

District Name: Henderson County District Code: 251 Facility Name: Hend. Co High School School Code: 60

Project Name: Henderson County High School Soccer Locker Building

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

New Building _____

Addition _____

Renovation _____

Provisions for Future Expansion Yes

Proposed Alternates: (1) Owner preferred Trane and Mitsubishi HVAC Equipment.
 (2) Bradley Model LVQD1 wash basin in lieu of lavatory, automated faucet, and hand dryer.
 (3) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Continous Spread Footings

Exterior Walls: Masonry cmu load bearing w/Brick Veneer

Roof Structure: Wood Trusses w/wood deck

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

35 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. District does not desire LEED and chose air cooled heat pumps to avoid installing natural gas infrastructure.

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): 16 oz Avg. Exterior Wall R-Value: R - 11

Gross Window / Door Area (sf): 224 Avg. Window/Door R-Value: R - 4

Gross Roof Area (sf) 2468 Avg. Roof R-Value: R - 38

Exterior Wall Type: B Other: _____

Roofing Type: F - Metal Roof over wood deck Other: _____

HVAC System Type Other: AC Heat Pump L - Other.

Classroom Lighting: Other: LED Lighting E - Other.

Active Daylighting: _____ Other: _____
 Passive Daylighting: _____ Other: _____
 On Site Energy Generation: _____ 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 VC Only: _____
 Ventilation Only

Fuel Source/Backup (if applicable): All electric.

ELECTRICAL:

Source of Electric Power:	<u>Henderson Municipal Power and Ligh</u>	Lighting Intensity (fc.):	
		Std. Classrooms	<u>NA</u>
Voltage Serving Facility:	<u>120/208v 3-phase 4-wire</u>	Library/Media Ct	<u>NA</u>
		Science Lab	<u>NA</u>
Number of Convenience Outlets:		Science Clrm	<u>NA</u>
Classrooms	<u>NA</u>	Band/Music	<u>NA</u>
Library/Media Center	<u>NA</u>	Business Ed	<u>NA</u>
Business Ed	<u>NA</u>	Shops	<u>NA</u>
Family & Consumer Science	<u>NA</u>	Corridors	<u>NA</u>
Camera System:	<u>By Owner</u>	Stairways	<u>NA</u>
		Cafeteria	<u>NA</u>
		Pre-School Clrm	<u>NA</u>
		Art Classroom	<u>NA</u>
		Gymnasium	<u>NA</u>

SPECIAL EQUIPMENT:

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

FIXED EQUIPMENT:

Teacher Cabinet	<u>NA</u>	Custodial Room Shelves	<u>NA</u>
Student Lockers	<u>X</u>	Science Laboratories	<u>NA</u>
Folding Bleachers	<u>NA</u>	Family & Consumer Sci	_____

Library Furnishings	<u>NA</u>	Other	_____
Dry Food Shelves	<u>NA</u>	Other	_____

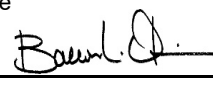
INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	<u>Concrete</u>	_____	<u>epoxy</u>	<u>painted gypboard</u>
Corridors	_____	_____	_____	_____
Custodial	_____	_____	_____	_____
Kitchen	_____	_____	_____	_____
Cafeteria	_____	_____	_____	_____
Gym	_____	_____	_____	_____
Showers/Locker	_____	_____	_____	_____
Toilets	<u>Concrete</u>	_____	<u>epoxy</u>	<u>painted gypboard</u>
Library/Media Cntr	_____	_____	_____	_____
Classrooms	_____	_____	_____	_____
Music	_____	_____	_____	_____
Art	_____	_____	_____	_____
Science	_____	_____	_____	_____
FMD	_____	_____	_____	_____

OTHER AREAS				
Locker Room	<u>Rubber Tile</u>	_____	<u>epoxy</u>	<u>painted gypboard</u>
	_____	_____	_____	_____
	_____	_____	_____	_____

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect: _____ Date: _____
Signature

Kentucky Registered Engineer: Baccus L. Oliver, PE  Date: 12-10-2021
Signature

Board Designee or Superintendent: _____ Date: _____
Signature

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
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