COUNTY COUNCIL OF BEAUFORT COUNTY

ADMINISTRATION BUILDING 100 RIBAUT ROAD POST OFFICE DRAWER 1228 BEAUFORT, SOUTH CAROLINA 29901-1228 TELEPHONE: (843) 255-1000

D. PAUL SOMMERVILLE CHAIRMAN

STEWART H. RODMAN VICE CHAIRMAN

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GARY KUBIC COUNTY ADMINISTRATOR

BRYAN J. HILL DEPUTY COUNTY ADMINISTRATOR

JOSHUA A. GRUBER COUNTY ATTORNEY

SUZANNE M. RAINEY CLERK TO COUNCIL

AGENDA
PUBLIC FACILITIES COMMITTEE
Monday, December 16, 2013

2:00 p.m.

Conference Room, Building 2 Beaufort Industrial Village 102 Industrial Village Road, Beaufort

Committee Members:

Gerald Dawson, Chairman Steve Fobes, Vice Chairman Cynthia Bensch Rick Caporale Brian Flewelling William McBride Jerry Stewart Staff Support: Rob McFee, Division Director

1. CALL TO ORDER - 2:00 P.M.

2. DISCUSSION ITEMS

- A. Palmetto Electric Cooperative (PEC) Agreement for Bluffton Parkway Phase 5A Segment (backup)
- B. Change Order #4 for Bluffton Parkway Phase 5A Segment 2 Construction (backup)
- C. Change Order #12 for SC Highway 170 Widening (backup)

3. ADJOURNMENT







COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY ENGINEERING DIVISION

Building 3, 102 Industrial Village Road Post Office Drawer 1228, Beaufort, SC 29901-1228 Phone: (843) 225-2700 Fax: (843) 225-9420

TO:

Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA:

Gary Kubic, County Administrator

Bryan Hill, Deputy County Administrator
Alicia Holland, Chief Financial Officer
Robert McFee, Director of Engineering and Infrastructure
Monica Spells, Compliance Officer

Dave Thomas, Purchasing Director

FROM:

Colin Kinton, County Traffic & Transportation Engineer

SUBJ:

PALMETTO ELECTRIC COOPERATIVE (PEC) AGREEMENT

FOR BLUFFTON PARKWAY PHASE 5A SEGMENT 2

DATE:

December 2, 2013

BACKGROUND. Beaufort County has received an agreement from PEC for the relocation of their overhead electrical power lines located on the southern side of the Hilton Head Island causeway. The agreement will relocate PEC infrastructure as part of the construction of the Bluffton Parkway Phase 5A Segment 2 roadway/flyover bridges with a total estimated cost of \$267,150. Utility relocation costs for the Bluffton Parkway Phase 5 construction are paid for from sales tax project funds. Account #33401-54500.

FOR ACTION. Information only item presentation to the Public Facilities Committee on December 16. 2013.

RECOMMENDATION. The PEC utility relocation agreement for the Bluffton Parkway Phase 5A Segment 2 Sales Tax Project is presented for information only. No formal action is required. The relocation of utility infrastructure conflicts during the construction process is inherent to the utility's ownership and has to be completed by the utility.

CK/mih

Attachment:

PEC Utility Agreement

Contract/BP5ASeg2/PEC Utility Reloc



One Cooperative Way

Hardeeville, SC 29927-5123

843-208-5551

November 11, 2013

Rob McFee, PE Engineering Manager, Beaufort County South Carolina Department of Transportation 102 Industrial Village Drive, Bldg. 3 Beaufort, SC 29906

Re: Utility Agreement – Hilton Head Island Causeway

Dear Rob:

Please find enclosed the proposal for the relocation of the overhead electrical power lines located on the southern side of the Hilton Head Island Causeway. We are working with William Barrett on securing the necessary environmental permits and SCDOT on an encroachment permit adjacent to the new roadway for splice pit locations.

The updated estimate for this work is Two Hundred Sixty-seven Thousand One Hundred Fifty (\$267,150.00) Dollars.

Thank you for your assistance and cooperation regarding this matter. Please contact me at (843) 208-5508 or via email bcasavant@palmetto.coop if you have any questions or if I may be of further assistance.

Sincerely,

PALMETTO ELECTRIC COOPERATIVE, INC.

Robert J. Casavant, PE

Manager, Engineering Services

RJC:sdr

Encl.

UTII	LITY AGREEMENT
S. C. File No	Route (or Road No.) Bluffton Parkway 5A Causeway
F. A. Project No.	State Project No.
This Agreement made this 15th day of	November, 2013, by and between Beaufort County, hereinafter called
'County" and the	
Palmetto Electric Cooperative, Inc.	hereinafter called "Company".
w i	TNESSETH:
 It is mutually agreed by and between the parties here following work to its utility property facilities as sho 	to that the Company shall perform or cause to be performed, the own on the attached plans and estimate:
	and Power Line and Poles and replace with Underground Power Line.
MacKey Creek Bridge approximate Station # 194+6	Boring Technologies from East Bound Ramp Station # 166+00 to 00.
Carolina Department of Transportation "A Policy for A amount of Two Hundred Sixty Seven Thousand One Hu \$ 267,150.0	
County Share 100%	Utility Share
easement, or other real property interest, the di Company does not have the right of occupancy other real property interest, (Explain)	ght of occupancy in its existing location by reason of holding the fee, an amaging or taking of which is compensable in eminent domain. If they in its existing location by reason of holding the fee, an easement of the in 1954 to serve Hilton Head Island and has been maintained
Easement for this project is filed in Beaufort, So (City a	Beaufort (County) C nd State)
(b) This section of line (for purposes of establishi	ng right-of-way priorities only) has been in service for approximately

(c) Such work as is necessary to relocate, alter or maintain the facility will be done in such a manner that it will not in any way interfere with or endanger the safety of the general public in their use of the roads as a highway. Traffic control and signing will be coordinated with the County's contractor and will be in accordance with "The South

Carolina Manual on Uniform Traffic Control Devices for Streets and Highways" (SCMUTCD).

Agreement #

- 3. The Company shall begin said work promptly upon notification in writing by the County or County agent and dispatch to its completion as promptly as is practicable. The Company shall provide advance notice to the County's Project Engineer or County agent of the date on which work is expected to begin.
- 4. The Company will perform the work provided for in this agreement by the method checked below, in accordance with the provisions of Sec.645.115 of FAPG 23 CFR 645A:
- (X) BY COMPANY'S REGULAR FORCES
- (X) BY CONTRACT: (State one of recognized reasons for necessity of performing work in this manner)

Trenchless boring requires specialized equipment and crews.

The Company, therefore, subject to prior approval, proposes to contract a portion of or all of the work covered by this agreement. The items of work to be accomplished by contract are noted in the estimate. Where the Company elects to solicit competitive bids from a list of qualified contractors rather than through advertising in a publication, the names and addresses of those contractors so circularized shall be noted on the estimate or furnished to the County or County agent in advance of the Company's solicitation of bids.

- () BY EXISTING CONTINUING CONTRACT: Subject to prior approval and inspection by the County or County agent and the prior approval of the contract method by the Federal Highway Administration, the Company proposes to use an existing continuing contract under which it is demonstrated that such work is regularly performed for the Company under such contracts at reasonable costs. The provisions relating to contracts under this paragraph also apply to Contract Engineering.
- 5. The County will reimburse the utility company for costs incurred in accordance with the agreement as shown and on accurate records supporting all expenditures incurred on account of said work. The method of developing the relocation costs shall be one of the following alternatives.
- (x) (a) Actual and related direct costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.
- () (b) Unit costs, such as broad gauge units of property, as used in own operations. (This method must have prior approval.)
- () (c) Lump Sum

The County may not pay for any item of work not provided for in the plan or in the cost estimate except as modified by the County Engineer or County agent followed by written notification to the County or County agent.

- 6. All work performed by the Company pursuant hereto, shall be performed according to the plans and estimates approved by the County or County agent.
- 7. Attached hereto, and by reference made a part hereof, is one copy of plans and estimates of the work to be performed by the Company showing the existing facilities, permanent changes to be made therein, and the stages by which these changes are to be accomplished.
- 8. Credits for accrued depreciation (expired service life) and/or betterment of the facility have been allowed as outlined in Sec.645.117(h) of FAPG 23 CFR 645A.

9. Periodic progress billings of incurred costs may be made by the Company to the County through the County agent not to exceed monthly intervals and amounting to at least \$2500.00; however, total progress billing payments shall not exceed the approved nonbetterment estimated amount.

Upon completion of the work and no later than six months thereafter, the Company shall, at the earliest date practicable, furnish the County or County agent with five (5) copies of its final and complete billing of all costs incurred in connection with the work performed hereunder, such statement to follow as closely as possible the order of the items contained in the estimate. The totals for labor, overhead construction cost, travel expense, transportation, equipment, material and supplies, handling cost and other services shall be shown in such a manner as will permit ready comparison with the approved plans and estimates. Items of materials shall be itemized where they represent major components.

