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**BOARD  
OF  
COMMISSIONERS**

**June 04, 2018  
7:00 PM**

*This agenda is only a tentative schedule of matters the Commissioners may address at their meeting and all items found on it may be deleted, amended or deferred. The Commissioners may also, in their absolute discretion, consider matters not shown on this agenda.*

*Special accommodations for the disabled who attend public meetings can be made by contacting the Clerk to the Board 24 hours in advance at 252-338-6363, Ext. 100.*

**Please turn Cell Phone ringers off during the meeting.**

## **Agenda**

**Camden County Board of Commissioners  
SCWSD - Regular Meeting  
June 04, 2018  
7:00 PM  
Historic Courtroom, Courthouse Complex**

### **CALL TO ORDER**

**ITEM 1. PUBLIC COMMENTS**

It is requested that comments be limited to (2-3) minutes. The length and number of comments may be limited upon the Chairman's discretion due to scheduling and other issues.

**ITEM 2. CONSIDERATION OF THE AGENDA**

**ITEM 3. OLD BUSINESS (For discussion and possible action)**

A. Wastewater Lagoon Liner Repair

**ITEM 4. PUBLIC HEARINGS**

1. Public Hearing: System Development Fee Analysis

**ITEM 5. NEW BUSINESS (For discussion and possible action)**

A. Monthly Update

B. Consideration of System Development Fees

C. FY 2018-2019 Water & Sewer Rates

**ITEM 6. CONSENT AGENDA**

1. DOT Sawyer's Creek Bridge Water Line Repair

**ITEM 7. OTHER**

**ITEM 8.     ADJOURN**



**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**Information**

**Item Number:** 3.A  
**Meeting Date:** June 04, 2018

**Submitted By:** David Credle, Public Works Director  
Public Works  
Prepared by: David Credle

**Item Title** **Wastewater Lagoon Liner Repair The 5.9 Million Gallon  
Wastewater Lagoon Liner at McPherson Road Has a 175 Foot  
Tear that Needs to be Repaired or Replaced.**

**Attachments:** Lagoon Liner Proposal (PDF)

**Summary:** Joe Anlauf, Anlauf Engineering, PLLC and Churck Harrell , Clearfield MMG will discuss the lagoon liner tear and the options to repair/replace it.

**Recommendation:** Approval.



Time and Materials Proposal

Synthetic Liner Overlay  
Camden Village Storage Lagoon  
South Mills, NC

**Attachment: Lagoon Liner Proposal : 1902) Wastewater Lagoon Liner Repair (I)**

DESCRIPTION	ESTIMATED QUANTITY	UNIT	FIXED UNIT PRICE	EXTENDED TOTAL AMOUNT	NOTES
<b>Task 1 - Mobilize to Site, Dig ~1,625 Linear Foot Top of Slope Anchor Trench, Wash and Prepare Existing RPP Liner</b>					
Equipment and Material Mobilization	1.0	LS	\$ 1,500.00	\$ 1,500.00	
Supply Labor Including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Supply Equipment including Compact Wheel Loader with Forks, Cat 305 Hydraulic Excavator, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1.0	Week	\$ 3,640.00	\$ 3,640.00	
Construction Debris Disposal	5	Ton	\$ 65.00	\$ 325.00	
Construction Debris Transportation, Roll-off	1	Load	\$ 300.00	\$ 300.00	
				<b>Estimated Task Total: \$</b>	<b>14,515.00</b>
<b>Task 2 - Install ~42,000 Square Feet of 45 Mil RPP Liner</b>					
Liner Crew Labor & Equipment Mobilization / Demobilization	1	Lump Sum	\$ 6,600.00	\$ 6,600.00	
Supply 45 Mil RPP Liner	42,000	Square Foot	\$ 0.85	\$ 35,700.00	
Deliver 45 Mil RPP Liner	1	LS	\$ 3,000.00	\$ 3,000.00	
Supply Labor and Equipment to Install Liner	5	Day	\$ 9,400.00	\$ 47,000.00	
6" RPP Pipe Boot	2	Each	\$ 420.00	\$ 840.00	
Concrete Batten Bar	30	Linear Feet	\$ 60.00	\$ 1,800.00	
Seam Cover Tape 100 Spool	20	Each	\$ 291.00	\$ 5,820.00	
				<b>Estimated Task Total: \$</b>	<b>100,760.00</b>
<b>Task 3 - Backfill Top of Slope Anchor Trench, Restore Site, Demobilization</b>					
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Supply Equipment including Compact Wheel Loader with Forks, Cat 305 Hydraulic Excavator, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1.0	Week	\$ 3,640.00	\$ 3,640.00	
Supply and Deliver Contractor Seed Mix, Starter Fertilizer, Single Net Straw Erosion Control Matting.	1	Lump Sum	\$ 5,000.00	\$ 5,000.00	
Supply 21A Aggregate	24	Ton	\$ 31.00	\$ 744.00	
Deliver 21A Aggregate	2	Load	\$ 150.00	\$ 300.00	
Equipment and Material Demobilization	1	Lump Sum	\$ 800.00	\$ 800.00	
				<b>Estimated Task Total: \$</b>	<b>19,234.00</b>
				<b>Estimated Project Total (All Tasks): \$</b>	<b>134,509.00</b>
<p><b>Conditions / Assumptions:</b></p> <ul style="list-style-type: none"> <li>All quantities are estimated in good faith based upon best professional judgement.</li> <li>Lagoon shall be dewatered by Camden County to 2 feet below normal water level prior to mobilization. Dewatering to 2' below normal water level shall be maintained by Camden County throughout the duration of the project.</li> <li>No liner repair warranty is offered due to degraded condition of existing synthetic liner.</li> <li>Vacuum testing of repair area seams will be completed at the time of installation.</li> <li>Invoice shall be based upon the above fixed unit rates for the actual amount of time or material required to complete the project.</li> <li>Scale records, delivery tickets, and shipping documents will be provided to the client to support invoiced quantities.</li> </ul>					



Time and Materials Proposal

Synthetic Liner Repair and Overlay  
Camden Village Storage Lagoon  
South Mills, NC

**Attachment: Lagoon Liner Proposal : 1902) Wastewater Lagoon Liner Repair**

DESCRIPTION	ESTIMATED QUANTITY	UNIT	FIXED UNIT PRICE	EXTENDED TOTAL AMOUNT	NOTES
<b>Task 1 - Install ~205 Linear Feet Cofferdam, Dewater, Northeast Slope Repair Area.</b>					
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Equipment and Material Mobilization / Demobilization	1	Lump Sum	\$ 7,825.00	\$ 7,825.00	
Supply Equipment including Compact Wheel Loader with Forks, CAT 318 Hydraulic Excavator, Cat 305 Hydraulic Excavator, 4"x6" Diesel Pump, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1	Week	\$ 6,370.00	\$ 6,370.00	
Supply 8x8x250' Cofferdam (His Aquabarrier or Equivalent)	1	Month	\$ 22,500.00	\$ 22,500.00	One month minimum rental period.
<b>Estimated Task Total:</b>				<b>\$ 45,445.00</b>	
<b>Task 2 - Remove ~175 Linear Feet of Damaged Liner, Install Top of Slope Anchor Trench, Repair Slope, Install Top of Slope Anchor Trench.</b>					
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Supply Equipment including Compact Wheel Loader with Forks, CAT 318 Hydraulic Excavator, Cat 305 Hydraulic Excavator, 4"x6" Diesel Pump, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1	Week	\$ 6,370.00	\$ 6,370.00	
Supply & Deliver Common Fill	250	CY	\$ 19.00	\$ 4,750.00	As required
Construction Debris Disposal	12	Ton	\$ 65.00	\$ 780.00	Old liner, scrap liner from repair, miscellaneous debris
Construction Debris Transportation, Roll-off	1	Load	\$ 300.00	\$ 300.00	
Non-Hazardous Mud Disposal	24	Ton	\$ 25.00	\$ 600.00	As required
Non-Hazardous Mud Transportation, Roll-off	2	Load	\$ 250.00	\$ 500.00	
<b>Estimated Task Total:</b>				<b>\$ 22,050.00</b>	
<b>Task 3 - Replace ~6,000 Square Feet (~175 LF) of Damaged RPP Liner</b>					
Liner Crew Labor & Equipment Mobilization / Demobilization	1	Lump Sum	\$ 6,600.00	\$ 6,600.00	
Supply 45 Mill RPP Liner	6,000	Square Foot	\$ 0.85	\$ 5,100.00	
Supply Labor and Equipment to Install Liner	3	Day	\$ 7,675.00	\$ 23,025.00	
6" RPP Pipe Boot	1	Each	\$ 420.00	\$ 420.00	
Concrete Batten Bar	10	Linear Feet	\$ 60.00	\$ 600.00	
Seam Cover Tape 100' Spool	6	Each	\$ 291.00	\$ 1,746.00	
<b>Estimated Task Total:</b>				<b>\$ 37,491.00</b>	
<b>Task 4 - Backfill Repair Area Anchor Trench, Remove and Decon Cofferdam, Partial Equipment Demobilization</b>					
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Supply Equipment including Compact Wheel Loader with Forks, CAT 318 Hydraulic Excavator, Cat 305 Hydraulic Excavator, 4"x6" Diesel Pump, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1	Week	\$ 6,370.00	\$ 6,370.00	
Supply and Deliver Bentonite Hole Plug (50lb Bag)	40	Bags	\$ 17.50	\$ 700.00	
Cofferdam, CAT 318, and Diesel Pump Demob	1	Lump Sum	\$ 3,000.00	\$ 3,000.00	
<b>Estimated Task Total:</b>				<b>\$ 18,820.00</b>	
<b>Task 5 - Dig ~1625 Linear Foot Top of Slope Anchor Trench, Wash and Prepare Existing RPP Liner</b>					
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator I.	5	Day	\$ 1,750.00	\$ 8,750.00	
Supply Equipment including Compact Wheel Loader with Forks, Cat 305 Hydraulic Excavator, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools.	1.0	Week	\$ 3,640.00	\$ 3,640.00	
Construction Debris Disposal	5	Ton	\$ 65.00	\$ 325.00	
Construction Debris Transportation, Roll-off	1	Load	\$ 300.00	\$ 300.00	
<b>Estimated Task Total:</b>				<b>\$ 13,015.00</b>	



**Attachment: Lagoon Liner Proposal (2061) : Wastewater Lagoon Liner Repair**

Time and Materials Proposal

Synthetic Liner Repair and Overlay  
Camden Village Storage Lagoon  
South Mills, NC

Task 6 - Overlay ~42,000 Square Feet of 45 Mil RPP Liner						
Supply 45 Mil RPP Liner	42,000	Square Feet	\$	0.85	\$	35,700.00
Deliver 45 Mil RPP Liner	1	LS	\$	3,000.00	\$	3,000.00
Supply Labor and Equipment to Install Liner	5	Day	\$	9,400.00	\$	47,000.00
6" RPP Pipe Boot	2	Each	\$	420.00	\$	840.00
Concrete Batten Bar	30	Linear Feet	\$	60.00	\$	1,800.00
Seam Cover Tape 100' Spool	20	Each	\$	291.00	\$	5,820.00
				<b>Estimated Task Total:</b>		<b>94,160.00</b>

Task 7 - Backfill, Top of Slope Anchor, Trench, Restore Site, Demobilization						
Supply Labor including Site Supervision, Sr. Heavy Equipment Operator, and Heavy Equipment Operator 1	5	Day	\$	1,750.00	\$	8,750.00
Supply Equipment including Compact Wheel Loader with Forks, Cat 305 Hydraulic Excavator, 2" Submersible Pump, Hoses, Project Vehicles, Enclosed Cargo Trailer, Fuel and Miscellaneous Tools	1.0	Week	\$	3,640.00	\$	3,640.00
Supply and Deliver Contractor Seed Mix, Starter Fertilizer, Single Net Straw Erosion Control Matting	1	Lump Sum	\$	5,000.00	\$	5,000.00
Supply 21A Aggregate	24	Ton	\$	31.00	\$	744.00
Deliver 21A Aggregate	2	Load	\$	150.00	\$	300.00
Equipment and Material Demobilization	1	Lump Sum	\$	800.00	\$	800.00
				<b>Estimated Task Total:</b>		<b>19,234.00</b>

**Estimated Project Total (All Tasks) \$ 250,215.00**

- Conditions / Assumptions:**
- All quantities are estimated in good faith based upon best professional judgement.
  - Cofferdam installation eliminates the requirement to dewater the entire lagoon and install an influent/effluent bypass.
  - Lagoon shall be dewatered by Camden County for 2 feet below normal water level prior to mobilization. Dewatering to 2' below normal water level shall be maintained by Camden County throughout the duration of the project.
  - Clay bottom liner penetrations will be repaired with Bentonite hole plug.
  - No liner repair warranty is offered due to degraded condition of existing synthetic liner.
  - Vacuum testing of repair area seams will be completed at the time of installation.
  - Invoice shall be based upon the above fixed unit rates for the actual amount of time or material required to complete the project.
  - Scale records, delivery tickets, and shipping documents will be provided to the client to support invoiced quantities.

## David Credle

---

**From:** Chuck Harrell <charrell@clearfieldmmg.com>  
**Sent:** Tuesday, February 27, 2018 10:43 AM  
**To:** David Credle; Joseph Anlauf  
**Subject:** RE: Camden Lagoon  
**Attachments:** Camden Village Lagoon, T&M Proposal-Slope Overlay.pdf; Camden Village Lagoon, T&M Proposal-Slope Section Repair and Overlay.pdf; Camden Village Lagoon, Slope Section Repair and Overlay Figure.pdf

Good Morning Gentlemen,

Attached are Time and Materials Proposals to implement the UV flap option which I am now going to refer to as an "overlay". There are 3 attachments including a T&M proposal for the overlay if we performed it as a standalone event, a T&M proposal which combines the ~175' repair and the overlay done under a single mobilization, and a figure which shows the repair and overlay areas on an aerial.

Both options require that the lagoon be dewatered to 2' below the existing waterline so that we can seam dry liner at 1' below the normal water line. I assumed that this would not be an issue since NCDEQ has asked that this be done as part of the response to the current tear in the liner.

Please keep in mind, we will need to walk up and down the liner to leister and tape the vertical and horizontal seams. We may damage the existing liner during this process which could prolong the duration of work. We accounted for slower than normal production rates but want everyone to be aware this proposal is T&M and could grow. Since significant portions of the liner are at the end of its life expectancy and were observed to not be laying directly on the slope subgrade, no warranty is offered for the repaired liner system. At the time of installation, all seams will be vacuum tested and documented to be air tight.

Should you have any questions or require additional information, please feel free to contact me.

r/Chuck



**Chuck Harrell**  
 Senior Project Manager  
 Clearfield MMG  
 P.O. Box 1444  
 Chesapeake, VA 23327  
 p: 757-549-8448 f: 757-549-6668  
[www.clearfieldmmg.com](http://www.clearfieldmmg.com)

**From:** Joseph Anlauf [<mailto:jjanlauf@gmail.com>]  
**Sent:** Thursday, February 22, 2018 1:21 PM  
**To:** Chuck Harrell <[charrell@clearfieldmmg.com](mailto:charrell@clearfieldmmg.com)>  
**Cc:** David Credle <[dcredle@camdencountync.gov](mailto:dcredle@camdencountync.gov)>  
**Subject:** Re: Camden Lagoon

Thank you.

Sincerely,  
 Joseph J. Anlauf, PE  
 Anlauf Engineering, PLLC



4721 W. Eckner Street  
Kitty Hawk, NC 27949  
(252)489-7143

On Thu, Feb 22, 2018 at 1:18 PM, Chuck Harrell <[charrell@clearfieldmmg.com](mailto:charrell@clearfieldmmg.com)> wrote:

I will get to work on pricing the UV flap.

R/Chuck

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Joseph Anlauf <[jjanlauf@gmail.com](mailto:jjanlauf@gmail.com)>  
Date: 2/22/18 12:55 PM (GMT-05:00)  
To: David Credle <[dcredle@camdencountync.gov](mailto:dcredle@camdencountync.gov)>  
Cc: Chuck Harrell <[charrell@clearfieldmmg.com](mailto:charrell@clearfieldmmg.com)>  
Subject: Camden Lagoon

David,

I had a conference call with Randy Sipe and Robert Tankard this morning. They were not upset about the tone of my letter and they understand my position that no reclaimed water has been released. They simply issued an NOV to ensure that a repair was made.

They indicated that as long as we kept moving forward towards repair we would be okay. I informed them that the soonest we could present options to the Board of Commissioners would be the April 2018 meeting.

In order to keep from having a discharge of reclaim water they want the basin to have 2 foot of freeboard to the rip (water level in lagoon needs to be kept down 2 feet from the elevation of the rip until the rip is fixed). I will send a separate email and cc them with the directive to hold 2 feet of freeboard to the rip.

I explained the UV flap option and they have agreed to consider it as a viable repair option.

Chuck,

Please prepare a price quote for the UV flap option.

Sincerely,  
Joseph J. Anlauf, PE  
Anlauf Engineering, PLLC  
4721 W. Eckner Street  
Kitty Hawk, NC 27949  
(252)489-7143

Attachment: Lagoon Liner Proposal (2061 : Wastewater Lagoon Liner Repair)

# TECHNICAL INFORMATION SHEET

## Firestone Reinforced Polypropylene (fPP-R) Geomembrane

### Item Description

Black, White, Tan or Patina Green  
 Flexible Reinforced Polypropylene (fPP-R)  
 Geomembrane Rolls.

### Item Number

Various

Product meets or exceeds ASTM D-7613

### Product Information

#### Description:

Firestone fPP-R Geomembrane is a flexible reinforced polypropylene geomembrane that is produced with 9 x 9 polyester weft inserted scrim reinforcement. This heat weld-able fPP-R geomembrane is available in 36 mil-0.91 mm (0.036"), 45 mil-1.14 mm (0.045") and 60 mil-1.52 mm (0.060") thicknesses. The membrane is available with surface colors in black, white, patina green, and tan, all with a black backing. All colors are available in 3.05 m (10') widths.

#### Method of Application:

1. Firestone fPP-R Geomembrane is installed as a continuous layer. Rolls or panels made from rolls are overlapped (Side Laps and End Laps) prior to the heat welding of the seam areas.
2. All cut scrim areas must be sealed with Firestone extrusion weld bead.
3. Install Firestone fPP-R Geomembrane in accordance with current Firestone Building Products specifications, guidelines and details, available here, [fPP and fPP-R Technical Information](#)

#### Storage:

- Store away from sources of punctures and physical damage.
- Store away from ignition sources as geomembrane will burn when exposed to open flame.

#### Preparation of Substrates:

1. Substrates must be dry, smooth, and free of sharp edges, loose or foreign materials, oil, grease, and other materials which may damage the geomembrane.
2. All rough surfaces or voids which could damage the geomembrane shall be repaired prior to installing the geomembrane, as specified.

#### Precautions:

1. Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
2. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the geomembrane. Contact Firestone Building Products for specific recommendations regarding chemical compatibility.
3. Refer to Safety Data Sheets (SDS) for safety information.

#### LEED® Information:

Post Consumer Recycled Content: 0%  
 Post Industrial Recycled Content: 10%  
 Manufacturing Location: Wellford, SC

\*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

# TECHNICAL INFORMATION SHEET

## Firestone Reinforced Polypropylene (fPP-R) Geomembrane

### Typical Properties

Property	Test Method	Typical Values
Tolerance on nominal thickness, %	ASTM D 5199	0.91 mm (0.036") ± 10 1.14 mm (0.045") ± 10 1.52 mm (0.060") ± 10
Thickness over scrim, mm (inches) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 4637 Optical Method	0.254 (0.010) min 0.330 (0.013) min 0.762 (0.030) min
Mass per unit area, kg/m <sup>2</sup> (lb/ft <sup>2</sup> ) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 5261	0.89 (0.18) typical 1.03 (0.21) typical 1.22 (0.25) typical
Breaking strength, kN (lbf) (Grab tensile at strain rate of 12"/min) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 7004	.98 (220) min 260 typical 300 typical
Elongation at break of fabric, %	ASTM D 7004	25 typical
Tearing strength, N (lbf) (50.8 mm (2") / min strain rate) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 5884 (max. load)	224 (55) min 224 (55) typical 271 (61) typical
Low temperature flexibility, °C (°F)	ASTM D 2136 ½" mandrel 4 hour @ - 40 (- 40).	PASS
Linear Dimensional Change (shrinkage), % 6h @ 70 °C (158 °F) or 1h @ 100 °C (212 °F)	ASTM D 1204	+/- 1.0 max - 0.5 typical
Ozone resistance, 100 pphm, 168 hours	ASTM D 1149	No cracks
Resistance to water (distilled) absorption After 30 days immersion 50 °C (122 °F) Change in mass, %	ASTM D 471 (coating compound only)	1.0 max 0.5 typical
Hydrostatic resistance, MPa (lbf/in <sup>2</sup> or psi) (Mullen burst) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 751 Procedure A	2.4 (350) min 2.9 (426) typical 3.1 (455) typical 3.4 (500) typical
Field seam strength, kN/m (lbf/in.) Seam tested in peel after weld	ASTM D 751 1 in. wide	3.9 (22) min 5.8 (33) typical
Water vapor permeance, Pems	ASTM E 96	0.10 max 0.05 typical
Puncture resistance, N (lbf) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 4833 (index puncture)	330 (75) min 556 (125) typical 605 (136) typical
Resistance to xenon-arc weathering Xenon-Arc, 15,120 kJ/m <sup>2</sup> total radiant exposure, visual condition at 10X	ASTM G 155 0.70 W/m <sup>2</sup> 80 °C B.P.T.	No cracks No loss of breaking or tearing strength
Potable Water Accepted	NSF-61	PASS
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E-729 Method 1000.0	PASS
Ultraviolet Light Resistance ≥ 50% strength and elongation retained as per ASTM D6993-IV, with no surface cracking, and minor to no surface chalking	ASTM D7238 @ 70 °C (158 °F) for 20,000 hours	PASS
Ply Adhesion, kN/m (lbf/in.) minimum average	ASTM D6636	2.6 (15) min. avg.

# TECHNICAL INFORMATION SHEET

## Firestone Reinforced Polypropylene (fPP-R) Geomembrane

### Geomembrane Panel Sizes

Product*	Dimensions		Packaging Type	Part Number	Gauge	Coverage		Weight Per roll (typical)	
	SI Units (meters)	Eng Units (feet)				SI Units (m <sup>2</sup> )	Eng Units (ft <sup>2</sup> )	SI Units (kg)	Eng Units (lbs)
36 mil fPP-R Black	3.05 x 152.4	10 x 500	Roll	W56VB39950	0.91 mm (0.036")	450	5,000	373	850
45 mil fPP-R Black	3.05 x 121.9	10 x 400	Roll	W56VB49940	1.14 mm (0.045")	360	4,000	371	840
45 mil fPP-R (GM 18** Certified) Black	3.05 x 121.9	10 x 400	Roll	W56VB49948	1.14 mm (0.045")	360	4,000	371	840
60 mil fPP-R Black	3.05 x 91.4	10 x 300	Roll	W56VB69930	1.52 mm (0.060")	270	3,000	329	750

\* For all fPP-R products, a COA (Certificate of Analysis) is provided with every order matching the roll numbers and the sales order.

\*\* GM18 - Rolls that are certified to meet the GRI - GM 18 specification are available in 45 mil – Black only, as special order items in 10' x 400' rolls. Allow two weeks or more for processing GM 18 orders.

- Minimum order quantities are required for colored membranes (other than black).
- Minimum order quantities are required for 60 mil membranes.

Please contact Firestone Building Product Geomembrane Sales Department at 1-888-264-1735 for further information.

*This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.*

***R. K. FROBEL & ASSOCIATES***  
***Consulting Engineers***

Barbara Stickney  
Firestone Building Products

March 9, 2018

RE: Permeability of 45 mil fPP-R Geomembranes as Compared to a Compacted Clay Liner (CCL)

A direct comparison of hydraulic conductivity or permeability of a CCL and a geomembrane such as fPP-R is difficult. The hydraulic conductivity of a CCL to water can be directly measured in a permeameter and although highly variable, usually is in the range of  $10E-5$  to  $10E-07$  cm/s. A geomembrane, however, is considered relatively impermeable with water movement on a molecular level that can only be calculated from water vapor transmission test data and using Darcy's Law. Flexible Polypropylene Reinforced (fPP-R) geomembranes in 45 mil thickness are non-porous, homogeneous material that maintains a calculated permeability of approximately  $10E-11$  cm/sec.

If you have any questions on the above, give me a call at 720-289-0300 or email [geosynthetics@msn.com](mailto:geosynthetics@msn.com).

Sincerely Yours,

*R. K. Frobel*

Ronald K. Frobel, MSCE, PE  
Owner/Principal



**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**Public Comments**

**Item Number:** 4.1  
**Meeting Date:** June 04, 2018

**Submitted By:** Stephanie Humphries, Finance Director  
 Finance  
 Prepared by: Stephanie Humphries

**Item Title** **Public Hearing: System Development Fee Analysis**

**Attachments:** Camden County System Development Fee Final Report(PDF)

**Summary:**

New legislation requires an analysis to be performed by a qualified professional on system development fees charged by Water and/or Sewer Districts/Associations. The District/Association must then give the public 45 days to review the proposed fee(s) then hold a Public Hearing for public comment.

The analysis is complete and has been published as required by the statute. The analysis has been available for review and comment through our county website at [www.camdencountync.gov](http://www.camdencountync.gov) and at our Administration office building since 8:00 AM, April 20, 2018.

Raftelis will present the findings of the analysis. The Board will then allow time for public comment on the analysis.

**Recommendation:**

Consideration of System Development Fees has been set as a New Business Item on the agenda.



RAFTELIS

227 West Trade Street  
Suite 1400  
Charlotte, NC 28202

Phone 704 • 373 • 1199  
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[www.raftelis.com](http://www.raftelis.com)

April 19, 2018

Ms. Stephanie Humphries  
Finance Office  
Camden County  
117 N Carolina Hwy 343 S  
Camden, NC, 27921

Dear Ms. Humphries:

Raftelis has completed an evaluation to develop cost-justified water and wastewater system development fees for consideration by Camden County (County). This letter documents the results of the analysis, which is based on an approach for establishing system development fees set forth in North Carolina General Statute 162A Article 8 – “System Development Fees.” As one of the largest and most respected utility financial, rate, management, and operational consulting firms in the U.S., and having prepared system development fee calculations for utilities in North Carolina and across the U.S. since 1993, Raftelis is qualified to perform system development fee calculations for water and wastewater utilities in North Carolina.

### Background

System development fees are one-time charges assessed to new water and/or wastewater customers, or developers or builders, to recover a proportional share of capital costs incurred to provide service availability and capacity for new customers. North Carolina General Statute 162A Article 8 (Article 8) provides for the uniform authority to implement system development fees for public water and wastewater systems in North Carolina, and was recently passed by the North Carolina General Assembly and signed into law on July 20, 2017. According to the statute, system development fees must be adopted in accordance with the conditions and limitations of Article 8, and must conform to the requirements set forth in the Article no later than July 1, 2018. In addition, the system development fees must also be prepared by a financial professional or licensed professional engineer, qualified by experience and training or education, who, according to the Article, shall:

- Document in reasonable detail the facts and data used in the analysis and their sufficiency and reliability.
- Employ generally accepted accounting, engineering, and planning methodologies, including the buy-in, incremental cost or marginal cost, and combined cost approaches for each service, setting forth appropriate analysis to the consideration and selection of an approach appropriate to the circumstances and adapted as necessary to satisfy all requirements of the Article.

- Document and demonstrate the reliable application of the methodologies to the facts and data, including all reasoning, analysis, and calculations underlying each identifiable component of the system development fee and the aggregate thereof.
- Identify all assumptions and limiting conditions affecting the analysis and demonstrate that they do not materially undermine the reliability of conclusions reached.
- Calculate a final system development fee per service unit of new development and include an equivalency or conversion table for use in determining the fees applicable for various categories of demand.
- Consider a planning horizon of not less than 10 years, nor more than 20 years.

This letter report documents the results of the calculation of water and wastewater system development fees for the County in accordance with these requirements.

Article 8 references three methodologies that can be used to calculate system development fees. These include the buy-in method, the incremental cost method, and the combined cost method. A description of each of these methods follows:

#### Buy-In Approach

The System Buy-In Approach calculates a system development fee based upon the proportional cost of each user's share of existing system capacity, and is most appropriate in cases where the existing system assets provide adequate capacity to provide service to new customers. The cost of the facilities is based on fixed assets records and can include escalation of the depreciated value of those assets to current dollars, or "replacement costs" as identified in the general statute. The general statute also identifies adjustments to be made to the replacement cost such as "debt credits, grants, and other generally accepted valuation adjustments."

#### Incremental Cost Approach

The Incremental Cost (or Marginal Incremental) Approach calculates a system development fee based upon a new customer's proportional share of the incremental future cost of system capacity. This approach focuses on the cost of adding additional facilities to serve new customers. It is most appropriate when existing facilities do not have adequate capacity to provide service to new customers, and the cost for new capacity can be tied to an approved capital improvement plan (CIP) that covers at least a 10-year planning period. Per the general statute, a revenue credit must be applied "against the projected aggregate cost of water or sewer capital improvements."

#### Combined Approach

The Combined Approach is a combination of the Buy-In and Incremental Cost approaches, and is appropriate to be used when the existing assets provide some capacity to accommodate new customers, but where the capital improvement plan also identifies significant capital investment to add additional infrastructure to address future growth and capacity needs.



### Summary of Results

Raftelis requested and was provided with the following data from County staff to complete the system development fee calculation:

- Water and wastewater fixed asset data, as of June 30, 2017;
- Outstanding utility debt and associated debt service;
- Contributed capital;
- Grant- funded assets;
- Capacity in plants, and
- History of system development fees collected

The Buy-In Approach was chosen as the method to calculate the system development fees. Adequate capacity currently exists in the water and wastewater treatment facilities and in the water transmission and wastewater collection lines to accommodate the anticipated growth in the near term. The County has identified several projects in its capital improvement plan to expand the wastewater system capacity to serve future development. However, the County currently only has a 5-year capital improvement plan, which does not meet the 10-year planning horizon requirement set forth in the General Statute.

### Buy-In Calculation

Using the Buy-In approach, Raftelis calculated the estimated cost, or investment in, the current capacity available to provide water and wastewater utility services to existing and new customers. This analysis was based on a review of fixed asset records and other information as of June 30, 2017. The depreciated value of the assets is first adjusted to reflect an estimated replacement cost to determine the “replacement cost new less depreciation” (RCNLD) value for the assets. The asset values were adjusted using the Handy Whitman Index of Public Utility Construction Costs (South Atlantic Region).

As shown in Exhibit 1, several adjustments were then made to the estimated water and wastewater RCNLD values in accordance with Article 8, which included adjustments for contributed assets, non-core assets, and outstanding debt as described below.

- *Contributed Assets* - All assets contributed by or paid for by developers, or assets that were grant funded were excluded from the calculation since these costs were not ultimately “paid” by the existing customers. The County indicated that no assets were contributed by developers. Therefore, only grant funded assets were removed from the analysis.
- *Other Non-Core Assets* - Equipment, vehicles, and meters were excluded since they do not represent core assets.
- *Outstanding Principal Debt* - Utilities often borrow funds to construct assets, and revenues from retail rates and charges can be used to make the payments on these borrowed funds. To ensure that new customers are not being double charged for these assets, once through the system development fee and again through retail rates and charges, the proportion of the outstanding

debt principal amount that is anticipated to be paid for through retail rates and charges is typically deducted from the system development fee calculation. Since the County makes debt service payments exclusively with retail rates and charges, and instead uses system development fee revenues to pay for capital projects, all outstanding principal debt was deducted.

#### Exhibit 1 – RCNLD Value and Adjustments<sup>1</sup>

	Water	Wastewater	Total
<b>Total RCNLD Value of Fixed Assets</b>	<b>\$ 19,671,494</b>	<b>\$ 14,530,562</b>	<b>\$ 34,202,056</b>
<b>Adjustments</b>			
Contributed Capital	(11,275,146)	(12,377,496)	(23,652,642)
Outstanding Principal Debt	(2,145,962)		(2,145,962)
Equipment	(33,388)	-	(33,388)
Vehicles	(45,304)	-	(45,304)
Meter	(2,319)	-	(2,319)
<b>Adjusted RCNLD</b>	<b>\$ 6,169,376</b>	<b>\$ 2,153,065</b>	<b>\$ 8,322,441</b>

The adjusted RCNLD values for water and wastewater were then converted to a unit cost of system capacity as shown by dividing the RCNLD values by the water and wastewater capacities.

The cost per gallon per day (GPD) for water and wastewater capacity is shown below in Exhibit 2.

#### Exhibit 2 – Cost per GPD of Core Utility Assets for Buy-In Approach

	Water	Wastewater
<b>Adjusted RCNLD</b>	<b>\$6,169,376</b>	<b>\$2,153,065</b>
<b>Total Capacity (GPD)</b>	<b>720,000</b>	<b>100,000</b>
<b>Cost per Gallon per Day</b>	<b>\$8.57</b>	<b>\$21.53</b>

This measure becomes the basic building block or starting point for determining the *maximum cost-justified level* of the water and wastewater system development fees. Fees for different types of

<sup>1</sup> Additional details regarding the RCNLD calculation are provided in the Schedules from the System Development Fee Model in the Appendix.

customers are based on this cost of capacity multiplied by the amount of capacity needed to serve each type or class of customer.

#### Equivalent Residential Unit (ERU) Calculation and Assessment of Fee

The next step is to define the level of demand associated with a typical, or average, residential customer, often referred to as an Equivalent Residential Unit, or ERU. The County uses the wastewater design flow rates as specified by the North Carolina Administrative Code Title 15A (Department of Environment and Natural Resources) Subchapter 2T, which states that the sewage from dwelling units is 120 gallons per day per bedroom. The County uses a three-bedroom home (or 360 gallons per day) as the equivalent residential unit.

The calculation of the system development fee is based on the cost per gallon per day multiplied by the number of gallons per day required to serve each customer, as shown below in Exhibit 3.

#### **Exhibit 3 – Calculated Maximum Residential System Development Fees**

Single-Family	Water	Wastewater
<b>Cost per GPD</b>	<b>\$8.57</b>	<b>\$21.53</b>
<b>GPD per ERU</b>	<b>360</b>	<b>360</b>
<b>Calculated System Development Fee per ERU</b>	<b>\$3,085</b>	<b>\$7,751</b>
<b>Existing System Development Fee per ERU</b>	<b>\$2,500</b>	<b>\$7,400</b>

For non-residential customers with larger meters, the fees for the smallest residential meter are used and then scaled up by the flow ratios for each meter size, as specified in the AWWA M-1 Manual<sup>2</sup>. Exhibit 4 shows the resulting system development fees by meter size for meters ranging from 3/4 inches to 12 inches. For these calculations, the system development fees have been rounded to the nearest dollar.

<sup>2</sup> See the AWWA M-1 Manual – Appendix B- Equivalent Meter Ratios; pp.326

**Exhibit 4 – Calculated Maximum System Development Fees for Non-Residential Customers**

Calculated Fee					
Meter Size	Flow (gpm)	Ratio	Water	Wastewater	
5/8"	20	1.0	\$ 3,085	\$ 7,751	
1"	50	2.5	7,712	19,378	
1.5"	100	5.0	15,423	38,755	
2"	160	8.0	24,678	62,008	
3"	320	16.0	49,355	124,017	
4"	500	25.0	77,117	193,776	
6"	1000	50.0	154,234	387,552	
8"	1600	80.0	246,775	620,083	
10"	4200	210.0	647,784	1,627,717	
12"	5300	265.0	817,442	2,054,024	

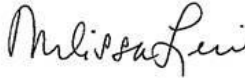
The County may elect to charge a cost per gallon that is less than the maximum cost-justified cost documented in this report. If the County elects to charge a fee that is less, all customers must be treated equally, meaning the same reduced cost per gallon per day must be used for all customers.

