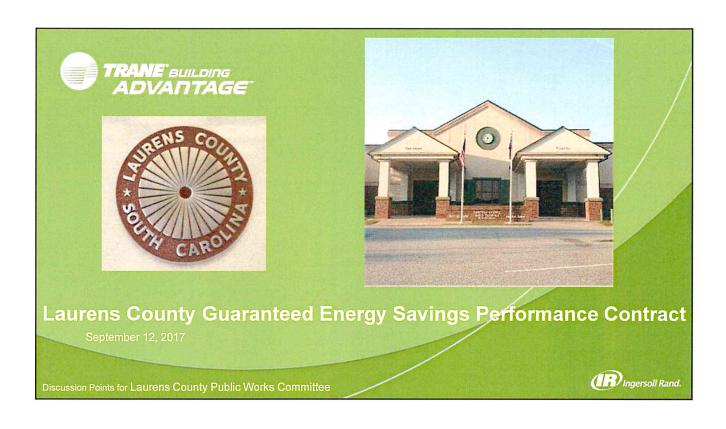
AGENDA

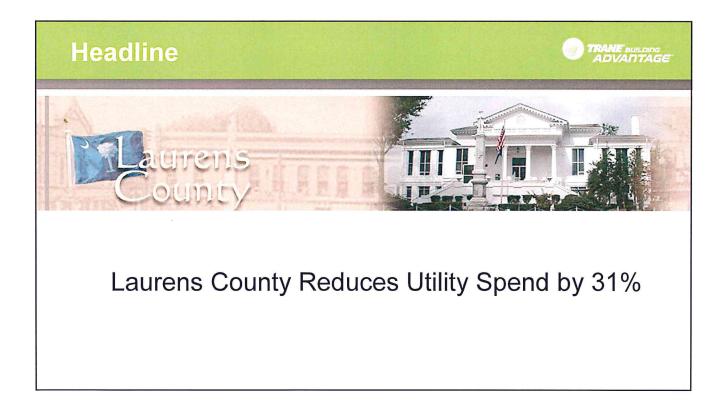


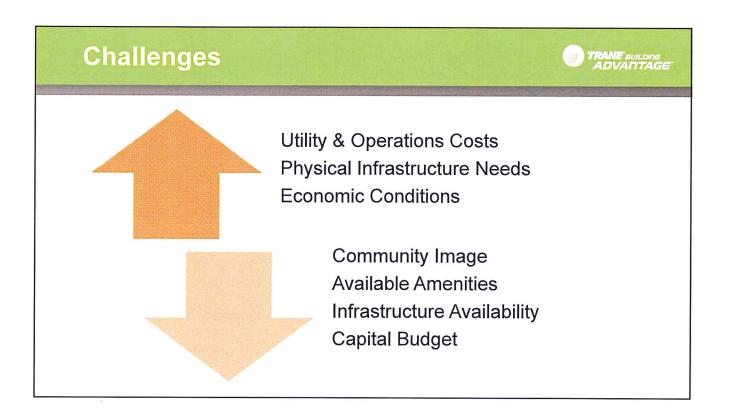
LAURENS COUNTY COUNCIL COMMITTEE ON PUBLIC WORKS (COUNCIL MEMBERS – MCDANIEL, CHAIRMAN; ANDERSON AND NASH) SEPTEMBER 26, 2017 – 4:00 P.M. HISTORIC COURTHOUSE – PUBLIC SQUARE

- 1. Call to Order Committee Chairman
 - Invocation
 - Pledge of Allegiance
- 2.) Approval of Agenda
- 3.) New Business:
 - a) Energy Savings Performance Contract
 - b) EMS Capital Master Plan
 - c) Old Laurens Road Emergency Services Substation
- 4. Committee Member Comments
- 5. Adjournment

