

District Name: Spencer County District Code: 541 Facility Name: New Spencer Co. Elementary School Code: \_\_\_\_\_

Project Name: New Spencer County Elementary School

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

New Building ☒ ☐ 73,337

Addition ☐ ☐ \_\_\_\_\_

Renovation ☐ ☐ \_\_\_\_\_

Provisions for Future Expansion: (4) future primary classrooms

Proposed Alternates: (1) Deduct Alt. - Floor Finishes: VCT in lieu of stained polished concrete  
(2) Owner-Preferred HVAC Controls Manufacturer  
(3) \_\_\_\_\_

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

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: Continuous load-bearing concrete strip footings

Exterior Walls: Load-bearing ICF with masonry and metal panel veneers

Roof Structure: Metal deck on steel bar joists

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

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

25 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 ☒ NO

Gross Exterior Wall Area (sf): \_\_\_\_\_ Avg. Exterior Wall R-Value: 24

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

Gross Roof Area (sf): 55,057 Avg. Roof R-Value: 42

Exterior Wall Type: D - face brick, ICF poured concrete, interior finish system Other: \_\_\_\_\_

Roofing Type: C - plastic single ply 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: B - occupancy light control sensors Other: w/ manual dimming

Passive Daylighting: G - none Other: \_\_\_\_\_

On Site Energy Generation: G - none Other: \_\_\_\_\_

Air Purification Systems : ☒ YES ☐ NOGray Water System : ☐ YES ☒ NOLow Water Use Fixtures : ☒ YES ☐ NO

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

**PLUMBING:**Type of Sewage Disposal: Municipal**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: Salt River ElectricVoltage Serving Facility: 277/480V 3-Phase

Number of Convenience Outlets:

Classrooms 6 (minimum)Library/Media Center 16 (minimum)Business Ed n/aFamily & Consumer Science n/aCamera System: Yes

Lighting Intensity (fc.):

Std. Classrooms 50Library/Media Ctr 75Science Lab n/aScience Clrm n/aBand/Music 50Business Ed n/aShops n/aCorridors 25Stairways 25Cafeteria 50Pre-School Clrm 75Art Classroom 100Gymnasium 5**SPECIAL EQUIPMENT:**

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


**FIXED EQUIPMENT:**

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

**INTERIOR FINISH SCHEDULE:**

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	Carpet	None	Drywall (Paint)	Acoust. Ceiling
Corridors	Stained/Pol. Conc.	None	Drywall (Paint)	Acoust. Ceiling
Custodial	Sealed Conc.	None	CMU (Paint)	Exposed Struct. (Paint)
Kitchen	Quarry Tile	None	Drywall (Epoxy Paint)	Acoust. Ceiling
Cafeteria	Vinyl Tile	None	Drywall (Paint)	Exposed Struct. (Paint)
Gym	Wood	None	Drywall/CMU (Paint)	Exposed Struct. (Paint)
Showers/Locker	Ceramic Tile	Ceramic Tile	Ceramic Tile	Acoust. Ceiling
Toilets	Ceramic Tile	Ceramic Tile	Ceramic Tile	Acoust. Ceiling
Library/Media Cntr	Carpet Tile	None	Drywall (Paint)	Ceiling
Classrooms	Stained/Pol. Conc.	None	Drywall (Paint)	Acoust. Ceiling
Music	Stained/Pol. Conc.	None	Drywall/CMU (Paint)	Acoust. Ceiling
Art	Stained/Pol. Conc.	None	Drywall (Paint)	Acoust. Ceiling
Science				
FMD	Stained/Pol. Conc.	None	Drywall (Paint)	Acoust. Ceiling
OTHER AREAS				

Miscellaneous Project Specific Features: \_\_\_\_\_

Kentucky Registered Architect:	_____	Date: _____
	Signature	
Kentucky Registered Engineer:	 _____	Date: <u>12/17/15</u>
	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

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For Reference