BULLITT COUNTY PUBLIC SCHOOLS

DEPARTMENT OF FACILITIES

DANNY CLEMENS, DIRECTOR
TRACY PARSLEY, MAINTENANCE SUPERVISOR
THOMAS STOKES, CUSTODIAL SUPERVISOR
GEORGE BROCK, ENERGY MANAGER

MEMO

TO: Dr. Jesse Bacon, Superintendent

FROM: Danny Clemens, Director of Facilities

Date: May 7, 2024

RE: Phase 2 Athletics- BG-2 & BG-3 DC

Presented for consent is the Phase 2 Athletics BG-2 and BG-3 documents. The BG-2 confirms the materials and systems of the project and the BG-3 defines the probable cost of the project at $89,130,000.00.

I recommend approval of this request.

Attached paperwork is listed below with *action items* noted for each:

- *BG 23-050 - BG-2 - Phase 2 Athletics and Field Houses - Outline_Specifications_Energy_Design_Criteria - Design Development* *(Signature pg 3)*
- *BG 23-050 - BG-3 - Phase 2 Athletics and Field Houses - Statement of Probable Cost - Design Development* (Signature pg 1)

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KENTUCKY DEPARTMENT OF EDUCATION **BG-2**

702 KAR 4:160 **OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA**

				Bullitt Central High School		186
District Name:	Bullitt County	District Code:	71	Facility Name:	North Bullitt High School	School Code:	199
					Bullitt East High School		187

Project Name: Phase 2 Athletics and Field Houses

PROJECT TYPE:	Yes	No	Gross Building Area (sf.)
New Building	☑	☐	50,000 Each Field House = Total 150,000 | 4,350 New Baseball/Softball Blc
Addition	☐	☐	
Renovation	☐	☐	

Provisions for Future Expansion:

Proposed Alternates: (1) Owner preferred Equipment for: Door Hardware, Intercom, Clock and Plumbing Fixtures
(2) Fire Alarm

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.
Elementary school is being renovated to accommodate Bullitt East - school is currently not occupied.

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Cast-in-place, shallow spread footings.

Exterior Walls: The additions will be a combination of load bearing CMU block and steel columns with masonry veneer and metal panel.

Roof Structure: Steel bar joists with metal roof deck and concrete plank elevated floor slabs.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

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

28 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. School district does not wish to pursue LEED.

☐	☑	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):	*23,500 Each Field House*	Avg. Exterior Wall R-Value:	26
Gross Window / Door Area (sf):	*1,850 Each Field House*	Avg. Window/Door R-Value:	3.13
Gross Roof Area (sf):	*40,890 Each Field House*	Avg. Roof R-Value:	25

Exterior Wall Type:	A - face brick, captured air space, board insulation and waterproof CMU	Other:	
Roofing Type:	D - metal roofing over nailable deck with insulation	Other:	
HVAC System Type:	C - ground source heat pump system with air make up	Other:	
Classroom Lighting:	E - other	Other:	N/A
Active Daylighting:	B - occupancy light control sensors	Other:	
Passive Daylighting:	G - none	Other:	
On Site Energy Generation:	F - other	Other:	Geothermal

Air Purification Systems : YES ☑ NO ☐

Gray Water System : YES ☐ NO ☑

Low Water Use Fixtures : YES ☐ NO ☑

Other: Bi-Polar Ionization

PLUMBING:

Type of Sewage Disposal: Municipal (Sewer Department - City of Mt Washington, Hebron and Shepherdsville)

HEATING, VENTILATION AND AIR CONDITIONING:

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

Fuel Source/Backup (if applicable): N/A

ELECTRICAL:

Source of Electric Power: Salt River Electric & LG&E

Voltage Serving Facility: 208V/3PH/4WIRE

Number of Convenience Outlets:

Classrooms	N/A
Library/Media Center	N/A
Business Ed	N/A
Family & Consumer Science	N/A

Camera System: IP Based

Lighting Intensity (fc.):

Std. Classrooms	N/A
Library/Media Ctr	N/A
Science Lab	N/A
Science Clrm	N/A
Band/Music	N/A
Business Ed	N/A
Shops	N/A
Corridors	30
Stairways	20
Cafeteria	N/A
Pre-School Clrm	N/A
Art Classroom	N/A
Gymnasium	