Credit shall be given for usable materials recovered from permanent or temporary installations. The final billing shall show the description and site of the project, the Federal Aid Project Number if applicable, the date on which the first work was performed; or, if preliminary engineering or right-of-way items are involved, the date on which the earliest item of billed expense was incurred, the completion date and the location where the records and accounts billed can be audited. The Company shall make adequate reference in the billing to its records, accounts and other documents. Contractors and any subcontractors are to maintain all books, documents, papers, accounting records and other evidence pertaining to costs incurred and to make such materials available at their respective offices at all reasonable times during the contract for inspection by the County, County agent, Federal Highway Administration or any authorized representatives of the Federal or State Government and copies thereof shall be furnished if requested.

Final billings of incurred costs submitted by the Company shall carry a statement certifying that all items claimed have been reviewed and are in conformity with the provisions of the agreement; that credits have been given for all salvaged materials as required, and that all contractor's bills incurred have been paid in full. This statement shall be signed by an authorized representative of the Company.

In the event a final and complete billing has not been received by the County or County agent prior to six months following the completion of work and the Company has not during that period demonstrated to the County's or the County agent's satisfaction a hardship in completing that billing, the County may, in its sole discretion, consider the last payment made to be the final payment due under this Agreement.

- 10. The County, County Agent, and the Federal Highway Administration shall have the right to inspect recovered materials from the permanent facility prior to disposal by sale or scrap. This requirement will be satisfied by the Company giving notice to the County or County agent of the time and place the materials will be available for inspection. This notice is the responsibility of the Company and it may be held accountable for full value of materials disposed of without notice. The County, County agent, and the Federal Highway Administration shall have the right to inspect all recovered materials, which are not reusable by the Company, for temporary use. The Company shall furnish a listing on final billings of major items not eligible for salvage credit, and reasons therefor.
- 11. The Company will abide by the contract cost principles as set forth in FAPG 23 CFR 645A.
- 12. The Company will not participate directly or indirectly in any practice which subjects persons to discrimination because of their race, color, religion, sex or national origin.

	COMPANY: ADDRESS:	PALMETTO ELECTRIC COOPERATIVE, INC. ONE COOPERATIVE WAY HARDEEVILLE, SC 29927
SIGNATURE:		Robert Casavant
INSTRUCTIONS: Submit one copy of	BY: _	ROBERT J. CASAVANT, P.E.
agreement form and six prints of drawings	TITLE: _	MANAGER, ENGINEERING SERVICES
(or one reproducible print) showing present location and proposed location of poles or lines with reference to highway survey stations and centerline.	Dec	BEAUFORT COUNTY
	By: _	

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Form: 3068-8 (4-1-63)

Attachment

DETAILED ESTIMATE OF DIRECT COST Beaufort County Bluffton Parkway 5A Flyover Causeway

	S.C. File No	٠			Route	
I.	DETAIL OF PR	ELIM	IINARY ENGINI	EERING:	Ĭ	ESTIMATE
		(a)	Labor (8.5%)	ı	s	20,375.00
		(b)	Equip. and Mile	eage (PECI)		
		(c)	Other expenses	(meals, lodgings, etc)		
		(d)	Overhead:	F.O.A.B. Federal Unemployment State Unemployment Worker's Compensation Public Liability Hospital Insurance Retirement Paid Leave and Holidays	(Percent) Included in (a) a	bove
II	LABOR:					
		(a)	Temporary Ins	tallation		
		(b)	Removal			15,400.00
		(c)	Permanent Inst	tallation		124,900.00
		(d)	Other Expense	s (Meals, lodgings, etc)		
m.	MATERIALS:	(e)		F.O.A.B. Federal Unemployment State Unemployment Worker's Compensation Public Liability Hospital Insurance Retirement Paid Leave and Holidays Included in Unit Estimates Omponents or list units)	(Percent) Included in (b) and ((c) above
		(a)	Temporary Ins	stallation		
		(b)	Permanent Ins	tallation		71,650.00
		(c)	Handling Costs	•	50%	35,825.00

IV.	EQUIPMENT:			<u>estimate</u>
	(a)	Mileage and cost per mile (hour)		
v.	RIGHT OF WAY:			
	(a)	Labor		
	(b)	Transportation		
	(c)	Acquisition Cost		
	(d)	Other (meals, lodging, etc)		
		LESS CREDITS:		
I.	Betterment (show co	mputations)	s	
11. III.	Extended Service Life (Show Computation Salvage:			
	(a) Materi	al recovered from:		
	1. 1	Permanent Facility		
	2.	Temporary Facility		(1,000.00)
	NET COST OF ADJI	USTMENT		267,150.00
Mada	. If artimata is made o	n the unit hadis attach conquete listing of	housing	

Note: If estimate is made on the unit basis, attach separate listing showing unit, quantity, material cost, labor cost, and total for each unit. Show separate listing for temporary installation, removal and permanent installation.

Labor on company records must be kept on daily basis showing hours worked and rates of pay.

Submit six copies with agreement.

LISTING OF CHANGES BY STATIONS

See attached plan and profile sheets for pole locations and units referring to stations

US HWY 278 Bluffton Parkway 5A Flyover-Ca	BEAUFORT COUN				PAGE 3 OF 7	
NEW UNITS TO BE INSTALLED UG			SYSTEM:	PALMETTO ELECTRIC COO		
ASSEMBLY	QUANTITY	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	
(3) 750 MCM Cables (Bore)	2950	40.00	118000.00	23.50	69325.00	
750 MCM Splices	12	100.00	1200.00	75.00	900.00	
Large Vault for 750 MCM Cable	1	600.00	600.00	1200.00	1200.00	
750 MCM Stress Cones	3	100.00	300.00	75.00	225.00	
			0.00		0.00	
4 Man UG Crew	16	300.00	4800.00		0.00	
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SUB TOTAL			\$124,900.00		\$71,650.00	

78 Bluffton Parkway 5A Flyover-Co	auseway				PAGE 4 OF 7
ITS TO BE INSTALLED OH				ALMETTO ELECTRIC CO	OP.
ASSEMBLY	QUANTITY	UNIT LABOR COST	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERI
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SUB TOTAL			\$0.00		\$0
GRAND TOTAL			\$124,900.00		\$71,650

UNITS To Be Removed	UG		SYSTEM:	PALMETTO ELECTRIC	00P.
		UNIT LABOR	TOTAL LABOR	SALVAGE VA	LUE
ASSEMBLY	QUANTITY	COST	COST	UNIT VALUE	EXTENDED VALUE
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ASSEMBLY Pole, Wire, and Hardware 750 MCM Riser 500 MCM Cable	QUANTITY 11 2 450	UNIT LABOR COST 800.00 600.00 12.00	TOTAL LABOR COST 8800.00 1200.00 5400.00 0.00 0.00 0.00 0.00 0.00 0	500.00	0.00 1000.00 0.00 0.00 0.00 0.00 0.00 0
Pole, Wire, and Hardware 750 MCM Riser	11 2 450	800.00 600.00	8800.00 1200.00 5400.00 0.00 0.00 0.00 0.00 0.00 0	500.00	0.00 1000.00 0.00 0.00 0.00 0.00 0.00
750 MCM Riser	2 450	600.00	1200.00 5400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	500.00	1000.00 0.00 0.00 0.00 0.00 0.00 0.00
750 MCM Riser	450	600.00 12.00	5400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00
500 MCM Cable		12.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		0.00 0.00 0.00 0.00 0.00
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NG UNITS To Be Removed			SYSTEM:	PALMETTO ELECTR	IC COOP.
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Bluffton Parkway Phase 5A 166+00 to 194+00

(1) Station 166+00

Splice (3) 750 cables, install (1) UG vault, remove pole and hardware (691-39-007)

Quantity	Description	Co	Cost per Unit		Extended Cost	
3	750 MCM Splices	\$	195.00	\$	585.00	
1	Large Vaults for 750 MCM Cable	\$	1,800.00	\$	1,800.00	
1	Remove Pole, Hardware & Riser	\$	1,400.00	\$	1,400.00	
8	4 man UG crew	\$	300.00	\$	2,400.00	
			Subtotal	\$	6,185.00	

(2) Station 166+00 to 169+00

Install (3) 750 cables and conduit, remove pole and hardware (691-39-006)

Quantity	Description	Cos	t per Unit	Ext	ended Cost
300	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	23,250.00
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00
				\$	-

Subtotal \$ 24,050.00

(3) Station 169+00 to 171+50

Install (3) 750 cables and conduit, remove pole and hardware (691-39-005)

Quantity	Description	Cos	t per Unit	Ext	tended Cost
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00
				\$	
		.,			

Subtotal \$ 20,175.00

(4) Station 171+50 to 173+80

Install (3) 750 cables and conduit, remove pole and hardware (691-39-004)

Quantity	Description	Cos	t per Unit	Extended Cost		
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00	
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00	
				\$		

Subtotal \$ 20,175.00

(5) Station 173+80 to 176+20 --- Land Cables at 175+00

Install (3) 750 cables and conduit, splice cables, remove pole and hardware (691-39-003)

Quantity	Description	Cos	t per Unit	Extended Cost		
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00	
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00	
3	750 MCM Splices	\$	195.00	\$	585.00	
				\$	_	

Subtotal \$ 20,760.00

(6) Station 176+20 to 178+70

Install (3) 750 cables and conduit, remove pole and hardware (691-39-002)

Quantity	Description	Cos	t per Unit	Ext	ended Cost
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00
			_	\$	

