

Henderson County Schools Guaranteed Energy Savings Contract

February 19, 2019





Project Summary

FACILITY	Henderson County High School	Henderson County North Middle School	Henderson County South Middle School	Bend Gate Elementary School	South Heights Elementary School	A.B. Chandler ES Cairo ES Niagara ES	Bus Garage / Maintenance Building	Board Office	East Heights ES / Learning Center
New HVAC at Main Gym	✓								
New Rooftop Units at Band, Choir and Auditorium	✓								
Replacement of (6) Rooftop Units	✓								
Repacement of (4) Rooftop Units at CTE wing	√								
New Chiller				√					
Domestic Hot Water Tank Insulation	√								
Variable Frequency Drives (VFDs)		√	√						
Building Automation System (Controls) Upgrade	√								
Interior LED Lighting	✓						✓	√	
Exterior LED Lighting	√	√	√	√	√		√	√	
Water Conservation	√	√		√	√	✓		✓	✓



High School Gym Rooftop Units



Previous Gym Units



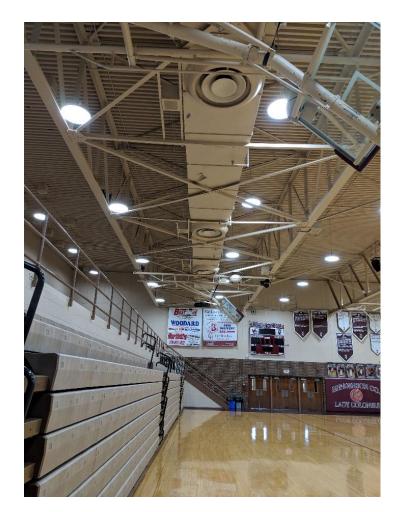
New Location for Rooftop Units



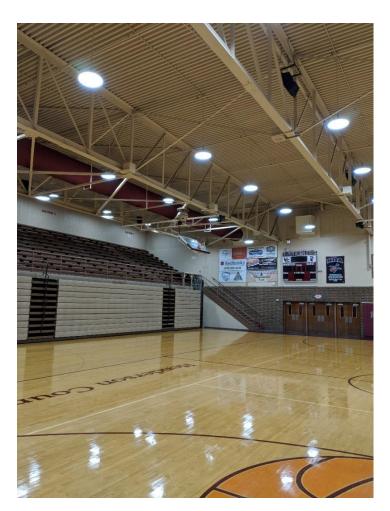
New Gym Rooftop Units



High School Gym Duct Replacement



Previous Gym Duct



New Gym Duct



High School Auditorium Rooftop Unit



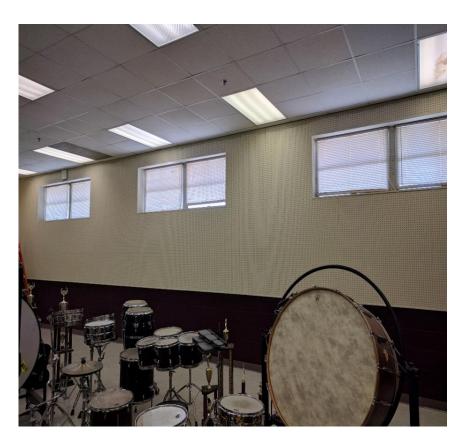
Previous Auditorium Rooftop Unit



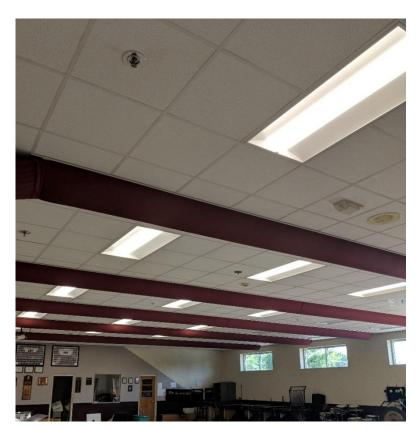
New Auditorium Rooftop Unit



High School Band Room Lighting & HVAC



Band Room - Before



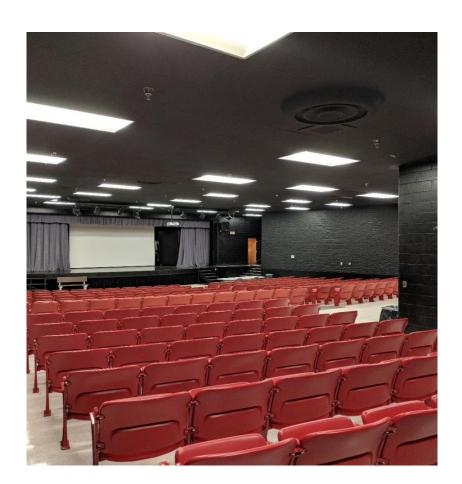
Band Room - After



High School Lighting



Library



Auditorium



Bend Gate ES Chiller Replacement



Old Chiller



New Chiller



Project Financial Summary

	Financial Summary		
Project Cost	\$3,920,000		
Energy Savings	\$129,161		
Operational Savings	\$15,475		
Energy Guarantee / Bond Term	20 years		
Estimated Bonding Potential Used	\$0		
Estimated First-Year Excess Savings	\$82,762		

Plan of financing developed by Ross, Sinclaire & Associates, LLC



What is Intelligent Services?

Carbon Footprint

1,526

17,959,184

- HVAC Performance Monitoring
- Technical Support "Help Desk"
- Training for Operations Staff
- Live Gas & Electric Metering
- Remote Troubleshooting
- Consultations
- Data Review
- Avoided Truck Rolls
- Problem Resolution
- Financial Performance
- Facility/Budget Planning
- Critical System Alarming
- Web-based Energy Dashboards
- Reduced M&V Costs

 Recommendations for Improvement ("ECMs")

