

FACPAC Contract Change Order

Supplemental Information Form (Ref#

63018)

Form Status: Saved

Tier 1 Project: New West Middle School

BG Number: 23-117

Status: Active

District: Hardin County (HB678) (231)

Phase: Project Initiation (View Checklist)

Contract: Geothermal Earthworks, 0231, Geothermal

Type: CM Bid Package

Proposed

Change Order Number

Time Extension Required

Date Of Change Order

Change Order Amount To Date

9

No

8/18/2025

Increase

Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount	\$2,890,000.00
Net Approved COs	\$0.00
Remaining After Approved COs	\$2,890,000.00
Net All COs	\$84,322.08
Remaining After All COs	\$2,805,677.92

This Requested Change Order Amount \$23,545.21

+/-

Change In A/E Fee This Change Order

+/-

Change In CM Fee This Change Order \$3,531.78

+/-

Remaining Construction Contingency

Balance

Contract Change Requested By Architect/Engineer; Special Inspector

Contract Change Reason Code Found Condition

Change Order Description And Justification

2 Sinkholes were observed in the geothermal well field. The recommended remediation option was priced, which consists of: removing standing water, remove sloughed off soil, install beat chanel liner stone, place stone, place DGA, wrap top of DGA with geo-fabric.

Cost Benefit To Owner

N/A

Contract unit prices have been utilized No

to support the cost associated with this

change order.

Detailed Cost Breakdown

Contract unit prices have not been utilized, provide a detailed cost breakdown which separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	\$10,363.76	44.02%
Materials	\$13,181.45	55.98%
Profit and Overhead		0.00%
Bond Insurance		0.00%
Cost Breakdown Total:	\$23,545.21	
Cost for this Change Order supported by an alternate bid or competitive price quote	No	

**Change Order Supplemental Information Form Signature
Page (Online Form Ref# 63018)**



Architect

8-19-25

Date

Construction Manager

Date

Finance Officer

Date

Local Board of Education Designee

Date

AIA® Document G731™ – 2019

Change Order, Construction Manager as Adviser Edition

PROJECT: (name and address)

West Hardin Middle School
5858 Leitchfield Road
Cecilia, KY 42724

OWNER: (name and address)

Hardin County Board of Education
65 W A Jenkins Road
Elizabethtown, KY 42701

CONTRACTOR: (name and address)

Geothermal Earthworks
485 Hammet Hill Road
Bowling Green, KY 42101

CONTRACT INFORMATION:

Contract For: General Construction
Date: 9/27/2024

ARCHITECT: (name and address)

JRA Architects
301 East Vine Street
Lexington, KY 40507

CHANGE ORDER INFORMATION:

Change Order Number: 009
Date: 8/18/2025

CONSTRUCTION MANAGER: (name and address)

Wehr Constructors, INC
2517 Plantside Drive
Louisville, KY 40299

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

Remediation of the 2 discovered sink holes found in bank of geothermal lateral lines

The original Contract Sum was	\$ 2,004,842.90
Net change by previously authorized Change Orders	\$ 0.00
The Contract Sum prior to this Change Order was	\$ 2,004,842.90
The Contract Sum will be increased by this Change Order in the amount of	\$ 23,545.21
The new Contract Sum including this Change Order will be	\$ 2,028,388.11

The Contract Time will be unchanged by Zero (0) days.

The Contractor's Work shall be substantially complete on .

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONSTRUCTION MANAGER, CONTRACTOR, AND OWNER.

JRA Architects

ARCHITECT (Firm name)

[Signature]

SIGNATURE

Rob Deal, AIA, President

PRINTED NAME AND TITLE

8-19-25

DATE:

Geothermal Earthworks

CONTRACTOR (Firm name)

SIGNATURE

PRINTED NAME AND TITLE

DATE:

Wehr Constructors, INC

CONSTRUCTION MANAGER (Firm name)

SIGNATURE

PRINTED NAME AND TITLE

DATE:

Hardin County Board of Education

OWNER (Firm name)

SIGNATURE

PRINTED NAME AND TITLE

DATE:

Wehr Constructors Inc - Louisville
OFFICE AND YARD
2517 Plantside Dr
Louisville, KY 40299



