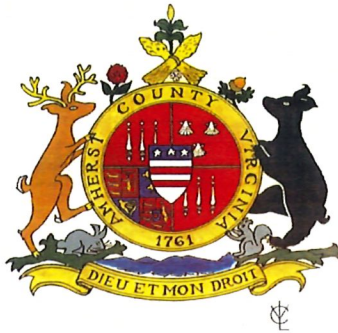


Board of Supervisors

Claudia D. Tucker, Chair
District 2
L. J. Ayers III, Vice-Chair
District 3
David W. Pugh, Jr., Supervisor
District 4
Kenneth M. Campbell, Supervisor
District 1
Jennifer R. Moore, Supervisor
District 5



County Administrator
Dean C. Rodgers

Interim County Attorney
Michael W. S. Lockaby

AMHERST COUNTY BOARD OF SUPERVISORS

MINUTES

AGENDA

March 6, 2018
Administration Building - 153 Washington Street - Public Meeting Room
Amherst, Virginia 24521
Meeting Convened - 1:00 p.m.

- I. Call to Order**
- II. Approval of Agenda**
- III. Invocation and Pledge of Allegiance**
- IV. Citizen Comment**
- V. Consent Agenda**
 - A. Approval of Minutes
 - B. Transfer of Learning Lane to VDOT
 - C. Funding for School CIP Projects
 - D. County Administration Changes (CAC) to Regulations
- VI. Old Business**
 - A. EDA Board Membership Requirements
- VII. New Business**
 - A. Approval of Charters
 - B. Board of Zoning Appeals, At-large vacancy
 - C. Disposition of County Vehicles
 - D. Amherst County Service Authority appropriation matter
- VIII. County Administrator's Report**
 - A. Projects Status Report
- IX. County Attorney's Report**
- X. Liaison and Committee Reports**

- A. Metropolitan Planning Organization
- B. Lynchburg Regional Business Alliance, Board of Directors
- C. Lynchburg Regional Business Alliance, Annual Meeting
- D. Regional Jail Meeting

XI. Departmental Reports

- A. Planning Commission Annual Report - 2017
- B. Treasurer's Report of County Accounts/Investments

XII. Citizen Comment

XIII. Matters from Members of the Board of Supervisors

XIV. Closed Session

XV. Adjournment

MINUTES

At a Regular Meeting of the Amherst County Board of Supervisors and held at the Amherst County Administration building, Amherst, Virginia, thereof on Tuesday, the 6th day of March, 2018, at 1:00 p.m., the following members were present:

BOARD OF SUPERVISORS:

PRESENT:	Claudia D. Tucker, Chair	ABSENT: None
	L. J. Ayers, III, Vice-Chair	
	David W. Pugh, Jr., Supervisor	
	Kenneth M. Campbell, Supervisor	
	Jennifer R. Moore, Supervisor	

STAFF PRESENT: County Administrator Dean C. Rodgers; Deputy County Administrator David R. Proffitt; Interim County Attorney Michael W. S. Lockaby; and Executive Administrative Assistant Regina M. Rice

I. Call to Order

Chair Tucker called the meeting to order at 1:00 p.m.

II. Approval of Agenda

Chair Tucker amended the agenda for March 6, 2018 by striking under Old Business Item VII. A. EDA Board Memberships, and adding under New Business Item VII. D. Amherst County Service Authority appropriation matter.

AYE:	Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY:	None
ABSENT	None

III. Invocation and Pledge of Allegiance

Supervisor Ayers led the Invocation and Pledge of Allegiance.

IV. Citizen Comment

There was no public comment.

V. Consent Agenda

- A. Approval of Minutes
- B. Transfer of Learning Lane to VDOT
- C. Funding for School CIP Projects
- D. County Administration Changes (CAC) to Regulations

By motion of Supervisor Ayers and with the following vote, the Board approved the Consent Agenda for March 6, 2018.

AYE: Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY: None
ABSENT None

VI. Old Business

- ~~A. EDA Board Membership Requirements~~

Item VI. A. was removed from the agenda.

VII. New Business

- A. Approval of Charters

County Administrator Rodgers addressed the Board and advised the two draft charters, one for the Building Appeals Board and the other for the Planning commission, have been updated by their respective organizations and submitted to the Board for approval.

These charters give direction to citizens who are called to serve on those boards and identifies their objectives.

Supervisor Campbell commented that the Building Appeal Board charter has language that indicates it would report to the Board of Supervisor and to the County Administrator; however, the Building Appeals Board mediates between the Building office and citizens who appeal a decision.

County Attorney Lockaby said that was correct, however, the point of the Building Appeals Board is to hear appeals from the Building Code officer, and the Board of Supervisors is allowed to assign more to it. Mr. Lockaby stated that the particular language could be removed.

Supervisor Campbell recommended that language in paragraph two of Item 2. Goals, *"The Building Appeals Board may expect to receive specific objectives for each year from the Board of Supervisors, which it will be expected to achieve and report its progress"*, be removed from the Building Appeals Board Charter 2018.

Chair Tucker stated that the motion would include the language to be stricken.

By motion of Supervisor Campbell and with the following vote, the Board approved the charter for the Building Appeals Board with the recommendation that the language stated in paragraph two of Item 2. Goals, *"The Building Appeals Board may expect to receive specific objectives for each year from the Board of Supervisors, which it will be expected to achieve and report its progress"*, be stricken from the Building Appeals Board Charter 2018; and the Board approved the charter for the Planning Commission.

AYE: Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY: None
ABSENT None

B. Board of Zoning Appeals, At-large vacancy

County Administrator Rodgers advised the Board this position was advertised and there was one applicant, Mr. Clarence Monday. Mr. Rodgers recommended to the Board that they appoint Mr. Monday to fill the unexpired term of Mr. Steve Thomas; schedule an interview with Mr. Monday; or re-advertise the vacancy.

By motion of Supervisor Pugh and with the following vote, the Board recommended to the Amherst County Circuit Court that Mr. Clarence Monday be appointed to fill the unexpired term of Mr. Steve Thomas as the At-large representative on the Board of Zoning Appeals.

AYE: Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY: None
ABSENT None

C. Disposition of County Vehicles

County Administrator Rodgers reported that Public Safety recently removed two vehicles from its fleet, a 2007 Chevy Suburban and a 2008 Chevy Tahoe.

The Monelison Fire Department has made a request for the Chevy Suburban and the Amherst Fire Department requested the Chevy Tahoe.

Chair Tucker asked at what point does the County transfer versus putting vehicles up for public auction

Deputy County Administrator Proffitt advised that a department notifies him when they declare any vehicles as surplus property. He would then advertise that property for public sale; however, the first step would be to determine if another department could use the declared surplus property.

By motion of Supervisor Campbell and with the following vote, the Board approved the transfer of a 2007 Chevy Suburban to the Monelison Fire Department and a 2008 Chevy Tahoe to the Amherst Fire Department.

AYE: Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY: None
ABSENT None

D. Amherst County Service Authority appropriation matter

County Administrator Rodgers reported that at the Amherst County Service Authority meeting today, it was decided to assist a customer with a connection and available fee due to promises made earlier when laying the water line past his residence.

Mr. Rodgers said the ACSA Board has now asked the Board of Supervisors to pay the connection fee difference, and a motion was drafted for the Board to take that funding out of the County's budget and transfer it to the ACSA.

County Attorney Lockaby advised he included a factual statement and time limit in the resolution.

Supervisor Ayers read the following resolution:

A RESOLUTION OF THE BOARD OF SUPERVISORS OF AMHERST COUNTY, VIRGINIA

Dated this Sixth Day of March, 2018, at Amherst, Virginia:

WHEREAS, on or about July 13, 2000, then-Amherst County Service Authority Utilities Director Dan French wrote a letter to Joe and Sandra Jackson, in which he explained to them a water extension project to Monacan Park Road, for which the nine abutters of the road contributed; and

WHEREAS, at the time of the water main extension, the Jacksons' well was functional. However, recently the Jacksons' well recently failed, necessitating their connection to the water main; and

WHEREAS, Jackson is the sole person among the nine who paid the assessment and continues to live on the road, thereby distinguishing him from others along the road who have paid the higher connection fees over time; and

WHEREAS, in recognition that the setting of rates and fees is a non-delegable legislative function vested in the Board of Directors of the Service Authority, and therefore the Utilities Director did not have authority to "lock in" rates, but noting that this is a unique situation, both on this road and in Amherst County, of good-faith reliance by a citizen who has continued to own his property for the entire intervening period:

NOW THEREFORE, the BOARD OF SUPERVISORS OF AMHERST COUNTY, VIRGINIA, does hereby appropriate the sum of \$1,885.00 to the AMHERST COUNTY SERVICE AUTHORITY, to be used solely and exclusively for the purpose of offsetting the residential water connection fee for the Jacksons' home on Monacan Park Road. The county administrator is directed to transfer these funds upon payment by the Jacksons of their share of the fee, or upon entry of a legally-binding payment plan with the Authority to pay their share of the fee. If the Jacksons do not pay their fee or enter a payment plan no later than June 30, 2018, this appropriation shall lapse by operation of law. (See Attachment 1)

Supervisor Ayers asked that the County Administrator send the Jacksons a letter with a copy of this resolution via U.S. Mail Return Receipt.

By motion of Chair Tucker and with the following vote, the Board appropriated \$1,885.00 to the Amherst County Service Authority to be used to offset the residential water connection fee for the Jacksons' home on Monacan Park Road.

AYE:	Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY:	None
ABSENT	None

VIII. County Administrator's Report

A. Projects Status Report

County Administrator Rodgers advised there were no updates on any specific projects and the report was for the Board's information.

IX. County Attorney's Report

County Attorney Lockaby commented on ordinances and changes the Board requested. These documents are in process and most have been drafted and under review by him and staff. He anticipated having those documents ready for the second meeting in March, and a first reading at the April 3rd Board meeting.

X. Liaison and Committee Reports

- A. Metropolitan Planning Organization
- B. Lynchburg Regional Business Alliance, Board of Directors
- C. Lynchburg Regional Business Alliance, Annual Meeting
- D. Regional Jail Meeting

Chair Tucker asked about other localities and their participation in the regional jail.

County Administrator Rodgers advised that Pittsylvania County is actively considering membership in the Regional Jail. If they choose to join, an additional locality would be contributing toward overhead and Amherst County's cost share would decrease.

XI. Departmental Reports

- A. Planning Commission Annual Report - 2017
- B. Treasurer's Report of County Accounts/Investments

For Board information only.

XII. Citizen Comment

Ms. Teresa Crouch of Amherst, Virginia addressed the Board and voiced her concerns regarding the County's proposed budget and funding for the Schools. Ms. Crouch

remarked that if the County continues to spend money as it has, that there will be a problem. (See Attachment 2)

XIII. Matters from Members of the Board of Supervisors

Supervisor Moore had no matter to discuss.

Supervisor Campbell had no matter to discuss.

Supervisor Pugh commented he received a call from a citizen that the picnic tables and grills at some of the County's lakes are in poor condition and requested that staff address this issue.

Deputy County Administrator Proffitt advised that picnic tables are repaired or replaced periodically, however, are subject to frequent vandalism.

Supervisor Ayers had no matter to discuss.

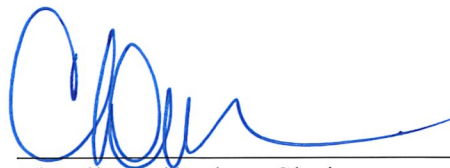
Chair Tucker had no matter to discuss.

XIV. Closed Session

XV. Adjournment

By motion of Supervisor Campbell and with the following vote, the Board adjourned at 1:41 p.m.

AYE:	Mrs. Tucker, Mr. Ayers, Mr. Pugh, Mr. Campbell and Ms. Moore
NAY:	None
ABSTAIN:	None



Claudia D. Tucker, Chair
Amherst County Board of Supervisors



Dean C. Rodgers, Clerk

A RESOLUTION OF THE BOARD OF SUPERVISORS OF AMHERST COUNTY, VIRGINIA

Dated this Sixth Day of March, 2018, at Amherst, Virginia:

WHEREAS, on or about July 13, 2000, then-Amherst County Service Authority Utilities Director Dan French wrote a letter to Joe and Sandra Jackson, in which he explained to them a water extension project to Monacan Park Road, for which the nine abutters of the road contributed; and

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Madam Chairman, members of the Board and County staff,

March 6, 2018

My name is Teresa Crouch, as a citizen I reside at 819 N Amherst Hwy, Amherst, VA and I am also an employee of Amherst County Public Schools. I would like the Board to know that I have taken annual leave from my school job to address you as a citizen.

In 2016, the members of the Amherst County Board of Supervisors increased taxes by 5 cents. According to the information provided in the presentation to the members of the Board of Supervisors and to the citizens of Amherst County, 2 cents of the tax increase was for school construction, 1 cent was for the landfill, 1 cent was for the EDA, and 1 cent was to hire staff for public safety. Although a resolution may not have been passed, this was how the 5 cent tax increase was presented to the citizens of Amherst County and this is what they supported. This was also how the 5 cent tax increase was presented in the article written and reported in the Amherst New Era Progress dated May 22, 2016.

At the beginning of the 2016-17 County Budget, the school division reduced its local appropriation by \$1,739,608 in revenue and expenditures. The local appropriation to schools for operations was not increased that year. The attached document demonstrates if the debt service had been placed in a committed fund, along with any savings realized from original debt being paid off, and the 2 cent tax increase of \$455,482, there would be enough money in the committed fund to pay school debt until 2020.

It is my opinion and based on the reason that was provided to the citizens that taxes be increased by two cents for school construction, as well as utilizing the full amount of \$1,739,608 for current debt service revenue that was returned to the county, the money should have been placed in a committed fund for school debt service.

Also, if the tax increase of 1 cent for the landfill had been placed in a committed fund, and the savings from year to year had also been placed in the committed fund (as indicated in the attached document), the county would not have to contribute to the landfill debt until 2023.

It is my opinion and based on the reason that was provided to the citizens for the one cent tax increase for the landfill the funds should have been placed in a committed fund for the landfill to help offset the long term debt for repayment.

In reviewing the information from Davenport & Company it shows the tax funds going into the general fund. The Davenport study shows that a total of \$743,343, went into the general fund and was not needed to pay debt service for that year. Based on that information, it appears that the 3 cent tax increase for construction and landfill debt service was collected and placed in the general fund. The study also indicates after paying the debt at the end of the 2018 fiscal year there should be approximately \$ 7,330,633 in the unobligated general fund and at the end of the 2018-19 fiscal year; there should be approximately \$7,316,995 in the unobligated general fund. The \$7,316,995 balance is after the debt is paid on school construction and landfill.

According to the County's Proposed Budget that was presented, as of February 8, 2018, there is approximately \$5,491,768.16 in the unobligated general fund (that is less the required, committed and assigned funds). If the members of the Amherst County Board of Supervisors approve another \$2,144,416 coming from the unobligated general fund for the 2018-19 County Budget, to cover the proposed supplemental and capital improvement projects for the county, the unobligated general fund

would be approximately \$3,347,352. If this type of spending continues, in two years there will not be an unobligated general fund. In two years, will citizens be asked to pay more taxes for the type of spending that is being done? Will all departments be expected to reduce their budgets to cover supplemental and capital projects?

As for the current proposed school operational budget, I understand that it is up to the members of the Amherst County Board of Supervisors whether or not they wish to reduce the budget by the \$352,000 for potential energy savings; however, according to the information presented at the joint meeting between the Amherst County School Board and the Amherst County Board of Supervisors, the potential savings from the Project Manager for Amherst County, shows approximately \$190,000 in savings for FY19 not \$352,000 as indicated in the Davenport Study. And as indicated in the attached documentation regarding school debt, the \$190,000 energy savings would not be needed to cover the debt for 2019. (Instead of \$190,000 it would be \$275,000).

Speaking of energy savings, the Superintendent, the Assistant Superintendent, Supervisor of Maintenance, and the CFO met with the Project Manager on Monday, February 26, 2018 with the permission of the County Administrator. During the meeting with the Project Manager, he indicated the energy savings of \$352,000 may be realized a year after all of the projects have been completed, but not in the current budget year. However, it is very important to realize that the potential energy savings does not reflect increase cost for utilities. The Project Manager indicated that he would share the information with the County Administrator.

In summary, the county no longer provides in its budget funding for school buses (the proposed budget does cover one bus; however the county's proposed budget also reduces the school local allocation by \$352,000 for energy savings. As of this year the proposed energy savings have not been realized and the information has been verified by Project Manager for Amherst County. Last year, the local allocation for the school budget was reduced by approximately \$124,000 to cover 2% salary increases for county employees.

This year's proposed county budget includes a 2% salary increase for county employees and a proposed 10% increase in health insurance. The school budget includes a 2% salary increase and projected 15% increase for health insurance; however, additional funding would be needed from the locality to fund the requests.

The school budget has seen a reduction over the last two years (this does include funding for school buses) and another reduction is expected this year. Between last year's budget and the current county proposed budget (if approved), the unobligated fund balance will have decreased by close to \$4,000,000, which equates to approximately 17.56 cents in taxes.

I, as a citizen of Amherst County and an employee of Amherst County Public Schools, am concerned about the potential of spending close to \$4,000,000 for supplemental budget and capital improvement budget over a two year period.

And looking long term, it does not appear that the county administrator's forecast includes increasing the local appropriation to schools.

According to the most recent audit, the school division has approximately \$116,000 plus the \$55,000 set aside in the county budget, to cover capital projects for the 2018-19 school year. This amount covers school buses as well as other needs in the division. This is concerning.

I want to thank each of you for listening to my remarks. I appreciate your service to the citizens of Amherst County.

