

District Name: Boone County District Code: 035 Facility Name: Yealey Elementary School School Code: 005

Project Name: Renovations REH Project #129-421-E Date: July 13, 2023

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☐ ☐ _____
Addition ☐ ☐ _____
Renovation ☒ ☐ _____
☐ ☐ _____

Provisions for Future Expansion: None

Proposed Alternates: (1) _____
(2) _____
(3) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Concrete

Exterior Walls: Cavity wall, CMU / brick

Roof Structure: Metal deck / wood deck

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

64.9 Energy Consumption Target (kBtu/sf/yr)

YES NO

☐ ☒ LEED Certified Other: _____
☒ ☐ Designed to meet Energy Star
☒ ☐ Exceeds ASHRAE 90.1(2007) by 10% (Minimum)
☐ ☒ 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. _____

☐ ☒ Designed to be Net-Zero
☐ ☒ 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): _____ Avg. Exterior Wall R-Value: _____

Gross Window / Door Area (sf): _____ Avg. Window/Door R-Value: _____

Gross Roof Area (sf): _____ Avg. Roof R-Value: _____

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

Roofing Type: C - plastic single ply over rigid insulation Other: _____

HVAC System Type: L - other Other: 4 pipe fan coil

Classroom Lighting: E - other Other: LED

Active Daylighting: E - other Other: Sensor w/ auto dim

Passive Daylighting: G - none Other: _____

On Site Energy Generation: F - other Other: none

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Yealey Elementary - Renovations

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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: xx A/C Only: _____
Ventilation OnlyFuel Source/Backup (if applicable): natural gas**ELECTRICAL:**Source of Electric Power: Pad mounted transformer (Duke Energy)Voltage Serving Facility: 480V

Number of Convenience Outlets:

Classrooms 5Library/Media Center N/ABusiness Ed N/AFamily & Consumer Science N/ACamera System: Yes

Lighting Intensity (fc.):

Std. Classrooms 50Library/Media Ctr 75Science Lab N/AScience Ctrm N/ABand/Music 50Business Ed N/AShops N/ACorridors 30Stairways 30Cafeteria 50Pre-School Ctrm 75Art Classroom 100Gymnasium 50**SPECIAL EQUIPMENT:**

System	Conduit Only	Conduit & Wiring	Complete with Equipn
Bell	_____	_____	<u>x</u>
Clock	_____	_____	<u>x</u>
Fire Alarm	_____	_____	<u>x</u>
Intercom	_____	_____	<u>N/A</u>
Telephone	_____	_____	<u>N/A</u>
Television	_____	_____	<u>N/A</u>
Computer	_____	_____	<u>N/A</u>
Wireless Network	_____	_____	<u>N/A</u>
Interactive White bd	_____	<u>x</u>	_____
Voice Amplification	_____	_____	<u>x</u>

FIXED EQUIPMENT:

Teacher Cabinet	<u>x</u>	Custodial Room Shelves	<u>x</u>
Student Lockers	<u>x</u>	Science Laboratories	_____
Folding Bleachers	<u>x</u>	Family & Consumer Sci	_____
Library Furnishings	<u>x</u>	Other	_____
Dry Food Shelves	<u>x</u>	Other	_____

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INTERIOR FINISH SCHEDULE: N/A

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	Carpet	CMU	CMU	Acoustical
Corridors	Rubber	CMU	CMU	Acoustical
Custodial	Ceramic tile	CMU	CMU	Acoustical
Kitchen	Ceramic tile	CMU	CMU	Acoustical
Cafeteria	Rubber	CMU	CMU	Acoustical
Gym	Wood	CMU	CMU	Acoustical
Showers/Locker	Ceramic tile	CMU	CMU	Acoustical
Toilets	Ceramic tile	CMU	CMU	Acoustical
Library/Media Cntr	Carpet	CMU	CMU	Acoustical
Classrooms	Rubber	CMU	CMU	Acoustical
Music	Rubber	CMU	CMU	Acoustical
Art	Rubber	CMU	CMU	Acoustical
Science	Rubber	CMU	CMU	Acoustical
FMD	Rubber	CMU	CMU	Acoustical

OTHER AREAS

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Miscellaneous Project Specific Features:

Kentucky Registered Architect:

Signature
Robert Ehmet Hayes & Associates, PLLC

Date: 6/22/2023

Kentucky Registered Engineer:

Signature
Shrout Tate Wilson

Date: 6/22/2023

Board Designee or Superintendent:

Signature
Boone County Board of Education

Date: _____

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

For Reference

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Project Phase: Design Development: ☒ Construction Documents: ☐

1. Site Development	\$	100,000	
2. General Construction	\$	6,718,500	
3. Heating, Ventilation & Air Conditioning	\$	2,180,000	
4. Plumbing (Include Sprinkler System)	\$	1,115,000	
5. Electrical Work	\$	2,186,500	
6. Sewage Disposal System	\$		
7. Total Construction Cost (1-6)			12,300,000
8. Site Acquisition Cost (Purchase Price)	\$		
9. Legal Services	\$		
10. Fiscal Agent Fee	\$		
11. Bond Discount	\$		
12. Architect/Engineer Fee	\$	761,370	
13. Construction/Manager Fee (if Applicable)	\$		
14. Equipment/Furnishings (Not Fixed)/Computers	\$	738,000	
15. Property & Topographic Survey	\$		
16. Geotechnical Survey & Report	\$		
17. Special Inspections	\$	10,000	
18. Asbestos Abatement	\$	2,500	
19. Commissioning Fee	\$	90,000	
20. Plan Review Fee	\$	10,000	
21. Printing & Distribution of Bid Docs / reimb / adv	\$	2,500	
22. Contingencies - Minimum 5% of Line 7	\$	615,000	
23. Testing and Balancing	\$	28,250	
24. Total Other Cost (8-23)			2,257,620
25. TOTAL PROJECT COST (line 7 + line 24)			\$14,557,620

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: 6/22/2023

Board of Education Designee:

Date: _____