Please contact me at your convenience if you have any questions regarding this report. We appreciate the opportunity to assist Camden County with this important engagement.

Very truly yours,  
**RAFTELIS FINANCIAL CONSULTANTS, INC.**



Keith Readling,  
PE Executive Vice President



Melissa Levin,  
Senior Manager

# Appendix

## Supporting Schedules From the System Development Fee Model

### Schedule 1 – Buy-In Approach for Water and Wastewater System

	Water	Sewer	Total
<b>Fixed Assets (1)</b>			
Water Equipment	21,281	-	21,281
Heavy Machinery	-	-	-
Other Moterized	6,458	-	6,458
Water Vehicles	38,846	-	38,846
Vehicles	-	-	-
R/O Plant/Sewer	-	937,839	937,839
Office Furniture	-	-	-
Sewer Plant	71,001	-	71,001
Radios	-	-	-
Plant & Distribution	19,003,607	-	19,003,607
Equipment	12,107	-	12,107
Collections/Lines	-	8,003,918	8,003,918
Treatment Plant	-	4,748,935	4,748,935
Sewer Buildings	-	770,575	770,575
R/O Plant	72,069	-	72,069
Water Construction	396,126	-	396,126
Sewer Construction	-	69,295	69,295
Office Machinery	-	-	-
Land	50,000	-	50,000
<b>Total RCNLD Value of Fixed Assets</b>	<b>\$ 19,671,494</b>	<b>\$ 14,530,562</b>	<b>\$ 34,202,056</b>
<b>Adjustments (2)</b>			
Contributed Capital	(11,275,146)	(12,377,496)	(23,652,642)
Outstanding Principal Debt	(2,145,962)	-	(2,145,962)
Equipment	(33,388)	-	(33,388)
Vehicles	(45,304)	-	(45,304)
Meter	(2,319)	-	(2,319)
<b>Net RCNLD</b>	<b>\$ 6,169,376</b>	<b>\$ 2,153,065</b>	<b>\$ 8,322,441</b>
<b>Divided by:</b>			
System Capacity (Gallons per Day) (3)	720,000	100,000	820,000
<b>Net Cost per Gallon per Day</b>	<b>\$ 8.57</b>	<b>\$ 21.53</b>	<b>\$ 10.15</b>
<b>Multiplied by:</b>			
Average Consumption per ERU	360	360	
<b>Maximum System Development Fee per ERU</b>	<b>\$ 3,085</b>	<b>\$ 7,751</b>	<b>\$ 10,836</b>
<i>Existing System Development Fee</i>	<i>\$ 2,500</i>	<i>\$ 7,400</i>	<i>\$ 9,900</i>

- (1) Fixed asset information was provided by the County and the net book value was escalated to 2017 to calculate the replacement cost new less depreciation (RCNLD)
- (2) The RCNLD is adjusted to exclude contributed or grant funded or developer-contributed assets, outstanding principal debt, as well as vehicles, equipment, and meters
- (3) This represents the rated capacity of the water and wastewater treatment plants
- (4) The average daily consumption is based on NCAC 02T.0114, which states that the average wastewater permitted capacity design flow rates are 120 gallons per bedroom per day. A 3 bedroom ERU was assumed for this analysis

Schedule 2 – Outstanding Principal Debt Adjustment

Outstanding Principal Debt	Water	Wastewater
Installation of Water Lines	\$ 1,047,537	\$ -
Phase II Water Lines	203,395	-
Reverse Osmosis Plant	404,770	-
Reverse Osmosis Upgrade	490,260	-
<b>Total</b>	<b>\$ 2,145,962</b>	<b>\$ -</b>



**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**Information**

**Item Number:** 5.A  
**Meeting Date:** June 04, 2018

**Submitted By:** David Credle, Public Works Director  
Public Works  
Prepared by: David Credle

**Item Title** Monthly Update

**Attachments:** April 2018 (DOCX)

**Summary:** Monthly update.

**Recommendation:** Approval.



**South Camden Water & Sewer Board**  
**Monthly Work Order Statistics Report**  
**Period: April 2018**

	<b>Submitted Work Orders</b>	<b>Completed Work Orders</b>	<b>Percentage Completed</b>	<b>Status of Uncompleted Work Orders</b>
<b>Water/Distribution</b>	<b>75</b>	<b>75</b>	<b>100%</b>	<b>0</b>
<b>Sewer/Collection</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>

**Locates:**

**Water Line: 86**

**Sewer Line: 37**

**Water & Sewer, same ticket:1**

**Hydrant flow tested: 3**

**Public Works Director Notes/Comments: Ten work orders have been checked for accuracy.**

**Gallons of water treated in April at the water plant: 9,922,000**

**Daily average gallons of water usage for April: 330,733**

**Current treatment capacity at the R/O WTP: 720,000 gallons per day.**

Attachment: April 2018 (2060 : Monthly Update)



**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**New Business**

**Item Number:** 5.B  
**Meeting Date:** June 04, 2018  
**Submitted By:** Stephanie Humphries, Finance Director  
 Finance  
 Prepared by: Stephanie Humphries

**Item Title**                      **Consideration of System Development Fees**

**Attachments:**

**Summary:**

New legislation requires an analysis to be performed by a qualified professional on system development fees charged by Water and/or Sewer Districts/Associations. The District/Association must then give the public 45 days to review the proposed fee(s) then hold a Public Hearing for public comment.

The analysis is complete and has been published as required by the statute. The analysis has been available for review and comment through our county website at [www.camdencountync.gov](http://www.camdencountync.gov) and at our Administration office building since 8:00 AM, April 20, 2018.

Raftelis will present the findings of the analysis during the scheduled public hearing. Public comments will be presented for Board consideration. No comments were received during the Public Comment period prior to the June 4th, 2018 Public Hearing.

**Recommendation:**

Existing System Development Fees:  
 Water \$2,500  
 Sewer \$7,400



Maximum System Development Fee Calculated by Allowable Method contained in Statute:

Water \$3,085

Sewer \$7,751

**Due to the significant cost of connecting to the system, staff is not recommending increasing the fees at this time.**



**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**New Business**

**Item Number:** 5.C  
**Meeting Date:** June 04, 2018

**Submitted By:** Stephanie Humphries, Finance Director  
Finance  
Prepared by: Stephanie Humphries

**Item Title** **FY 2018-2019 Water & Sewer Rates**

**Attachments:** 2018-2019 WATER & SEWER FEE CHANGES (PDF)  
South Camden Water Rates 2018-2019 (PDF)  
South Camden Sewer Rates 2018-2019 (PDF)

**Summary:** Attached Water & Sewer Rates for 2017-2018 Fiscal Year

**Recommendation:** **Approve rates as presented**

# SOUTH CAMDEN WATER & SEWER DISTRICT

## 2018-2019 PROPOSED WATER & SEWER FEE CHANGES

### WATER RATES

**MONTHLY BASE RATE:**

**No Change**

**ADDITIONAL MONTHLY USAGE:**

<u>Gallons</u>	<u>Cost</u>	
2001-5000 gal.	\$5.50 per 1,000 gal	<b><u>No Change</u></b>
5001-10,000	\$6.20 per 1,000 gal	<b><u>Increased .20</u></b>
10,001-15,000	\$6.90 per 1,000 gal	<b><u>Increased .30</u></b>
15,001-20,000	\$7.60 per 1,000 gal	<b><u>Increased .40</u></b>
20,001 and up	\$8.30 per 1,000 gal	<b><u>Increased .50</u></b>
<b>Bulk Water</b>	\$6.91 per 1,000 gal	<b><u>Increased .27</u></b>
(except contracted sales)		

### SEWER RATES

**MONTHLY BASE RATE:**

Residential*	\$29.00; 0 – 2,000 gallons	<b><u>Increased \$1</u></b>
Commercial	\$40.00; 0 – 2,000 gallons	<b><u>Increased \$2</u></b>

**NEW USAGE TIER RATE STRUCTURE**

MATCHES WATER USAGE TIERS & CREATES COMMERCIAL TIERS

**ADDITIONAL MONTHLY USAGE:**

	<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>
2001-5000 gal.	\$7.50 per 1,000 gal	\$8.50 per 1,000 gal
5001-10,000	\$8.20 per 1,000 gal	\$9.20 per 1,000 gal
10,001-15,000	\$8.90 per 1,000 gal	\$9.90 per 1,000 gal
15,001-20,000	\$9.60 per 1,000 gal	\$10.60 per 1,000 gal
20,001 and up	\$10.30 per 1,000 gal	\$11.30 per 1,000 gal

**Additional Changes**

**GOVERNMENTAL & SCHOOLS:**

Will be charged 2 times Commercial Rate for Base Fee & Additional Usage

CAMDEN COUNTY  
South Camden Water & Sewer  
Water Fee Schedule  
(PROPOSED July 1, 2018)

**WATER SERVICE FEES**

**MONTHLY BASE RATE:**

<u>Gallons</u>	<u>Cost</u>
0-2,000	\$25.00 per month

**ADDITIONAL MONTHLY USAGE:**

<u>Gallons</u>	<u>Cost</u>
2001-5000 gal.	\$5.50 per 1,000 gal
5001-10,000	\$6.20 per 1,000 gal
10,001-15,000	\$6.90 per 1,000 gal
15,001-20,000	\$7.60 per 1,000 gal
20,001 and up	\$8.30 per 1,000 gal

<b>Local Govt/Board of Education/Commercial</b>	Same as above
<b>Bulk Water</b> (except contracted sales)	\$6.91 per 1,000 gal
<b>Fire Service</b> (sprinkler systems)	Base Rate per month

**Deposits:**

Rent deposit: \$200  
Fire Hydrant Meter: \$300

**Charges & Fees:**

Open/reopen/transfer acct.	\$20.00
Reread meter/our read correct	\$15.00
Reread meter/our read incorrect:	No charge
Reconnection Fee:	\$35.00 7am-3:15pm
<i>(if not paid by 8am on disconnection day)</i>	\$60.00 3:16-5:00pm
Late payment penalty:	\$10.00
Non-Sufficient Funds:	\$25.00
Meter Tampering fee:	\$200.00
Turn off/Turn off fee:	\$15.00 <i>(per occurrence)</i>
Meter testing fee: if accurate	\$15.00 <i>(No chg if more than 2.5% inaccurate)</i>
Bacteriological	\$45.00

**Water Capacity Fees:**

*(includes \$1,500 Tap Fee)*

¾ inch	\$4,000.00	4 inch	\$7,000.00
1 inch	\$4,500.00	6 inch	\$8,000.00
2 inch	\$5,000.00	6 inch fire svc	\$4,000.00
3 inch	\$6,000.00	Hwy158/Bore	\$2,000.00

\*County installs up to 2 inch lines. User hires Contractor if over 2 inches.

**CAMDEN COUNTY**  
**South Camden Water & Sewer**  
**Sewer Fee Schedule**  
*(PROPOSED July 1, 2018)*

**SEWER SERVICE FEES**

**MONTHLY BASE RATE:**

Residential\*            \$29.00; 0 – 2,000 gallons  
Commercial            \$40.00; 0 – 2,000 gallons

**ADDITIONAL MONTHLY USAGE:**

	<b><u>RESIDENTIAL*</u></b>	<b><u>COMMERCIAL</u></b>
2001-5000 gal.	\$7.50 per 1,000 gal	\$8.50 per 1,000 gal
5001-10,000	\$8.20 per 1,000 gal	\$9.20 per 1,000 gal
10,001-15,000	\$8.90 per 1,000 gal	\$9.90 per 1,000 gal
15,001-20,000	\$9.60 per 1,000 gal	\$10.60 per 1,000 gal
20,001 and up	\$10.30 per 1,000 gal	\$11.30 per 1,000 gal

\*RESIDENTIAL: Includes Apartment & Townhouse Units

**GOVERNMENTAL & SCHOOLS:**

Will be charged 2 times Commercial Rate for Base Fee & Additional Usage

**HIGH STRENGTH:** \$11.50 each additional 1,000 gallons

Day Care, Hospitals, Nursing Homes, Laundromats, Restaurants, Doctors, Dentists, Beauty Shops, Grocery Store, Convenient Store, Funeral Homes, Car Washes, Dry Cleaners

**CONNECTION FEES**

**SEWER CONNECTION FEE:**

Low pressure main with ¾ inch water service: \$8,300  
Gravity 4” connection: \$ 3,500

**COMMERCIAL:** Fees are based on water meter size

The cost of sewer connection with larger than ¾ inch water service will be the responsibility of the owner, with the possibility of capacity fee being paid over time of 3-5 yrs. with no interest.

**SEWER CAPACITY FEE:**

¾ inch	\$ 7,400	6 inch	\$42,000
1 inch	\$10,500	8 inch	\$48,000
2 inch	\$15,000	10 inch	\$54,000
3 inch	\$24,000	12 inch	\$60,000
4 inch	\$36,000		

**ADDITIONAL FEES/FINES**

**Parts and Labor:**

For changing service size, location, or repairs for damage to the districts property.

**Parts:**

Calculated at current price of materials due to the fluctuation of the market plus 20%.

**Labor:**

\$35 per man per hour

\$75 per hour for backhoe

\$10 per foot for bores up 2”

Repairs requiring contracted labor will be charged at invoice cost.

**Fines for Violation of Fats, Oil and Grease Control Ordinance**

<b>Minor Violations</b>				
<b>Offense</b>	<b>1<sup>st</sup> Offense</b>	<b>2<sup>nd</sup> Offense</b>	<b>3<sup>rd</sup> Offense</b>	<b>4<sup>th</sup> Offense &amp; Up</b>
Failure to submit records	Warning	\$100	\$150	\$500
Inspection hindrance	Warning	\$100	\$150	\$500
Failure to maintain on-site records	Warning	\$100	\$150	\$500
Failure to meet sample standards	Warning	\$100	\$150	\$500
<b>Moderate Violations</b>				
<b>Offense</b>	<b>1<sup>st</sup> Offense</b>	<b>2<sup>nd</sup> Offense</b>	<b>3<sup>rd</sup> Offense</b>	<b>4<sup>th</sup> Offense &amp; Up</b>
Failure to maintain interceptors in proper working order	\$150	\$300	\$500	\$1,000
Failure to clean out interceptor every 30 days	\$150	\$300	\$500	\$1,000
<b>Major Violations</b>				
Source of sewer blockage (minimum)	\$500 and not more than \$10,000 plus cost of cleaning lines			
Source of sanitary sewer overflow(minimum)	\$1,000 plus cost of cleaning lines			
Falsification of records	\$1,000			
*updated August 2, 2010				

Attachment: South Camden Sewer Rates 2018-2019 (2069 : FY 2018-2019 Water & Sewer Rates)





**South Camden Water & Sewer District Board of Directors  
AGENDA ITEM SUMMARY SHEET**

**Consent Agenda**

**Item Number:** 6.1  
**Meeting Date:** June 04, 2018

**Submitted By:** Stephanie Humphries, Finance Director  
 Finance  
 Prepared by: Stephanie Humphries

**Item Title** DOT Sawyer's Creek Bridge Water Line Repair

**Attachments:** DOT Sawyer's Creek Bridge Water Line Repair (PDF)

**Summary:** Attached agreement for DOT to pay for required plans & specifications for repair to damaged water line at Sawyer's Creek Bride.

**Recommendation:** Approve

\*\*\*\*\*

UTILITY PRELIMINARY ENGINEERING AGREEMENT

WBS ELEMENT: 17BP.1.R.68

TRANSPORTATION IMPROVEMENT PROGRAM NO.: \_\_\_\_\_

COUNTY: Camden

\*\*\*\*\*

This agreement made this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between the Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the DEPARTMENT, and \_\_\_\_\_ Camden County hereinafter referred to as the COMPANY:

WITNESSETH:

THAT WHEREAS, the DEPARTMENT will submit a project for construction as follows:

A waterline design plan showing plan and profile views of a proposed 8" directional bore will be developed using NCDOT cross section data provided for Sawyer's Creek. Design will be in accordance with the existing environmental permits that were obtained by NCDOT.

known as route SR 1200 in Camden County, North Carolina to be designated as N.C. State Highway Project and/or WBS Element 17BP.1R.68 and,

WHEREAS, the construction of said project will require certain engineering of plans for adjustments to be made to the existing facilities of the COMPANY;

NOW, THEREFORE, in order to facilitate the orderly and expeditious relocation of the said facilities of COMPANY, the DEPARTMENT and the COMPANY have agreed as follows:

1. That the DEPARTMENT has agreed to reimburse the COMPANY for preliminary engineering charges associated with certain adjustments to be made to the existing facilities of the COMPANY.

2. That any work performed under this agreement shall comply with DEPARTMENT's "POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS OF WAY" dated January 1, 1975, and such amendments thereto as may be in effect at the date of this agreement. The work to be performed by the COMPANY shall conform with Federal Highway Administration's Federal-Aid Policy Guide, Subchapter G, Part 645, Subpart A hereinafter referred to as FAPG dated December 9, 1991, and such amendments

Attachment: DOT Sawyer's Creek Bridge Water Line Repair (2070 : DOT Sawyer's Creek Bridge Water Line Repair)

thereto as may be in effect at the date of this agreement. The provisions of said FAPG and amendments thereto are incorporated in this agreement by reference as fully as if herein set out. Any work performed under this agreement not in compliance with FAPG shall constitute unauthorized work and the DEPARTMENT shall be relieved of participating in the costs of such unauthorized work unless such work is done pursuant to a supplemental agreement attached to and made a part hereof.

3. That the COMPANY or COMPANY Engineering firm will prepare an estimate, broken down as to estimated cost of preliminary engineering, overhead rate, job classification pay rate, indirect cost rates, cost of capital rate and estimated man-day hours all in sufficient detail to provide the DEPARTMENT a reasonable basis for analysis. The before mentioned estimate is attached hereto and made a part hereof. The DEPARTMENT will not reimburse the COMPANY for any preliminary engineering not necessitated by the construction of the highway project, nor for changes made solely for the benefit or convenience of the COMPANY.

4. That payment for all work done hereunder shall be made in accordance with the requirements of FAPG unless payment is being made pursuant to a supplemental agreement attached to and made a part of this agreement.

5. That the preliminary engineering work provided for in this agreement will be performed by the method or methods as specified below:

BY COMPANY'S REGULAR FORCE: The COMPANY proposes to use its regular personnel at its standard schedule of wages and working hours in accordance with the terms of its agreement with such employees.

BY EXISTING WRITTEN CONTINUING CONTRACT: The COMPANY proposes to use an existing written continuing contract under which certain work as shown by the COMPANY's estimate is regularly performed for the COMPANY and under which the lowest available costs are developed. The COMPANY shall submit a copy of the continuing contract (including rates) to the DEPARTMENT for review and approval.

BY CONTRACT: The COMPANY does not have adequate staff to perform the necessary engineering design with its own forces. The COMPANY submits to DEPARTMENT a draft advertisement for review and approval, and in accordance with NC General Statute 143-64.31 and 23 CFR 172, will select firms qualified to provide such service on the basis of demonstrated competence and qualification for the type of professional services and to negotiate a contract for those services at a fair and reasonable fee with the best qualified firm. The COMPANY shall submit overhead rates to the DEPARTMENT for review and approval in accordance with DEPARTMENT audit requirements. Refer to DEPARTMENT requirements at the following site:

<https://connect.ncdot.gov/projects/Roadway/Private%20Engineering%20Firm%20Resources/NCDOT%20Audit%20Requirements%20Fiscal%20Form.pdf>

6. a. It is contemplated by the parties hereto that the construction of this State Highway Project will begin on or about the Project Complete

b. Based on the best information available at the present time to the COMPANY, indicate applicable paragraph below:

Preliminary Engineering will be complete allowing adequate time for materials and completion of certain adjustments prior to highway construction.

Preliminary Engineering will be complete prior to highway construction; however, certain adjustments are not expected to be complete prior to highway construction.

Other (Specify)

Construction of bridge is complete, but during construction the waterline was damaged beyond repair and a design for a new bore is needed.

7. Indicate if (a) or (b) is applicable:

a.  That preliminary engineering is for the adjustments of existing facilities in conflict with said project.

b.  That the preliminary engineering involves COMPANY's request for new facilities in addition to adjustments of existing facilities in conflict with said project.

8. That the total estimated cost of the preliminary engineering proposed herein, including all cost to the DEPARTMENT and COMPANY, is estimated to be----- \$ 6,000.00

The estimated preliminary engineering cost to the DEPARTMENT, including all cost less any preliminary engineering for new facilities requested by the COMPANY.----- \$ 6,000.00

The estimated cost to the COMPANY for any additional preliminary engineering charges for new facilities requested by the COMPANY will be----- \$ 0

*(The above costs shall be supported by attached estimate)*

9. That in the event it is determined there are changes in the scope of work, extra work, or major changes from the statement of work covered by this agreement, reimbursement shall be limited to costs covered by a modification of this agreement or a written change or extra work order approved by the DEPARTMENT.

10. Periodic progress billings of incurred costs may be made by COMPANY to the DEPARTMENT not to exceed monthly intervals; however, total progress billing payments shall not exceed 95% of the approved non-betterment estimate. Progress billing forms may be obtained from the Area Utility Agent. One final and detailed complete billing of all costs shall be made by COMPANY to the DEPARTMENT at the earliest practicable date after completion of work and in any event within 6 months after completion of work. The statement of final billing shall

follow as closely as possible the order of the items in the estimate portion of this agreement.

11. That the DEPARTMENT shall have the right to inspect all books, records, accounts and other documents of the COMPANY pertaining to the work performed by it under this agreement at any time after work begins and for a period of 3 years from the date final payment has been received by the COMPANY.

12. That in the future, it becomes necessary due to highway construction or improvement to adjust or relocate utilities covered under this agreement, the DEPARTMENT does not obligate itself to participate in future payments for preliminary engineering.

IN WITNESS WHEREOF, the parties hereby have affixed their names by their duly authorized officers the day and year first above written.

DEPARTMENT OF TRANSPORTATION

BY: \_\_\_\_\_  
Division Utility Coordinator

ATTEST OR WITNESS

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(NAME OF COMPANY)

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

N.C.G.S. § 133-32 and Executive Order 24 prohibit the offer to, or acceptance by, any State Employee of any gift from anyone with a contract with the State, or from any person seeking to do business with the State. By execution of any response in this procurement, you attest, for your entire organization and its employees or agents, that you are not aware that any such gift has been offered, accepted, or promised by any employees of your organization.

Form UT 16.9  
08/17/2016

Attachment: DOT Sawyer's Creek Bridge Water Line Repair (2070 : DOT Sawyer's Creek Bridge Water Line Repair)



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Elizabeth City, NC 27909

P 252.621.5030  
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## LETTER OF AGREEMENT

Client:	Camden County	Date:	May 3, 2018
Contact:	Mr. David Credle, Public Works Manager	Principal:	Mark Richardson
Phone No.:	(252) 338-6363 Ext. 105	Project Manager:	Kim Hamby
Email:	<a href="mailto:dcredle@camdencountync.gov">dcredle@camdencountync.gov</a>	Project Name:	Sawyers Creek Waterline Relocation

Dear Mr. Credle:

Timmons Group is pleased to offer this proposal for the design of the waterline replacement at the new bridge on Sawyer's Creek Road. We look forward to working with you to complete this project.

Thank you for allowing Timmons Group to provide professional services on this project. We will provide the requested services, complying with established standards, while being mindful of costs to the Client (the "Client") named above according to the terms and conditions of this Letter of Agreement (the "Agreement"). Prior to submittal to a public agency, all documents will be sent to the Client, if requested, to ensure a complete understanding by all parties.

### SCOPE AND SCHEDULE OF SERVICES:

Timmons Group will provide the services as detailed on the Scope of Services attached as Exhibit A (the "Scope of Services").

We will provide services in a timely and efficient manner and will keep you informed of the job status and any necessary changes. We estimate that the project design and permitting will be completed within approximately 1 month of our receipt of written Notice to Proceed. Any changes required to the Scope of Services must be approved in writing before such changes take effect, and you will be notified by the Project Manager. As of the date first written above, any changes in the Scope of Services caused by governing codes or Client revisions may require a schedule and/or fee change. You will be notified of any such changes in writing by the Project Manager.

Under no circumstances shall Timmons Group assume any responsibility for construction activity nor have authority over contractor's work, safety precautions or procedures, schedules or for such contractor's compliance with any laws or regulations.

### PAYMENT SCHEDULE:

FIXED FEE

Fees for this Agreement will be billed on a monthly basis as a fixed fee per the Scope of Services in Exhibit A.

### TERMS AND CONDITIONS:

This Agreement shall be controlled by the provisions listed above and the Terms and Conditions attached as Exhibit B. If there is any conflict between the provisions of this Letter of Agreement and the Terms and Conditions, the Terms and Conditions shall control.



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### LETTER OF AGREEMENT

We will proceed upon receipt of this signed Agreement. Please note that fees quoted are valid for sixty (60) days from the date first written above.

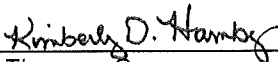
#### REIMBURSEMENTS:

Any services and costs such as submittal fees, printing, courier, mileage and outside consultants not listed in the Scope of Services ("General Reimbursements") will be invoiced separately in addition to the professional services provided under this Agreement. Reimbursements may include a reasonable handling charge of up to 15% of cost. The Scope of Services may specify a Project Reimbursement Schedule to be attached as Exhibit C if applicable.

#### PAYMENT TERMS:

Unless otherwise provided under the terms of this Agreement, all payments are due upon receipt. Interest shall accrue at the rate of twelve percent (12%) per annum on all unpaid invoices older than thirty (30) days. We reserve the right to stop work on any Client account that becomes sixty (60) days past due and to notify local officials that professional seals should be removed from plans associated with the Client.

We will proceed upon receipt of this signed agreement. Should you have any questions, you can reach Kim Hamby directly at 252.621.5029 or via email at kim.hamby@timmons.com.

  
\_\_\_\_\_  
Timmons Group May 3, 2018

#### ACKNOWLEDGED AND ACCEPTED:

On behalf of the Client, this Agreement, including Exhibit A [Scope of Services] and Exhibit B [Terms and Conditions], is accepted and agreed to as of the date written below.

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**This instrument has been preaudited  
in the manner required by the  
Local Government Budget and Fiscal Control Act.**

\_\_\_\_\_  
Signature of Finance Officer

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## EXHIBIT A SCOPE OF SERVICES

Under this Agreement, Timmons Group will provide professional services relative to the project located on Sawyers Creek Road near the intersection with Lambs Road in Camden County, North Carolina.

