

District Name: Marion County District Code: _____ Facility Name: Marion County High School School Code: _____

Project Name: Marion County High School Renovation and Addition

PROJECT TYPE: Yes No Gross Building Area (sf.)

New Building ☐ ☒ _____

Addition ☒ ☐ 6500

Renovation ☒ ☐ 111,400

Provisions for Future Expansion: _____

Proposed Alternates: (1) Geothermal system

(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 slab on grade with stem walls on concrete footers.

Exterior Walls: Load bearing CMU w/ spray insulation and brick veneer.

Roof Structure: Steel beams with metal deck.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

35 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: Microsoft Excel

If not yes to one or more of the above, explain why. Owner has no interest in obtaining LEED certification

☐ ☒ 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): 3171 Avg. Exterior Wall R-Value: _____

Gross Window / Door Area (sf): 607 Avg. Window/Door R-Value: _____

Gross Roof Area (sf): 72,677 Avg. Roof R-Value: _____

Exterior Wall Type: B - face brick, captured air space, sprayed insulation on CMU Other: _____

Roofing Type: A - modified bitumen over rigid insulation Other: _____

HVAC System Type: B - water source heat pump system with air make up Other: _____

Classroom Lighting: E - other Other: LED

Active Daylighting: B - occupancy light control sensors Other: _____

Passive Daylighting: _____ Other: _____

On Site Energy Generation: G - none Other: _____

Air Purification Systems : YES ☐ NO ☒Gray Water System : YES ☐ NO ☒Low Water Use Fixtures : YES ☒ NO ☐

Other: _____

PLUMBING:Type of Sewage Disposal: Municipal System**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: _____ Heating & Mechanical: _____ HVAC: x A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL:Source of Electric Power: Inter Co EnergyVoltage Serving Facility: 480V

Number of Convenience Outlets:

Classrooms 19 (typ. Classroom)Library/Media Center 20Business Ed 19Family & Consumer Science 20

Camera System: _____

Lighting Intensity (fc.):

Std. Classrooms 50Library/Media Ctr 75Science Lab 50Science Clrm 50Band/Music 50Business Ed 50Shops 50Corridors 30Stairways 30Cafeteria 50Pre-School Clrm N/AArt Classroom 100Gymnasium 50**SPECIAL EQUIPMENT:**

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	_____	_____	Yes
Clock	_____	_____	Yes
Fire Alarm	_____	_____	Yes
Intercom	_____	_____	Yes
Telephone	_____	_____	Yes
Television	_____	_____	Yes
Computer	_____	_____	Yes
Wireless Network	_____	_____	Yes
Interactive White bd	_____	_____	No
Voice Amplification	_____	_____	Yes

FIXED EQUIPMENT:


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

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	Carpet		Painted Gypsum	ACT
Corridors	VCT		Painted CMU	ACT
Custodial	Sealed Concrete		Painted CMU	ACT
Kitchen	N/A		N/A	N/A
Cafeteria	VCT		Painted CMU	ACT
Gym	N/A		N/A	N/A
Showers/Locker	N/A		N/A	N/A
Toilets	Ceramic Tile		Painted CMU	Painted Gypsum
Library/Media Cntr	LVT and Cpt Tile		Painted CMU	ACT
Classrooms	VCT		Painted CMU	ACT
Music	N/A		N/A	N/A
Art	VCT		Painted CMU	ACT
Science	Rubber Tile		Painted CMU	ACT
FMD	VCT		Painted CMU	ACT
OTHER AREAS				

Miscellaneous Project Specific Features:

Kentucky Registered Architect:


 Signature

Date: 6/2/21

Kentucky Registered Engineer:


 Signature

Date: 6/2/21

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