

District Name: Boone County District Code: 035 Facility Name: Camp Ernst Middle School School Code: 010

Project Name: Additions and Renovations REH Project #129-222 Date: March 9, 2023

PROJECT TYPE: Yes No Gross Building Area (sf.)

New Building	<input type="checkbox"/>	<input type="checkbox"/>	
Addition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>18,954</u>
Renovation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>117,907</u>
	<input type="checkbox"/>	<input type="checkbox"/>	

Provisions for Future Expansion: The addition wings can all be expanded in the same direction as the current expansion. Fire walls at the new additions permit significant future expansion.

Proposed Alternates: (1) None
(2) _____
(3) _____

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Cast-in-place concrete

Exterior Walls: Masonry cavity walls

Roof Structure: Steel deck on light gauge metal trusses

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

38.44 Energy Consumption "Existing" (kBtu/sf/yr)

34.6 Energy Consumption Target (kBtu/sf/yr)

YES NO

<input type="checkbox"/>	<input checked="" type="checkbox"/>	LEED Certified	Other: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to meet Energy Star	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exceeds ASHRAE 90.1(2007) by 10% (Minimum)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design	

Life Cycle Cost Analysis Software Used: _____

If not yes to one or more of the above, explain why. _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to be Net-Zero
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to be Net-Zero Ready

Energy Efficient Design Features: (See List Page 4, or Use Drop Down List)

East / West Building Orientation ☐ YES ☐ NO

Gross Exterior Wall Area (sf): 8,697 (addition area only) Avg. Exterior Wall R-Value: 16.4

Gross Window / Door Area (sf): 1,038 Avg. Window/Door R-Value: 2

Gross Roof Area (sf): 19,800 Avg. Roof R-Value: 34.9

Exterior Wall Type: A - face brick, captured air space, board insulation and waterproof CMU Other: _____

Roofing Type: E - asphalt shingle roofing over nailable deck with insulation Other: _____

HVAC System Type: C - ground source heat pump system with air make up Other: _____

Classroom Lighting: E - other Other: LED

Active Daylighting: B - occupancy light control sensors Other: _____

Passive Daylighting: G - none Other: _____

On Site Energy Generation: G - none Other: _____

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Camp Ernst Middle - Additions / Renovations

REH Project #129-222

Date: March 9, 2023

Air Purification Systems : YES ☐ NO ☒Gray Water System : YES ☐ NO ☒Low Water Use Fixtures : YES ☒ NO ☐

Other: _____

PLUMBING:Type of Sewage Disposal: Municipal**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: _____ Heating & Mechanical: _____ HVAC: X A/C Only: _____
Ventilation OnlyFuel Source/Backup (if applicable): none**ELECTRICAL:**Source of Electric Power: Utility TransomerVoltage Serving Facility: 277/480 Volts

Number of Convenience Outlets:

Classrooms 12 per classroom+specialty equip. needsLibrary/Media Center 20 specialty equipment needsBusiness Ed N/AFamily & Consumer Science N/ACamera System: N/A

Lighting Intensity (fc.):

Std. Classrooms 50Library/Media Ctr 75Science Lab 50Science Clrm 50Band/Music 50Business Ed 50Shops 50Corridors 20Stairways 20Cafeteria 50Pre-School Clrm N/AArt Classroom 50Gymnasium 50**SPECIAL EQUIPMENT:**

System	Conduit Only	Conduit & Wiring	Complete with Equipn
Bell			X
Clock			
Fire Alarm			X
Intercom			X
Telephone		X	
Television			
Computer			
Wireless Network		X	
Interactive White bd			
Voice Amplification		X	

FIXED EQUIPMENT:

Teacher Cabinet	Yes	Custodial Room Shelves	
Student Lockers	Yes	Science Laboratories	
Folding Bleachers		Family & Consumer Sci	
Library Furnishings		Other	
Dry Food Shelves		Other	

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

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Date: March 9, 2023

INTERIOR FINISH SCHEDULE: N/A

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors	Rubber Tile	N/A	Painted CMU	Acoustic tile
Custodial	Sealed Concrete	N/A	Painted CMU	Acoustic tile
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets	Porcelain Tile	N/A	Painted CMU	Acoustic tile
Library/Media Cntr				
Classrooms	Rubber Tile	N/A	Painted CMU	Acoustic tile
Music				
Art				
Science	Rubber Tile	N/A	Painted CMU	Acoustic tile
FMD				
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect:

Date: 2/22/2023

Signature

Robert Ehmet Hayes & Associates, PLLC

Kentucky Registered Engineer:

Date: 2/22/2023

Signature

Shrout Tate Wilson

Board Designee or Superintendent:

Date: _____

Signature

Boone County Board of Education

Energy Efficient Design Features Lists**Exterior Wall Type**

- A - face brick, captured air space, board insulation and waterproof CMU
- B - face brick, captured air space, sprayed insulation on CMU
- C - face brick, captured air space, sheathing over metal insulated stud system, interior finish system
- D - face brick, ICF poured concrete, interior finish system
- E - other, describe

Roofing Type List

- A - modified bitumen over rigid insulation
- B - EPDM over rigid insulation
- C - plastic single ply over rigid insulation
- D - metal roofing over nailable deck with insulation
- E - asphalt shingle roofing over nailable deck with insulation
- F - other, describe

HVAC System Type List

- A - two pipe unit ventilator system
- B - water source heat pump system with air make up
- C - ground source heat pump system with air make up
- D - hybrid water source heat pump system with boiler/chiller and well field with air make up
- E - variable refrigerant flow (VRF) with air make up
- F - hybrid geothermal/variable refrigerant flow (VRF) with air make up
- G - variable refrigerant volume (VRV) with air make up
- H - hybrid geothermal/variable refrigerant volume (VRV) with air make up
- I - chilled beam system
- J - hybrid chilled beam/geothermal system
- L - other

Classroom Lighting List

- A - T8 fluorescent fixtures
- B - T5 fluorescent fixtures
- C - high energy gas fixtures
- D - low voltage systems
- E - other

Active Daylight System List

- A - classroom fluorescent dimming including dimming switches, ballasts and sensors
- B - occupancy light control sensors
- C - remote sensor bi-level lighting with no fixtures dimming
- D - manual bi-level lighting with no fixture dimming
- E - other
- F - none

Passive Daylight Systems List

- A - upper classroom clerestory lighting with sloped ceiling plane
- B - lower classroom clerestory lighting that does NOT require sloping the ceiling plane
- C - exterior light shelves
- D - solar tubes without dimming
- E - solar tubes with internal dimmers
- F - other
- G - none

On Site Energy Generation List

- A - solar water heating
 - B - solar electric generation (small units for demonstration or for limited areas)
 - C - solar electric generation (to support the entire building's energy needs)
 - D - wind generation (small units for demonstration or for limited areas)
 - E - wind generation (to support the entire building's energy needs)
 - F - other
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For Reference

KENTUCKY DEPARTMENT OF EDUCATION

702 KAR 4:160

BG-3

STATEMENT OF PROBABLE COST

District Name: Boone County District Code: 035 Facility Name: Camp Ernst Middle School School Code: 010

Project Name: Addition and Renovations REH Project #129-222 Date: 3/9/23

Project Phase:	Design Development: <input checked="" type="checkbox"/>	Construction Documents: <input type="checkbox"/>
1. Site Development	\$	<u>221,213</u>
2. General Construction	\$	<u>3,500,000</u>
3. Heating, Ventilation & Air Conditioning	\$	<u>2,056,574</u>
4. Plumbing (Include Sprinkler System)	\$	<u>259,500</u>
5. Electrical Work	\$	<u>2,700,213</u>
6. Sewage Disposal System	\$	
7. Total Construction Cost (1-6)		<u>8,737,500</u>
8. Site Acquisition Cost (Purchase Price)	\$	
9. Legal Services	\$	
10. Fiscal Agent Fee	\$	
11. Bond Discount	\$	
12. Architect/Engineer Fee	\$	<u>400,575</u>
13. Construction/Manager Fee (if Applicable)	\$	
14. Equipment/Furnishings (Not Fixed)/Computers	\$	<u>300,000</u>
15. Property & Topographic Survey	\$	<u>10,000</u>
16. Geotechnical Survey & Report	\$	<u>10,000</u>
17. Special Inspections	\$	<u>40,000</u>
18. Asbestos Abatement	\$	
19. Commissioning Fee	\$	<u>15,000</u>
20. Plan Review Fee	\$	<u>10,000</u>
21. Printing & Distribution of Bid Docs / reimb / adv	\$	<u>1,000</u>
22. Contingencies - Minimum 5% of Line 7	\$	<u>436,875</u>
23. Testing and Balancing	\$	<u>20,000</u>
24. Total Other Cost (8-23)		<u>1,243,450</u>
25. TOTAL PROJECT COST (line 7 + line 24)		<u>\$9,980,950</u>

a. Gross Square Foot Area*

b. Total Cost Per Square Foot

c. Total Cost Per Pupil

d. Gross Sq. Ft. Area of Alternates

* Base Bid Area Only

Kentucky Registered Architect/Engineer:

Robert Ehmet Hayes & Associates, PLLC

Date: 2/22/2023

Board of Education Designee:

Date: _____