District Name: Marion County | District Code: 375 | Facility Name: Marion County Middle School | School Code:

Project Name: Marion County Middle School - Addition & Renovation

PROJECT TYPE:

	Yes	No	Gross Building Area (sf.)
New Building	☐	☐	
Addition	☑	☐	5700 sf
Renovation	☐	☐	

Provisions for Future Expansion: Relocation of some utilities and expansion of geothermal capacity for future additions.

Proposed Alternates:
(1) Owner prefferred HVAC controls
(2) Owner prefferred door hardware.
(3)

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Concrete spread footings

Exterior Walls: CMU structure with expanding spray foam insulation and brick

Roof Structure: Steel joists with corrugated metal deck.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

44.4 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 ☑O

Gross Exterior Wall Area (sf): 4,341 | Avg. Exterior Wall R-Value: 20

Gross Window / Door Area (sf): 268 | Avg. Window/Door R-Value: 2

Gross Roof Area (sf): 2,523 | Avg. Roof R-Value: 28.5

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:	C - ground source heat pump system with air make up	Other:	
Classroom Lighting:	E - other	Other:	LED
Active Daylighting:	F - none	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

HEATING, VENTILATION AND AIR CONDITIONING:

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

Fuel Source/Backup (if applicable): Geothermal

ELECTRICAL:

Source of Electric Power: Utility

Voltage Serving Facility: 208/120/3ph and 480/277/3ph

Number of Convenience Outlets:

Classrooms	8
Library/Media Center	NA
Business Ed	NA
Family & Consumer Science	NA

Camera System: NA

Lighting Intensity (fc.):

Std. Classrooms	50
Library/Media Ctr	NA
Science Lab	NA
Science Clrm	50
Band/Music	NA
Business Ed	NA
Shops	NA
Corridors	20
Stairways	20
Cafeteria	NA
Pre-School Clrm	NA
Art Classroom	NA
Gymnasium	NA

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

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

INTERIOR FINISH SCHEDULE:

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

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect: _____ Date:_____
Signature

Kentucky Registered Engineer: _____ Date:_____
Signature

Board Designee or Superintendent: _____ Date:_____
Signature

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 place
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