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell		Intercom, yes	Yes
Clock		Yes	Yes
Fire Alarm		Yes	Yes
Intercom		Yes	Yes
Telephone		IP Yes	Equip. By Owner
Television		IP Yes	Equip. By Owner
Computer		Yes	Equip. By Owner
Wireless Network		Touch Screen Monitor, Yes	Equip. By Owner
Interactive White bd		Yes	Equip. By Owner
Voice Amplification		Yes	Equip. By Owner

FIXED EQUIPMENT:

Teacher Cabinet	No	Custodial Room Shelves	No
Student Lockers	No	Science Laboratories	N/A
Folding Bleachers	No	Family & Consumer Sci	N/A
Library Furnishings	No	Other	Athletic Equipment
Dry Food Shelves	No	Other	

INTERIOR FINISH SCHEDULE:

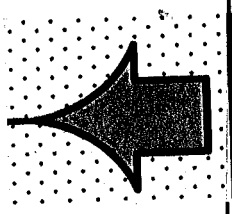
AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Offices	sealed concrete		paint	open to concrete plank structur
Corridors	sealed concrete		paint	open to concrete plank structur
Custodial	sealed concrete		paint	open to concrete plank structur
Kitchen	N/A			
Cafeteria	N/A			
Gym	N/A			
Showers/Locker	ceramic tile		paint	open to concrete plank structur
Toilets	ceramic tile		paint	open to concrete plank structur
Library/Media Cntr	N/A			
Classrooms	N/A			
Music	N/A			
Art	N/A			
Science	N/A			
FMD	N/A			
OTHER AREAS				
Practice Field	Synthetic Turf		paint	acoustic mtl deck/ open structur

Miscellaneous Project Specific Features: _____

Kentucky Registered Architect: Catherine N. Ward Signature Date: 4-15-2024

Kentucky Registered Engineer: Jeremy A. Jarvis, PE Signature Date: 4-15-2024

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 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

KENTUCKY DEPARTMENT OF EDUCATION
702 KAR 4:160

BG-3
STATEMENT OF PROBABLE COST

				Facility Name:	Bullitt Central High School		186
District Name:	Bullitt County	District Code:	71		North Bullitt High School	School Code:	199
					Bullitt East High School		187

Project Name: Phase 2 Athletics and Field Houses

Project Phase: **Design Development:** ☑ **Construction Documents:** ☐

1.	Site Development	$ 20,915,000.00	
2.	General Construction	$ 30,211,050.00	
3.	Heating, Ventilation & Air Conditioning	$ 12,843,000.00	
4.	Plumbing (Include Sprinkler System)	$ 1,354,500.00	
5.	Electrical Work	$ 11,410,000.00	
6.	Sewage Disposal System	$ *Included in Plumbing Line Item*	
7.	Total Construction Cost (1-6)		$ 76,733,550.00
8.	Site Acquisition Cost (Purchase Price)	$ 0.00	
9.	Legal Services	$ 65,166.00	
10.	Fiscal Agent Fee	$ 378,329.00	
11.	Bond Discount	$ 1,782,600.00	
12.	Architect/Engineer Fee	$ 3,836,677.50	
13.	Construction/Manager Fee (if Applicable)	$ N/A	
14.	Equipment/Furnishings (Not Fixed)/Computers	$ 1,700,000.00	
15.	Property & Topographic Survey	$ 60,000.00	
16.	Geotechnical Survey & Report	$ 4,500.00	
17.	Special Inspections	$ 450,000.00	
18.	Asbestos Abatement	$ N/A	
19.	Commissioning Fee	$ 100,000.00	
20.	Plan Review Fee	$ 37,500.00	
21.	Printing & Distribution of Bid Docs	$ 20,000.00	
22.	Contingencies - Minimum 5% of Line 7	$ 3,836,677.50	
23.	Moving Supplies/Storage Pod	$ 50,000.00	
24.	Test and Balance	$ 75,000.00	
25.	Abatement Spec/Monitoring	$ N/A	
26.	Total Other Cost (8-23)		$ 12,396,450.00
26.	**TOTAL PROJECT COST (line 7 + line 24)**		$ 89,130,000.00
	a. Gross Square Foot Area*		N/A
	b. Total Cost Per Square Foot		N/A
	c. Total Cost Per Pupil (2000 Students)		N/A
	d. Gross Sq. Ft. Area of Alternates		

* Base Bid Area Only

Kentucky Registered Architect/Engineer: Catherine N. Ward Date: 4/19/2024

Construction Manager: n/a Date:

Board of Education Designee: Date: