

District Name: CHRISTIAN COUNTY District Code: 115 Facility Name: Consolidated High School School Code: _____

Project Name: New Consolidated High School

PROJECT TYPE:	Yes	No	Gross Building Area (sf.)
New Building	☒	☐	<u>331,505</u>
Addition	☐	☒	<u>NA</u>
Renovation	☐	☒	<u>NA</u>

Provisions for Future Expansion: Yes, space allowed on north side of building as indicated on site plan

Proposed Alternates: (1) Gymnasium
(2) Cafeteria Clerestory
(3) Property Line Entrances

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Spread footings

Exterior Walls: CMU Block / Spray Foam Insulation / Air Space / Brick or Metal Panel

Roof Structure: Sloped Open Web Steel Joists / Metal Decking/ Rigid Insulation / TPO Membrane

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

50 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. LEED is impractical and costly for this project and owner does not want to engage additional consultant service.

☐	☒	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): 458,480 Avg. Exterior Wall R-Value: R-16

Gross Window / Door Area (sf): 35,049 Avg. Window/Door R-Value: R-2.2

Gross Roof Area (sf): 233,020 Avg. Roof R-Value: R-30

Exterior Wall Type: A - face brick, captured air space, spray foam insulation and waterproof CMU Other: _____

Roofing Type: A - TPO over rigid insulation Other: _____

HVAC System Type: L - other Other: RTU, VOAS, VRF Units

Classroom Lighting: E - other Other: LED

Active Daylighting: B - occupancy light control sensors Other: _____

Passive Daylighting: G - none Other: _____

On Site Energy Generation: G - none Other: _____

Air Purification Systems : YES ☒ NO ☐

Gray Water System : YES ☐ NO ☒

Low Water Use Fixtures : YES ☐ NO ☒

Other: na

PLUMBING:

Type of Sewage Disposal: Municipal

HEATING, VENTILATION AND AIR CONDITIONING:

Heating Only: _____ Heating & Mechanical: _____ HVAC: Yes A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): na

ELECTRICAL:

Source of Electric Power: Pennyrile Electric

Voltage Serving Facility: 480Y / 277V / 3 Phase

Number of Convenience Outlets:

Classrooms	<u>13</u>
Library/Media Center	<u>15</u>
Business Ed	<u>30</u>
Family & Consumer Scienc	<u>30</u>

Camera System: yes

Lighting Intensity (fc.):

Std. Classrooms	<u>50</u>
Library/Media Ctr	<u>75</u>
Science Lab	<u>50</u>
Science Clrm	<u>50</u>
Band/Music	<u>75</u>
Business Ed	<u>50</u>
Shops	<u>50</u>
Corridors	<u>20</u>
Stairways	<u>20</u>
Cafeteria	<u>50</u>
Pre-School Clrm	<u>75</u>
Art Classroom	<u>100</u>
Gymnasium	<u>50</u>

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell	_____	_____	<u>Yes</u>
Clock	_____	_____	<u>Yes</u>
Fire Alarm	_____	_____	<u>Yes</u>
Intercom	_____	_____	<u>Yes</u>
Telephone	_____	<u>Yes</u>	_____
Television	_____	<u>Yes</u>	_____
Computer	_____	<u>Yes</u>	_____
Wireless Network	_____	<u>Yes</u>	_____
Interactive White bd	_____	<u>Yes</u>	_____
Voice Amplification	_____	<u>Yes</u>	_____

FIXED EQUIPMENT:

Teacher Cabinet	<u>Casework in Teacher's Common Office</u>	Custodial Room Shelves	<u>Yes</u>
Student Lockers	<u>No - school requested no lockers</u>	Science Laboratories	<u>Yes</u>
Folding Bleachers	<u>Yes, Motorized</u>	Family & Consumer Sci	<u>Yes</u>
Library Furnishings	<u>Yes</u>	Other	_____
Dry Food Shelves	<u>Yes, Mobile</u>	Other	_____

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	carpet	na	latex paint	2x2 acoustical ceiling tile
Corridors	sealed concrete	na	latex paint	2x2 acoustical ceiling tile
Custodial	sealed concrete	na	epoxy paint	2x2 acoustical ceiling tile
Kitchen	quarry tile	na	epoxy paint	2x2 acoustical ceiling tile
Cafeteria	sealed concrete	tile	epoxy paint	2x2 acoustical ceiling tile
Gym	wood	na	latex paint	exposed structure
Showers/Locker	tile	na	tile	gyp board
Toilets	tile	na	tile / epoxy paint	2x2 acoustical ceiling tile
Library/Media Cntr	carpet	na	latex paint	acoustical wood ceiling
Classrooms	carpet	na	latex paint	2x2 acoustical ceiling tile
Music	carpet	na	latex paint	2x2 acoustical ceiling tile
Art	resilient tile	na	latex paint	2x2 acoustical ceiling tile
Science	resilient tile	na	latex paint	2x2 acoustical ceiling tile
FMD	resilient tile	na	latex paint	2x2 acoustical ceiling tile

OTHER AREAS

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect:


Signature

Date: 8/11/23

Kentucky Registered Engineer:

Jess T. Park
Signature

Date: 08/11/23

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 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

For Reference