

|                                                                                                                                                                                                                                                                               |                                     |                                                                             |                           |                |                              |              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------|---------------------------|----------------|------------------------------|--------------|--|
| District Name:                                                                                                                                                                                                                                                                | Todd County School District         | District Code:                                                              | 551                       | Facility Name: | South Todd Elementary School | School Code: |  |
| Project Name: South Todd Elementary School Upgrades                                                                                                                                                                                                                           |                                     |                                                                             |                           |                |                              |              |  |
| PROJECT TYPE:                                                                                                                                                                                                                                                                 | Yes                                 | No                                                                          | Gross Building Area (sf.) |                |                              |              |  |
| New Building                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/>                                         |                           |                |                              |              |  |
| Addition                                                                                                                                                                                                                                                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/>                                         |                           |                |                              |              |  |
| Renovation                                                                                                                                                                                                                                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>                                                    | 64,939                    |                |                              |              |  |
| Provisions for Future Expansion:                                                                                                                                                                                                                                              |                                     |                                                                             |                           |                |                              |              |  |
| Proposed Alternates:                                                                                                                                                                                                                                                          | (1)                                 |                                                                             |                           |                |                              |              |  |
|                                                                                                                                                                                                                                                                               | (2)                                 |                                                                             |                           |                |                              |              |  |
|                                                                                                                                                                                                                                                                               | (3)                                 |                                                                             |                           |                |                              |              |  |
| Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.                                                                                                                                                                       |                                     |                                                                             |                           |                |                              |              |  |
| <b>BUILDING CONSTRUCTION CHARACTERISTICS:</b>                                                                                                                                                                                                                                 |                                     |                                                                             |                           |                |                              |              |  |
| Description of Building Structure:                                                                                                                                                                                                                                            |                                     |                                                                             |                           |                |                              |              |  |
| Foundation: Slab on Grade - Concrete                                                                                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| Exterior Walls: Block / Brick Veneer                                                                                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| Roof Structure: Steel Structure with Insulated Metal Roof                                                                                                                                                                                                                     |                                     |                                                                             |                           |                |                              |              |  |
| <b>ENERGY EFFICIENT DESIGN (KRS 197.450 and KRS 197.455):</b>                                                                                                                                                                                                                 |                                     |                                                                             |                           |                |                              |              |  |
| 28 Energy Consumption "Existing" (kBtu/sf/yr)                                                                                                                                                                                                                                 |                                     |                                                                             |                           |                |                              |              |  |
| 28 Energy Consumption Target (kBtu/sf/yr)                                                                                                                                                                                                                                     |                                     |                                                                             |                           |                |                              |              |  |
| YES                                                                                                                                                                                                                                                                           | NO                                  |                                                                             |                           |                |                              |              |  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | LEED Certified                                                              | Other:                    |                |                              |              |  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                           | <input 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. The LEED Certification nor the Life Cycle Cost Analysis have been deemed as worthwhile additional expenses for this project, despite the building benefiting from many sustainable and energy efficient design features. |                                     |                                                                             |                           |                |                              |              |  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | Designed to be Net-Zero                                                     |                           |                |                              |              |  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | Designed to be Net-Zero Ready                                               |                           |                |                              |              |  |
| Energy Efficient Design Features: (See List Page 4, or Use Drop Down List)                                                                                                                                                                                                    |                                     |                                                                             |                           |                |                              |              |  |
| East / West Building Orientation <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| Gross Exterior Wall Area (sf): 26,507 SF Avg. Exterior Wall R-Value:                                                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| Gross Window / Door Area (sf): 1,971 SF Avg. Window/Door R-Value:                                                                                                                                                                                                             |                                     |                                                                             |                           |                |                              |              |  |
| Gross Roof Area (sf): 70,423 SF Avg. Roof R-Value:                                                                                                                                                                                                                            |                                     |                                                                             |                           |                |                              |              |  |
| Exterior Wall Type: A - face brick, captured air space, board insulation and waterproof CMU Other:                                                                                                                                                                            |                                     |                                                                             |                           |                |                              |              |  |
| Roofing Type: B - EPDM over rigid insulation Other:                                                                                                                                                                                                                           |                                     |                                                                             |                           |                |                              |              |  |
| HVAC System Type: E - variable refrigerant flow (VRF) with air make up Other:                                                                                                                                                                                                 |                                     |                                                                             |                           |                |                              |              |  |
| Classroom Lighting: E - other Other:                                                                                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| Active Daylighting: F - none Other:                                                                                                                                                                                                                                           |                                     |                                                                             |                           |                |                              |              |  |
| Passive Daylighting: G - none Other:                                                                                                                                                                                                                                          |                                     |                                                                             |                           |                |                              |              |  |
| On Site Energy Generation: Other:                                                                                                                                                                                                                                             |                                     |                                                                             |                           |                |                              |              |  |

## 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 noninsulated deck with insulation
- E - asphalt shingle roofing over noninsulated 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 - T5 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

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: \_\_\_\_\_ HVAC: X A/C Only: \_\_\_\_\_  
Ventilation Only

Fuel Source/Backup (if applicable): \_\_\_\_\_  
\_\_\_\_\_

**ELECTRICAL:**

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

**SPECIAL EQUIPMENT:**

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

**FIXED EQUIPMENT:**

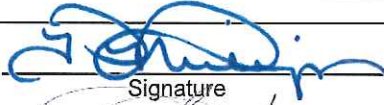
|                     |                |                        |                |
|---------------------|----------------|------------------------|----------------|
| Teacher Cabinet     | Existing _____ | Custodial Room Shelves | Existing _____ |
| Student Lockers     | Existing _____ | Science Laboratories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

**INTERIOR FINISH SCHEDULE:**

| AREA               | FLOOR    | WAINSCOT | WALLS | CEILING |
|--------------------|----------|----------|-------|---------|
| General Office     | VCT      |          | GWB   | ACT     |
| Corridors          | VCT      |          | CMU   | ACT     |
| Custodial          | VCT      |          | CMU   | ACT     |
| Kitchen            | Ceramic  |          | CMU   | ACT     |
| Cafeteria          | VCT      |          | CMU   | ACT     |
| Gym                | Hardwood |          | CMU   | ACT     |
| Showers/Locker     | Ceramic  |          | CMU   | ACT     |
| Toilets            | Ceramic  |          | CMU   | ACT     |
| Library/Media Cntr | Carpet   |          | CMU   | ACT     |
| Classrooms         | VCT      |          | CMU   | ACT     |
| Music              | VCT      |          | CMU   | ACT     |
| Art                | VCT      |          | CMU   | ACT     |
| Science            | VCT      |          | CMU   | ACT     |
| FMD                | VCT      |          | CMU   | ACT     |
| OTHER AREAS        |          |          |       |         |
|                    |          |          |       |         |
|                    |          |          |       |         |

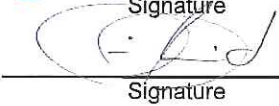
Miscellaneous Project Specific Features:

Kentucky Registered Architect:

  
Signature

Date: 01/06/2021

Kentucky Registered Engineer:

  
Signature

Date: 1-6-21

Board Designee or Superintendent:

Signature

Date: