

District Name: Mercer County District Code: 421 Facility Name: Mercer County Elementary School Code:

Project Name: New Mercer County Elementary School

Table with columns: PROJECT TYPE (Yes/No), Gross Building Area (sf.). Rows include New Building (72,182 SF), Addition, and Renovation.

Provisions for Future Expansion: A future addition for another grade level is planned on the Site Plans

- Proposed Alternates: (1) Owner Preferred Hardware/Access Controls, (2) Owner Preferred Masonry Manufacturer, (3) Owner Preferred Flush valve Manufacturer, (4) Terrazzo in Cafeteria, (5) Bus Loop canopy, (6) Wall Tile in Public Restrooms at 1st and 2nd grade, (7) Copper feeders up to distribution panel

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure: Foundation: Concrete footers and stem walls; Exterior Walls: Load bearing CMU with spray foam insulation and masonry veneer; Roof Structure: 1: Cold formed trusses, metal deck, polyiso insulation, metal roofing; 2: Metal joists, metal deck, polyiso insulation, PVC roof membrane

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

0 Energy Consumption "Existing" (kBtu/sf/yr); 22 Energy Consumption Target (kBtu/sf/yr)

- YES NO checkboxes for LEED Certified, Designed to meet Energy Star, Exceeds ASHRAE 90.1(2007) by 10% (Minimum), Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design

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

- DESIGNED TO BE NET-ZERO checkboxes for Net-Zero and 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): 32,106; Avg. Exterior Wall R-Value: 19; Gross Window / Door Area (sf): 4,772 SF; Avg. Window/Door R-Value: 3.5; Gross Roof Area (sf): 72,075 SF; Avg. Roof R-Value: 25; Exterior Wall Type: B - face brick, captured air space, sprayed insulation on CMU; Roofing Type: D - metal roofing over nailable deck with insulation; HVAC System Type: C - ground source heat pump system with air make up; Classroom Lighting: E - other; Active Daylighting: F - none; Passive Daylighting: G - none; On Site Energy Generation: G - none

Air Purification Systems : YES NO
 Gray Water System : YES NO
 Low Water Use Fixtures : YES NO
 Other: _____

PLUMBING:

Type of Sewage Disposal: Force main connected to municipal force main

HEATING, VENTILATION AND AIR CONDITIONING:

Heating Only: _____ Heating & Mechanical: _____ HVAC: X A/C Only: _____
 Ventilation Only

Fuel Source/Backup (if applicable): N/A

ELECTRICAL:

Source of Electric Power: <u>KU</u>	Lighting Intensity (fc.):
Voltage Serving Facility: <u>480</u>	Std. Classrooms <u>50</u>
Number of Convenience Outlets:	Library/Media Ctr <u>75</u>
Classrooms <u>8</u>	Science Lab <u>N/A</u>
Library/Media Center <u>12</u>	Science Clrm <u>N/A</u>
Business Ed <u>N/A</u>	Band/Music <u>50</u>
Family & Consumer Science <u>N/A</u>	Business Ed <u>N/A</u>
Camera System: <u>Yes</u>	Shops <u>N/A</u>
	Corridors <u>30</u>
	Stairways <u>30</u>
	Cafeteria <u>50</u>
	Pre-School Clrm <u>75</u>
	Art Classroom <u>100</u>
	Gymnasium <u>50</u>

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

Teacher Cabinet	<u>Yes</u>	Custodial Room Shelves	<u>n/a</u>
Student Lockers	<u>n/a</u>	Science Laboratories	<u>n/a</u>
Folding Bleachers	<u>Yes</u>	Family & Consumer Sci	<u>n/a</u>
Library Furnishings	<u>Yes (mobile)</u>	Other	<u>n/a</u>
Dry Food Shelves	<u>Yes</u>	Other	<u>n/a</u>

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	LVT or Carpet	NA	Paint	ACT
Corridors	Terrazzo/LVT	Paint	Paint	ACT & Painted Gyp, Acous. Baf
Custodial	Sealed Concrete	NA	Paint	Exposed, No Paint
Kitchen	Quarry Tile	NA	Paint	Scrubable ACT
Cafeteria	LVT (Alt: Terrazzo)	Paint	Paint	ACT & Painted Gyp
Gym	Wood	Paint	Paint	Exposed
Showers/Locker	NA			
Toilets	Porcelain Tile	Porcelain Tile	Paint	ACT
Library/Media Cntr	LVT/Carpet	NA	Paint	ACT and Baffles
Classrooms	VCT	NA	Paint	ACT
Music	VCT	NA	Paint	ACT, Acoustical Panels at wall
Art	VCT	NA	Paint	ACT
Science	NA			
FMD	VCT	NA	Paint	ACT
OTHER AREAS				
STEAM	LVT	Paint	Paint	ACT and Baffles

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect: Beth Bauer Signature Date: 12/4/2023

Kentucky Registered Engineer: Ann D. Hunt Signature Date: 12/4/2023

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

For Reference