Subtotal \$ 20,175.00

(7) Station 178+70 to 181+20

Install (3) 750 cables and conduit, remove pole and hardware (691-39-001)

Quantity	Description	Description Cost per Unit			tended Cost
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00
				\$	

Subtotal \$ 20,175.00

(8) Station 181+20 to 183+70 --- Land Cables at 183+00

Install (3) 750 cables and conduit, splice cables, remove pole and hardware (691-40-006)

Quantity	Description	Cos	t per Unit	Extended Cost		
300	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	23,250.00	
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00	
3	750 MCM Splices	\$	195.00	\$	585.00	
				\$		

Subtotal \$ 24,635.00

(9) Station 183+70 to 186+20

Install (3) 750 cables and conduit, remove pole and hardware (691-40-004)

Quantity	Description Cost per Unit		Extended Cost		
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00
				\$	-

Subtotal \$ 20,175.00

(10) Station 186+20 to 188+70

Install (3) 750 cables and conduit, remove pole and hardware (691-40-003)

Quantity	Description	Co	Cost per Unit		ended Cost
250	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	19,375.00
1	Remove Pole, Wire, Riser & Hardware	\$	1,400.00	\$	1,400.00
				\$	-

Subtotal \$ 20,775.00

Subtotal \$

37,860.00

(11) Station 188+70 to 190+00 --- Land Cables at 189+50

Install (3) 750 cables and conduit, splice cables, remove pole and hardware (691-40-002)

Quantity	Description	Cos	t per Unit	Extended Cost		
200	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	15,500.00	
3	750 MCM Splices	\$	195.00	\$	585.00	
1	Remove Pole, Wire,& Hardware	\$	800.00	\$	800.00	
	····		Subtotal	\$	16,885.00	

(12) Station 189+50 to 194+00

Install (3) 750 MCM Cables and conduit, terminate in PMH-3 (691-40-001)

Quantity	Description	Cos	t per Unit	Extended Cost		
450	(3) 750 15Kv Cables in 6.0" PE (bore)	\$	77.50	\$	34,875.00	
3	750 MCM Stress Cones	\$	195.00	\$	585.00	
8	4 man UG crew	\$	300.00	\$	2,400.00	

Cost of Install Labor \$ 124,650.00
Cost of Retirement Labor \$ 15,500.00
Cost of Material \$ 72,000.00
Material Handling and Overhead (50%) \$ 36,000.00
Salvage \$ (1,000.00)
Estimated Engineering Cost (8%) \$ 20,000.00
Estimated R-O-W Cost (0%) \$ TOTAL JOB COST \$ 267,150.00



COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY ENGINEERING DIVISION

Building 3, 102 Industrial Village Road Post Office Drawer 1228, Beaufort, SC 29901-1228 Phone: (843) 225-2700 Fax: (843) 225-9420

TO:

Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA:

Gary Kubic, County Administrator

Robert McFee, Director of Engineering & Infrastructure
Monica Spells, Compliance Officer
Dave Thomas, Purchasing Director

Colin Kinton, County Traffic & Transportation Fracing

FROM:

SUBJ:

CHANGE ORDER # 4 FOR BLUFFTON PARKWAY PHASE 5A

SEGMENT 2 CONSTRUCTION

DATE:

December 5, 2013

BACKGROUND. On 2/25/13, Beaufort County Council awarded a contract to R. R. Dawson Bridge Company. LLC, for the construction of Bluffton Parkway Phase 5a Segment 2 roadway and flyover bridges. The total contract award amount was \$36,665,629.96.

As part of the construction of the flyover bridges, a test shaft is constructed to better analyze foundation performance with present soil conditions. As a result of the test shaft load data, the design engineer and the construction manager have recommended that certain drill shafts be extended/lengthened. The contractor R. R. Dawson has provided Change Order #4 totaling \$482,201.85 for additional costs associated with the lengthening of the shafts. The extension of shafts is required to ensure safety and stability of the flyover bridge foundations.

This project is funded by the 1% Sales Tax Referendum and \$15,000,000 from the 2012 Federal Highway Match administrated by SCDOT.

FOR ACTION. Information only item presentation to the Public Facilities Committee on December 16, 2013.

RECOMMENDATION. Change Order #4 is presented as any information only item. No formal action is required by either the Public Facilities Committee or County Council.

CK/mjh

Attachments:

- 1) F & ME 11/12/13 ltr
- 2) CO 4 Request Form
- 3) R. R. Dawson 10/18/13 ltr
- 4) ICA Engineering 9/5/13 ltr

Contract/STP01/PFCappCO4



November 12, 2013

Mr. Robert McFee Director of Engineering and Infrastructure Beaufort County Engineering Division 102 Industrial Village Road Beaufort, SC 29906

RE: Bluffton Parkway 5A - Segment 2

SC File #: 07.041794

Beaufort County Project #: BEAU(001)

F&ME Project No. C8300.00

Subject: Bluffon Parkway 5A - Segment 2: LPA Change Order 004 - Drill Shaft Extensions

(Executive Summary)

Dear Mr. McFee,

Per the Contract Documents, a test shaft was constructed by RR Dawson Bridge Company on 7/19/13. The test shaft was constructed in order to confirm the assumptions made during the design of the Bluffton Parkway 5A – Flyover Bridge.

Following the LoadTest performed on the test shaft on 7/25/13, the results yielded unforeseen end bearing movements. With the test data, the Engineer of Record (ICA Engineering) recommended that certain drill shafts be extended to counter the end bearing movement. Attached is a summary of drill shaft extension lengths.

A change order was submitted by Dawson on 10/18/13 for additional costs associated with the drill shaft lengthening. The total additional cost for lengthening the shafts is \$482.201.85.

Back-up documentation and the LPA Change Order 004 form follow this Executive Summary.

Should you have any questions, please do not hesitate to contact me.

Sincerely,

John Nguyen

John Nguyen
Project Manager
F&ME Consultants
1536 Fording Island Road, Suite 105
Hilton Head Island, SC 29926

Attachments: Drill Shaft Extension Summary Chart

cc: A. Shannon, F&ME

A. Jones, F&ME

C. Kinton, BC

G. Kubic, BC

M. Hickman, BC

K. Green, SCDOT

File

CARABOTE AND A STATE OF STREET AND A STREET AND A STREET

BLUFFTON PARKWAY PHASE 5A BRIDGE SHAFT EXTENSION SUMMARY SEPTEMBER 13, 2013

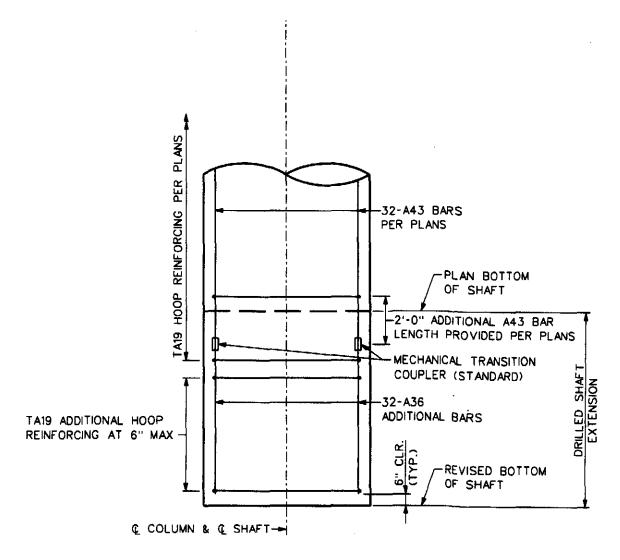
	D	RILLED SHAL	FTS			LO	NGITUDINA	L BARS	· "					HOOPS	1		
Bent	Number	Diamter	Extension	Mark	Wt (lbs/ft)	No	L (ft)	Additional	Original Wt	TOTAL WT	Mark	Wt (lbs/ft)	No.	1 (60)	Additional Wt	Original	TOTAL WT
DQ.11	per Bent	(in.)	Length (ft)		<u> </u>		- (11)	Wt (lbs)	(Nos)	(lbs)	TOTALLE	WC (IDS/TC)	NO.	L (ft)	(Hos)	Wt (lbs)	(lbs)
ML-2	2	84	2.0	A36	5.313	0	0.0	0	70156	70156	TA19	1.502	0	18.5	0	12833	12833
ML-8	. 2	84	4.5	A36	5.313	32	2.5	850	73306	74156	TA19	1.502	5	18.5	278	14231	14509
ML-9	2	84	1.0	A36	5.313	0	-1.0	0	73435	73435	TA19	1.502	0	18.5	0	14307	14307
EB-1	1	102	13.0	A36	5.313	32	11.0	1870	52609	54479	TA19	1.502	22	23.3	771	9544	10315
E8-2	1	102	20.5	A36	5.313	32	18.5	3145	52949	56094	TA19	1.502	37	23.3	1297	9621	10918
EB-3	1	102	7.5	A36	5.313	32	5.5	935	53521	54456	TA19	1.502	11	23.3	386	9544	9930
EB-6	1	102	21.0	A36	5.313	32	19.0	3230	50607	53837	TA19	1.502	38	23.3	1332	9695	11027
£B-7	1	102	26.0	A36	5.313	32	24.0	4080	49546	53626	TA19_	1.502	48	23.3	1682	9764	11446
EB-8	1	102	22.0	A36	5.313	32	20.0	3400	48590	51990	TA19	1.502	40	23.3	1402	9345	10747
E8-9	1	102	3.5	A36	5.313	32	1.5	255	47548	47803	TA19	1.502	3	23.3	105	8961	9066
WB-1	1	102	18.0	A36	5.313	32	16.0	2720	53605	56325	TA19	1.502	32	23.3	1121	9838	10959
WB-2	1	102	27.0	A36	5.313	32	25.0	4250	53502	57752	TA19	1.502	50	23.3	1752	9801	11553
WB-3	11	102	25.5	A36	5.313	32	23.5	3995	54438	58433	TA19	1.502	47	23.3	1647	10018	11665
WB-4	1	108	14.5	A36	5.313	36	12.5	2391	57475	59866	TA19	1.502	25	24.9	936	10005	10941
WB-6	1	108	8.0	A36	5.313	36	6.0	1148	57347	58495	TA19	1.502	12	24.9	449	9979	10428
WB-7	1	108	8.0	A36	5.313	36	6.0	1148	56797	57945	TA19	1.502	12	24.9	449	11214	11663
WB-8	1	108	12.0	A36	5.313	36	10.0	1913	56988	58901	TA19	1.502	20	24.9	748	11118	11866
WB-9	1	108	27.5	A36	5.313	36	25.5	4877	56974	61851	TA19	1.502	51	24.9	1909	10804	12713
W8-10	1	108	25.0	A36	5.313	36	23.0	4399	55476	59875	TA19	1.502	46	24.9	1722	10525	12247
W8-11	1	108	24.0	A36	5.313	36	22.0	4208	54584	58792	TA19	1.502	44	24.9	1647	10141	11788

TOTAL 48816 lbs

TOTAL

19632

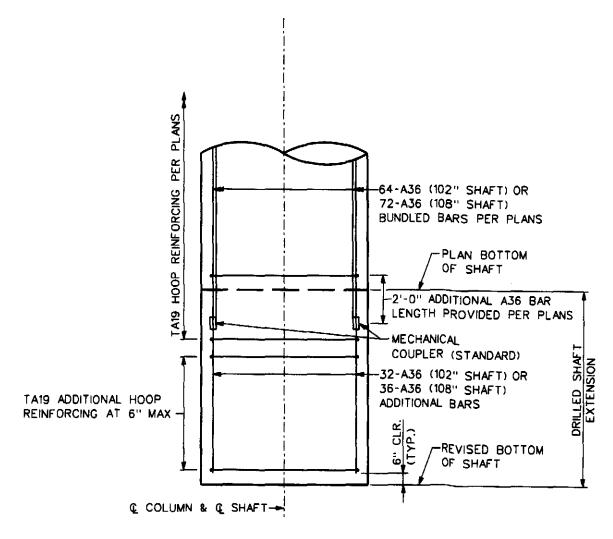
lbs



SHAFT EXTENSION DETAIL - 84" DIAMETER SHAFTS
NOT TO SCALE

BLUFFTON PARKWAY PHASE 5A BRIDGE SHAFT EXTENSION DETAIL (1 OF 2)

09/13/2013



SHAFT EXTENSION DETAIL - 102" OR 108" DIAMETER SHAFTS
NOT TO SCALE

BLUFFTON PARKWAY PHASE 5A BRIDGE SHAFT EXTENSION DETAIL (2 OF 2)



LPA Change Order Request Form

Before directing changes in the work within the provisions of the Contract, the Local Public Agency (LPA) shall submit to the SCDOT Local Public Agency Administration office (LPAA), this completed request for review and approval for change order work along with the appropriate documentation listed below.

_ ^	
Local Public Agency: DEAUFORT COUNTY	
Contact Person: ROBERT McFEE	Title: DIRECTOR OF ENGINEERING AND INFRASTRUCTURE
Address: 100 RIMANT RD. PO BOX 1228, BEAUFORT, SC 2990	2 Phone: 943-255-2730
Project Name: BURETON PARKWAY 5A- SEGMENT 2	
County: BEAUFORT	Master PIN: 41794 - PEO1
Contract Number: BEAN (001)	File Number: 07.041794 IFBNo. 13-54500-0810 - 05
Date of Agreement: ()CTOPER 9, 2012	Maximum Funding:
<u> </u>	
Change Order Number: <u>004</u>	
Type of Change Order: Supplemental Agreement Co	ntract Modification 🔲 Time Extension 🗌 Other 🦳
Date of Executed Contract between Owner and Contractor: Oc	DOER 25, 2013
Original Completion Date: OCTOBER 18, 2015	Revised Completion Date: OCTOBER 18, 2015
Original Contract Price: \$\\\ 36,665,629.96	Revised Contract Price: LPA Co 001: 18 34, 667, 906, 89
This change order request shall include the following documen	
Detailed explanation for change order request	LPA CO DOZ: STILL NEGOTIATING
Itemized listing of each change order item with price	LPA CO OCH:\$37,151,658.43
Total cost of change order request	
Additional contract time with revised completion date (if neces	ssary)
Prime Contractor signature and date	
Submitted:	
Local Public Agency	Date
Recommended:	Succ.
Resident Construction Eng	ineer Date
Recommended:	Date Date
District Engineering Admini Approved:	strator Date
Approved.	
Local Public Agency Admin	istrator Date

NOTE: Approval of this change order does not increase SCDOT's contract maximum funding for this project. Any cost beyond the contract amount will be the sole responsibility of the LPA, as stated in the LPA's signed Participation Agreement with SCDOT.

Created 2 2011 Page 1 of 1



November 7, 2013

Mr. Robert McFee, PE
Director of Engineering and Infrastructure
Beaufort County Engineering
100 Ribaut Road
P.O. Box 1228
Beaufort, SC 29902

RE: Bluffton Parkway 5A - Segment 2

SC File #: 07.041794

Beaufort County Project #: BEAU(001)

F&ME Project No. C8300.00

Subject: RR Dawson: LPA Change Order 004: Drill Shaft Extensions

Dear Mr. McFee.

Please see the following change order associated to the revisions to drill shaft lengths for Bluffton Parkway 5A – Segment 2. Revised quantities and contract documents have been provided to the Contractor for construction.

RR Dawson has provided a proposal associated to extensions of the drill shafts that amounts to \$482,201.85. Pending the approval of the LPA Change Order 004, the revised contract price will total \$37,151,658.43. Please note that LPA Change Order 003 (Concrete Strain Poles) is currently under negotiations with the Contractor.

The change order amount recommended for approval and payment totals \$482,201.85 with no additional contract time added to the project duration.

The attachments provided illustrate the record of negotiation and history associated to LPA Change Order 004.

Pending your satisfaction of the attached LPA Change Order 004 and associated documentation, please sign as the Local Public Agency and return the LPA Change Order Request Form to my attention for continuing signature distribution.

Should you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

John Nguyen

John Nguyen
Project Manager
F&ME Consultants
1536 Fording Island Road, Suite 105
Hilton Head Island, SC 29926

CARREST MEDICAL * A SECTION MINERAL OF THE PARTIES

R.R. DAWSON BRIDGE COMPANY LLC

P. O. BOX 28 • LEXINGTON, KENTUCKY 40588-0028 • (859) 269-4644 • FAX (859) 266-7378

MEMBERS: R. R. DAWSON. JR. GEORGE D. MARTIN THOMAS C. DAWSON

October 18, 2013

John Nguyen
F&ME Consultants
1536 Fording Island Road, Suite 105
Hilton Head, SC 29926

Re: Additional Costs associated with the Drilled Shaft Lengthening-Bluffton Parkway

File #: 07.041794 Project #:BEAU (001)

Dear Mr. Nguyen,

Per the revised drilled shaft lengths, R.R. Dawson Bridge Company hereby submits the costs for the additional materials. In the attached spreadsheet, the costs are broken down per bent on both Main Line as well as Eastbound and Westbound Bents. The couplers that have to be used are Zap Lock Couplers due to reinforcing steel that has been ordered per plan lengths as suggested by F&ME. As a result, the bottom of each drilled shaft cage cannot have standard couplers attached to the extended lengths since they are not threaded. Freight and installation costs are included for these additional couplers. R.R. Dawson has also included the additional CSL tubes that are needed for the extended lengths as well as the unions necessary to extend the CSL tubes to the bottom of the reinforcing steel cages.

