

District Name: Mercer County District Code: 421 Facility Name: King Middle School School Code: _____

Project Name: King Middle School Restroom Renovations

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☐ ☒ _____
Addition ☐ ☒ _____
Renovation ☒ ☐ Restrooms: 1624 sf combined
Provisions for Future Expansion: none

Proposed Alternates: (1) Provide FRP in lieu of base bid Porcelain Tile
(2) Porcelain Tile on sink and hand dryer walls
(3) Provide FRP on all restroom walls
(4) Provide Porcelain Tile on all restroom walls
(5) Provide Porcelain Tile on all restroom floors in lieu of Flake Epoxy

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: n/a

Exterior Walls: n/a

Roof Structure: n/a

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. Plumbing and finishes renovation only

☐ ☒ 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): n/a Avg. Exterior Wall R-Value: _____

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

Gross Roof Area (sf): n/a Avg. Roof R-Value: _____

Exterior Wall Type: _____ Other: _____

Roofing Type: _____ Other: _____

HVAC System Type: E - variable refrigerant flow (VRF) with air make up Other: _____

Classroom Lighting: E - other Other: LED

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:Type of Sewage Disposal: Gravity**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: _____ Heating & Mechanical: _____ HVAC: X A/C Only: _____
Ventilation OnlyFuel Source/Backup (if applicable): N/A**ELECTRICAL:**

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

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

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

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	N/A	N/A	N/A	N/A
Corridors	N/A	N/A	N/A	N/A
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	Flake Epoxy	N/A	Paint/Porcelain Tile	Acoustical Ceiling Tiles
Library/Media Cntr	N/A	N/A	N/A	N/A
Classrooms	N/A	N/A	N/A	N/A
Music	N/A	N/A	N/A	N/A
Art	N/A	N/A	N/A	N/A
Science	N/A	N/A	N/A	N/A
FMD	N/A	N/A	N/A	N/A

OTHER AREAS

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect:

Beth Bauer
Signature

Date: 1/10/2023

Kentucky Registered Engineer:

Ann C. Hunt
Signature

Date: 1-10-23

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 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

For Reference