHEET

Small Local Business Enterprises

Small Local Business Enterprises

The COUNTY encourages CONTRACTORS to utilize firms from the COUNTY's SLBE certified directory where applicable. Additionally, the CONTRACTORS must complete the information below on each certified firm and submit it with its Solicitation response.

Information relative to the COUNTY's SLBE Ordinance and its [Directory of Certified SLBEs](http://www.rcgov.us) can be found on the COUNTY's website at: <http://www.rcgov.us>

Information must be completed on this sheet and submitted with bid/proposal.

1.Name & Address of SLBE (Subcontractor or Supplier)	SLBE Firm	Scope/Type of Work	2.Estimated Percentage & Amount of Total Contract
Carolina Wrecking 141 Cort Rd Columbia, SC 29203	Carolina Wrecking	supplier	4.5 %

I hereby certify that this firm has been contacted and accepted the scope / type of work listed above. Furthermore, I hereby certify that SLBEs listed above are willing to perform the work and that I am committed to utilizing the above firm(s) on this contract. This form may be reproduced or additional sheets added in order to provide all requested information.

I declare under penalty of perjury that the information provided herein is true and correct.

Firm Name: Lindler's Construction of SC

Signature:  Date: 11/9/2021

SWORN before me this 9th day of November, 2021

Notary Name (Printed):

Grady O. Lindler Jr.

Notary Signature:



My Commission Expires: 10 Feb 2030

HMH Contractors LLC

dba

Carolina Concrete & Asphalt Recycling

141 Cort Road (main office) 6421 Fairfield Road (recycling yard)

Columbia, South Carolina 29203

Concrete and Asphalt Crushing, Removal & Disposal

Tel: 803/333-0599

Fax: 803/333-0962

Make checks payable to **Carolina Concrete & Asphalt Recycling, Inc. (CCAR)**

CONCRETE AND ASPHALT PURCHASE

Crushed Concrete	\$10.00 per ton + sales tax (8%)
Crushed Asphalt	\$20.00 per ton + sales tax (8%)
Crushed Brick	\$10.00 per ton + sales tax (8%)
Shake Out Dirt	\$40.00 per load + sales tax (8%)

All loads must have a ticket. Be sure to complete purchaser name, address, and phone number for accounting. All sales are prepaid unless approved by the office.

Make checks payable to **Carolina Concrete & Asphalt Recycling, Inc. (CCAR)**

CONCRETE AND ASPHALT DISPOSAL

Small Truck (Pickup load or small single axle)	\$ 50.00
Tandem axle truck	\$ 75.00
Tri-axle dump truck	\$100.00
Dump Trailer	\$125.00
Loads with rebar	\$100.00 <u>per load extra</u>

All prices are per load. **All disposals must be pre-approved.** Concrete and asphalt must be separated. All loads must be free from other debris or other metal. Supervisor at the dump has the right to refuse any load that he feels we cannot use. All loads must have a ticket. Be sure to complete purchaser name, address, and phone number for accounting. All sales are prepaid unless approved by the office.

Make checks payable to **Carolina Concrete & Asphalt Recycling, Inc. (CCAR)**

Hours of Operation - Mon/Thur 7:00 - 5:00 - Fri 7:00 - 11:30 - Sat/Sun Closed

We now accept credit cards for payment. Account holders with balances older than 30 days will be placed on hold until their account balance is paid.

Recycled PCC

Section 305 of the SCDOT's "Standard Specifications for Highway Construction, Edition of 2000" states that the contractor, at his or her option, may use Macadam Base, Marine Limestone Base, or Recycled Portland Cement Concrete Base when the contract specifies a graded aggregate base course. Experience has shown that the recycled concrete base provides an equivalent structural number to traditional base courses using virgin material. The recycled concrete aggregate must consist of sound, durable particles of crushed concrete, excluding block or pipe. When the contractor selects Recycled Portland Cement Concrete Base Course, the source is inspected, sampled, and tested before being approved by the Department.

Chrome and Steel Slag

In South Carolina, chrome and steel slag have been used successfully in HMA on low volume routes where a lack of quality crushed stone aggregates makes the use of slag economically feasible. There is no longer a source of chrome slag in South Carolina, but there are sources of steel slag in the state. In April 1994, the SCDOT contracted with the National Center for Asphalt Technology (NCAT) at Auburn University to investigate the feasibility of using both chrome and steel slag in HMA for high volume roads.

Old concrete that has reached the end of its service life can be recycled and reused as aggregate for new concrete mixtures.

Concrete yields 45% to 80% usable coarse aggregate and can be crushed and reused in new concrete or as a base material.

Cement Americas



Total Cost	Cherokee, Inc. \$1,085,302.55	Corley Construction Company, LLC \$1,096,780.88	Lindlers construction \$ 784,252.35	McClam and Associates Inc \$999,087.69
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**RICHLAND COUNTY
ADMINISTRATION**

2020 Hampton Street, Suite 4069
Columbia, SC 29204
803-576-2050



Agenda Briefing

Prepared by:	Michael Maloney, PE	Title:	Interim Director
Department:	Transportation	Division:	
Date Prepared:	November 24, 2021	Meeting Date:	December 16, 2021
Legal Review	Patrick Wright via email	Date:	December 01, 2021
Budget/Finance Review	Stacey Hamm via email	Date:	December 02, 2021
Approved for consideration:	Assistant County Administrator	John M. Thompson, Ph.D., MBA, CPM, SCCEM	
Committee	Transportation Ad Hoc		
Subject:	Atlas Rd. CE&I and Materials Testing		

STAFF'S RECOMMENDED ACTION:

Staff requests Council to approve the award of the Construction, Engineering & Inspection and the Materials Testing Work Authorization to F&ME for the Atlas Rd. Widening Project in the amount of \$1,179,994.00. Staff also requests Council approve a 15% contingency in the amount of \$176,999.10 for a total amount of \$1,356,993.10.

Request for Council Reconsideration: Yes

FIDUCIARY:

Are funds allocated in the department's current fiscal year budget?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:

This will come from the \$6,955,438.65 currently available in the FY22 budget. (JL 13320001)

COUNTY ATTORNEY'S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:

None.

REGULATORY COMPLIANCE:

None applicable.

MOTION OF ORIGIN:

There is no associated Council motion of origin.

Council Member	
Meeting	
Date	

STRATEGIC & GENERATIVE DISCUSSION:

The Atlas Rd. Widening project is anticipated to take 3 years to complete construction. This project is in the final permitting stage, and construction advertisement is expected to take place in January 2022.

Due to the size and complexity of this project, it will require full-time inspection every day that construction is taking place. On average, during the majority of the project a minimum of 2 inspectors will be required daily, and during some of the heavier construction periods the project will require 3 inspectors.

This project will also require materials sampling and testing in accordance with SCDOT specifications. This will require field density testing, asphalt plant sampling, and concrete sampling\testing.

The fee included in attachment 1 covers both the CE&I services and the materials sampling\testing required for this project.

ADDITIONAL COMMENTS FOR CONSIDERATION:

F&ME is currently on both Transportation's approved on-call CE&I and on-call Materials Testing lists.

ATTACHMENTS:

1. F&ME Fee Proposal

September 15, 2021

Ms. Allison Steele
Assistant Director
Richland County Transportation Department
2009 Hampton Street
Columbia, SC 29204

Re: Proposal for Construction Engineering and Inspection Services, Sampling and Testing
Atlas Road Widening
Atlas Road
Richland County, South Carolina
FME Proposal No.: C2021037 R2

Dear Ms. Steele:

FME Consultants, Inc. (FME) is pleased to provide this proposal for construction engineering and inspection (CE&I) services and sampling and testing during the construction phase of the Atlas Road Widening Project in Richland County, South Carolina. We have provided a project description, scope of services, and fee for FME's proposed services.

Sincerely,
FME



Jeffrey D. Kinard, PE
Senior Project Engineer



Madison P. DeVine, PE
Special Inspections Manager

Acceptance of this proposal can be acknowledged by the client signing and returning a copy of this document.

Authorized Representative

Date



PROJECT INFORMATION

FME understands that this project consists of the widening of Atlas Road and associated intersections improvements from approximately one thousand feet southwest of the intersection of Atlas Road and Shop Road to the intersection of Atlas Road and Garners Ferry Road. The project consists of widening Atlas Road from the existing two lanes to four travel lanes with a median, bicycle paths, and sidewalks. Also included in the project is the extension of two major drainage culverts as well the relocation of associated utilities and storm drainage.

FME understands that a Project Manager will be provided by Richland County. FME will support this project with multiple Senior Inspectors, Mid-Level Inspectors, a Survey Crew, an Administrative Assistant, and a Assistant Project Manager. FME also understands the manpower needed on this project will fluctuate as the project progresses. FME will also be providing material sampling and laboratory testing and asphalt plant inspection on this project.

FME was provided with a set of construction plans prepared by Cox and Dinkins, Inc. dated May 19, 2021. A construction schedule was not provided at the time of this proposal; Richland County developed an estimated construction schedule, and this schedule was used as a baseline for the assumptions used in the estimate.

SCOPE OF WORK

FME's services will be provided on a full-time basis with the number of inspectors dependent upon the magnitude of work. FME proposes the following scope of work:

Construction Engineering and Inspection and Material Sampling and Testing

CEI Group Manager

- Coordination with Richland County on schedule
- Administer Contract with Richland County.
- Review and process F&ME's invoice to Richland County

Assistant Project Manager Duties

- Coordination with Richland County, Contractor and FME staff on Inspection for project.
- Coordination with Richland County, Contractor and FME staff on sampling and testing for the project.
- Coordination with Richland County, Contractor and FME staff on asphalt plant inspection for the project.
- Coordination with Richland County on issues with construction.
- Track and record daily pay quantities for monthly Construction pay application verification.
- Verify and make a recommendation to Richland County on monthly contractor pay quantities.
- Proof Daily Work Reports from inspection staff.
- Collect required paperwork such as material tickets, required construction forms from staff.
- Proof required paperwork from inspection staff.
- Attend project meetings as requested.
- Proof sampling and testing reports.

- Proof plant inspection reports and test results
- Coordination with administrative assistant for transmittal of required reports and forms.

Administrative Assistant Duties

- Collection of files from inspection staff including Daily Work Reports, Project Construction Forms (traffic control and erosion control inspection reports, daily tonnage verification reports, asphalt roadway reports, 700 forms, concrete tickets, asphalt tickets, proof roll verifications reports, etc.).
- Collection of material sampling and testing reports
- Collection of asphalt plant inspection reports
- Organization and transmittal of all reports to Richland County.
- Proof and transmit weekly timesheets to Richland County.

Inspector Duties

- Perform inspection in accordance with SCDOT specifications for contractor pay items
- Complete daily work report to record job progress, conditions, and to record daily pay items
- Complete required construction forms including but not limited to the following:
 - Proof Roll Verification Reports
 - Compaction by Nuclear Gage Reports
 - Pipe Compaction Installation Reports
 - Depth Check Records
 - Density Test Reports for Base
 - HMA Daily Tonnage Verification Reports
 - HMA Asphalt Roadway Reports
 - Concrete Pre-pour Checklist
 - Structural Concrete 700 forms
 - Traffic Control Inspection Reports (weekly and monthly nighttime)
 - Erosion Control Inspection Reports (weekly)
 - Rain Log
 - Seeding Inspection Forms
 - Sediment and Grading Stabilization Log
- Obtain and deliver required sample for testing.
- Log collected samples for testing.
- SCDOT Level III certified asphalt inspector will perform asphalt plant testing and sampling as required by SCDOT specifications.
- Asphalt plant inspector will provide proper documentation of tests performed and samples collected.

Survey Crew

- Survey verification of required items as requested by the Richland County Project Manager.

FEE

The actual cost of our services is dependent on the construction schedule, final material quantities for the project, and the quality of construction (workmanship) of the contractor/subcontractor(s). We propose to provide our services on a unit cost basis according to the **unit rates** included with this proposal. FME recommends a **budget of \$1,179,994.00** that is based upon the below assumptions. A breakdown is provided in Exhibit B. Invoices will be submitted monthly.

