

District Name: Boone County District Code: 035 Facility Name: Ryle High School School Code: 071  
Project Name: HVAC Upgrades REH Project #129-924-N Date: 2/13/25

PROJECT TYPE: Yes No Gross Building Area (sf.)  
New Building ☐ ☒ \_\_\_\_\_  
Addition ☐ ☒ \_\_\_\_\_  
Renovation ☒ ☐ 281,000

Provisions for Future Expansion: \_\_\_\_\_

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: \_\_\_\_\_

Exterior Walls: \_\_\_\_\_

Roof Structure: \_\_\_\_\_

**ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):**

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

57 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: \_\_\_\_\_ Other: \_\_\_\_\_

Roofing Type: \_\_\_\_\_ Other: \_\_\_\_\_

HVAC System Type: L - other Other: chilled water

Classroom Lighting: \_\_\_\_\_ Other: \_\_\_\_\_

Active Daylighting: \_\_\_\_\_ Other: \_\_\_\_\_

Passive Daylighting: \_\_\_\_\_ Other: \_\_\_\_\_

On Site Energy Generation: \_\_\_\_\_ Other: \_\_\_\_\_

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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: n/a

**HEATING, VENTILATION AND AIR CONDITIONING:**

Heating Only: \_\_\_\_\_ Heating & Mechanical: \_\_\_\_\_ HVAC: x A/C Only: \_\_\_\_\_  
Ventilation Only

Fuel Source/Backup (if applicable): natural gas

**ELECTRICAL:**

Source of Electric Power: utility

Voltage Serving Facility: 480/3

Number of Convenience Outlets:

Classrooms \_\_\_\_\_

Library/Media Center \_\_\_\_\_

Business Ed \_\_\_\_\_

Family & Consumer Science \_\_\_\_\_

Camera System: \_\_\_\_\_

Lighting Intensity (fc.):

Std. Classrooms \_\_\_\_\_

Library/Media Ctr \_\_\_\_\_

Science Lab \_\_\_\_\_

Science Ctrm \_\_\_\_\_

Band/Music \_\_\_\_\_

Business Ed \_\_\_\_\_

Shops \_\_\_\_\_

Corridors \_\_\_\_\_

Stairways \_\_\_\_\_

Cafeteria \_\_\_\_\_

Pre-School Ctrm \_\_\_\_\_

Art Classroom \_\_\_\_\_

Gymnasium \_\_\_\_\_

**SPECIAL EQUIPMENT: N/A**

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

**FIXED EQUIPMENT:**

Teacher Cabinet \_\_\_\_\_

Student Lockers \_\_\_\_\_

Folding Bleachers \_\_\_\_\_

Library Furnishings \_\_\_\_\_

Dry Food Shelves \_\_\_\_\_

Custodial Room Shelves \_\_\_\_\_

Science Laboratories \_\_\_\_\_

Family & Consumer Sci \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Project: Ryle High School - HVAC Upgrades

REH Project #129-924-N

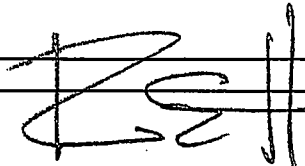
Date: 2/13/25

**INTERIOR FINISH SCHEDULE: N/A**

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors				
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets				
Library/Media Cntr				
Classrooms				
Music				
Art				
Science				
FMD				
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect:



Signature

Robert Ehmet Hayes & Associates, PLLC

Date: 1/22/2025

Kentucky Registered Engineer:



Signature

Shrout Tate Wilson

Date: 1/22/2025

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
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For Reference

District Name: Boone County District Code: 035 Facility Name: Ryle High School School Code: 071

Project Name: HVAC Upgrades REH Project #120-924-N Date: 2/13/25

Project Phase: Design Development: ☒ Construction Documents: ☐

1. Site Development	\$	
2. General Construction	\$	302,790
3. Heating, Ventilation & Air Conditioning	\$	1,426,230
4. Plumbing (Include Sprinkler System)	\$	
5. Electrical Work (Including CT)	\$	165,600
6. Sewage Disposal System	\$	
7. Total Construction Cost (1-6)		1,894,620
8. Site Acquisition Cost (Purchase Price)	\$	
9. Legal Services	\$	
10. Fiscal Agent Fee	\$	
11. Bond Discount	\$	
12. Architect/Engineer Fee	\$	125,045
13. Construction/Manager Fee (if Applicable)	\$	
14. Equipment/Furnishings (Not Fixed)/Computers	\$	
15. Property & Topographic Survey	\$	
16. Geotechnical Survey & Report	\$	
17. Special Inspections	\$	
18. Asbestos Abatement	\$	
19. Commissioning Fee	\$	20,000
20. Plan Review Fee	\$	
21. Printing & Distribution of Bid Docs	\$	1,500
22. Contingencies - Minimum 5% of Line 7	\$	94,731
23. Testing and Balancing	\$	12,500
24. Total Other Cost (8-23)		253,776
25. TOTAL PROJECT COST (line 7 + line 24)		\$2,148,396

- 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:  Date: 1/22/25  
Robert Ehmet Hayes & Associates, PLLC

Board of Education Designee: \_\_\_\_\_ Date: \_\_\_\_\_