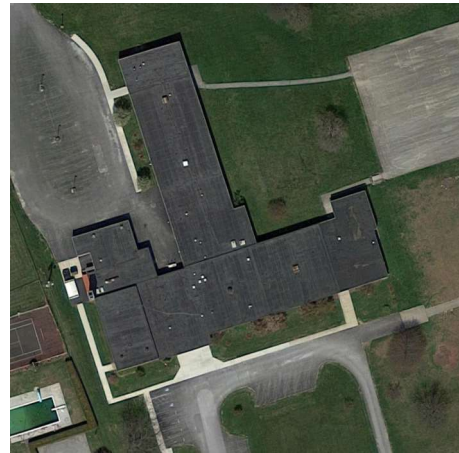




Upper Adams School District GESA Project Review

January 8, 2019





Agenda



+ Review ESCO Scope of Work

- Recommended Scope
- Final Pricing



ESCO

Description	ECM		Development Status	Program
	Cost	20 Year Savings		
Bendersville Elementary School				
Bendersville Elementary LED Upgrades	\$ 38,842	\$ 106,535	Final	
Bendersville Elementary Building Envelope Upgrades	\$ 7,180	\$ 39,634	Final	
Bendersville Elementary Mechanical Insulation	\$ 10,369	\$ 22,316	Final	
Bendersville Elementary MEP Upgrades	\$ 1,372,554	\$ 24,116	Final	
Bendersville Elementary Boiler Room Upgrade	\$ 259,626	\$ 8,451	Final	
Bendersville Elementary Windows & Doors Upgrades	\$ -	\$ 57,87K-58,70K	Budget	
Bendersville Elementary Bathroom Renovations	\$ -	\$ 54.5K-55.0K	Budget	
Bendersville Elementary Music Room Carpet Replacement	\$ -	\$ -	Budget	
Bendersville Elementary Generator Replacement	\$ -	\$ -	Budget	
Arendtsville Elementary School				
Arendtsville Elementary LED Upgrades	\$ 34,576	\$ 96,092	Final	
Arendtsville Elementary Building Envelope Upgrades	\$ 13,252	\$ 21,958	Final	
Arendtsville Elementary Mechanical Insulation	\$ 8,330	\$ 19,063	Final	
Arendtsville Elementary MEP Upgrades	\$ 1,100,298	\$ 73,346	Final	
Arendtsville Elementary Boiler Room Upgrade	\$ 259,626	\$ 9,078	Final	
Arendtsville Elementary Addition Ductwork (Costs would move to hybrid)	\$ 193,335	\$ -	Final	
Arendtsville ES Library and Computer Lab RTU Replacement Includes Cooling	\$ 146,807	\$ -	Final	
Arendtsville Elementary Storefront Replacement	\$ 33,199	\$ -	Final	
Arendtsville Elementary Bathroom Renovations	\$ -	\$ 54.57K-55.05K	Budget	
Arendtsville Elementary Library Carpet Replacement	\$ -	\$ -	Budget	
Arendtsville Elementary Generator Replacement	\$ -	\$ -	Budget	
Biglerville Elementary School				
Biglerville Elementary LED Upgrades	\$ 100,579	\$ 227,374	Final	
Biglerville Elementary Building Envelope Upgrades	\$ 13,726	\$ 51,102	Final	
Biglerville Elementary Mechanical Insulation	\$ 9,000	\$ 17,495	Final	
Biglerville Elementary Transformer Upgrade	\$ 53,751	\$ 140,282	Final	
Biglerville Elementary MEP Upgrades (Direct Replacement)	\$ 2,319,790	\$ 61,653	Final	
Biglerville Elementary MEP Upgrades (VAV Upgrade)	\$ 2,880,490	\$ 458,468	Final	
Biglerville Elementary Boiler Room Upgrade	\$ 348,234	\$ 151,607	Final	
Biglerville Elementary Windows Upgrades (In Kind)	\$ 605,584	\$ 26,579	Final	
Biglerville Elementary Windows Upgrade - Similar Look Non-Operable	\$ 578,223	\$ -	Final	
Biglerville Elementary Windows Upgrade - No Vertical or Horizontal Rails	\$ 505,545	\$ -	Final	
Biglerville Elementary Windows Upgrade - Storefront	\$ 388,279	\$ -	Final	
Biglerville IT Add to Generator	\$ 10,083	\$ -	Final	
Biglerville Elementary Pre-K Bathroom Renovation	\$ 110,365	\$ -	Final	
Biglerville Elementary Gutter System Replacement	\$ 419,747	\$ -	Final	
Biglerville Elementary Gym/Cafeteria Divider Replacement	\$ 37,123	\$ -	Final	
Biglerville Elementary Generator Upgrade	\$ -	\$ -	Final	
Middle/High School				
MS/HS LED Upgrades	\$ 298,455	\$ 736,165	Final	
MS/HS Building Envelope Upgrades	\$ 18,295	\$ 67,340	Final	
MS/HS Mechanical Insulation	\$ 12,170	\$ 27,415	Final	
MS/HS Transformer Upgrade	\$ 118,830	\$ 236,028	Final	
MS/HS MEP Upgrades	\$ 2,375,467	\$ 116,200	Final	
MS/HS Locker Room HTG Only Replacement	\$ 86,939	\$ -	Final	
MS/HS Locker Room HTG & CLG Replacement	\$ 178,120	\$ -	Final	
HS Team Rooms and Adjacent Fitness Room HTG Only	\$ 62,163	\$ -	Final	
HS Team Rooms and Adjacent Fitness Room HTG & CLG	\$ 96,939	\$ -	Final	
MS Wrestling Room and Team Rooms ERV Replacement Includes Cooling	\$ 172,683	\$ -	Final	
MS/HS Locker Room Renovations	\$ -	\$ -	Budget	
MS/HS Team Room Renovations	\$ -	\$ -	Budget	
MS/HS Admin Board Room Carpet Replacement	\$ -	\$ -	Budget	
MS/HS Generator Upgrade for IT & Walk-In Coolers	\$ 117,376	\$ -	Final	
				Program 3
Total Hard Costs				\$8,310,854
Engineering Costs (Mechanical, Electrical, Energy, Structural, Etc.)				\$415,543
Construction Management				\$124,663
Permits & Bonds				\$141,285
Commissioning				\$83,109
Measurement & Verification				\$58,176
Total Soft Costs				\$822,775
Total Project Costs (TPC)				\$9,133,629
20 Year Energy and Operational Savings: (\$)				\$2,489,009
Actual Project Cost: (TPC-\$)				\$6,644,620

