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December 6, 2018

VIA EMAIL and HAND DELIVERY

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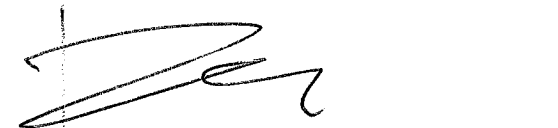
To: Mr. Greg Duty, Superintendent
Southgate Independent Schools

RE: Southgate Public School – Renovations
BG #19-033 / REH #350-1217

Enclosures: 1. Two copies of revised BG-2, dated December 6, 2018.

Action

Required: 1. Obtain Board approval of the revised BG-2.
2. Execute the BG-2 forms.
3. Retain one copy for your file and return the other to our office. Upon receipt, we will upload to KDE for their approval.



Ehmet Hayes

EH:des

District Name: Southgate Independent District Code: 537 Facility Name: Southgate Public School School Code: 010
Project Name: Renovations REH Project #350-1217 Date: 12/6/18

PROJECT TYPE: Yes No Gross Building Area (sf.)
New Building ☐ ☐
Addition ☒ ☐
Renovation ☒ ☐
34,870 (entire building and mobiles)

Provisions for Future Expansion: _____

Proposed Alternates: (1) To be determined
(2) _____
(3) _____

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

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Concrete

Exterior Walls: Load bearing masonry

Roof Structure: Steel deck on steel joists and assumed wood in original building

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

120 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 not in budget and not feasible on this renovation

☐ ☒ 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: VFR and RTU's Other: _____

Classroom Lighting: N/A Other: _____

Active Daylighting: N/A Other: _____

Passive Daylighting: N/A Other: _____

On Site Energy Generation: N/A Other: _____

Project: Southgte Public School - Renovations

REH Project #350-1217

Date: 12/6/18

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: _____ HVAC: x A/C Only: _____
Ventilation Only

Fuel Source/Backup (if applicable): _____

ELECTRICAL:

Source of Electric Power: <u>Utility</u>	Lighting Intensity (fc.):
Voltage Serving Facility: <u>120/208 3 phase</u>	Std. Classrooms <u>N/A</u>
Number of Convenience Outlets:	Library/Media Ctr <u>N/A</u>
Classrooms <u>N/A</u>	Science Lab <u>N/A</u>
Library/Media Center <u>N/A</u>	Science Clrm <u>N/A</u>
Business Ed <u>N/A</u>	Band/Music <u>N/A</u>
Family & Consumer Science <u>N/A</u>	Business Ed <u>N/A</u>
Camera System: <u>N/A</u>	Shops <u>N/A</u>
	Corridors <u>N/A</u>
	Stairways <u>N/A</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>	_____	_____
Clock	<u>N/A</u>	_____	_____
Fire Alarm	<u>N/A</u>	_____	_____
Intercom	<u>N/A</u>	_____	_____
Telephone	<u>N/A</u>	_____	_____
Television	<u>N/A</u>	_____	_____
Computer	<u>N/A</u>	_____	_____
Wireless Network	<u>N/A</u>	_____	_____
Interactive White bd	<u>N/A</u>	_____	_____
Voice Amplification	<u>N/A</u>	_____	_____

FIXED EQUIPMENT:

Teacher Cabinet	_____	Custodial Room Shelves	_____
Student Lockers	<u>xx</u>	Science Laboratories	_____
Folding Bleachers	_____	Family & Consumer Sci	_____
Library Furnishings	_____	Other	_____
Dry Food Shelves	_____	Other	_____

Project: Southgate Public School - Renovations

REH Project #350-1217

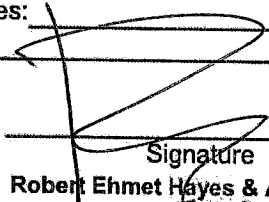
Date: 12/6/18

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office				
Corridors	Carpet	N/A	Drywall & existing plaster	Acoustic & existing tin
Custodial				
Kitchen				
Cafeteria				
Gym				
Showers/Locker				
Toilets				
Library/Media Cntr				
Classrooms				
Music				
Art				
Science				
FMD				
OTHER AREAS				

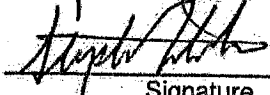
Miscellaneous Project Specific Features:

Kentucky Registered Architect:


Signature
Robert Ehmet Hayes & Associates, PLLC

Date: 12-11-18

Kentucky Registered Engineer:


Signature
KLH Engineers, PSC

Date: 12-11-18

Board Designee or Superintendent:

Signature
Southgate Independent Board of Education

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