It is Dawson's understanding, that any overruns of linear footage is paid for by the bid amount. The original bid is as follows:

7031200	REINF. STEEL FOR STRUCTURES (BRIDGE)	4,200,698.00	LB	0.85	ŧ	3,570,593,30
7031220	HOOP REINF. STEEL FOR STRUCTURES (BRIDGE)	500,284.00	LB	1.15	*	575,326.60
7120221	DRILLED SHAFT W/WET & DRY EXCAV. 84" DIA.	2,787.00	LF	900.00	*	2,508,300.00
7120251	DRILLED SHAFT W/WET & DRY EXCAV. 102" DIA.	884.00	LF	1,000.00	ŧ	884,000.00
7120261	DRILLED SHAFT W/WET & DRY EXCAV. 108" DIA.	638.00	LF	1,100.00	*	701,800.00
				TOTAL		8,240,019.90

The new quantities are shown below:

7031200	REINF. STEEL FOR STRUCTURES (BRIDGE)	4,249,514.00	LB	0.85	*	3,612,086.90
7031220	HOOP REINF. STEEL FOR STRUCTURES (BRIDGE)	519,916.00	LB	1.15	*	597,903.40
7120221	DRILLED SHAFT W/WET & DRY EXCAV. 84" DIA.	2,805.00	LF	900.00	*	2,524,500.00
7120251	DRILLED SHAFT W/WET & DRY EXCAV. 102" DIA.	1,068.00	LF	1,000.00	*	1,068,000.00
7120261	DRILLED SHAFT W/WET & DRY EXCAV. 108" DIA.	757.00	ĻF	1,100.00	*	832,700.00
				TOTAL		8,635,190.30

The amount for the overrun of the contract quantities is \$395,170.40 and the additional items that are required to extend the drilled shafts total \$87,031.45. The overall amount equates to \$482,201.85.

Please review and if there are any further questions or concerns, please do not hesitate to contact us. Please send a change order to us upon approval and we appreciate Beaufort County, ICA, SCDOT and F&ME for the coordinated partnering in regards to the revised drilled shaft lengths.

Best regards,

Blizabeth M. Chipley Project Coordinator

R.R. Dawson Bridge Co., LLC

Cc: Mr. Gerry Hargis (RRDBC)

Mr. Adam Shannon (F&ME)



f/k/a Florence & Hutcheson, Inc.

September 5, 2013

Mr. Colin Kinton, P.E.
Beaufort County Traffic & Transportation Engineer
Beaufort County Engineering Division
102 Industrial Village Road
Beaufort, SC 29906

RE: Draft Addendum to the Geotechnical Report

Bluffton Parkway Phase 5A Segment 2

Dear Mr. Kinton:

ICA Engineering presents this addendum letter to our original geotechnical report which was dated February 8, 2010 to reflect the changes in the drilled shaft lengths based on the results of the load test performed on a test shaft. We have reviewed the *Report on Drilled Shaft Load Testing (Osterberg Method)* prepared by LOADTEST and dated July 30, 2013 and subsequent correspondence from LOADTEST dated August 8, 2013. After review of this information, we feel that the measured skin friction values are reliable; however, we feel that the results of the test relating to end bearing are inconclusive. These two referenced reports provided by LOADTEST are included in Appendix II.

The initial report prepared by LOADTEST dated July 30, 2013 showed a unit end bearing of 4.2 KSF. This value is extremely low for the soil conditions at this test shaft location. This is verified through the following multiple factors that are discussed in detail below:

- Using the unit end bearing formulas for drilled shafts tipped in cohesionless material from the AASHTO LRFD Bridge Design Specifications, estimated end bearing values would range from 19 KSF to 31 KSF for the soils which were observed beneath the test shaft tip elevation in the nearby Boring B-2. Typically, formulas such as these in design specifications are conservative and load testing nearly always confirms these capacities and more often than not shows higher capacities than what is calculated.
- 2. Per the LOADTEST Submittal (Method Statement) for Installation and Load Testing of Test Shaft Using the Osterberg Cell Method, Issue 2, dated May 30, 2013, LOADTEST anticipated a unit end bearing value of 50 KSF, which was used to determine the placement of the O-cell in the test shaft.
- 3. Based on our experience and from discussions with other geotechnical engineers with regional expertise, unit end bearing values ranging from 25 KSF to 50 KSF are regularly used in the design of drilled shafts similar to these and have been observed in load tests conducted in this region and in similar soil conditions. One example is a STATNAMIC Axial Load Test that was performed on a 60 inch diameter shaft for the SC 802 Bridge over the Beaufort River in Beaufort County. The reported unit end bearing on this shaft ranged from 42 KSF to 44 KSF depending on the displacement. Another example is an O-cell LOADTEST that was performed on a 96 inch diameter shaft for the SC 170 Widening project in Beaufort. The reported unit end bearing on this shaft was 50 KSF. Both of these examples are in close proximity to our test shaft and the end bearing geology for these shafts are very similar.
- 4. In Figure 8 of 9 in LOADTEST's original report dated July 30, 2013, a unit end bearing of approximately 8 KSF is achieved at approximately one inch of downward displacement. After this, the unit end bearing begins to decrease as the downward shaft base displacement increases. It is our opinion that, as the downward displacement increases, the unit end bearing should increase and eventually plateau once the ultimate end bearing is reached. This is a fundamental concept of soil mechanics.

Colin Kinton, P.E. September 5, 2013 Page 2 of 4

In an effort to utilize the information obtained from the load test, we have evaluated the drilled shaft capacities and anticipated vertical displacements utilizing several different approaches. We have ultimately decided to use a hybrid approach to verify that the factored resistance of the drilled shafts satisfies the Strength Limit State. This hybrid approach takes advantage of the fact that the skin friction values have been measured during a load test but also accounts for the inconclusive nature of the end bearing measurement as previously discussed. In this approach, we have analyzed the shafts two different methods:

- 1. Factored resistance determined by using the skin resistance values from the load test with a resistance factor based on load test verification along with AASHTO-computed end bearing resistance values with a resistance factor associated with not performing a load test. The unit side resistances for each zone were derived using the Unit Side Shear plots from the load test at 2% of the test shaft diameter which was 1.68 inches of displacement. A resistance factor of 0.65 was utilized for the side resistance for multi-column bents and a resistance factor of 0.52 was utilized for the single column bents. For the end bearing, we utilized Equation 10.8.3.5.2c-1 in the AASHTO LRFD Bridge Design Specifications, 2012. The resistance factors applied to the tip resistance was 0.5 for multi-column and 0.4 for single column bents. A sample calculation and summary of this Method 1 is provided in Appendix I.
- 2. Factored resistance determined by using the skin resistance values from the load test along with end bearing resistance values estimated in LOADTEST's revised analysis dated August 8, 2013. The resistance factor associated with load testing was used for both the skin and base resistance in this approach. For this approach, the unit side shear resistance values were calculated the same as the previous method except for what we have described in the calculations in Appendix I as "Zone 1". We further broke out Zone 1 into soils with SPT "N" values less than 60 BPF and SPT "N" values greater than 60 BPF. The zone was divided due to information from other load test data in similar soil conditions were unit side shear values are typically at 3.0 KSF or slightly higher. So, we used a unit side shear of 1.43 KSF in SPT "N" values less than 60 BPF and we used a unit side shear of 3.0 KSF in SPT "N" values greater than 60 BPF.

For the end bearing, we utilized a value of 28 KSF which was calculated from the updated analysis by LOADTEST dated August 8, 2013. This end bearing value was taken at 3.5% of the shaft diameter which is an average of the typical displacement criteria of 2% and 5% of shaft diameter when evaluating load test information. A sample calculation and summary of this Method 2 is provided in Appendix I.

In addition, we also checked the drilled shaft lengths against the service loads with regard to displacements. From the load test results, after 1 inch of downward displacement, the load test unit end bearing values are highly suspect as we have previously stated. However, prior to the 1-inch of upward and downward displacement, the load test displacement proceeds at an anticipated and expected rate. For the bridge design, 0.5 inches or less of displacement is desired for the service loads on the drilled shafts. So, we checked the service loads against the displacement of 0.5 inches to verify that the unit side shear and unit end bearing from the load test were able to carry the service loads. A value of 6 KSF for the end bearing was utilized in this method.

In most cases, the average length of the drilled shafts from Methods I and 2 above was then compared to the lengths currently shown in the plans and in cases where this average length is greater than the plan lengths, we are recommending lengthening the drilled shafts. Due to the inconclusive nature associated with the unit end bearing reported from LOADTEST (original report and updated analysis), we choose to use the average in most situations. The average was used since Method 1 involved the irregular "blending" of two resistance factors and Method 2 was based on assumptions that were made in order to account for irregular measurements taken from the load test. A couple of exceptions are mentioned in the calculations in Appendix I for the shafts at WB-2, WB-3, WB-9, WB-10 and WB-11, where the average was not used and the additional lengths were based solely on Method 1 due to excessive service capacity

calculated at those lengths. Also, for the shafts at ML-2 and ML-10, from the service load displacement calculations, the shaft lengths were required to be slightly lengthened. A summary of the recommended shaft lengths based on the results of the load test is provided in the table below.

TABLE 1 - Recommended Shaft Tip Elevations

		IADLE	1 – Recommen	ded Shaft Tip I			
Bent No.	Boring No.	Shaft Dia (ft)	Service Load (KIPS)	Factored Load (KIPS)	Bottom of Construction Casing Elev (ft)	Bottom of Shaft Elev (ft)	Additional Shaft Length (ft)
ML-1	1	5	556	756	-31.5	-67.5	
ML-2	2	7	1190	1680	-23.5	-85.0	2.0
ML-3	3	7	1190	1680	-25.9	-8 5.9	-
ML-4	4	7	1110	1550	-28.9	-86.9	-
ML-5	5	7	1210	1690	-30.9	-86.9	-
ML-6	6	7	1210	1690	-30.9	-86.9	-
ML-7	7	7	1120	1570	-25.9	-86.9	-
ML-8	8	7	1210	1700	-30.9	-91.3	4.4
ML-9	9	7	1210	1700	-30.9	-87.7	0.8
ML-10	10	7	1140_	1600	-30.9	-86.4	1.5
ML-11	11	7	880	1130	-30.9	-84.9	-
ML-12	13	7	1030	1330	-25.9	-84.9	-
ML-13	15	7	1090	1396	-25.9	-84.9	-
ML-14	17	7	860	1100	-25.9	-84.9	
WB-1	24	8.5	1760	2420	-20.9	-95.2	7.3
WB-2	25	8.5	1740	2390	-20.9	-104.9	19.0
WB-3	26	8.5	1780	2450	-20.9	-106.8	18.9
WB-4	27	9	1620	2220	-19	-89	5.0
WB-6	29	9	1676	2300	-20.5	-89.6	4.1
WB-7	30	9	1766	2430	-20.9	-89.8	3.9
WB-8	31	9	1766	2430	-25.9	-93.9	6.0
WB-9	32	9	1550	2090	-25.9	-106.2	18.3
WB-10	33	9	1756	2420	-25.9	-105.0	17.1
WB-11	34	9	1736	2390	-25.9	-102.3	14.4
WB-12	34	5	750	1000	-25	-87	-
EB-1	18	8.5	1630	2246	-20.9	-92.2	6.3
EB-2	19	8.5	1630	2246	-20.9	-97.7	11.8
EB-3	20	8.5	1560	2140	-20.9	-89.6	3.7
EB-6	42	8.5	1690	2320	-19.5	-90.1	10.6
EB-7	42	8.5	1756	2420	-19.5	-93.5	14.0
EB-8	42	8.5	1700	2340	-19.5	-90.6	11.1
EB-9	56	8.5	1726	2380	-20	-81.7	1.7
EB-10	56	5	750	1000	-17.9	-84.3	<u>-</u>

Colin Kinton, P.E. September 5, 2013 Page 4 of 4

We believe that the procedure that we have used for determining the revised shaft lengths is a rational, reasonable approach which takes advantage of the load test while addressing the issues associated with the measured end bearing. There is a relatively high level of confidence in the measured skin resistance values and therefore both analysis methods take full advantage of the confirmation of the skin resistance by using a higher resistance factor. The major questions surrounds the end bearing values and we believe both approaches utilized for determination of the end bearing are sufficiently conservative since both yielded unit end bearing values that are below the values measured during nearby load tests in similar end bearing geology.

Please feel free to call if you have any questions regarding this matter.

Sincerely,

ICA ENGINEERING, INC.

Devin L. Chittenden, P.E.

Senior Project Engineer - Geotechnical

Rem & Clittonden



COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY ENGINEERING DIVISION

Building 3, 102 Industrial Village Road Post Office Drawer 1228, Beaufort, SC 29901-1228 Phone: (843) 470-2625 Fax: (843) 470-2630

TO:

Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA:

Gary Kubic, County Administrator

Alicia Holland, Chief Financial Officer
Robert McFee, Director of Engineering and Infrastructure
Monica Spells, Compliance Officer
Dave Thomas, Purchasing Director

Colin Kinton, County Traffic & Transcount

FROM:

SUBJ:

Change Order #12 for SC 170 Widening Construction

DATE:

December 5, 2013

BACKGROUND. On 7/23/12, Beaufort County Council awarded a contract to Cleland Site Prep. Inc., for the widening construction of SC 170 from US 278 (McGarvey's Corner) to SC 46. Total contract award was \$14,998,972,30. The original design was reviewed and approved by SCDOT.

Change Order #12 is submitted to cover the additional costs incurred by the contractor caused by the unforeseen three month delay on the issuing of the SCDHEC/OCRM Land Disturbance Permit. This permit had to be in place prior to the contractor commencing construction operations. Total value of Change Order #12 is \$59,683,56. This represents a contract increase of .4%.

County staff, the project construction manager and SCDOT have reviewed Change Order #12 request for increase to the contract value by Cleland Site Prep and agreed with its total adjustment.

This project is funded from the 1% Sales Tax Road Improvement Program, Acct# 33403-54500. In February 2012, the South Carolina State Transportation Infrastructure Bank had approved a grant funding up to \$24.9 million for this project. All construction costs to include change orders are reimbursable items by the SIB.

FOR ACTION. Information only item presentation to the Public Facilities Committee on December 16. 2013.

RECOMMENDATION. Change Order #12 is presented as any information only item. No formal action is required by either the Public Facilities Committee or County Council.

CK/mih

Attachments: 1) Change Order 12

2) Cleland Site Prep 11/21/13 ltr

Contracts/STP/SC170/CO12

Rot-ID: RCOCORPT

SOUTH CAROLINA

Date: 12/03/2013

User: schwarcw

Department of Transportation

Page: 1 of 2

Change	Order	Report
--------	-------	--------

Contract ID: LPA07.036938A

Change Order Nor:

012

Force Acct ID:

Supplemental Description 1 Adding time and cost for delay in obtaining the SCDHEC NOI.

0

Change Order Type:

Extension

CO Description:

Adding time and cost for delay in obtaining the SCDHEC NOI.

Zero Dollar Change Order: No.

Project Nbr

Itm Nbr Catg

Item Code

Unit **Unit Price** **Bid Qtv**

Prev Apprvd Qty Curr CO Qty Curr Apprvd Qty

Amount of Change

036938MTO1

0013 0001 9800100

LS

\$59,683,58

This Chng: \$59,683.58

Item Description CHANGE ORDER ITEM

CO Item Description 91 time delay and cost (NOI)

Prev Revised: \$0.00

New Revised: \$59,683,58

Bid Contract: \$0.00

Net Change: \$59,683.58

Pct Change:

Supplemental Description2

Total Value for Change Order 012

= \$59.683.58

Change Order Report: Contract Completion Date Time Adjustment

Original Compl Date: 2014/05/18

Adj Compl Date: 2014/08/27

Adj No. of Days: 101

Explanation:

This time extension is being granted for the 91 day delay in obtaining the NOI. The additional 10 days is to correct an input error in the SCDOT site manager system, which showed the original completion date of May 18, 2014. The actual completion date should have been May 28, 2014 based off Beaufort County letter dated November 14, 2012.

General or Standard Change Order Explanation

Cleland Site Prep has given notice that they expect to be compensated for additional costs associated with this 91 day delay. Beaufort County and the SCDOT have agreed that additional compensation is justified.

The total additional cost resulting from this change is \$59,683.58. The contract total to date is \$15,552,769.97 which overruns the original contract by a cumulative percentage of 3.36%.

Recommended by

Accepted by:

Colin Kinton

date:

Rpt-ID: RCOCORPT

User: schwarcw

SOUTH CAROLINA

Department of Transportation

Date: 12/03/2013

Page: 2 of 2

General or Standard Change Order Explanation

Pursuant to Section 104.04 of the Standard Specifications on the above referred to project, we (Prime Contractor), agree to the unit price stipulated above, for performing the work items listed, as part of our contract on this project. The work shall be performed under and in accordance with the specifications and contract requirements of our contract. The compensation and time extention, (If any), provided in this supplemental agreement constitute complete satisfaction for all direct, indirect, impact, and delay costs relating to this work.

JUSTIFICATION OF COST:	FIRM:
Based upon quantities involved, field conditions and type of construction, these prices are reasonable.	BY:



November 21, 2013

Mr. Alan Wertz I.C.E. 33 Munch Drive Beaufort, SC 29906

RE:

SC Hwy 170 Claim for Delay - 91 day

Dear Mr. Wertz:

Please find the attached request for equitable adjustment in contract pricing for the 91 calendar day delay in the owner not obtaining the OCRM Land Disturbance Permit so that the project could start based on our 2nd Notice to Proceed dated November 29, 2012. The attached costs represent the additional monies that were spent by Cleland Site Prep, Inc. performing work on the roadway during the period between the NTP and the OCRM Permit date that we have not been compensated for.

Total Additional Work Performed:	\$ 38,220.00
Additional Mobilization	\$ 3,125.00
Additional CPM Schedule Updates	\$ 712.80
Additional Traffic Control	\$ 12,200.00
Sub- Total	\$ 54,257.80
Additional Home Office Overhead (10%)	\$ 5,425.78
Total	\$ 59,683,58

Should you have any further questions concerning this matter, please contact me.

Regards,

Vice President

CC:

Chris Smith, SCDOT RCE

Colin Kinton, Beaufort County Traffic Engineer

CSP Project File # 4204

Cleland Site Prep, Inc.

