

District Name: Hardin County District Code: 231 Facility Name: JT Alton Middle School School Code: 77

Project Name: JT Alton Middle School - Re-Roof Project

**PROJECT TYPE:** Yes No Gross Building Area (sf.)  
New Building ☐ ☒  
Addition ☐ ☒  
Renovation ☒ ☐ 67,508  
Provisions for Future Expansion: N/A

Proposed Alternates: (1) Add new roofing for rear stand-alone buildings  
(2) Add metal wrap on existing fascia boards  
(3) Add metal wall panels to the vertical walls of the gymnasium roof.  
(4) Replace metal canopies at the building's service entries.

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

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: No change from existing

Exterior Walls: No change from existing

Roof Structure: Plywood deck over wood trusses - no change from existing.

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

N/A Energy Consumption "Existing" (kBtu/sf/yr)

N/A 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. There is no change to the building envelope or insulation as part of the project.

☐ ☒ 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: \_\_\_\_\_ F - other, describe Other: Metal on plywood

HVAC System Type: \_\_\_\_\_ Other: \_\_\_\_\_

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

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

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

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

Air Purification Systems : YES ☐ NO ☒

Gray Water System : YES ☐ NO ☒

Low Water Use Fixtures : YES ☐ NO ☒

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

**PLUMBING:** (Not Applicable to Project)

Type of Sewage Disposal: \_\_\_\_\_

**HEATING, VENTILATION AND AIR CONDITIONING:** (Not Applicable to Project)

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

Fuel Source/Backup (if applicable): \_\_\_\_\_

**ELECTRICAL:** (Not Applicable to Project)

Source of Electric Power: _____	Lighting Intensity (fc.):
Voltage Serving Facility: _____	Std. Classrooms _____
Number of Convenience Outlets:	Library/Media Ctr _____
Classrooms _____	Science Lab _____
Library/Media Center _____	Science Clrm _____
Business Ed _____	Band/Music _____
Family & Consumer Science _____	Business Ed _____
Camera System: _____	Shops _____
	Corridors _____
	Stairways _____
	Cafeteria _____
	Pre-School Clrm _____
	Art Classroom _____
	Gymnasium _____

**SPECIAL EQUIPMENT:** (Not Applicable to Project)

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:** (Not Applicable to Project)

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

**INTERIOR FINISH SCHEDULE:** (Not Applicable to Project)

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

Date: 2/3/17

Kentucky Registered Engineer:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Board Designee or Superintendent:

\_\_\_\_\_  
Signature

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
- G - none

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For Reference