+ Program 3

- Address the District's deferred maintenance items in all but Bendersville E.S.
- Scope outside of the addition at Arendtsville
- Includes upgrade of the HVAC in Biglerville E.S.

+ Highlighted ECMs

- Discuss additional ECMs
- Answer questions



Generators



+ MS/HS Generator

- Pricing was already in Program 3

+ Biglerville E.S.

- Generator is sized appropriately to add IT

+ Arendtsville E.S.

- Include in the Hybrid Scope



Arendtsville E.S. Library & Computer Room RTU



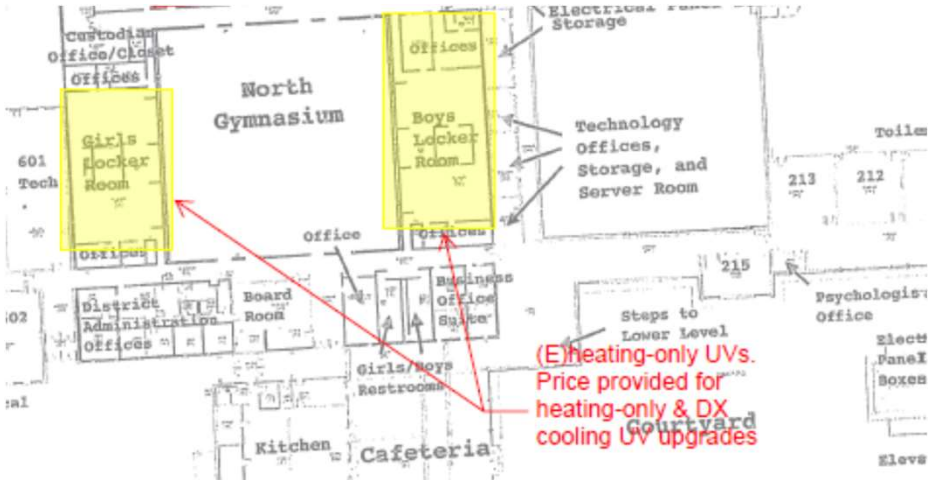
+ Existing System

- Unit Ventilators that provide heating and outdoor air
- Roof Top Unit that provides cooling

+ Proposed System

- Roof Top Unit that provides both heating & Cooling

HS/MS Locker Rooms



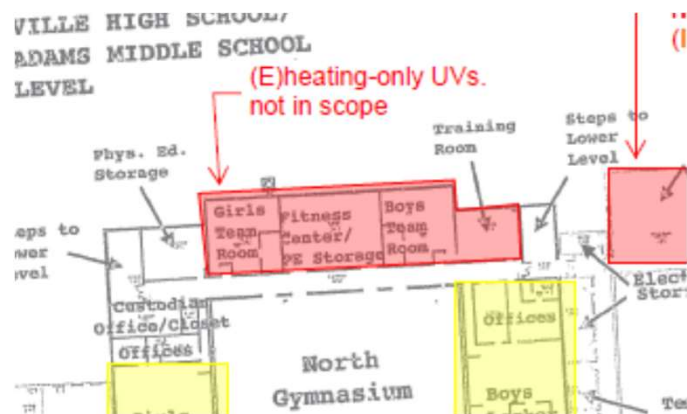
+ Option #1

- Direct Replacement

+ Option #2

- Add Cooling

HS Team Rooms



+ Option #1

- Direct Replacement

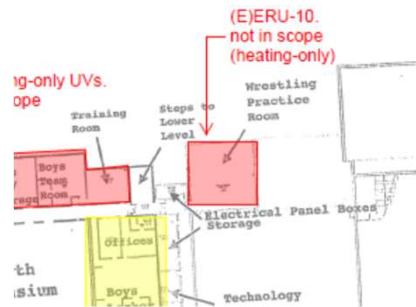
+ Option #2

- Add Cooling

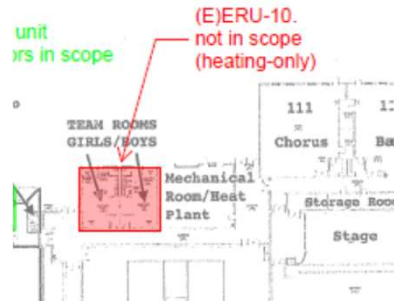
MS Wrestling & Team Rooms



Upper Level



Lower Level



+ Option #1

- ERV Replacement with cooling



+ Project Approvals

- Board Vote: January 15, 2019

+ ESCO Project

- Major Construction: June – August 2019