PO Box 3822 Bluffton, SC 29910

RE: HWY 170 Widening Claim for 91 Day Delay

Roadway Mainteneance Crew Costs - Patching		
Supervisor w/ Pick up	\$ 80.00	Hr
Foreman w/ Pick up	\$ 75.00	Hr
Wheel Loader	\$ 85.00	Hr
Laborer	\$ 25.00	Hr
Laborer	\$ 25.00	Hr
Laborer	\$ 25.00	Hr
Compactor	\$ 20.00	Hr
	Total \$ 335.00	Hr

Ditch cleaning and Excavation Crew		
Supervisor w/ Pick up	\$ 80.00 Hr	
Foreman w/ Pick up	\$ 75.00 Hr	
Excavator	\$ 105.00 Hr	
Wheel Loader	\$ 85.00 Hr	
Laborer	\$ 25.00 Hr	
Laborer	\$ 25.00 Hr	
Laborer	\$ 25.00 Hr	
Compactor	\$ 20.00 Hr	
	Total \$ 440.00 Hr	

Roadway Mainteneance Crew Costs - Maintenance of	Traffic	
Supervisor w/ Pick up	\$ 80.00	Hr
Foreman w/ Pick up	\$ 75.00	Hr
Laborer	\$ 25.00	Hr
Laborer	\$ 25.00	Hr
Laborer	\$ 25.00	Hr
Compactor	\$ 20.00	Hr
	Total \$ 250.00	Hr

<u>Date</u>	Work Description	Hours	<u>Cost</u>	<u>Total</u>		
12/6/2012	Project Management - Dunn	3	Hr	\$ 80.00	\$	240.00
12/13/2012	Project Management - Dunn	3	Hr	\$ 80.00	\$	240.00
01/04/13	M.O.T. Crew	6.5	Hr	\$ 250.00	\$	1,625.00
01/05/13	M.O.T. Crew	5	Hr	\$ 250.00	\$	1,250.00
01/17/13	M.O.T. Crew	5	Hr	\$ 250.00	\$	1,250.00
01/28/13	Project Management - Dunn	2	Hr	\$ 80.00	\$	16 0. 0 0
01/29/13	Project Management - Dunn	2	Hr	\$ 80.00	\$	16 0. 0 0
01/30/13	Project Management - Dunn	2	Hr	\$ 80.00	\$	160.00
01/31/13	Project Management - Dunn	2	Hr	\$ 80.00	\$	160.00

02/01/13	M.O.T. Crew	2.5	Hr	\$	250.00	\$	625.00
02/01/13	Project Management - Dunn	1	Hr	\$	80.00	\$	80.00
02/01/13	Supervision - Savarese	5	Hr	\$	80.00	\$	400.00
02/04/13	Project Management - Dunn	2	Hr	\$	80.00	\$	160.00
02/04/13	Supervision - Keiffer	2	Hr	\$	80.00	\$	160.00
02/04/13	Supervision - Savarese	5	Hr	\$	80.00	\$	400.00
02/05/13	Project Management - Dunn	2	Hr	\$	80.00	\$	160.00
02/05/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/06/13	Project Management - Dunn	2	Hr	\$	80.00	\$	160.00
02/06/13	Supervision - Kelffer	1	Hr	\$	80.00	\$	80.00
02/06/13	Supervision - Savarese	2	Hr	\$	80.00	\$	160.00
02/07/13	Project Management - Dunn	3	Hr	\$	80.00	\$	240.00
02/07/13	Supervision - Keiffer	0.5	Hr	\$	80.00	\$	40.00
02/07/13	Supervision - Savarese	2	Hr	\$	80.00	\$	160.00
02/08/13	Project Management - Dunn	2	Hr	\$	80.00	\$	160.00
02/08/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/08/13	Supervision - Savarese	1	Hr	\$	80.00	\$	80.00
02/11/13	Project Management - Dunn	2	Нг	\$	80.00	\$	160.00
02/11/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/11/13	Supervision - Savarese	1	Hr	\$	80.00	\$	80.00
02/12/13	Project Management - Dunn	3	Hr	\$	80.00	\$	240.00
02/12/13	Supervision - Keiffer	1	Нг	\$	80.00	\$	80.00
02/13/13	Project Management - Dunn	3	Hr	\$	80.00	\$	240.00
02/13/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/14/13	Project Management - Dunn	3	Hr	\$	80.00	\$	240.00
02/14/13	Supervision - Keiffer	0.5	Hr	\$	80.00	\$	40.00
02/15/13	Project Management - Dunn	2	Hr	\$	80.00	\$	160.00
02/15/13	Supervision - Kelffer	1	Hr	\$	80.00	\$	80.00
02/15/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/18/13	M.O.T. Crew	1	Hr	\$	250.00	\$	250.00
02/19/13	Project Management - Dunn	4	Hr	\$	80.00	\$	320.00
02/19/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
• •	•	1	Hr	\$	80.00	\$	80.00
02/19/13	Supervision - Savarese	5	Hr	۶ \$	80.00	ب \$	
02/20/13	Project Management - Dunn Supervision - Keiffer	1	Hr	\$ \$	80.00	\$	400.00 80.00
02/20/13	* •			-			
02/21/13	Project Management - Dunn	5	Hr	\$	80.00	\$	400.00
02/21/13	Supervision - Keiffer	0.5	Hr Hr	\$ \$	80.00	\$ \$	40.00
02/21/13	Supervision - Savarese	1	Hr		80.00	\$	80.00
02/21/13	Traffic Control Inspection	1		\$	80.00		80.00 320.00
02/22/13	Project Management - Dunn	4	Hr	\$ \$	80.00	\$	
02/22/13	Supervision - Keiffer	1	Hr		80.00	\$	80.00
02/25/13	Patching Potholes	5	Hr	\$	335.00	\$	1,675.00
02/25/13	Project Management - Dunn	4	Hr	\$	80.00	\$	320.00
02/25/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/25/13	Supervision - Savarese	5	Hr U-	\$	80.00	\$	400.00
02/26/13	Clean ditches due to flooding	6.5	Hr	\$	440.00	\$	2,860.00
02/26/13	M.O.T. due to flooding	6	Hr	\$	250.00	\$	1,500.00
02/26/13	Patching Potholes	2	Hr	\$	335.00	\$	670.00
02/26/13	Project Management - Dunn	4	Hr	\$	80.00	\$	320.00
02/26/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00

	Total Additional Mobilization					\$	12,200.00
	Message Boards (Purchased for project but unable to use) 4 Ea @ 1 Mo	4	Мо	\$	1,700.00	\$	6,800.00
	Crash Trucks (Purchased for project, but unable to use) 2 Ea @ 1 Mo	2	Мо	\$	1,200.00	\$	2,400.00
	Traffic Barrels (Purchased for project but unable to use)	1200	Еа	\$	2.50	\$	3,000.00
ditional Traff	ic Control Items (Loss of Use)						
	Total Additional Mobilization					\$	3,125.00
	Lowboy	25	Hr	\$	125.00	\$	3,125.00
lditional Mob	<u>ilization</u>						
	Total Additional Work					\$	38,220.00
	Materials for Patching	1	•			\$	3,305.00
02/28/13	Traffic Control Inspection	1	· Hr	\$	80.00	\$	80.00
02/28/13	Supervision - Keiffer	1	Hr	\$	80.00	\$	80.00
02/28/13	Supervision - Nelson	2	Hr	\$	80.00	\$	160.00
02/28/13	Project Management - Dunn	5	Hr	\$	80.00	\$	400.00
02/28/13	Patching Potholes	7	Hr	\$	335.00	\$	2,345.00
02/27/13	Clean ditches due to flooding	5.5	Hr	\$	440.00	\$	2,420.00
02/27/13	Supervision - Nelson	4	Hr	\$	80.00	\$	320.00
02/27/13	Project Management - Dunn Supervision - Savarese	5	Hr	\$ \$	80.00	\$	400.00
02/27/13 02/27/13	Patching Potholes	11 5	Hr Hr	\$	335.00 80.00	\$ \$	3,685.00 400.00
02/27/13	Clean ditches due to flooding	8	Hr	\$ \$	440.00	\$	3,520.00
02/26/13	Supervision - Nelson	2	Hr	\$	80.00	\$	160.00
02/26/13		_		_			

RE: HWY 170 Widening Claim for 91 Delay CPM SCHEDULE

Delays in starting construction on the projet due to not having an NOI so that land disturbance could begin. This has caused additional overhead, management, and increased material costs above what was budgeted for the project.

Total	\$ 712.80
10% Sub Markup	\$ 64.80
Total Additional Months Costs	\$ 648.00
OLH Schedule Updates - March 2013	\$ 360.00
OLH Schedule Updates - Feb 2013	\$ 288.00

Protection Services Inc

4841-A Edmind Hwy. West Columbia, SC 29170 Phone 803-755-6529 Fax 803-955-0209

DATE:

August 22, 2012

TO:

Jason R. Dunn

Cleland Site Prep, Inc.

FROM:

Sherita Evans, Office Manager

Office - 803-755-6529 Mobile - 803-309-4131

RE:

Hwy. 170 Widening

BID ITEM	OUR QUOTE
→ 4.00 ea – Const. Zone Elect. Changeable Message ⊕Signs	> \$1,700.00/monthly rental/or \$13,200.00ea + tax – purchase
??? ea – Drums w Tire Rings	▶ \$39.00 ea – Price for quantity of 1000+
 1,100.00 sf - Permanent Construction Signs (Ground Mounted) 	\$5.25 sf - Limited to rent, install, provide maintenance to when notified, and remove at completion of project.
 700.00 sf – Permanent Construction Signs (Barricade Mounted) 	➤ \$5.25 sf – Same As Above
 136.00 lf - Barricade - Type II 610.00 lf - Barricade - Type III 	 \$21.00 lf - Same As Above \$24.75lf - Same As Above
 1,550.00 sf – Flat Sht, TyIII, Fixed Sz & Msg Sn 3,880.00 lf – Post for Sign Supports-2.25 Sq Tube 10.00 lf - Post for Sign Bracing – 2.25 Sq Tube 	 \$23.30sf - Sale & Installation \$5.75 lf - Sale & Installation \$5.75lf - Sale & Installation
1.00 ea – Port Term. Impact Atten–Test Level 3	\$8,000.00 ea - PSI will install, maintain, and remove. *Contractor to provide Asphalt Base for Impact Attenuator.
1.00 ea - Anchor Kit - Port Term Atten (TL 3)	> \$700.00 ea – Same As Above
➤ 1.00 ea – Traffic Control	 \$1,650.00/day - Lane Closure (Basic <=35MPH) \$2,100.00/day - Lane Closure (Primary Route) *Please call to discuss traffic control pricing. If numerous days needed can look at lump sum and/or lower daily rate. If only 1 day needed, may have to add mobilization for primary route.

