

EAST MIDDLE SCHOOL AGENDA

01 Program Review

02 Existing Sites

03 Options

04 Cost Estimate





EAST MIDDLE SCHOOL 01 PROGRAM REVIEW

Middle School Program based on Mount Airy MS + BEST Program



Proposed School Size: 123,088 Square Feet

Elementary School Program based on Ebb Valley ES + BEST Program



Proposed School Size: 78,419 Square Feet

Site Amenities

- Parking
- Bus Loop
- BEST Bus Parking
- Parent Drop-Off Loop
- Play Fields/ Playgrounds (Early Childhood, Elementary & BEST playgrounds)

EAST MIDDLE SCHOOL 02 EXISTING SITES

2 SCHOOL SITES

- Middle School Renovation/Addition
- 2-Story Middle School
- K-8 Campus (2-Story Middle School & 1-Story Elementary School)





5 Options were studied:

Option A: Renovation/Addition

Option B: Replacement Middle School on East Middle School Site

Option C: Replacement Middle School and New Elementary School (K-8) on East Middle School Site

Option D: Replacement Middle School on Friendship Valley Elementary School Site

Option E: Replacement Middle School and New Elementary School (K-8) on Friendship Valley Elementary School Site







OPTION A: EAST MIDDLE SCHOOL SITE - MIDDLE SCHOOL ADDITION/RENOVATION



OPTION A: EAST MIDDLE SCHOOL SITE – MIDDLE SCHOOL ADDITION/RENOVATION

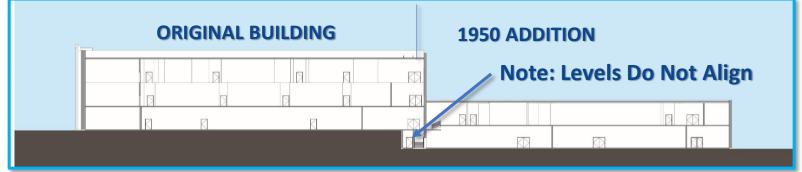


PROS

- Improved site circulation
- Least impact to existing site
- BEST program is connected to school

CONS

- Longest Construction Duration
- Most Expensive Middle School Option
- High phasing costs/ multiple relocatable classrooms for swing space
- Largest Impact to School Occupants
- Largest square footage- Inefficient plan fitting program into 80+ year old building
- Loss of play fields during construction
- Least Energy Efficient Option
- Existing Wood Roof Deck will be limiting for new roof top equipment and Code related fireproofing



OPTION B: EAST MIDDLE SCHOOL SITE - NEW 2-STORY MIDDLE SCHOOL



OPTON B: EAST MIDDLE SCHOOL SITE - NEW 2-STORY MIDDLE SCHOOL



PROS

- Improved site circulation
- Energy efficient building
- Functional adjacencies are optimized
- Existing building remains operational during construction

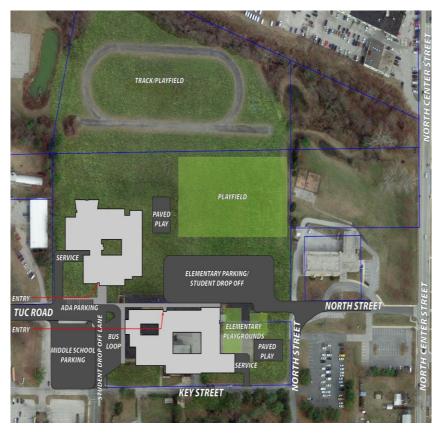
CONS

- Loss of play fields during construction
- Moderate impact on school operations (site use is limited during construction)
- New bus loop cannot be constructed until existing building is demolished
- Additional costs for site phasing

OPTION C: EAST MIDDLE SCHOOL SITE - NEW MIDDLE SCHOOL & ELEMENTARY SCHOOL



OPTION C: EAST MIDDLE SCHOOL SITE – NEW MIDDLE SCHOOL & ELEMENTARY SCHOOL



PROS CONS

- Improved site circulation
- Energy efficient buildings
- Functional adjacencies are optimized
- Existing building remains operational during construction

- Most Expensive Option
- Longest Project Duration
- Most impact to the existing site
- Loss of play fields during construction
- Two buildings cannot be constructed at the same time due to existing school
- Limited site area upon project completion for the required playfields and playgrounds needed to serve elementary school, middle school, and 2 BEST programs
- Access from the elementary school to the playfields is awkward and requires a long walk
- Large increase of impervious area will require more stormwater management on site
- Limited area on site for required reforestation

Additional Considerations

*Option would leave require redistricting for Westminster Area elementary schools, and leave the William Winchester Elementary building vacant

FRIENDSHIP VALLEY ELEMENTARY SCHOOL SITE



OPTION D: FRIENDSHIP ELEMENTARY SCHOOL SITE - NEW 2-STORY MIDDLE SCHOOL



OPTION D: FRIENDSHIP ELEMENTARY SCHOOL SITE - NEW 2-STORY MIDDLE SCHOOL



Additional Considerations

*Option would require Middle School redistricting, and leave the East Middle building vacant

PROS

- Lowest Cost Option
- Shortest construction duration
- No phasing costs
- Utilizes existing building pad
- Energy efficient building
- Functional adjacencies are optimized
- Existing East Middle School building remains operational during construction
- Minimal impact to FVES during construction
- Existing Stormwater management facility has room for expansion

CONS

- Loss of some
 Recreation & Parks
 playfields during and
 after construction
 (however, FVES
 playfields are not
 affected)
- Increase of impervious area on site
- Redistricting would be required
- Impact on Transportation

OPTION E: FRIENDSHIP ELEMENTARY SCHOOL SITE - NEW MIDDLE SCHOOL & ELEMENTARY SCHOOL



OPTION E: FRIENDSHIP ELEMENTARY SCHOOL SITE – NEW K-8 SCHOOL PROS CONS



- Energy efficient buildings
- Functional adjacencies are optimized
- Existing East
 Middle School
 building
 remains
 operational
 during
 construction

- **Energy efficient** Second most costly option
 - Most impact to the existing FVES site
 - Loss of Recreation & Parks playfields during construction
 - Loss of Recreation & Parks playfields permanently when project is complete
 - Limited site area upon project completion for the required playfields and playgrounds needed to serve 2 elementary schools, middle school, and 2 BEST programs
 - Access from the new elementary school to the playfields is awkward and requires a long walk
 - Large increase of impervious area will require more stormwater management on site
 - Limited area on site for required reforestation
 - Increased traffic for arrival & dismissal of 3 schools & may require offsite road improvements

Additional Considerations

*Option would require Middle School and Elementary School redistricting, and leave the East Middle and William Winchester Elementary buildings vacant

SUMMARY OF PROS AND CONS

	OPTION A	OPTION B	OPTION C	OPTION D	OPTION E
Pros/Cons					
Adequate Space for Playfields & Playgrounds					
BEST Program is Connected to School					
Building Energy Efficiency					
Building Size Efficiency/ Functional Relationships					
Construction Cost	3				
Construction Duration					
Impact to Building Occupants					
Impact to Site During Construction	3				
Loss of Playfields During/After Construction					
Phasing Costs	,				
Reforestation Impact to Site					
Site Circulation Improvement/Traffic Increase					
Stormwater Management Increase					
	,				

EAST MIDDLE SCHOOL 04 COST ESTIMATE

REN	OPTION A OVATION/ADDITION	OPTION B 2-STORY MIDDLE SCHOOL EMS SITE	OPTION C 2-STORY MIDDLE & 1- STORY ELEMENTARY SCHOOLS EMS SITE	OPTION D 2-STORY MIDDLE SCHOOL FVES SITE	OPTION E 2-STORY MIDDLE & 1- STORY ELEMENTARY SCHOOLS FVES SITE
Construction	\$35,294,490*	\$38,978,576	\$62,661,114	\$37,172,576	\$60,855,114
Site	\$7,556,998	\$7,139,104	\$11,687,406	\$7,139,104	\$11,687,406
Phasing Costs	\$5,294,174	\$1,559,143	\$3,133,056	\$0	\$0
Design	\$3,428,040	\$3,228,238	\$5,204,396	\$3,101,818	\$5,077,976
FF&E	\$2,999,535	\$3,228,238	\$5,204,396	\$3,101,818	\$5,077,976
Owner Contingency	\$1,285,515	\$1,383,530	\$2,230,456	\$1,329,350	\$2,176,276
Escalation (2 years)	\$4,468,621	\$4,441,346	\$7,209,666	\$4,147,573	\$6,789,980
TOTAL	\$60,326,382	\$59,958,175	\$97,330,490	\$55,992,239	\$91,664,728

(No Instructional Improvements)

^{*}ADA/Code Upgrades Only \$ 4,500,000

^{*}MEP System Upgrades / Roof / Windows Only \$18,000,000