Respectfully,

Terisa Crouch

March 6, 2018

Amherst County
Debt Service Info for Schools

Year	Original Revenue Returned by School Board in 2016	2 Cents Collected	Funds Carried Forward from previous debt paid off	Funds Returned from School for Energy Savings	Available Revenue	Original Debt Service Payment	New Debt Service for School Construction #1	New Debt Service for School Construction #2	Total Debt for School Service	Available Funds To Be Carried Forward
2016	\$ 1,734,608.00	\$ 455,482.00	\$ -	\$ -	\$ 1,734,608.00	\$ 1,734,608.00	\$ -	\$ -	\$ 1,734,608.00	\$ -
2017	\$ 1,734,608.00	\$ 455,482.00	\$ -	\$ -	\$ 2,190,090.00	\$ 1,471,025.00	\$ 37,147.88	\$ 171,562.50	\$ 1,679,735.38	\$ 510,354.62
2018	\$ 1,734,608.00	\$ 455,482.00	\$ 510,354.62	\$ -	\$ 2,700,444.62	\$ 1,141,582.21	\$ 391,625.00	\$ 609,406.25	\$ 2,142,613.46	\$ 557,831.16
2019	\$ 1,734,608.00	\$ 455,482.00	\$ 557,831.16	\$ -	\$ 2,747,921.16	\$ 1,099,947.67	\$ 421,861.75	\$ 974,000.00	\$ 2,495,809.42	\$ 252,111.74
2020	\$ 1,734,608.00	\$ 455,482.00	\$ 252,111.74	\$ 275,000.00	\$ 2,717,201.74	\$ 961,089.27	\$ 525,510.75	\$ 1,008,812.50	\$ 2,495,412.52	\$ 221,789.22
2021	\$ 1,734,608.00	\$ 455,482.00	\$ 221,789.22	\$ 275,000.00	\$ 2,686,879.22	\$ 823,136.97	\$ 517,955.25	\$ 1,151,262.50	\$ 2,492,354.72	\$ 194,524.50
2022	\$ 1,734,608.00	\$ 455,482.00	\$ 194,524.50	\$ 275,000.00	\$ 2,659,614.50	\$ 596,045.63	\$ 515,345.00	\$ 1,384,043.75	\$ 2,495,434.38	\$ 164,180.12
2023	\$ 1,734,608.00	\$ 455,482.00	\$ 164,180.12	\$ 275,000.00	\$ 2,629,270.12	\$ 547,857.52	\$ 512,625.25	\$ 1,433,112.50	\$ 2,493,595.27	\$ 135,674.85
2024	\$ 1,734,608.00	\$ 455,482.00	\$ 135,674.85	\$ 350,000.00	\$ 2,675,764.85	\$ 441,412.52	\$ 494,960.25	\$ 1,520,043.75	\$ 2,456,416.52	\$ 219,348.33
2025	\$ 1,734,608.00	\$ 455,482.00	\$ 219,348.33	\$ 350,000.00	\$ 2,759,438.33	\$ 402,220.02	\$ 581,364.50	\$ 1,515,400.00	\$ 2,498,984.52	\$ 260,453.81
2026	\$ 1,734,608.00	\$ 455,482.00	\$ 260,453.81	\$ 350,000.00	\$ 2,800,543.81	\$ 330,662.52	\$ 645,907.25	\$ 1,520,081.25	\$ 2,496,651.02	\$ 303,892.79
2027	\$ 1,734,608.00	\$ 455,482.00	\$ 303,892.79	\$ 350,000.00	\$ 2,843,982.79	\$ 232,947.52	\$ 743,424.25	\$ 1,519,031.25	\$ 2,495,403.02	\$ 348,579.77
2028	\$ 1,734,608.00	\$ 455,482.00	\$ 348,579.77	\$ 350,000.00	\$ 2,888,669.77	\$ 169,207.50	\$ 1,130,302.00	\$ 1,517,306.25	\$ 2,816,815.75	\$ 71,854.02
2029	\$ 1,734,608.00	\$ 455,482.00	\$ 71,854.02	\$ 350,000.00	\$ 2,611,944.02	\$ -	\$ 1,395,558.55	\$ 1,168,843.75	\$ 2,564,402.30	\$ 47,541.72
2030	\$ 1,734,608.00	\$ 455,482.00	\$ 47,541.72	\$ 350,000.00	\$ 2,587,631.72	\$ -	\$ 1,400,256.35	\$ 1,168,700.00	\$ 2,568,956.35	\$ 18,675.37
2031	\$ 1,734,608.00	\$ 455,482.00	\$ 18,675.37	\$ 365,000.00	\$ 2,573,765.37	\$ -	\$ 1,404,209.55	\$ 1,167,993.75	\$ 2,572,203.30	\$ 1,562.07
2032	\$ 1,734,608.00	\$ 455,482.00	\$ 1,562.07	\$ -	\$ 2,191,652.07	\$ -	\$ -	\$ -	\$ -	\$ 2,191,652.07
2033	\$ 1,734,608.00	\$ 455,482.00	\$ 2,191,652.07	\$ -	\$ 4,381,742.07	\$ -	\$ -	\$ -	\$ -	\$ 4,381,742.07
2034	\$ 1,734,608.00	\$ 455,482.00	\$ 4,381,742.07	\$ -	\$ 6,571,832.07	\$ -	\$ -	\$ -	\$ -	\$ 6,571,832.07
2035	\$ 1,734,608.00	\$ 455,482.00	\$ 6,571,832.07	\$ -	\$ 8,761,922.07	\$ -	\$ -	\$ -	\$ -	\$ 8,761,922.07
2036	\$ 1,734,608.00	\$ 455,482.00	\$ 8,761,922.07	\$ -	\$ 10,952,012.07	\$ -	\$ -	\$ -	\$ -	\$ 10,952,012.07
2037	\$ 1,734,608.00	\$ 455,482.00	\$ 10,952,012.07	\$ -	\$ 13,142,102.07	\$ -	\$ -	\$ -	\$ -	\$ 13,142,102.07
2038	\$ 1,734,608.00	\$ 455,482.00	\$ 13,142,102.07	\$ -	\$ 15,332,192.07	\$ -	\$ -	\$ -	\$ -	\$ 15,332,192.07
2039	\$ 1,734,608.00	\$ 455,482.00	\$ 15,332,192.07	\$ -	\$ 17,522,282.07	\$ -	\$ -	\$ -	\$ -	\$ 17,522,282.07
2040	\$ 1,734,608.00	\$ 455,482.00	\$ 17,522,282.07	\$ -	\$ 19,712,372.07	\$ -	\$ -	\$ -	\$ -	\$ 19,712,372.07
2041	\$ 1,734,608.00	\$ 455,482.00	\$ 19,712,372.07	\$ -	\$ 21,902,462.07	\$ -	\$ -	\$ -	\$ -	\$ 21,902,462.07

