

District Name: Hopkins County PS District Code: 265 Facility Name: Grapevine ES School Code: \_\_\_\_\_

Project Name: \_\_\_\_\_

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

New Building ☐ ☒ \_\_\_\_\_

Addition ☐ ☒ \_\_\_\_\_

Renovation ☒ ☐ Tower Replacement

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.

**BUILDING CONSTRUCTION CHARACTERISTICS:**

Description of Building Structure:

Foundation: Existing Slab on Grade

Exterior Walls: Block / Brick veneer

Roof Structure: Steel / Metal roof

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

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

32 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: \_\_\_\_\_

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

Gross Roof Area (sf): \_\_\_\_\_ Avg. Roof R-Value: \_\_\_\_\_

Exterior Wall Type: \_\_\_\_\_ Other: \_\_\_\_\_

Roofing Type: \_\_\_\_\_ Other: \_\_\_\_\_

HVAC System Type: \_\_\_\_\_ Other: \_\_\_\_\_

Classroom Lighting: \_\_\_\_\_ Other: \_\_\_\_\_

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: Municipal Utilities**HEATING, VENTILATION AND AIR CONDITIONING:**Heating Only: \_\_\_\_\_ Heating & Mechanical: \_\_\_\_\_ HVAC: X A/C Only: \_\_\_\_\_  
Ventilation OnlyFuel Source/Backup (if applicable): Electrical**ELECTRICAL:**Source of Electric Power: TVAVoltage Serving Facility: 480 / 3 Phase

Number of Convenience Outlets:

Classrooms \_\_\_\_\_

Library/Media Center \_\_\_\_\_

Business Ed \_\_\_\_\_

Family &amp; Consumer Science \_\_\_\_\_

Camera System: \_\_\_\_\_

Lighting Intensity (fc.):

Std. Classrooms \_\_\_\_\_

Library/Media Ctr \_\_\_\_\_

Science Lab \_\_\_\_\_

Science Clrm \_\_\_\_\_

Band/Music \_\_\_\_\_

Business Ed \_\_\_\_\_

Shops \_\_\_\_\_

Corridors \_\_\_\_\_

Stairways \_\_\_\_\_

Cafeteria \_\_\_\_\_

Pre-School Clrm \_\_\_\_\_

Art Classroom \_\_\_\_\_

Gymnasium \_\_\_\_\_

**SPECIAL EQUIPMENT:**

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

**FIXED EQUIPMENT:**

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

**INTERIOR FINISH SCHEDULE:**

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

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

Kentucky Registered Architect: \_\_\_\_\_

Signature

Date: \_\_\_\_\_

Kentucky Registered Engineer: \_\_\_\_\_

Nami Nahid, PE

Signature

2/21/2020

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

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For Reference

