District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Board of Education | School Code: NA

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 6,700 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

41.3 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: | E - other | Other: | LED |
| 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: Thermostat Replacements

**PLUMBING:**

Type of Sewage Disposal:

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable):

**ELECTRICAL:**

Source of Electric Power: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

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

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Horton Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: 2504 Memorial Pkwy | School Code: NA

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 2,300 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

10.2 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: | E - other | Other: | LED |
| 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:

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable):

**ELECTRICAL:**

Source of Electric Power: Duke Energy

Voltage Serving Facility: 120/208V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

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

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Horton Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Highlands High School | School Code: 010

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 183,454 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

44.2 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: | E - other | Other: | LED |
| 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: Boiler Replacement, Pump Replacements, Controls Upgrades and Retrocommissioning

**PLUMBING:**

Type of Sewage Disposal:

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable):

**ELECTRICAL:**

Source of Electric Power: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

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

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Horton Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Field House | School Code: NA

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 16,038 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

48.0 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: | E - other | Other: | LED |
| 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: Controls Retro-Commissioning

**PLUMBING:**

Type of Sewage Disposal:

**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: Duke Energy

Voltage Serving Facility: 208/120V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

| | |
|---|---|
| Std. Classrooms | NA |
| Library/Media Ctr | NA |
| Science Lab | NA |
| Science Clrm | NA |
| Band/Music | NA |
| Business Ed | NA |
| Shops | NA |
| Corridors | 20 |
| Stairways | 20 |
| Cafeteria | NA |
| Pre-School Clrm | NA |
| Art Classroom | NA |
| Gymnasium | 50 |

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Horton Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Highlands Middle School | School Code: 011

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 98,088 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

43.0 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: | L - other | Other: | 4-Pipe VAV |
| Classroom Lighting: | E - other | Other: | LED |
| 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: HVAC Equipment Replacements, DHW Replacement, Controls Upgrade

**PLUMBING:**

Type of Sewage Disposal:

**HEATING, VENTILATION AND AIR CONDITIONING:**

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

Fuel Source/Backup (if applicable):

**ELECTRICAL:**

Source of Electric Power: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

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

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Jochen Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Johnson Elementary School | School Code: 020

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 64,080 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

40.1 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: Controls Retro-Commissioning

**PLUMBING:**

Type of Sewage Disposal:

**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: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

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 | | | NA |
| Clock | | | NA |
| Fire Alarm | | | NA |
| Intercom | | | NA |
| Telephone | | | NA |
| Television | | | NA |
| Computer | | | NA |
| Wireless Network | | | NA |
| Interactive White bd | | | NA |
| Voice Amplification | | | NA |

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Jackson Date: 2.6.23
Signature

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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Moyer Elementary School | School Code: 030

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 86,221 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

39.6 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: Controls Retro-Commissioning

**PLUMBING:**

Type of Sewage Disposal:

**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: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

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 | | | NA |
| Clock | | | NA |
| Fire Alarm | | | NA |
| Intercom | | | NA |
| Telephone | | | NA |
| Television | | | NA |
| Computer | | | NA |
| Wireless Network | | | NA |
| Interactive White bd | | | NA |
| Voice Amplification | | | NA |

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Horton Date: 2.6.23
Signature

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
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C - remote sensor bi-level lighting with no fixtures dimming
D - manual bi-level lighting with no fixture dimming
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F - none

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A - upper classroom clerestory lighting with sloped ceiling plane
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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

District Name: Ft Thomas Independent | District Code: 176 | Facility Name: Woodfill Elementary School | School Code: 040

Project Name:

**PROJECT TYPE:**

| | Yes | No | Gross Building Area (sf.) |
|---|---|---|---|
| New Building | ☐ | ☐ | |
| Addition | ☐ | ☐ | |
| Renovation | ☑ | ☐ | 59,885 |

Provisions for Future Expansion:

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:

Exterior Walls:

Roof Structure:

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

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

32.1 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: | E - other | Other: | LED |
| 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: Controls Upgrades and Retro-Commissioning

**PLUMBING:**

Type of Sewage Disposal:

**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: Duke Energy

Voltage Serving Facility: 480/277V

Number of Convenience Outlets:

| | |
|---|---|
| Classrooms | NA |
| Library/Media Center | NA |
| Business Ed | NA |
| Family & Consumer Science | NA |

Camera System: NA

Lighting Intensity (fc.):

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

**SPECIAL EQUIPMENT:**

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

**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: _____ Date: _____
Signature

Kentucky Registered Engineer: Pamela Hopkins Date: 2.6.23
Signature

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