Amherst County

Debt Service Info for Landfill

Fiscal Year End	Total Taxes Collected	Funds From General Funds To Cover Debt	Funds Carried Forward from Prior Year	Available Revenue for Debt Service	New Debt for Landfill Loan	Total Debt Paid for Landfill	Available Funds To Be Carried Forward
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ 227,741.00	\$ -	\$ -	\$ 227,741.00	\$ -	\$ -	\$ 227,741.00
2018	\$ 227,741.00	\$ -	\$ 227,741.00	\$ 455,482.00	\$ 75,957.78	\$ 75,957.78	\$ 379,524.22
2019	\$ 227,741.00	\$ -	\$ 379,524.22	\$ 607,265.22	\$ 321,947.30	\$ 321,947.30	\$ 285,317.92
2020	\$ 227,741.00	\$ -	\$ 285,317.92	\$ 513,058.92	\$ 321,177.65	\$ 321,177.65	\$ 191,881.27
2021	\$ 227,741.00	\$ -	\$ 191,881.27	\$ 419,622.27	\$ 321,266.65	\$ 321,266.65	\$ 98,355.62
2022	\$ 227,741.00	\$ -	\$ 98,355.62	\$ 326,096.62	\$ 321,201.45	\$ 321,201.45	\$ 4,895.17
2023	\$ 227,741.00	\$ 92,000.00	\$ 4,895.17	\$ 324,636.17	\$ 320,982.05	\$ 320,982.05	\$ 3,654.12
2024	\$ 227,741.00	\$ 92,000.00	\$ 3,654.12	\$ 323,395.12	\$ 321,895.60	\$ 321,895.60	\$ 1,499.52
2025	\$ 227,741.00	\$ 92,000.00	\$ 1,499.52	\$ 321,240.52	\$ 321,042.10	\$ 321,042.10	\$ 198.42
2026	\$ 227,741.00	\$ 95,000.00	\$ 198.42	\$ 322,939.42	\$ 321,321.55	\$ 321,321.55	\$ 1,617.87
2027	\$ 227,741.00	\$ 95,000.00	\$ 1,617.87	\$ 324,358.87	\$ 321,421.10	\$ 321,421.10	\$ 2,937.77
2028	\$ 227,741.00	\$ 95,000.00	\$ 2,937.77	\$ 325,678.77	\$ 321,340.75	\$ 321,340.75	\$ 4,338.02
2029	\$ 227,741.00	\$ 95,000.00	\$ 4,338.02	\$ 327,079.02	\$ 321,080.50	\$ 321,080.50	\$ 5,998.52
2030	\$ 227,741.00	\$ 95,000.00	\$ 5,998.52	\$ 328,739.52	\$ 321,627.50	\$ 321,627.50	\$ 7,112.02
2031	\$ 227,741.00	\$ 95,000.00	\$ 7,112.02	\$ 329,853.02	\$ 321,968.90	\$ 321,968.90	\$ 7,884.12
2032	\$ 227,741.00	\$ 95,000.00	\$ 7,884.12	\$ 330,625.12	\$ 321,117.55	\$ 321,117.55	\$ 9,507.57
2033	\$ 227,741.00	\$ 95,000.00	\$ 9,507.57	\$ 332,248.57	\$ 321,073.45	\$ 321,073.45	\$ 11,175.12
2034	\$ 227,741.00	\$ 95,000.00	\$ 11,175.12	\$ 333,916.12	\$ -	\$ -	\$ 333,916.12
2035	\$ 227,741.00	\$ 95,000.00	\$ 333,916.12	\$ 656,657.12	\$ -	\$ -	\$ 656,657.12
2036	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00
2037	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00
2038	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00
2039	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00
2040	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00
2041	\$ 227,741.00	\$ 95,000.00	\$ 322,741.00	\$ 645,482.00	\$ -	\$ -	\$ 645,482.00

