

ADDENDUM

PROJECT	NKU New Residence Hall	ADDENDUM NO.	1
PROJECT NO.	18237.01	DATE	02/14/2020
TO	Brian Groneck	FROM	Dan Bossenbroek

DESCRIPTION:**I) DRAWING REVISIONS:****VOLUME 1****1) G007 WALL TYPES AND DETAILS**

A) Revised Details 1B, 1B' and 1C.

2) C400 GRADING PLAN

A) Revised grades along Kenton and Carroll Drives.

B) Revised Pipe Chart

3) C500 UTILITY PLAN

A) Revised grades along Kenton and Carroll Drives.

B) Added connection between building foundation drain to storm drain.

4) C501 STORM PROFILES

A) Revised STM-1A and STM-2.

5) C700 EROSION CONTROL PLAN

A) Revised grades along Kenton and Carroll Drives.

6) S301 FOUNDATION DETAILS

A) Deleted footing drain shown in Section 2/S301.

7) S302 FOUNDATION DETAILS

A) In Section 14/S302, added footing drain behind the concrete wall at the top of the elevator pit.

B) Deleted footing drain shown in Section 17/S302.

8) A001 LEVEL 00 / LEVEL 01 - FLOOR PLAN

A) Indicated extend of foundation drain piping and foundation wall waterproofing.

9) A105 LEVEL 05 FLOOR PLAN - OVERALL

A) Deleted Elevation 19/A721.

10) A520 EXTERIOR DETAILS

A) Revised Detail 1 to indicate bituminous dampproofing.

11) A522 EXTERIOR DETAILS

A) Revised Details 1 & 2 to clarify extent of fluid applied air barrier.

12) A523 EXTERIOR DETAILS

A) Revised Detail 11 to indicate bituminous dampproofing.

13) A701 DOOR SCHEDULE

A) Revised Doors 106 and 114 to be HM doors

14) A721 EXTERIOR STOREFRONT ELEVATIONS

A) Deleted Elevation 19.



15) A811 COMMON AREA KITCHEN

- A) General Note 19, revised to include more information about Contractor furnished equipment.

II) SPECIFICATION REVISIONS:**VOLUME 1****1) TOC**

- A) Delete Section 06 20 00 FINISH CARPENTRY

2) 00 24 13 Bid Category Descriptions

- A) Include the following revisions to BC-01: General Trades beginning on page 00 24 13 – 7/80
 - (1) On Page 00 24 13 - 7/80 delete: “Geotechnical Exploration Report”
 - (2) On Page 00 24 13 - 8/80 delete: Section 12 48 13 and Section 12 93 00
 - (3) On Page 00 24 13 – 9/80 revise note 9.: Delete “This includes” from the end of this note.
 - (4) On Page 00 24 13 – 9/80 revise note 11. to include temporary doors at the following ground floor openings: 154, 100A, 116, 122A, 125S, 120A, 135A, & 165SE. All other ground floor door openings shall be temporarily boarded off.
 - (5) On Page 00 24 13 – 12/80 revise note 27. as follows: Include a complete trash dumpster enclosure as shown on page A000 in lieu of Section 32 31 31 Trash Dumpster Enclosure
 - (6) On Page 00 24 13 – 13/80 delete the following:
 - (a) Note 30.b 12 48 13 Entrance Mats and Frames
 - (b) Note 30.c 12 93 00 Site Furnishing
- B) Include the following revisions to BC-02: Earthwork, Site Utilities, and Asphalt Paving beginning on page 00 24 13 – 16/80:
 - (1) On page 00 24 13 – 17/80 Note 5. Excavation & Grading item C. should be revised to read: Cut and/or fill the subgrade under slab on grade concrete. Subgrade shall be installed to 9 inches below finished concrete floor elevation.
 - (2) On page 00 24 13 – 21/80 Note 10. e) shall be revised to read: This BC-02 subcontractor shall provide and install compacted gravel base from subgrade to 5 inches below finished concrete floors. Excavations from concrete foundations shall be backfilled with compactable material to 9 inches below finished concrete floor by the BC-04 subcontractor.
- C) Include the following updates to BC-03 Drilled Piers scope or work beginning on page 00 24 13 – 24/80
 - (1) Revise Note 5. To read: Subgrade shall be left at 9 inches below finished concrete floors in all areas. This BC-03 subcontractor shall maintain or replace any damaged subgrade once drilled piers have been installed.
- D) Include the following updates to BC-04 Concrete Foundations, Reinforcing Steel, Concrete Materials P.P.F beginning on page 00 24 13 – 27/80
 - (1) On page 00 24 13 – 27/80 add the following specification sections
 - (a) Section 02 41 13 Selective Site Demolition (as applicable)
 - Section 07 11 13 Bituminous Dampproofing
 - Section 31 63 20 Drilled Piers (as applicable)
 - Section 07 92 00 Joint Sealants (as applicable)
 - (2) On page 00 24 13 – 27/80, revised note 7. to read: The BC-02 Earthwork Site Utilities subcontractor shall cut the building pad to 9” below finish concrete floor in all areas. The BC-04 subcontractor shall excavate or form all footings and walls above or below this grade as required.
 - (3) On page 00 24 13 – 32/80 add note 50. This scope includes all bond breaks and under-concrete slab vapor barriers in the documents.



- E) Include the following updates to BC-07 Metal Framing, Drywall & Acoustical Ceilings beginning on page 00 24 13 – 40/80
- (1) Replace the Divisions and Sections listed on page 00 24 13 – 40/80 with the following:
 - (a) Division 00 Procurement and Contracting Requirements
 - Division 01 General Requirements
 - Division 02 Existing Conditions
 - Section 05 12 00 Structural Steel (as related)
 - Section 05 30 00 Metal Decking (as related)
 - Section 05 40 00 Cold-Formed Metal Framing
 - Section 06 16 00 Sheathing
 - Section 07 21 00 Thermal Insulation
 - Section 07 27 26 Fluid Applied Membrane Vapor Air Barriers
 - Section 07 54 23 Thermoplastic Polyolefin Roofing
 - Section 07 84 00 Firestopping (as related)
 - Section 07 92 00 Joint Sealants (as related)
 - Section 08 11 00 Steel Doors and Frames (as related)
 - Section 08 31 00 Access Doors and Panels (as related)
 - Section 09 21 16 Gypsum Board Assemblies
 - Section 09 51 00 Suspended Acoustical Ceiling
 - Section 09 91 00 Painting and Coatings (as related)
 - (2) Replace Note No. 9 on Page 00 24 13 – 41/80 with the following:
 - (a) Provide the interior and exterior load bearing and non-load bearing metal stud framing. Provide the batt, rigid, and mineral fiber insulation within the interior and exterior wall/ceiling systems. Include all fluid applied membrane vapor air barriers (also included at CMU for complete system), spray-in acoustic and thermal insulation required for a complete exterior air/water barrier. Include all “Z” girts, vertical sub-girts (only if in plane with insulation), interior and exterior gypsum sheathing, gypsum shaft-wall assemblies, ceilings complete, and joint sealers. Design responsibility for load bearing walls shall also be included (design by and Kentucky registered Professional Engineer).
 - (3) Add: 41. Include backer board or gypboard as required that is suitable for use behind all ceramic wall tile.
- F) Include the following updates to the BC-14 Metal Panels on page 00 24 13 – 66/80 to include the following:
- (1) Section 08 91 19 Fixed Lovers
 - (2) Add Note 13. This scope include provide all fixed lovers in metal panels.
- G) Include the following updates to the BC-16 Painting on page 00 24 13 – 71/80
- (1) Add note 18. Include all intumescent fireproofing. See note 4 on A224 for additional areas
- H) Include the following updates to the BC-17 Resilient Flooring, Ceramic Tile, and Polished Concrete on page 00 24 13 – 76/80:
- (1) Add note 23. Include Section 12 48 13 Entrance Floor Mats and Frames. This scope includes providing and installing entrance floor mats and frames in Vestibules 100V and 135V.
 - (2) Add note: 16. This scope include removal of the erosion co
- 3) **03 30 00 CAST-IN-PLACE CONCRETE**
- A) Revised paragraph 1.2 B. 2. to read:
 2. Section **04 00 00** – Unit Masonry
 - B) Revised paragraph 1.2 B. 5. to read:
 5. Section **31 30 00** Earthwork
- 4) **04 00 00 MASONRY**
- A) Revised paragraph 1.01 A. 4. to read:



4. Masonry lintels and setting of steel angles furnished under Section **05 12 00**.

B) Revised paragraph 1.01 A. 5. to read:

5. Setting bearing plates supported and embedded with masonry furnished under Section **05 12 00**.

5) 05 12 00 STRUCTURAL STEEL

A) Revised paragraph 1.2 D. 2. to read:

2. Section **04 00 00** – Unit Masonry

B) Deleted paragraph 1.2 D. 5.

C) Revised paragraph 1.2 D. 6. to read:

6. Section **09 91 00** – **Paints and Coatings**

D) Revised paragraph 2.1 H. to read:

H. Structural steel primer paint: One coat rust inhibitive primer, gray. Paint shall be weldable with negligible effect on weld integrity. Where steel is AESS or field painted:

One coat of zinc rich primer, refer to Specification **09 91 00 Paints and Coatings**, and verify compatibility with topcoats.

6) 05 30 00 METAL DECKING

A) Deleted paragraph 1.2 D. 4.

7) 05 40 00 COLD-FORMED METAL FRAMING

A) Revised paragraph 1.2 B. 2. to read:

2. Section **04 00 00** – Unit Masonry

B) Deleted paragraph 1.2 B. 5.

C) Deleted paragraph 1.2 B. 6.

8) 05 51 13 METAL PAN STAIRS

A) Deleted paragraph 1.02 B.

9) 07 46 46 MINERAL-FIBER CEMENT SIDING

A) Revised paragraph 3.04 A. to read:

A Finish factory primed siding with a minimum of two coats of paint per Section **09 91 00** within 180 days of installation

10) 07 81 16 CEMENTITIOUS FIREPROOFING

A) Entire section added.

11) 08 11 00 STEEL DOORS AND FRAMES

A) Paragraph 2.02 revised to read:

2.02 MANUFACTURERS

A. Steel Doors and Frames:

1. Ceco Door Products; Product: www.cecodoor.com.

2. Republic Builders Products; Product: www.republicdoor.com.

3. **Steelcraft; Product:** www.steelcraft.com.

4. Metal Products, Inc.;

12) 10 73 16 CANOPIES

A) Deleted paragraph 1.02 C.

13) 12 36 00 SOLID SURFACE COUNTERTOPS AND WINDOW STOOLS

A) Delete Item 1.01, C and paragraph 3.04 in its entirety.

14) 14 24 23 HYDRAULIC PASSENGER ELEVATORS

A) Revised paragraph 2.01 A. 2. to read:

2. Similar Products/models by OTIS, **CANTON** or SCHINDLER may be bid provided they meet all detailed requirements of the following specification. Any deviation from these specifications shall be brought to the Architect's attention during bidding. Deviations from the drawings or specifications are at the cost of the Elevator Contractor.



VOLUME 2

15) 31 63 20 DRILLED PIERS

- A) Revised paragraph 1.2 B. 2. to read:
2. Section **31 30 00** Earthwork

ATTACHMENTS:

DRAWINGS

VOLUME 1: G007, C400, C500, C501, C700, S301, S302, A001, A105, A520, A522, A523, A701, A721, & A811

SPECIFICATIONS

VOLUME 1: 07 81 16

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SECTION 07 81 16

CEMENTITIOUS FIREPROOFING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Provide rated installations which comply with indicated ratings for fire endurance, flame spread, and combustibility; including applicable code interpretations by governing authorities, and listing and labeling by UL or FM where applicable.

1.02 RELATED SECTIONS

- A. Firestopping: Section 07 84 00.
- B. Intumescent Fireproofing: Section 07 81 23.
- C. Structural Steel: Section 05 12 00.
- D. Sustainable Design Requirements: Section 01 81 13.
- E. VOC Limits: Section 01 81 16.

1.03 QUALITY ASSURANCE

- A. Applicator: Acceptable to fireproofing manufacturer.
- B. Regulatory Requirements
 - 1. Underwriters' Laboratories, Inc.: Products, execution and thickness shall conform to approved UL designs as published in UL Fire Resistance Directory.
- C. References: Wherever the following abbreviations occur, they shall refer to the corresponding standard:
 - 1. ASTM: American Society for Testing and Materials.
 - 2. U.L.: Underwriters' Laboratories, Inc.

1.04 SUBMITTALS

- A. Manufacturer's Product Data: Submit for all items. Include instructions for bonding and applying fireproofing.
- B. Submit copies of certified test reports of:

1. Manufacturer's certification or independent test reports confirming that materials meet or exceed performance criteria specified.
 2. Reports from independent testing agencies of product proposed for use, which indicate conformance to ASTM E84 and E119.
- C. Sustainable Design Documentation Submittals: Comply with Section 01 81 13.
1. VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.
- 1.05 DELIVERY, STORAGE AND HANDLING
- A. Deliver all materials in original unopened packages bearing the manufacturer's name, brand and UL label verifying compliance with UL's quality control inspection program and the appropriate fire resistance ratings.
 - B. Keep materials dry until ready for use. Keep materials off the ground, under cover and away from sweating walls and other damp surfaces. Discard materials that have been exposed to water before actual use.
- 1.06 JOB CONDITIONS
- A. Environmental Requirements
 1. Do not apply fireproofing when temperature of substrate, material and surrounding air is below 40° F. Maintain temperature 24 hours before and 24 hours after application of fireproofing.
 2. Provide ventilation in areas to receive fireproofing during and for 24 hours after application, to help dry material and maintain nontoxic, unpolluted working area.
- 1.07 COORDINATION
- A. Sequence and coordinate application of fireproofing with other related work specified in other Sections to comply with the following requirements:
 1. Provide temporary enclosure as required to confine spraying operations and protect the environment.
 2. Provide temporary enclosures for applications to prevent deterioration of fire-resistive material due to exposure to weather and to unfavorable ambient conditions for humidity, temperature, and ventilation.
 3. Avoid unnecessary exposure of fire-resistive material to abrasion and other damage likely to occur during construction operations subsequent to its application.
 4. Do not begin applying fire-resistive material until clips, hangers, supports, sleeves, and other items penetrating fire protection are in place.

5. Coordinate others' installation of ducts, piping, and similar items that would interfere with applying fire-resistive material until application of fire protection is completed.
6. Do not install enclosing or concealing construction until after fire-resistive material has been applied, inspected, and tested and corrections have been made to defective applications.

PART 2 PRODUCTS

2.01 FIREPROOFING

- A. Type: Spray applied cementitious fireproofing.
- B. Manufacturer: Specifications are based on MK-6 by GCP APPLIED TECHNOLOGIES INC. Equal products by ISOLATEK INTERNATIONAL (CAFCO), AD FIRE PROTECTION SYSTEMS (SOUTHWEST FIREPROOFING), CARBOLINE COMPANY or ALBI MANUFACTURING are acceptable providing the performance requirements specified herein are maintained.
 1. Fibrous Ingredients: Asbestos or mineral wool are not permitted; comply with OSHA Regulation 29, FR, 1926.58.
- C. Factory mixed material applied to provide compliance with specified performance specifications and test criteria.
 1. Dry Density: The field density shall be measured in accordance with ASTM Standard E605. Minimum average density shall be that required by the manufacturer, listed in the UL Fire Resistance Directory for each rating indicated, ICBO Evaluation Report, as required by the authority having jurisdiction, or minimum average 15 pcf, whichever is greater.
 2. Deflection: Material shall not crack or delaminate when tested in accordance with ASTM E759.
 3. Impact Resistance: Fireproofing material tested in accordance with ASTM E760 shall not crack or delaminate.
 4. Bond Strength: Fireproofing, when tested in accordance with ASTM E736, shall have a minimum average bond strength of 200 psf and a minimum individual bond strength of 150 psf.
 5. Air Erosion: Maximum allowable total weight loss of the fireproofing material shall be .005 g/ft² when tested in accordance with ASTM E859. Sample surface shall be "as applied" (not pre-purged) and the total reported weight loss shall be the total weight loss over a 24 hour period from the beginning of the test.
 6. Compression: The fireproofing shall not deform more than 10 percent when subjected to 1200 psf compressive forces in accordance with ASTM E761.
 7. Corrosion Resistance: Steel shall be tested in accordance with ASTM E937 without evidence of corrosion of the steel.
 8. Surface Burning Characteristics - ASTM E84:

Flame Spread: 0.

Smoke Developed: 0.

9. Resistance to Mold: The fireproofing material shall be formulated at the time of manufacturing with a mold inhibitor. Fireproofing material shall be tested in accordance with ASTM G21 and shall show resistance to mold growth for a period of 28 days for general use.
10. Combustibility: Material shall have a maximum total heat release of 20 MJ/m² and a maximum 125 kw/m² peak rate of heat release 600 seconds after insertion when tested in accordance with ASTM E1354 at a radiant heat flux of 75 kw/m² with the use of electric spark ignition. The sample shall be tested in the horizontal orientation.
11. VOC Content: 0.0 g/L.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that surfaces to receive fireproofing material are free of oil, grease, loose mill scale, or other substances which may impair proper adhesion.
- B. Confirm compatibility of surfaces to receive fireproofing material.
- C. Verify clips, hangers, supports, sleeves and other items required to penetrate fireproofing are in place.
- D. Verify ducts, piping, equipment or other items which would interfere with application of fireproofing materials are not positioned until fireproofing work is completed.
- E. Beginning of installation means acceptance of substrates and installation conditions.
- F. Testing and Inspection shall be in accordance with Technical Manual 12-A "Standard Practice for the Testing and Inspection of Field Applied Sprayed Fire-Resistive Materials; an Annotated Guide."

3.02 PROTECTION

- A. Protect adjacent surfaces and equipment from damage by overspray, fallout and dusting.
- B. Close off and seal ductwork in areas where fireproofing is being applied.
- C. Protect applied sprayed fireproofing from damage.

3.03 APPLICATION

- A. Apply fireproofing in strict accordance with manufacturer's instructions.

- B. Apply fireproofing in sufficient thickness to achieve rating with as many passes as necessary to cover with monolithic blanket of uniform density and texture.

3.04 CLEANING, PROTECTING, AND REPAIR

- A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.
- B. Protect fireproofing, according to advice of product manufacturer and Installer, from damage resulting from construction operations or other causes so fire protection will be without damage or deterioration at time of Substantial Completion.
- C. Coordinate application of fireproofing with other construction to minimize need to cut or remove fire protection. As installation of other construction proceeds, inspect fireproofing and patch any damaged or removed areas.

3.05 CLEANING

- A. After completion of fireproofing work, remove all equipment and leave all exposed wall and floor areas in a broom-clean condition.

END OF SECTION