

District Name: Pikeville Independent District Code: 492 Facility Name: Blue Goose Gymnasium School Code: 30

Project Name: Blue Goose Gymnasium HVAC Renovations

<b>PROJECT TYPE:</b>	Yes	No	Gross Building Area (sf.)
New Building	<input type="checkbox"/>	<input type="checkbox"/>	_____
Addition	<input type="checkbox"/>	<input type="checkbox"/>	_____
Renovation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>7,000</u>

Provisions for Future Expansion: N/A

Proposed Alternates: (1) \_\_\_\_\_  
(2) \_\_\_\_\_  
(3) \_\_\_\_\_

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.  
Project is limited to HVAC installation in Gymnasium and secondary spaces.

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: Existing - concrete footings

Exterior Walls: Existing - pre-engineered metal building wall panels, vinyl-faced batt insulation

Roof Structure: Existing - pre-engineered metal building framing

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

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

18.08 Energy Consumption Target (kBtu/sf/yr)

YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	LEED Certified Other: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designed to meet Energy Star
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exceeds ASHRAE 90.1(2007) by 10% (Minimum)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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. HVAC project is limited to Gym, other systems not included in 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: 7.5 (est.)

Gross Window / Door Area (sf): \_\_\_\_\_ Avg. Window/Door R-Value: \_\_\_\_\_

Gross Roof Area (sf): 7,000 Avg. Roof R-Value: 13 (est.)

Exterior Wall Type: E - other, describe Other: See above

Roofing Type: \_\_\_\_\_ F - other, describe Other: See above

HVAC System Type: L - GYM; VRF cooling and heating, AHU capable of 20% outdoor air. SECONDARY; DX split systems. Other: \_\_\_\_\_

Classroom Lighting: \_\_\_\_\_ Other: N/A

Active Daylighting: \_\_\_\_\_ Other: N/A

Passive Daylighting: \_\_\_\_\_ Other: N/A

On Site Energy Generation: \_\_\_\_\_ Other: N/A

Air Purification Systems : YES  NO

Gray Water System : YES  NO

Low Water Use Fixtures : YES  NO

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

**PLUMBING:**

Type of Sewage Disposal: N/A

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable): Electric

**ELECTRICAL:**

Source of Electric Power: _____	Utility	Lighting Intensity (fc.):	
Voltage Serving Facility: <u>240/120V/1-phase/3-wire</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	_____
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	N/A	N/A	N/A	N/A
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: \_\_\_\_\_ 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 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