PHONE: 502-491-9250
FAX: 502-493-8653

GENERAL CONTRACTORS
ADDRESS CORRESPONDENCE TO:
2517 Plantside Dr
Louisville, KY 40299

CHANGE ORDER REQUEST

Date: 8/13/2025

Project Name: West Hardin Middle School

To: Hardin County Board of Education
65 A W Jenkins Rd.
Elizabethtown, KY 42701

Architect Project No. 202280

Attn: Shelee Clark

Wehr Project No. 24-049

Re: Wehr Request No. **Both Sinkhole Remediations**

DESCRIPTION OF CHANGE:

Repair the 2 sinkholes found in bank of lateral lines for the geothermal wells, per the Special Inspector

For the above change, we would add the amount of **\$27,076.99** to the project.

Days schedule delayed: 0

<i>Item</i>	<i>Subcontractor</i>	<i>Subtotal</i>
1	Geothermal Earthworks	\$23,545.21
2	Construction Manager Fee	\$3,531.78

Subtotal \$27,076.99

WEHR CONSTRUCTORS, INC.

By Justin Van Zile, Project Manager

We have reviewed the above Change Order Request and it is ☐ Approved; ☐ Rejected; ☐ to be Revised & Resubmitted.

Architect's Signature

Firm Name

Date

We have reviewed the above Change Order Request and it is ☐ Approved; ☐ Rejected; ☐ to be Revised & Resubmitted.

Owner's Signature

Firm Name

Date

Signature:



July 10, 2025

Subject: **Site Observation Report**
West Hardin Middle School
Cecelia, Kentucky
Solid Ground Project No.: 24-527

Solid Ground Consulting Engineers (Solid Ground) made a site visit as requested by Mr. Mike Billings with Engineering Design Group to observe a found sinkhole in the geothermal well field. Upon arrival, the sinkhole was observed in the bank of the lateral lines for the wells and measured approximately 6 feet in diameter and was approximately 10 feet deep. At the time of observation, the sinkhole contained approximately 6 feet of water. Mr. Jason Bell reported that the sinkhole was first encountered yesterday, and an attempt was made to “safe” the sinkhole by placing approximately 1/4 truck load of Class 2 Channel Liner stone in the bottom of the sinkhole. The estimated depth to bedrock at the sinkhole is 40 feet.

Considering the nature of the sinkhole, the planned use of the area, and cost/schedule considerations, Solid Ground provides the following three remediation options, each with the associated benefits and drawbacks.

- **Option #1:** Excavate to bedrock, install an inverted filter (approximately 20 feet tall), backfill with engineered soil fill.
 - This will repair the sinkhole and limit future risks; however, this option is prohibitively expensive in both dollars and time.
- **Option #2:** Fill the sinkhole with lean concrete to within 2 feet of the planned bottom of the lateral trench.
 - This may plug the sinkhole and can be done relatively quickly; however, this option could be prohibitively expensive due to the unknown amount of concrete required and has the potential to damage the wells.
- **Option #3:** Place an inverted filter to the depth the sinkhole is currently open.
 - This is likely to “safe” the sinkhole and limit potential damage to the well laterals; however, this option does not repair the sinkhole at its source and could result in future openings.

Based on our understanding of the project, the owner’s risk tolerance, and feasibility in addressing the issue, we recommend that Option #3 of placing an

inverted filter to the current depth of the sinkhole opening be selected. For this option we offer the following guidance:

- Remove the standing water in the sinkhole.
- Remove any sloughed off soil that may fall into the sinkhole.
 - We expect the opened portion of the sinkhole at this point to measure approximately 12 feet deep and 20 feet in diameter.
- Beat channel liner stone into the softer walls and throat of the sinkhole.
- Fill the opened portion of the sinkhole with channel liner stone up to 2 feet below the planned bottom of the lateral trench.
- Place 1 foot of #2 or #3 stone in the sinkhole.
- Place 1 foot of dense graded aggregate (DGA) in the sinkhole.
- Wrap the top of the DGA and #2/#3 stone with a non-woven geo-textile fabric.
- The location of the sinkhole and repaired area should be placed on the as-built plans for the project, both on the Civil drawings and the Well Field drawings.
- The repair should be observed by a representative of Solid Ground for documentation.

Observation by: Beck Smith, PE