

Item No. 1

Design Development – BG-2

- 1. Board Action Requested: Approval of the BG-2**
- 2. Board Designee or Superintendent sign Page No. 3**

District Name: Kenton County Schools District Code: 134 Facility Name: Latonia Elementary School Code: 115

Project Name: Latonia Elementary Stairwell Security Upgrade

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

New Building ☐ ☐ _____

Addition ☐ ☐ _____

Renovation ☒ ☐ 835

Provisions for Future Expansion: None

Proposed Alternates:

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

1. Areas of new construction can proceed while school is in session.

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Existing

Exterior Walls: Existing

Roof Structure: Existing

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. _____

☐ ☐ 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: N/A

Roofing Type: _____ Other: N/A

HVAC System Type: _____ Other: N/A

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

Source of Electric Power:	<u>N/A</u>	Lighting Intensity (fc.):	
		Std. Classrooms	<u>N/A</u>
Voltage Serving Facility:	<u>N/A</u>	Library/Media Ctr	<u>N/A</u>
		Science Lab	<u>N/A</u>
Number of Convenience Outlets:		Science Clrm	<u>N/A</u>
Classrooms	<u>N/A</u>	Band/Music	<u>N/A</u>
Library/Media Center	<u>N/A</u>	Business Ed	<u>N/A</u>
Business Ed	<u>N/A</u>	Shops	<u>N/A</u>
Family & Consumer Science	<u>N/A</u>	Corridors	<u>N/A</u>
		Stairways	<u>N/A</u>
Camera System:	<u>Match existing</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>	<u>N/A</u>	<u>N/A</u>
Clock	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Fire Alarm	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Intercom	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Telephone	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Television	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Computer	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Wireless Network	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Interactive White bd	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Voice Amplification	<u>N/A</u>	<u>N/A</u>	<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> </u>
Dry Food Shelves	<u>N/A</u>	Other	<u> </u>

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:  Ralph Cooper 2021.09.23

Kentucky Registered Engineer:  Jeff Millard Date: 2021.09.23

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

For Reference