Item #5a - Energy Savings Performance Contract





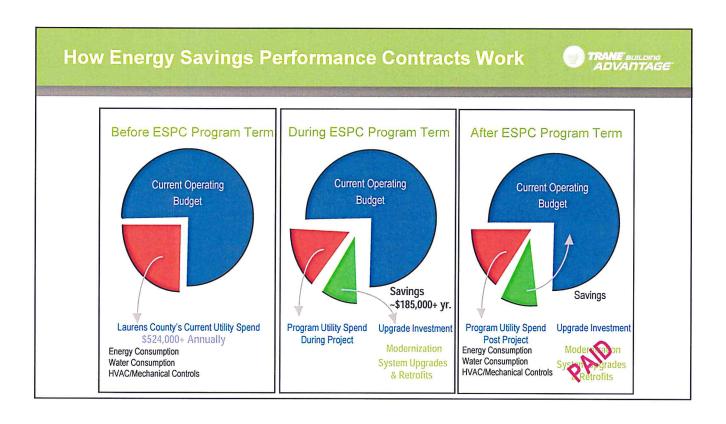


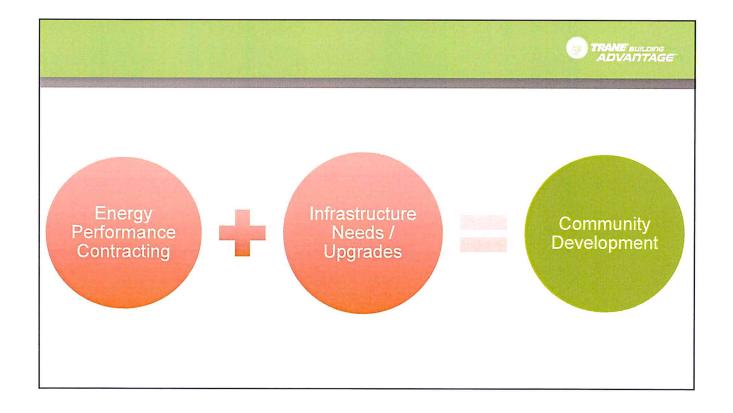
Energy Savings Performance Contracting (ESPC) Defined



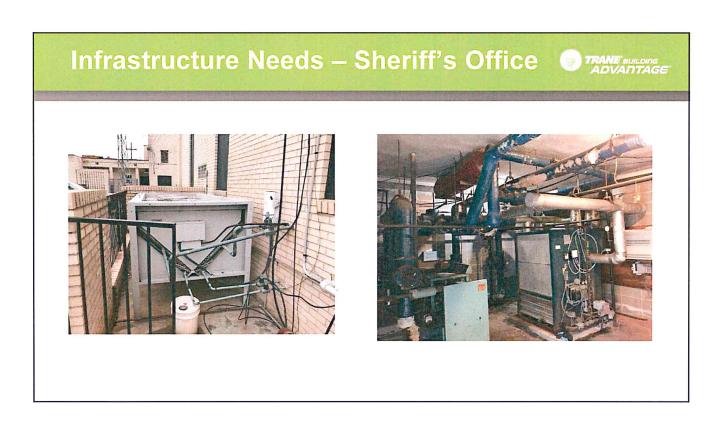
Key Concepts

- South Carolina Legislation (HB 5020) passed in 1992 to provide a funding mechanism that allows public and private entities to make self-funded capital improvements from utility and operational savings
- Infrastructure improvements **pay for themselves** through energy savings, lower operating costs and/or increased billable revenues
- Energy Services Companies (ESCOs) serve as Program Manager and obtain revenues through sale of equipment and services to entities
- Savings cover total cost of program retrofit construction, equipment supply, financing costs, debt service and commissioning
- Results are guaranteed by the ESCO contractor

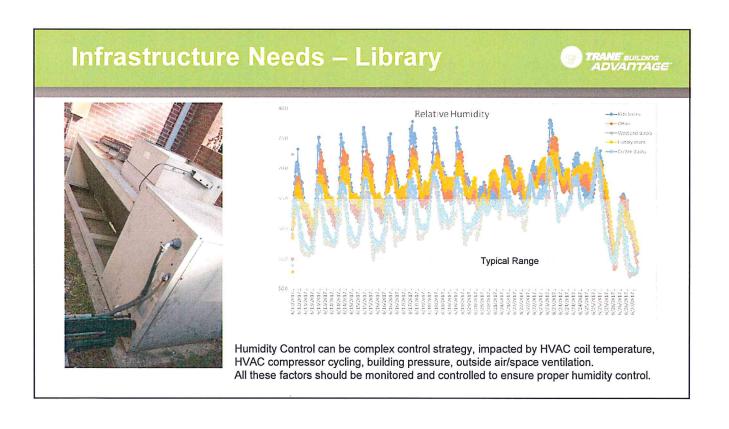


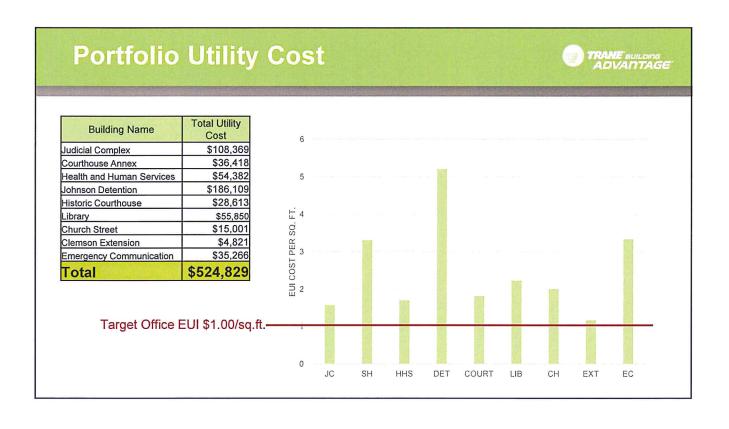






Infrastructure Needs – Health Dept. TRANE BULLDING ADVANTAGE TRANE B





**LED Lighting Upgrades - All Buildings **Water Conservation – All Buildings **Building Automation System Upgrades **Judicial, Clemson, Sheriffs, Church Street **Emergency Communication, Library, HHS **Judicial Complex New Roof **Judicial Complex New HVAC **Sheriff's Office New HVAC

Energy Conservation Measures



LED Lighting Upgrades - All Buildings

	Total Measure Cost		
	\$ 756,121		
Simple Payback	Energy Savings	O&M Savings	
7.3 yrs.	\$97,749	\$ 5,000	

Building Name	Lighting Fixture QTY
Clemson Building	22
County Park	70
Detention Center	519
Emergency Communication	126
Gray Court EMS	20
Health Department and DSS	469
Historic Courthouse	240
Judical Complex	960
Library	475
Sheriff's Office	200
Grand Total	3207



Energy Conservation Measures



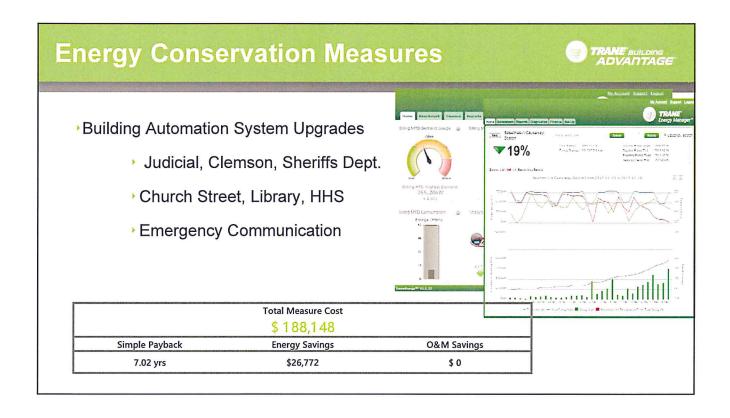
Water Conservation - All Buildings

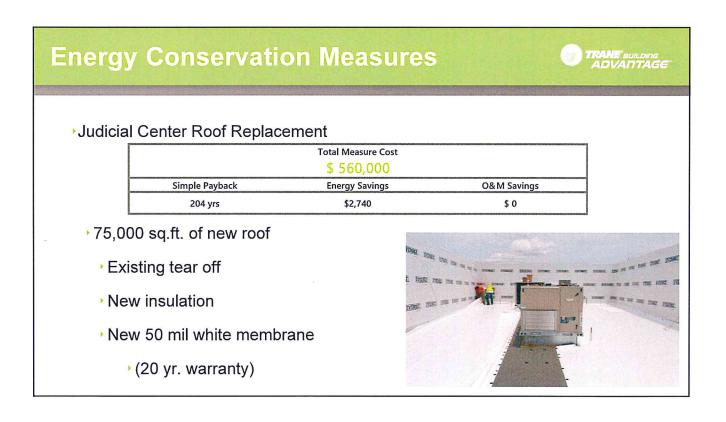
	Total Measure Cost	
	\$ 282,286	
Simple Payback	Energy Savings	O&M Savings
8.77 yrs	\$30,862	\$ 1,312





Building Name	Lighting Fixture QTY
Church Street	20
Detention Center	88
Emergency Communication	11
Health Department and DSS	46
Historic Courthouse	24
Judical Complex	82
Library	21
Sheriff's Office	26
Grand Total	318





Energy Conservation Measures



- Judicial Center HVAC Replacement
 - Replacement of 27 existing rooftop units, 1999 vintage
 - New high efficiency heat pump units
 - Economizer and CO2 ventilation Control



	Total Measure Cost	
	\$ 641,294	
Simple Payback	Energy Savings	O&M Savings
64 yrs	\$8,671	\$ 1,250

Payback Energy Savings Sheriff's Office HVAC Replacement Replacement of existing 1970 equipment New high efficiency variable refrigerant volume system Dedicated outside air units for ventilation Total Measure Cost \$ 344,406 Simple Payback Energy Savings O&M Savings 30.3 yrs. \$1,356 \$10,000

Energy Conservation Measures



- Library HVAC Replacement Option in lieu of Sheriff's Office HVAC
 - Replacement of existing 1989 equipment
 - One for one replacement of existing split system air handling units
 - Will require ceiling removal for access in some spaces

	Total Measure Cost	
	\$ 345,289	
Simple Payback	Energy Savings	O&M Savings
26.9 yrs.	\$2,805	\$ 10,000

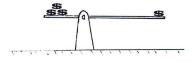
Project Cash Flow Scenario



- Guaranteed Energy Savings \$168,150
- Operational Cost Savings \$17,562
- Project Infrastructure Upgrades \$2,772,255
- Finance term 15 years at 2.75%
- Duke Energy Utility Rebates \$20,054
- Customer Capital Contribution \$275,000

Budget Neutral Infrastructure Modernization Project

\$2,772,255 \$168,150



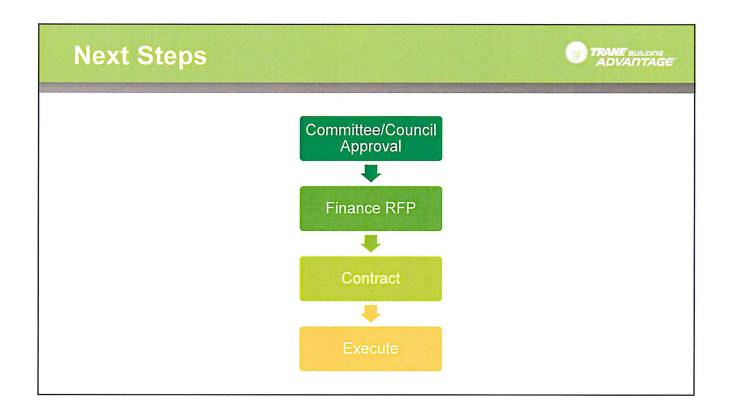
	Total
	Total
Very Dial.	
209,212 \$	2,572,487
1,748 \$	21,499
43,382 \$	533,428
254,343 \$	3,127,415
	and are already being something for the
7,563 \$	92,995
17,017 \$	209,238
1,985 \$	24,402
280,907 \$	3,454,049
,502,049	
16,594 \$	193,075
A Transport	THE STREET
264,312 \$	3,308,973
	全 医 经市
115,290 \$	3,159,951
	149.022
	115,290 \$

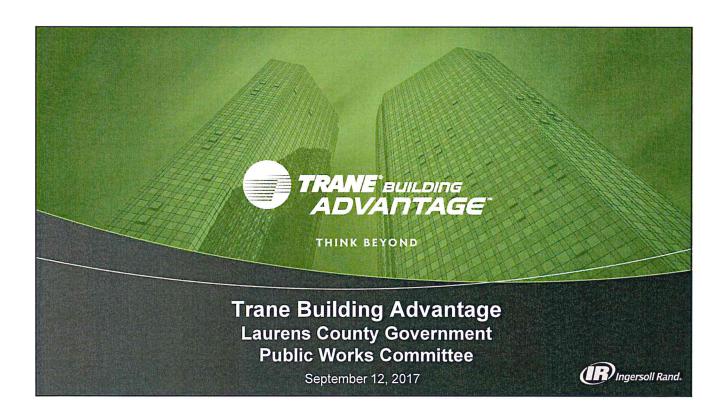
Laurens County Benefit Summary



Avoided Capital Cost \$2,300,000+

- Judicial Center HVAC Replacement: \$640,000+ (end of life, 1999 equipment)
- ▶ Sheriffs Office HVAC Replacement : \$350,000+ (end of life, 47 year old equipment)
- Courthouse Roof Replacement: \$560,000+ (end of life, leaks)
- ▶ Building Lighting: \$750,000+ (T8, T12 fluorescent no longer manufactured)





Item #5b - EMS Capital Master Plan



MEMORANDUM

TO:

Jon Caime

FROM:

Matt Pennington, Laurens County Director of EMS

Robert Russian, Laurens County Director of Public Works

DATE:

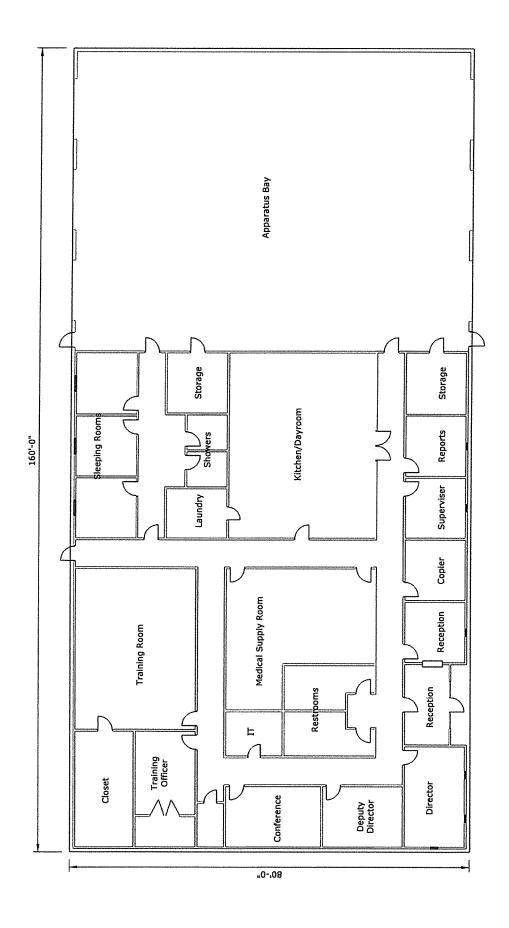
May 24, 2017

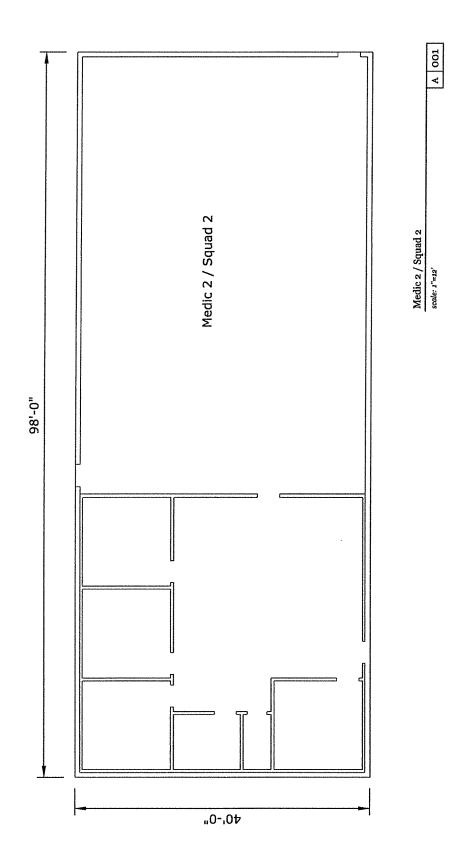
SUBJECT:

Rough Estimates of EMS Capital Master Plan

In an effort to look at long range capital planning for the EMS department, the following projects are proposed in order of priority. Projects and priority listing are a result of a collaboration of the EMS, Fire Services, Administration and Public Works Departments. Cost estimates are approximates based on data from recent bid lettings, repair projects, and other data gathered mostly from current Fire Bond Projects. If Council chooses to proceed, an architectural firm would be retained at an approximate cost of \$20,000 to provide detailed costs and drawings for bonding purposes.

- 1. Construct Headquarters Complex for EMS administration and Medic #1 (See attached building layout)
 - a. Building \$1,500,000 (Based on \$120/ft2 Thompson Road)
 - b. Land Acquisition \$0
 - c. Furnishings \$60,000
 - d. IT Equipment & Electronic Entry \$90,000
 - e. Total Estimated Cost \$1,650,000
- 2. Construct new Medic #2 Complex and relocate Squad #2 to same location (See attached building layout)
 - a. Building \$450,000
 - b. Land Acquisition \$0
 - c. Site Prep/Grading \$100,000
 - d. Furnishings/Misc \$50,000
 - e. Total Estimated Cost \$600,000
- 3. Relocate Medic #5 to Trinity Ridge Fire Department
 - a. Miscellaneous Cost \$10,000
- 4. Relocate Medic #3 to Gray Court Fire Department
 - a. Renovations to GC Fire Department \$150,000
- 5. Renovate Medic #4 in Cross Hill (See attached cost breakdown)
 - a. Total Renovation Cost \$67,000
- 6. Construct new Medic #6 complex and relocate Squad #1 to same location (See attached building layout)
 - a. Total Estimated Cost \$600,000
- 7. Relocate Squad #3 to Thompson Road
 - a. Addition to Thompson Road Fire Station \$150,000
- 8. Total Estimated Cost for all seven projects \$3,227,000

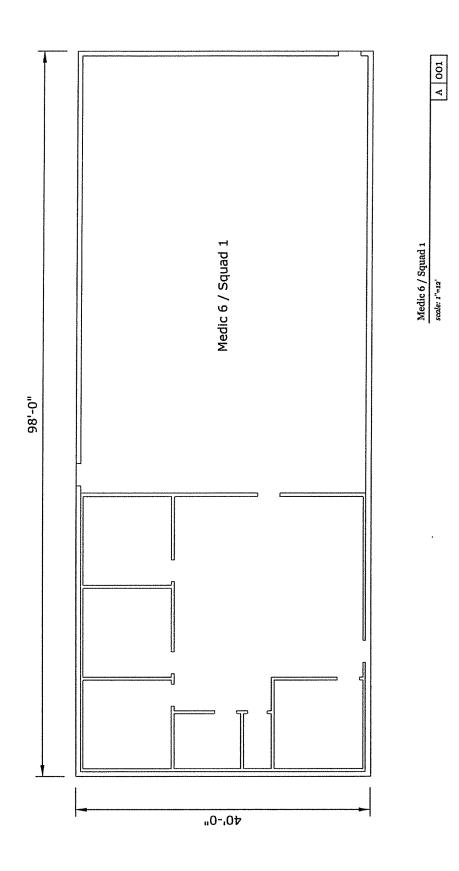




Estimates for Medic 4

Building Needs

Items 1 - 7 and 9 - 16	\$24,000.00
Item 8	\$7,000.00
Item 17	\$6,000.00
Plumbing Needs	
Items 1 - 3	\$4,000.00
Electrical Needs	
Items 1 - 5 (I had not removed Item 1)	\$7,000.00
HVAC	
Item 1 Labor Item 1 Infrared heater from SpaceRay	\$1,000.00 \$1,000.00
Fire Suppression	
Item 1 - 2	\$3,000.00
Painting Needs	
Items 1 - 4	\$5,000.00
Furnishing Needs	
Item 1	\$9,000.00
TOTAL	\$67,000.00



Item #5c - Old Laurens Road Emergency Services Substation