AMHERST COUNTY PUBLIC SCHOOLS HVAC INFRASTRUCTURE REPLACEMENT PROJECT

STATUS REPORT -- NOVEMBER 13, 2017

PROJECT BACKGROUND

In May 2016 Southern Air, located in Lynchburg, Virginia, was awarded a contract to install LED lights and replace various strategic HVAC equipment components in ten (10) public schools within the County's school system. The project construction time line was to run from June 2016 to December 2018. The first buildings to be addressed were the Amelon and Madison Heights Elementary Schools. These schools were selected because they could be completed over the summer of 2016 and the other schools could not be started as the County was considering federal funding of the construction loan verses private sector funding.

One of the compelling factors to move forward with this project was the potential of energy cost savings that could assist in servicing the annual debt payment for the \$24+ million construction cost. The process for establishing this potential energy savings would be to monitor the energy cost for a 12 month period once the specific facility came on line with all of the construction complete and all of the equipment fully functioning and balanced as designed.

In the original project scope of work there were ten (10) school buildings that were to be renovated. As a result of Amherst County BOS action the Pleasant View Elementary school was removed from the project therefore those potential energy savings will not be realized. The potential energy savings for Pleasant View should be similar to Temperance and that information will be shared at a later date. The total potential project energy savings was developed by Southern Air assuming all of the schools would be part of the project scope of work. Given the Pleasant View School facility was removed from the project scope the total energy savings will now only be calculated for the nine (9) remaining schools once they experience a twelve (12) month operating/evaluation period.

In addition all of the schools were to receive roofing/insulation upgrades to replace areas of roofing where the age of the roofing material was beyond the warranty period or already defective.

COMPLETED WORK TO DATE

As stated previously the scope of work in the "project" was the installation of HVAC equipment, the replacement of the existing lighting systems with LED, and the replacement of the roofing. To date all of the LED lighting installations and the roofing projects have been completed. Currently the Amelon and Madison Heights Elementary Schools are the only facilities where the HVAC replacement work has been completed and energy cost savings values generated. The twelve (12) month operating/evaluation

period for both of these facilities began in December 2016 and will run through November 2017. To date these facilities have shown a combined reduction in energy cost annually of approximately 49%. For the purpose of establishing a base annual energy cost three (3) previous years were averaged for each school which generated a combined energy cost of \$254,425 annually.

The reader should be reminded that the numbers previously mentioned do not incorporate a full twelve (12) month operating/evaluation cycle. However, that being said it is expected that the LED lighting, fuel, and HVAC replacements will generate an annual savings of \$124,767 for these two (2) facilities.

As previously stated the roofing replacement projects for all of the proposed buildings have also been completed which included an increase in the roofing insulation thickness to enhance the potential of future energy savings.

The LED lighting projects are expected to generate a combined total energy savings of \$86,537. The lighting savings for Amelon and Madison Heights is expected to be \$15,689 and has already been included in the overall energy savings for these two (2) schools. Therefore the LED savings in the remaining schools is expected to be a total of \$70,848.

FACILITIES COMPLETED TO DATE

As of this writing the new HVAC equipment and LED lighting has been installed in the following schools:

- Amherst Elementary School
- Central Elementary School
- Temperance Elementary School

The energy usage evaluation period for these schools will begin in October of this year and will be documented through the end of September 2018.

FACILITIES UNDER CONSTRUCTION

The remaining school facilities presently under construction are as follows:

- Amherst High School
- Elon Elementary School
- Monelison Middle School
- Amherst Middle School

As of this writing it is anticipated that the construction completion dates for Elon Elementary School, Monelison Middle School, and Amherst Middle School will be in the fall of 2018. The High School construction completion date is expected to be the end of 2018.

