



**MEMORANDUM** | February 2, 2023

## Floor Slab Repair Work at Central ES - Phase 2

### Addendum No.1

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**WJE PROJECT NO.** 2015.0340.A

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**TO** Prospective Bidders

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**FROM** Jon F. Sfura

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Addendum No. 1 consists of this memorandum, the WJE report *Concrete Floor Slab Relative Humidity – Central Elementary School* dated February 2, 2023, and a list of revisions to the Project Manual as indicated below.

1. Project Manual:

- a. Section 09 05 61 – Moisture Vapor Control System was revised as noted on the attached list of revisions.
- b. Section 09 65 15 – Homogeneous Resilient Tile Flooring was revised as noted on the attached list of revisions.
- c. Section 09 65 19 – Resilient Flooring and Base was revised as noted on the attached list of revisions.
- d. Section 09 65 20 – Resilient Heterogeneous Vinyl Sheet Flooring was revised as noted on the attached list of revisions.

2. Pre-bid Meeting Clarifications:

- a. The building permit will be issued by the Will County Regional Office of Education. No fee is associated with the permit.
- b. There is no Contractor License requirement for this project.
- c. All moveable items, such as chairs, desks, appliances, wall hangings, etc. will be moved by the Owner prior to construction from the rooms where floor finishes are specified to be removed and replaced. Moveable items in other rooms where work is specified will be moved as necessary through coordination with the Owner.
- d. Larger fixed tables, cabinets, and countertops typically will remain in place during the repair work. These items are shown on Sheet A-2.2. Large whiteboards mounted to the walls typically will remain in place during the repair work. If one of these items must be moved related to a repair, the Owner will do so in coordination with the Contractor.
- e. As noted on the structural drawings, the extent of floor slab, masonry, and sealant repair work will be verified after the removal of floor finishes, furniture, wall hangings, and other equipment. This repair work corresponds to Bid Items 2.2, 2.3, 2.4, 2.5, 2.7, 3.1, 3.2, 3.3, 4.1, 4.2, 4.3, and 5.1. The estimated quantities on the Bid Form are intended to represent the total repair quantities, including any additional repairs identified after removal of floor finishes, etc.

3. Pre-Bid Meeting Participants:

- a. Nat Randallo - Arno Decorating, Inc.
- b. Cory Marple - Lite Construction, Inc
- c. Dan Dorman - Metropolitan Corp.
- d. Pete Xidias - Metropolitan Corp.
- e. Michael Judy - R. Berti Building Solutions
- f. Jay Lofgren - Raise Rite Concrete Lifting
- g. Greg Mollett - Raise Rite Concrete Lifting
- h. Curt Alsip - Plainfield Community Consolidated School District No. 202
- i. David Patton - Healy Bender Patton & Been Architects
- j. Megan McAlister - Wiss, Janney, Elstner Associates, Inc.
- k. Jon F. Sfura - Wiss, Janney, Elstner Associates, Inc.



Wiss, Janney, Elstner Associates, Inc.

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Northbrook, Illinois 60062  
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February 2, 2023

Curt Alsip  
Director of Facilities  
Plainfield CCSD No. 202  
14812 S Eastern Avenue  
Plainfield, Illinois 60544

## Concrete Floor Slab Relative Humidity

Central Elementary School  
Plainfield, Illinois  
WJE No. 2023.0202

Dear Mr. Alsip,

At your request, Wiss, Janney, Elstner, Associates (WJE) has measured the concrete floor slab relative humidity at selected locations on the first floor at Central Elementary School, 23723 Getson Avenue in Plainfield, Illinois, as part of the Floor Slab Repair and Renovation Project – Phase 2.

### EQUIPMENT AND TEST PROCEDURES

Concrete relative humidity (RH) measurements were made using the Vaisala, SHM40 and HM44 Concrete Humidity Measurement Systems, which meet the requirements of ASTM F2170, Section 6, *Apparatus*. The Vaisala system is the preferred method of measuring internal concrete RH because of the historical reliability of the RH measurements and WJE's in-house research. All measurements were taken in general accordance with ASTM F2170 *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*. RH measurement locations were selected based on the planned scope for floor finish replacement during the upcoming Floor Slab Repair and Renovation Project.

At each measurement location, a test sleeve was installed to allow for insertion of the Vaisala RH test probe. The floor slab thickness at each test location was taken to be 6 inches based on previous investigative work conducted at the varied PSD schools. Note that based on the age of the concrete slabs, it would be expected that the moisture in the concrete would be at equilibrium, meaning that the measurements of moisture from the top to bottom of the slab should yield the same relative humidity value regardless of depth. The procedure at each test location is as follows:

1. Drill a 5/8-inch diameter hole to a depth of 40 percent of the slab thickness (~2.4 inches for a 6-inch slab)
2. Clean the hole with a vacuum and brush to remove all dust from drilling
3. Measure and record the depth of the hole to the nearest 0.01 inch
4. Insert the test sleeve, sealing the sleeve perimeter and hole with 100 percent silicone caulk
5. Allow a minimum of 24 hours to elapse before inserting the Vaisala probe through the sleeve (in this case, approximately 96 hours elapsed)

6. Allow sufficient time for the probes to equilibrate before reading the relative humidity using an appropriate Vaisala reader

## **TEST RESULTS**

On January 27<sup>th</sup>, 2023, WJE installed sleeves at 5 locations. On January 30<sup>th</sup>, 2023, the concrete temperature and relative humidity were measured at all locations. Air temperature and ambient relative humidity were also recorded. The test results are shown in Table 1. Relative Humidity Test Results, and the testing locations are shown in Figures 1 and 2.

Table 1. Relative Humidity Test Results

Probe No.	Location	Existing Floor Finish	Drilling Depth (inches)	First Reading		Second Reading		Average Reading		Proposed Floor Finish	
				RH (%)	Temp (°F)	RH (%)	Temp (°F)	RH (%)	Temp (°F)	Type	RH Limit (%) <sup>1</sup>
1	Multi-Purpose	Tile	2.53	69.7	69.0	69.7	69.0	69.7	69.0	VCT	95
2	Multi-Purpose	Tile	2.50	72.3	61.6	72.3	61.6	72.3	61.6	VCT	95
3	Multi-Purpose	Tile	2.50	71.6	72.3	71.6	72.3	71.6	72.3	VCT	95
4	Room 138	Carpet	2.39	58.6	70.4	58.6	70.4	58.6	70.4	RHVS	95
5	Room 139	Carpet	2.38	59.1	68.1	59.1	68.1	59.1	68.1	RHVS	95

<sup>1</sup> Values correspond to manufacturer’s published relative humidity limits, determined in accordance with ASTM F2170, for Tarkett RollSmart Adhesive and Armstrong S-515 Tile Strong Adhesive. Other adhesives may have different relative humidity limits.

We appreciate the opportunity to assist you with this project. Please contact us with any questions.

Sincerely,

**WISS, JANNEY, ELSTNER ASSOCIATES, INC.**



Jon F. Sfura, PhD, PE, SE  
Associate Principal



Jeff Plumridge  
Senior Associate

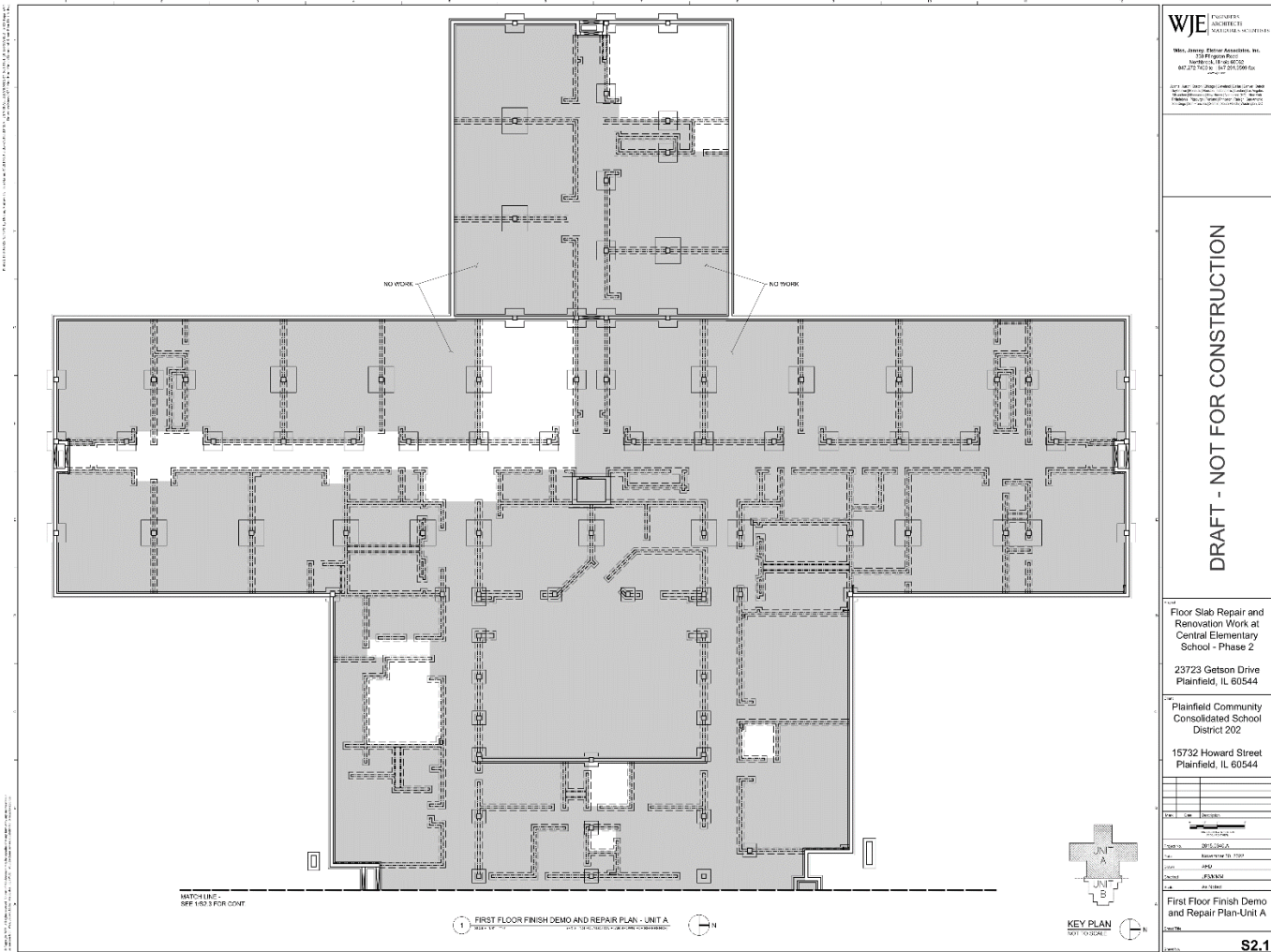


Figure 1. Test Locations – Note that all test locations are location to the east of the match line.

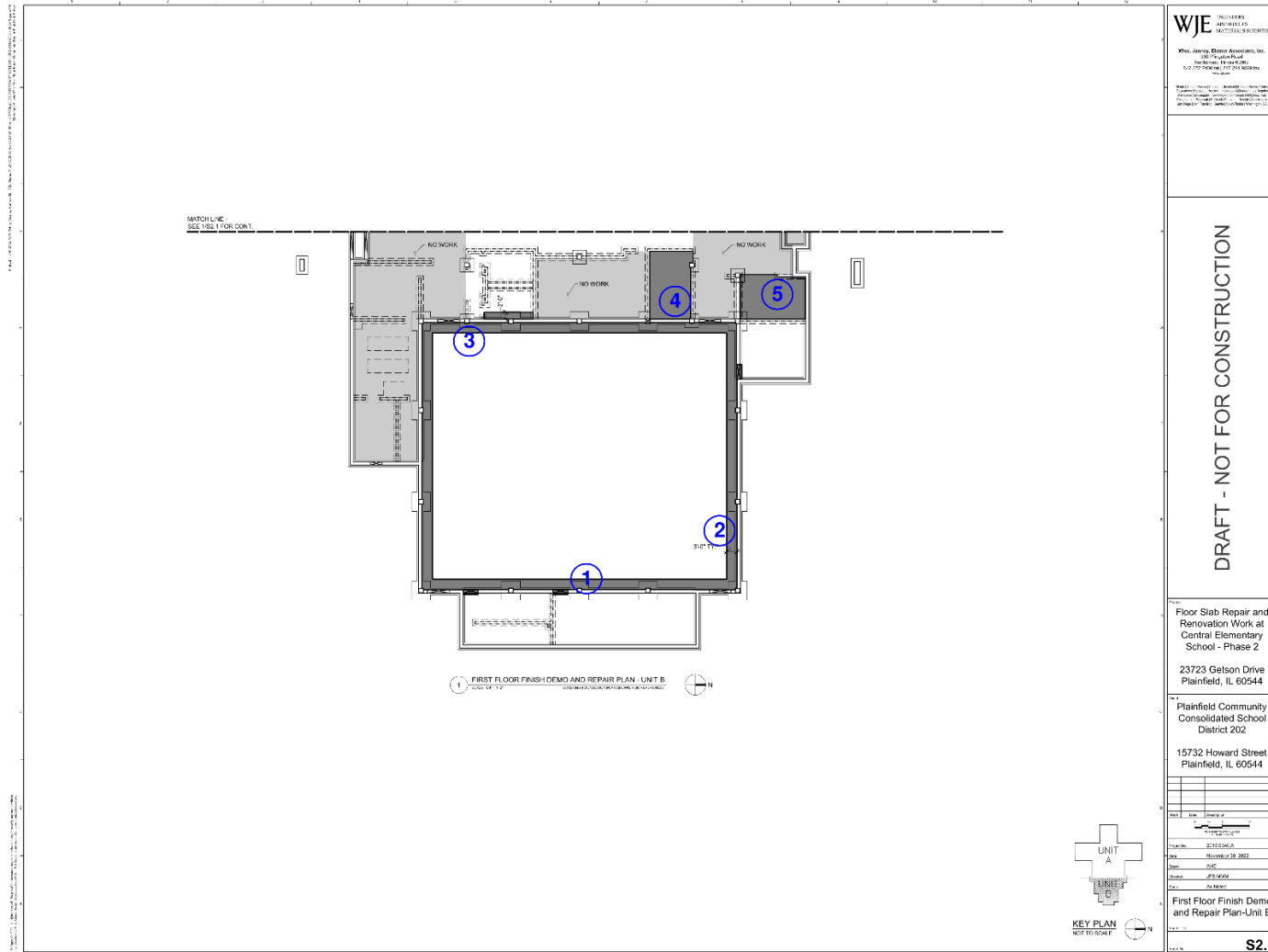


Figure 2. Test Locations



HEALY BENDER PATTON & BEEN  
ARCHITECTS  
4040 Helene Avenue  
Naperville, Illinois 60564

ADDENDUM NO. 1  
February 2, 2023

FLOOR SLAB REPAIR AND  
RENOVATION WORK – PHASE 2  
CENTRAL ELEMENTARY SCHOOL  
PLAINFIELD, ILLINOIS  
FOR  
PLAINFIELD COMMUNITY  
CONSOLIDATED SCHOOL DISTRICT 202  
PLAINFIELD, WILL COUNTY, ILLINOIS  
PROJECT NO. 12-122-105

This addendum shall be considered as part of the Contract Documents or Bidding Documents, as applicable, and shall govern insofar as it changes, deletes from or adds to the original Contract Documents or Bidding Documents, as applicable.

The Contract Documents or Bidding Documents as applicable shall be modified to incorporate the following changes:

I. PROJECT MANUAL

A. Section 09 05 61 – Moisture Vapor Control System

1. DELETE paragraph 2.02.A.1 in its entirety and REPLACE with the following:  
“1. Refer to WJE specification Section 03 01 34 – Concrete Replacement and Repair.”
2. DELETE paragraph 2.02.A.2 in its entirety and REPLACE with the following:  
“2. Refer to WJE specification Section 03 01 34 – Concrete Replacement and Repair.”
3. DELETE paragraph 2.02.A.3 in its entirety and REPLACE with the following:  
“3. Refer to WJE specification Section 07 92 00 – Joint Sealants.”
4. DELETE paragraph 2.02.A.7 in its entirety and REPLACE with the following:  
“7. Refer to WJE specification Section 03 45 00 - Floor Leveling.”
5. DELETE paragraphs 3.04.A through 3.04.J in their entirety and REPLACE with the following:  
“A. Refer to WJE specification Section 03 01 34 – Concrete Replacement and Repair for static joints.  
B. Refer to WJE specification Section 07 92 00 – Joint Sealants for moving joints.”

C. Section 09 65 15 – Homogeneous Resilient Tile Flooring

1. ADD new paragraph 2.02.B.2 to read as follows:  
“2. Tarkett RollSmart flooring adhesive for use with resilient tile flooring.”

D. Section 09 65 19 – Resilient Flooring and Base

1. ADD new paragraph 2.01.A.2 to read as follows:

“2. Tarkett VCT II”

E. Section 09 65 20 – Resilient Heterogeneous Vinyl Sheet Flooring

1. Paragraph 2.02, REPLACE the name of paragraph with “HETEROGENOUS VINYL SHEET FLOORING”
2. Paragraph 2.02.A, REPLACE the word “Acczent” with “Performa.”
3. Paragraph 2.02.D, REPLACE the words “6 ft. 6 inches” with “6 feet”
4. Paragraph 2.02.E, REPLACE the words “55015 Ironwood” with “As selected by Architect”
5. Paragraph 2.02.F.1, REPLACE the words “0.032 inches” with “25 mil”
6. ADD new paragraph 2.03.B.2 to read as follows:  
“2. Tarkett RollSmart flooring adhesive for use with vinyl sheet flooring.”

END OF ADDENDUM NO. 1

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