### Base Scope

#### Design of Waterline Relocation

Timmons Group will perform a limited topographic survey to verify existing conditions and coordinate with the plans provided by NCDOT for the bridge replacement that has been recently installed.

A waterline design plan showing plan and profile views of a proposed 8" directional bore will be developed using NCDOT cross section data provided for Sawyer's Creek. Design will be in accordance with the existing environmental permits that were obtained by NCDOT. The Standard Specifications and Details for the South Camden Water & Sewer District will be utilized with additions as necessary to provide complete design plans and specifications for the project. The plans and specifications will be provided to you for solicitation of construction prices for the project.

An engineer's construction estimate will be developed and provided to you along with a list of contractors capable of performing such work in this area.

<b>TOTAL</b>	<b>\$6,000.00</b>
--------------	-------------------

### ESTIMATED FEES

There are no permit fees anticipated for this project.

### Items not included in the Scope of Services of this Agreement:

Timmons Group will not perform the following services under this Agreement. At the request of the Client, these services can be added for an additional fee, but are not included in this Agreement.

1. Contract Administration
2. Construction Stakeout
3. Construction Inspection
4. As-built plan





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## EXHIBIT B

### TERMS AND CONDITIONS

1. **SCOPE OF SERVICES:** The Scope of Services performed under this Agreement shall be as described in Exhibit A of the Letter of Agreement from TIMMONS GROUP to which these Terms and Conditions are attached. Separate Change Orders signed by authorized representatives of TIMMONS GROUP and the Client may, from time to time, describe additional or different services to be performed under this Agreement, such Change Orders are incorporated by reference herein. These Terms and Conditions shall apply to the Change Orders except to the extent expressly modified by such Change Order. TIMMONS GROUP services with regard to the specific properties covered by this Agreement and subsequent Change Orders, if any, shall hereinafter be referred to as the "Project" or "Projects."
2. **DEFINED TERMS:** Capitalized terms used in this Exhibit B but not defined shall share the meanings ascribed in the Letter of Agreement.
3. **STANDARD OF CARE:** In providing services under this Agreement, TIMMONS GROUP will endeavor to perform in a manner consistent with the degree of skill and care ordinarily exercised by members of the same profession currently practicing under similar circumstances. It is not the intention of TIMMONS GROUP to provide or offers to provide services inconsistent with or contrary to such practices, nor to make any warranty or guaranty, expressed or implied, nor to have any agreement or contract for services subject to provisions of any section of any Uniform Commercial Code. Moreover, it is not the intention of TIMMONS GROUP to accept any terms and conditions offered by the Client in its purchase order, requisition, or notice of authorization to proceed except as set forth herein or as expressly accepted in writing. Written acknowledgement or receipt of the actual performance of services subsequent to receipt of any such purchase order, requisition or notice of authorization to proceed is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.
4. **CODE COMPLIANCE:** TIMMONS GROUP shall exercise usual and customary professional care in its efforts to comply with all applicable codes, laws, regulations and the policies of regulatory agencies in effect as of the date of the Agreement. Design changes made necessary by newly enacted codes, laws, regulations and the policies of regulatory agencies after the date of this Agreement shall be treated as an additional service subject to an executed Change Order and TIMMONS GROUP shall be entitled to appropriate additional compensation. The Client understands that different officials charged with the enforcement of such codes, laws, regulations and policies of regulatory agencies may have different or inconsistent interpretations of the requirements of such codes, laws, regulations and policies of regulatory agencies, and that TIMMONS GROUP shall not be liable for any damages arising from conflicting interpretations by different officials. In the event of a conflict between the codes, laws, regulations or policies of regulatory agencies which apply to the Project, TIMMONS GROUP shall notify the Client of the nature and impact of such conflict, and the Client agrees to cooperate and work with TIMMONS GROUP in an effort to resolve the conflict.
5. **ELECTRONIC FILES:** Because of the possibility that information and data delivered in an electronic file format may be altered, whether inadvertently or otherwise, TIMMONS GROUP reserves the right to retain the drawings, reports or other forms of electronic data generated and furnished by TIMMONS GROUP as instruments of service. TIMMONS GROUP also reserves the right to retain hard copy originals of all Project documentation which is delivered to the Client in electronic file format, which originals shall govern in the event of any inconsistency between the two. It is also understood that the automated conversion of information and data from the system and format used by TIMMONS GROUP to an alternate system or format may not be able to be accomplished without the introduction of inaccuracies, errors and anomalies. In the event any Project documentation provided to the Client in electronic file format is so converted by the Client,



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## EXHIBIT B

### TERMS AND CONDITIONS

or someone acting on the Client's behalf, Client agrees to assume all risks associated therewith, to remove from copies provided to the Client all identification reflecting the involvement of TIMMONS GROUP in their preparation and to the fullest extent permitted by law, to hold TIMMONS GROUP harmless and indemnify it from and against any claims, liabilities, damages, losses and costs, including but not limited to attorney's fees, arising therefrom or in connection therewith.

6. **GOVERNING LAW:** This Agreement shall be governed according to the laws of the Commonwealth of Virginia.
7. **THIRD PARTY RIGHTS:** This Agreement shall not create any rights or benefits to parties other than the Client and TIMMONS GROUP.
8. **ASSIGNMENT:** This Agreement may not be assigned without the prior written consent of the Client and TIMMONS GROUP, such consent not to be unreasonably withheld.
9. **PROJECT SITE SAFETY:** TIMMONS GROUP's Project site responsibilities are limited solely to the activities of TIMMONS GROUP and TIMMONS GROUP's employees on the Project site. These responsibilities shall not be inferred by any party to mean that TIMMONS GROUP has responsibility for Project site safety. The Client and TIMMONS GROUP agree that Project site safety is the sole and exclusive responsibility of the Project's owners or contractor(s). The parties likewise agree that the Project contractor(s) is solely responsible for Project means, methods, techniques, sequences of operation and procedures, and that TIMMONS GROUP shall have no obligations relating to these contractor(s) duties.
10. **LIMITATION OF LIABILITY:** To the fullest extent permitted by law, except as expressly stated in this Agreement, Timmons Group makes no representations or warranties, express or implied. Notwithstanding any other provision of this Agreement, the maximum liability, in the aggregate, to the Client and anyone claiming by or through the Client, of TIMMONS GROUP and its officers, directors, shareholders, partners, employees, agents and subconsultants, and any of them, for any and all claims, losses, or damages, including attorney's fees, in any way related to or arising from the Project or this Agreement, shall not exceed the total compensation received over the past six calendar months by TIMMONS GROUP under this Agreement, or \$50,000, whichever is greater.
11. **INDEMNIFICATION:** TIMMONS GROUP agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Client, its officers, directors and employees, against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, to the extent caused solely and directly by the negligent performance of professional services by TIMMONS GROUP or its agents under this Agreement. The Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless TIMMONS GROUP, its officers, directors, employees and agents, against all damages, costs and liabilities, including reasonable attorney's fees, caused solely by the Client's negligent acts in connection with the Project or that of its Contractor(s), subcontractors or consultants or anyone for whom the Client is legally liable. Neither TIMMONS GROUP nor the Client shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence.



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<u>Resource</u>	<u>Unit Description</u>	<u>Unit Charge</u>
Printing – Plotter Bond B&W	Per Sq. Ft.	\$0.22
Printing – Plotter Bond Color	Per Sq. Ft.	\$0.72
Printing – Small Format B&W	11x17	\$0.16
Printing – Small Format B&W	8.5x14	\$0.08
Printing – Small Format B&W	8.5x11	\$0.08
Printing – Small Format Color	11x17	\$0.80
Printing – Small Format Color	8.5x14	\$0.40
Printing – Small Format Color	8.5x11	\$0.40
Mileage	per mile	\$0.535
Postage	N/A	Cost

\* Accounting applies an additional 15% onto all reimbursable charges

2017-18-BA029  
CAMDEN COUNTY BUDGET AMENDMENT

**BE IT ORDAINED** by the Governing Board of the County of Camden, North Carolina that the following amendment be made to the annual budget ordinance for the fiscal year ending June 30, 2018.

**Section 1. To amend the South Camden Water & Sewer Fund as follows:**

ACCT NUMBER	DESCRIPTION OF ACCT	AMOUNT	
		INCREASE	DECREASE
<b>Revenues</b>			
30380720-433500	Miscellaneous (NC DOT Reimb)	\$6,000	
<b>Expenses</b>			
307200-503200	Engineering Fees	\$6,000	

**This Budget Amendment is made to appropriate funds for Sawyer's Creek Bridge Water Line Engineering design plan and specifications.**

This will result in no change to the Contingency of the General Fund.

Balance in Contingency \$15,350.00

**Section 2. Copies of this budget amendment shall be furnished to the Clerk to the Governing Board and to the Budget Officer and the Finance Officer for their direction. Adopted this 4th day of June, 2018.**

\_\_\_\_\_  
Clerk to Board of Commissioners

\_\_\_\_\_  
Chairman, Board of Commissioners