CONCLUSION

As can be seen the completion/evaluation of the Amelon and Madison Heights schools coupled with the LED lighting upgrades for all of the schools is generating positive savings in the amount of \$195,615. The new Building Automation Systems (BAS), installed in each facility, will allow continuous monitoring of the equipment performance as well as measure heating and cooling trends. This should provide even more opportunities for greater control and management of the building environment which in turn could produce further reductions in energy consumption.

As with anything new and improved it comes with the expectation that the HVAC systems will be managed and maintained for maximum performance. Based on the initial numbers it would appear that the overall savings are trending in a positive direction.

Use current rate

Summary:

		3 Year Average		Dec 2016 - Nov 2017		Savings
		<u>90,925</u> ⁷¹				<u>30,532</u> ⁴⁸
Amelon	Electric Costs	\$ 83,444.46	\$ 0.098	\$ 60,393.23	\$ 0.107	\$ (23,051.23)
57,500.00	kWh Usage	849,773		562,179		(287,595)
Sqft						
	Fuel Oil Costs	\$ 68,675.25		\$ -		\$ (68,675.25)
	Fuel Oil Gallons	21,833		0		(21,833)
	MBTU	3,124,281		0		(3,124,281)
	Propane Cost	\$ -		\$ 3,002.18	\$ 2.22	\$ 3,002.18
	Propane Gallons	0		3155.2		\$ 3,155.20
	MBTU	0		1349.72435		\$ 1,349.72
		<u>159,600</u> ⁹⁶				
	Total Costs	\$ 152,119.71		\$ 63,395.41		\$ (88,724.29)
	Total kWh Usage	849,773		562,179		(287,595)
	Total Gallons	871,606		565,334		(306,272)
	MBTU	3,124,281		1,350		(3,122,931)
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MHES	Electric Costs	\$ 83,298.09	\$ 0.097	\$ 62,029.67	\$ 0.105	\$ (21,268.42)
65,000.00	kWh Usage	856,200		589,200		(267,000.00)
Sqft						
	Natural Gas Costs	\$ 4,923.18		\$ 4,233.05		\$ (690.13)
	NG CUFT	6,169		4,851		(1,318.00)
	MBTU	616,900				
		<u>94,824</u> ¹⁸				
	Total Costs	\$ 88,221.27		\$ 66,262.72		\$ (21,958.55)
	Total kWh Usage	849,773		562,179		(287,595)
	Total CUFT/H	6,169		4,851		(1,318)
	MBTU					
<hr/>						
Overall Savings		\$ 240,340.97		\$ 129,658.13		\$ (110,682.84)
		<u>254,425</u> ¹⁴				46.1%
						49.0%
						<u>124,747</u> ⁰¹

Southern Air

Mechanical and Electrical Contractors

Toll Free: (800) 743-1214 Phone: (631) 385-0200

Amherst County Schools - Lighting Retrofit

School	SQ FT	Quantity of Light Fixtures	Watts Fluorescent	Watts LED	Watts Saved	Savings %	Operating Hours per Year*	APCO kWh Rate	Savings per Year
Amherst High School	132,469	1,930	214,166.00	103,243.00	110,923.00	52%	2000	\$0.106	\$23,515.58
Amherst Middle School	66,947	1,172	86,224.00	45,768.00	40,456.00	47%	2000	\$0.106	\$8,576.67
Monelson Middle School	95,571	1,967	136,876.00	76,813.00	60,063.00	44%	2000	\$0.106	\$12,733.36
Amelton Elementary School	57,489	524	65,112.00	28,102.00	37,010.00	57%	2000	\$0.106	\$7,846.12
Amherst Elementary School	50,570	604	69,846.00	30,324.00	39,522.00	57%	2000	\$0.106	\$8,378.66
Central Elementary School	48,660	567	66,708.00	28,057.00	38,651.00	58%	2000	\$0.106	\$8,194.01
Elon Elementary School	40,196	408	55,548.00	23,516.00	32,032.00	58%	2000	\$0.106	\$6,790.78
Madison Heights Elementary School	60,265	1,077	76,832.00	39,837.00	36,995.00	48%	2000	\$0.106	\$7,842.94
Pleasant View Elementary School		0	0.00	0.00	0.00	0%			\$0.00
Temperance Elementary School	30,100	257	23,908.00	11,365.00	12,543.00	52%	2000	\$0.106	\$2,659.12
Totals		8,506	795,230.00	387,025.00	408,195.00	51%	2000		\$86,537.34