

District Name: Boone County District Code: 035 Facility Name: Ignite Institute School Code: N/A
Project Name: Renovations REH Project #129-423 Date: 12/14/23

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☐ ☒
Addition ☐ ☒
Renovation ☒ ☐ 10,120 sf

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: Existing concrete
Exterior Walls: Existing CMU, metal panel and curtain wall
Roof Structure: Steel joists and deck

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

45.0 Energy Consumption "Existing" (kBtu/sf/yr)
45.0 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): 31,114 Avg. Exterior Wall R-Value: unknown
Gross Window / Door Area (sf): 16,842 Avg. Window/Door R-Value: unknown
Gross Roof Area (sf): 132,500 Avg. Roof R-Value: unknown
Exterior Wall Type: E - other, describe (wall panels, curtainwall, split faced block) Other: Mech attached EPDM
Roofing Type: B - EPDM over rigid insulation Other: _____
HVAC System Type: L - other Other: Packaged RTU/VAV
Classroom Lighting: E - other Other: LED
Active Daylighting: F - none Other: _____
Passive Daylighting: F - none Other: _____
On Site Energy Generation: F - other Other: none

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Ignite Institute - 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: Utility - Owen ElectricVoltage Serving Facility: 277/480v

Number of Convenience Outlets:

Classrooms 6

Library/Media Center _____

Business Ed _____

Family & Consumer Science _____

Camera System: _____

Lighting Intensity (fc.):

Std. Classrooms 50

Library/Media Ctr _____

Science Lab 50

Science Ctrm _____

Band/Music _____

Business Ed _____

Shops _____

Corridors 30

Stairways _____

Cafeteria _____

Pre-School Ctrm _____

Art Classroom _____

Gymnasium _____

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

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

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INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors	<u>Polished concrete</u>		<u>Gypsum</u>	<u>Acoustic</u>
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets				
Library/Media Cntr				
Classrooms				
Music				
Art				
Science	<u>Rubber</u>		<u>Gypsum</u>	<u>Acoustic</u>
FMD				
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect:

Date: 11/15/2023

Signature

Robert Ehmet Hayes & Associates, PLLC

Kentucky Registered Engineer:

Date: 11/15/2023

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

For Reference

District Name: Boone County District Code: 035 Facility Name: Ignite Institute School Code: 160

Project Name: Renovations REH Project #129-423 Date: 12/14/23

Project Phase: _____ Design Development: ☒ Construction Documents: ☐

1. Site Development	\$	
2. General Construction	\$	3,235,000
3. Heating, Ventilation & Air Conditioning	\$	497,000
4. Plumbing (Include Sprinkler System)	\$	142,000
5. Electrical Work	\$	426,000
6. Sewage Disposal System	\$	
7. Total Construction Cost (1-6)		4,300,000
8. Site Acquisition Cost (Purchase Price)	\$	
9. Legal Services Landscaping	\$	
10. Fiscal Agent Fee	\$	
11. Bond Discount	\$	
12. Architect/Engineer Fee	\$	300,000
13. Construction/Manager Fee (if Applicable)	\$	
14. Equipment/Furnishings (Not Fixed)/Computers	\$	413,020
15. Property & Topographic Survey	\$	
16. Geotechnical Survey & Report	\$	
17. Special Inspections	\$	
18. Asbestos Abatement	\$	
19. Commissioning Fee	\$	
20. Plan Review Fee	\$	10,000
21. Printing & Distribution of Bid Docs / Adv / Reimb	\$	1,500
22. Contingencies - Minimum 5% of Line 7	\$	215,000
23. Testing and Balancing	\$	
24. Total Other Cost (8-23)		939,520
25. TOTAL PROJECT COST (line 7 + line 24)		\$5,239,520

- 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: 12-15-23

Board of Education Designee: _____ Date: _____