Thank you for this opportunity to be of service to you. Please call me if you have any questions.

> We request 10 business days advance notice for

preparation and notification to utilities.

[➤] Permanent Construction Signs quoted above are per SCDOT Standard Drawing #605-010-01, #605-010-02, or #605-015-00.

B. C. CANNON COMPANY, INC.

2501 RUTHERFORD RD. • GREENVILLE, S.C. 29609 • PHONE: (864) 235-7979 • FAX: (864) 235-7676
P.O. BOX 3889 • GREENVILLE, S.C. 29608

QUOTATION December 6, 2012

Page 1 of 3

Road & Resurfacing Projects

SC COUNTY/PROJ.	Permanent Const. Signs Ground Mounted	<u>Unit</u> <u>Price</u>		Additional Line Items	<u>Unit</u> <u>Price</u>
Beaufort Co. / Widening of SC 170 from SC 46 to US 278	1,100 Sf	*\$7.00 Sf	136 Lf 7 700 Sf F 1,550 Sf F 3,880 Lf U 10 Lf U 1,350 Sf E 1.00 Ls F	Type III Barricade Type II Barricade Type II Barricade Termanent Construction signs Barr. Mtd Tat Sheet, Type III Fixed Sz & Msg J-Section Post for sign supports - 3P J-Section Post for Sign Bracing - 2P Det. Warning Surface (Material Only) Mobilization for above signage Crash Truck-w/ Arrow Panel	\$29.85 Lf \$35.00 Lf \$12.50 Sf \$18.00 Sf \$11.00 Lf \$9.00 Lf \$14.50 Sf \$1,100.00

Price includes initial installation on ground mount post & mobilization unless otherwise noted. Does not include lay-out of signage.

Quantities are approximate. Maintenance is excluded.

Traffic Control to be provided by Contractor

Additional charge of \$12.00 ea. to cover Permanent Construction signs if required.

Please examine the Terms & Conditions of this Quote on Page 2.

Barrier, Bridge & Span Wire Sign Mounts Excluded.

*RENTAL PRICE

**RENTAL RATE BASED ON 12 MONTH RENTAL. LESS THAN 12 MONTH REVERT TO PRICE LIST RATES.

Prices Subject to change without notice due to fluctuating material and fuel cost.

CERTIFIED DBE SCDOT

www.bccannon.com



Contracting Services

Barricade - Flasher Leasing

Traffic Control & Safety Consultants

Highway, Street & Airport Construction



B.C. CANNON COMPANY, INC

2501 RUTHERFORD RD, GREENVILLE, S.C. 29609 PH. (864) 235-7979 FAX (864) 235-7676 P.O. BOX 3889 GREENVILLE, S.C. 29608

All SCDOT Projects December 2012

Traffic Control

Lane Closure Signs & Equipment

Page <u>3</u> of <u>3</u>

Composite

Roll-Up

		KOH-OD	Composite
48x48 Road Work (Example: 1 mile; ½ mile; Etc)		\$148.00 ea.	\$110.00 ca.
48x48 Right Lane Closed (Example: 1500 Ft; 1/2 mile; Etc)		\$148.00 ca.	\$110.00 ca.
48x48 Men Working/Flagger		\$148.00 ea.	\$110.00 ea.
48x48 Lane Shift L/R		\$148.00 ca.	\$110.00 ea.
48x48 Advanced Speed Limit Ahead		\$189.00 ca.	\$140.00 ea.
48x60 Speed Limit 45		\$189.00 ca.	\$140.00 ca.
48x60 Do Not Pass		\$189.00 ea.	\$140.00 ca.
48x60 Keep Right / Left		\$189.00 ea.	\$140.00 ea.
48x24 Arrow		\$105.00 ea.	\$55.00 ea.
48x30 Road Closed		\$119.00 ca.	\$81.00 ca.
60x30 Road Closed Miles Ahead		\$139.00 ea.	\$102.00 ea.
Type II Barricade		\$55,00 ea. H.I.P.	• • •
Type III Barricade 6' Wide		\$121.00 ea.H.I.P.	*
Type A or C Lights		\$21.00 ea.11.11 .	\$179.00 D.G.
Type B Flashing Light		\$72.00 ea.	
Type B Flashing Light Solar Powered		\$83.00 ea.	
· ·		\$2.75 ea.	
6v Batteries		\$2.73 ca. \$144.00 ca.	
Exit Arrow		*	
48" Yield		\$144.00 ca.	
48x48 Yield Ahead 36x24 No Accel Lane		\$189.00 ea.	
		\$60.00 ea.	
Left Plates/Overlays		\$30.00 ca.	
Wind Resistant Rollup Sign Stand		\$148.00 ea.	
42" Oversize Cone 4x6 Stripes		\$31.00 ca.	
36°Cone		\$12.00 ca.	
36" w/ refl collar		\$17.50 ea.	
28" Cone		\$10.00 ca.	
28" Cone w/ refl collar		\$14.50 ca.	
18" Cone		\$6.00 ca	
Warning Flags		\$3.00 ca.	_
*New Style SCDOT / NCDOT Approved Drum (4 - 6" H.I.P.	Stripes) < 100)-\$55.00 ea. / 100-499	9 \$52.00 ea.
/500-1000 \$47.00 ea / 1000+ \$41.00 Delivered			
Magnum Light Tower-Diesel, 30' Mast w/ 4-1000 watt lights		\$7,600.00 ea.	
Arrow Board 15 Lamp Solar LED	Purchase	\$3,995.00	
	Rental		.00/Wk \$450.00/Month
Electric Changeable Message Sign	Purchase	\$20,500 / Econo N	
	Rental		0.00/Wk \$1,500.00/Month
Truck Mount Attenuator w/ Arrow Panel	Reutal		00.00/wk, \$3200.00/mo.
Skid Mount Full Matrix Message Sign	92"x54"	\$11,615.00	
Truck Mount Attenuator Kit Test Level III		\$12,600.00 ca	
Crash Attenuator Test Level II w/Anchor Kit -45 mph		\$7,600.00 ea. 30°	" WIDE \$8500.00
Crash Attenuator Test Level III w/Anchor Kit-60 mph		\$11,400.00 ca.	
Crash Attenuator Test Level III w/Anchor Kit-70 mph		\$13,800.00 ea.	
Extra Anchor Kits		\$425.00 ea.	
Waterfill Barrier Wall 6 LF.		\$335.00 ca.	
8" Round Top Mount Barrier Wall Reflector (100+)		\$7.00 ea.	
JD1 Stick On Side Mount Barrier Wall Reflector (100+))	\$1.60 ea.	
Side Mount Barrier Wall Reflector		\$1.95 ca.	
No set up or delivery included			

- No set up or delivery included
- All materials meet SCDOT & FHWA NCHRP 350 Requirements
- For Larger Quantity Prices Call Bruce Cannon 864 235-1255
- · Prices subject to change without notice
- SCDOT Specification change effective June 2012

CERTIFIED DBE SCDOT



Protection Services Inc. 635 Lucknow Rd. Harrisburg, PA 17110 (717) 236-9307



FEDERAL ID NO. 23-2001976

W. Columbia, SC (803) 755-6529 Faxis (803) 985-0209

238825	40 E 10 F 1	Net 30 Days	1/10/2013	MAYORCE NUMBER
INVOICED TO:	- 1 - Marie - Name and a second con-		SHIP TO:	<u> </u>
Cleland Site Prep Inc PO Box 3822 Bluffton SC 29810			Clefand Site Prep Inc PO Box 3822 Bluffton SC 29910	
Q: CONSHIPTED VAR	SANCE TO SERESON TO THE	MAS DE LOS SAL	E& PERSON	BRANCH 20005400

Service Change of 1,25% Per Month 15% Annual to All Past Due

CUSTOMER PO #: SC170 Widening-Beaufort/Jasper PROJECT LOCATION: Jason Dunn-Direct Ship

WORK ORDER #: 20005400 ACCOUNT NUMBER: 95738

THE RESERVE THE DESCRIPTION AND THE PROPERTY OF THE PROPERTY O	QUANTITY (OOM: UNIT PRIGE AMOUNT
234969 DRUMS W/ TIRE RINGS DRUM B500 4-6"HIP	1200.00 EA 39.00 \$46,800.00

ALFOR SELEC	\$46,800.00
S TALLERYAY	\$2,808.00
MACHE TO LYT	\$49,008.00

JAN 14 2013 CLELAND

DD# 4204-04

SEGRET COOK 200000

OK Jan



P0130219R1