LIMITATIONS AND ASSUMPTIONS

- a) FME assumes project duration is 3 years/36 months (18 months of inspection and material sampling and testing) with a work schedule of Monday through Friday at 8 hours per day/40 hours per week as needed for inspections per inspector.
- b) Project duration is based on a preliminary schedule provided by Richland County of 18 months of utility relocation (no inspection) and 18 months of construction.
- c) The FME budget was developed utilizing the previously approved Richland County Penny Transportation rates. These unit rates are attached in Exhibit A.
- d) A representative of Richland County will be responsible for scheduling FME staff with the assistant project manager with at least 48-hour notice.
- e) FME staff will be responsible for following FME and SCDOT safety policies. Site safety will be the responsibility of the contractor.
- f) Materials Sampling and Testing is included in this proposal.
- g) Laboratory Testing is included in this proposal.
- h) Material sampling and testing included in this proposal is limited to the quantities shown on the estimate sheet below. FME will not exceed these estimated quantities without written consent from Richland County.
- i) Utility coordination is excluded from this proposal.
- j) Final submission of Daily Work Reports and other SCDOT Forms will be the responsibility of the Richland County Project Manager and is excluded from this proposal.
- k) Reviewing or evaluating Change Orders from the contractor is excluded from this proposal.
- l) Reviewing or evaluating the Construction Schedule is excluded from this proposal.
- m) Evaluating plan reviews and value engineering submittals is excluded from this proposal.
- n) Coordination with railroad owner is excluded from this proposal. (Ex: CSX or Norfolk Southern).
- o) Inspection of work within the Railroad ROW, with exception of permitted work related to this contract, is excluded from this proposal.
- p) Retention of project files will be the responsibility of Richland County.

EXHIBIT A

F&ME Consultants, Inc

Date: 11/1/2019

UNIT RATE SHEET

Classification			Pay Unit		Consult. Unit Rates
Senior Principal			\$ per hour		\$250.00
Project Principal			\$ per hour		\$225.00
Senior Geotechnical Engineer			\$ per hour		\$175.00
Geotechnical Engineer			\$ per hour		\$150.00
Junior Geotechnical Professional			\$ per hour		\$95.00
Project Geologist			\$ per hour		\$90.00
Engineering Technician			\$ per hour		\$85.00
Senior Environmental Specialist			\$ per hour		\$125.00
Environmental Specialist			\$ per hour		\$85.00
CEI Group Manager			\$ per hour		\$200.00
CEI Project Manager			\$ per hour		\$195.00
CEI Assistant Project Manager			\$ per hour		\$185.00
Sr. Inspector			\$ per hour		\$110.00
Mid-Level Inspector			\$ per hour		\$85.00
Jr. Inspector			\$ per hour		\$75.00
Plant Inspector			\$ per hour		\$105.00
Graphics Designer			\$ per hour		\$72.00
Administrative Assistant			\$ per hour		\$65.00

EXHIBIT B



Project Summary

Summary of Estimated Cost From Task Detail

F&M Office Total	\$312,780.00
F&M FIELD TOTAL	\$528,840.00
Materials Field Sampling and Laboratory Testing	\$280,084.00
Survey Verification	\$38,400.00
CEPSCI Inspection	\$19,890.00
CPM Schedule Review	\$0.00
PDA Testing	\$0.00
Project Total	\$1,179,994.00

Classification

	Hourly Rate
Senior Principle Engineer	\$250.00
Project Principle	\$225.00
Senior Geotechnical Engineer	\$175.00
Geotechnical Engineer	\$150.00
Junior Geotechnical Professional	\$95.00
Project Geologist	\$90.00
Engineering Technician	\$85.00
Senior Environmental Specialist	\$125.00
Environmental Specialist	\$85.00
CEI Group Manager	\$200.00
CEI Project Manager	\$195.00
CEI Assistant Project Manager	\$185.00
Senior Inspector	\$110.00
Mid-Level Inspector	\$85.00
Junior Level Inspector	\$75.00
Asphalt Plant Inspector	\$105.00
Graphics Designer	\$72.00
Administrative Asssistant	\$65.00

Unit Rates

	Units	Rate	
Testing			
Soil Classification	each	\$199.50	
Loss of Ignition	each	\$105.00	
Bulk Unit Weight	each	\$100.00	
Specific Gravity	each	\$65.00	
Grain Size Distribution w/o Hyd.	each	\$65.00	
Grain Size Distribution w/ Hyd.	each	\$180.00	
Grain Size Distribution w/ wash 200 Sieve	each	\$105.00	
Atterburg Limits	each	\$82.00	
Moisture Contents	each	\$12.50	
Triaxial - CU w/ pore pressure measurements	each	\$1,000.00	
Direct Shear	each	\$910.00	
Standard Proctor Test	each	\$105.00	
Modified Proctor	each	\$155.00	
CBR Test @ 90%, 95%, 100%	each	\$550.00	
Unconfined Rock Compressive Strength	each	\$385.00	
Unconfined Compressive Strength of Soils	each	\$110.00	
Cement Testing	each	\$1,250.00	
Flyash Testing	each	\$1,200.00	
4" Concrete Compression Strength Testing of Cylinders (SET OF 3)	each	\$75.00	
Rebar Testing up to #10	each	\$300.00	
Rebar testing Greater than #10	each	\$350.00	
Bituminous Mixture Extraction	each	\$150.00	
Organic Content	each	\$77.00	
Aggregate Sieve Analysis	each	\$95.00	
PDA Testing			
Dynamic Pile Analyzer	per day	\$600.00	
Geophysical			
Field Operation of Ground Penetrating Radar	hour	\$220.00	Includes equipment and tech, no data reductions or processing
General			
Survey Verification	per day	\$1,280.00	
Pavement Coring	each	\$170.00	

F&ME Consultants
Materials Field Sampling and Testing
Atlas Road Widening
Task Detail
Thursday, September 16, 2021



Prepared by: JDK

Project Duration

1.50 years

Task	Item	Quantity	Units	Rate	Total	Comments	
1	Main Office Support						
		Project Principle	0	hours	\$225.00	\$0.00	
	F&ME	CEI Group Manager	156	hours	\$200.00	\$31,200.00	Coordination with Richland County, invoice review, attend meetings as required 2 hrs per week
		CEI Project Manager		hours	\$195.00	\$0.00	
	F&ME	CEI Assistant Project Manager	1,248	hours	\$185.00	\$230,880.00	Coordination for inspection, reviewing invoice, scheduling inspectors, tracking of monthly pay quantities, meetings, construction pay app review, proofing field reports, 16 hr per week
		Senior Geotechnical Engineer	0	hours	\$175.00	\$0.00	
	F&ME	Administrative Asssistant	780	hours	\$65.00	\$50,700.00	Field reports collection and organization and transmittal - 10 hours per week, added review for planmt inspection reports
		Salary Total				\$312,780.00	
		Travel		miles		\$0.00	
		Motel Expense		days		\$0.00	
	Per Deim		days		\$0.00		
	Directs				\$0.00		
Task Total					\$312,780.00	F&ME Office Total	
2	Inspection						
		<u>Roadway Inspection</u>					
	FME01	Senior Inspector	3,120	hours	\$110.00	\$343,200.00	40 hours per week for 18 months - Full time
	FME02	Junior Level Inspector	1,560	hours	\$75.00	\$117,000.00	40 hours per week for 12 months - Storm Drain, curb, misc
	FME03	Senior Inspector	624	hours	\$110.00	\$68,640.00	40 hours per week for 4 months - Asphalt
		Salary Total				\$528,840.00	
		Vehicle Charge	0	Days	\$38.07	\$0.00	Local Project in Richland County - Daily Rate Waved
		Directs				\$0.00	
		Subtotal				\$528,840.00	
		Additional Inpection Support As Needed					
		not used	0	hours	\$0.00	\$0.00	
		not used	0	hours	\$0.00	\$0.00	
		not used	0	hours	\$0.00	\$0.00	
		not used	0	hours	\$0.00	\$0.00	
		Salary Total				\$0.00	
Task Total					\$528,840.00	F&ME FIELD TOTAL	
3	Materials Field Sampling and Laboratory Testing						
		CEI Assistant Project Manager	390	hours	\$185.00	\$72,150.00	Coordination for sampling and testing, reviewing invoice, scheduling staff, proofing field and test reports, added coordination for plant inspection
		Senior Inspector	468	hours	\$110.00	\$51,480.00	Inspection staff for sampling and testing
		Mid-Level Inspector	468	hours	\$85.00	\$39,780.00	Inspection staff for sampling and testing
		Geotechnical Engineer		hours	\$150.00	\$0.00	
		Administrative Asssistant	156	hours	\$65.00	\$10,140.00	Sampling and testing reports organization and transmittal to Richland County 2 hours per week
		Direct Salary + OH + Fee				\$173,550.00	
		<u>ASPHALT PLANT INSPECTION</u>					
		Asphalt Plant Inspector	360	hours	\$105.00	\$37,800.00	Assume 4 hours/day of production
		not used		hours	\$0.00	\$0.00	
		Salary Total				\$37,800.00	
		Pavement Coring		each	\$170.00	\$0.00	
		Vehicle Charge		Days	\$38.07	\$0.00	
		Directs				\$0.00	
		LABORATORY TESTING					
		Allowance for Laboratory Testing Concrete Testing	1	each	\$42,650.00	\$42,650.00	Laboratory testing
		Allowance for Laboratory Testing Roadway	1	each	\$26,084.00	\$26,084.00	Laboratory testing
		Non-Salary				\$68,734.00	
Task Total					\$280,084.00	Total for Materials Sampling and Testing	
4	Survey Verification CSS	30	days	\$1,280.00	\$38,400.00	For survey verification of grades and alignments	
CSS J. Joshi							
Task Total					\$38,400.00	Total for Survey Verification	
5	CEPSCI Inspection						
	DESA	Mid-Level Inspector	234	hours	\$85.00	\$19,890.00	Erosion Control Inspection and report, 3 hours per week for 18 months
		Not Used	0	hours	\$0.00	\$0.00	
		Direct Salary + OH + Fee				\$19,890.00	
		Travel		miles	\$0.50	\$0.00	
	Subtotal				\$0.00		
Task Total					\$19,890.00	Environmental Compliance	



Testing Cost Breakdown

Description	Unit	Cost Each	Est. No. Req.	Subtotal	Comments
Soil Classification	each	\$199.50	92	\$18,354.00	Borrow Testing and onsite soils testing
Loss of Ignition	each	\$105.00		\$0.00	
Bulk Unit Weight	each	\$100.00		\$0.00	
Specific Gravity	each	\$65.00		\$0.00	
Grain Size Distribution w/o Hyd.	each	\$65.00		\$0.00	
Grain Size Distribution w/ Hyd.	each	\$180.00		\$0.00	
Grain Size Distribution w/ wash 200 Sieve	each	\$105.00	35	\$3,675.00	Concrete Materials Testing
Atterburg Limits	each	\$82.00		\$0.00	
Moisture Contents	each	\$12.50		\$0.00	
Triaxial - CU w/ pore pressure measurements	each	\$1,000.00		\$0.00	
Direct Shear	each	\$910.00		\$0.00	
Standard Proctor Test	each	\$105.00	4	\$420.00	Earthwork, Unclassified and Borrow
Modified Proctor	each	\$155.00	2	\$310.00	Stone Base
CBR Test @ 90%, 95%, 100%	each	\$550.00		\$0.00	
Unconfined Rock Compressive Strength	each	\$385.00		\$0.00	
Unconfined Compressive Strength of Soils	each	\$110.00		\$0.00	
Cement Testing	each	\$1,250.00	7	\$8,750.00	
Flyash Testing	each	\$1,200.00	7	\$8,400.00	
4" Concrete Compression Strength Testing of Cylinders (SET OF 3)	each	\$75.00	236	\$17,700.00	
Rebar Testing up to #10	each	\$300.00	26	\$7,800.00	
Rebar testing Greater than #10	each	\$350.00		\$0.00	
Bituminous Mixture Extraction	each	\$150.00		\$0.00	
Organic Content	each	\$77.00		\$0.00	
Aggregate Sieve Analysis	each	\$95.00	35	\$3,325.00	Stone Base and Concrete Materials
Geophysical					
Field Operation of Ground Penetrating Radar	hour	\$220.00		\$0.00	
Total				\$68,734.00	