

4/8/2020

Addendum

ADD #:
03

Date Issued:
04/09/2020

Project #:
546 UA Union Infill

Project:
Student Affairs
Arkansas Union 634
Fayetteville, AR 72701

Owner:
University of Arkansas
Fayetteville, AR 72701

From Architect:
Hufft Projects
403 SE 5 th Street
Bentonville, AR 72712

To Contractor:

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change in the Contract Sum or Contract Time. Any change in Contract Sum or Contract Time requires Architect's approval and shall be submitted in writing.

Description:

This ADD consists of (0) 24 x 36 sheets and Bid Questions #17-38 Responses. Refer to ADD 03 on the attached drawings and specifications, and 546 Bid Question Log for responses.

Modify the Project Manual and/or the Drawings as noted:

Project Manual:

Section 03 35 05 – Sealed Concrete: Removed from Specifications: Not Used

Section 03 35 43 –Polished Concrete: Removed from Specifications: Not Used

Section 08 80 00 – Glass, Glazing and Mirrors: Removed references to “Exterior glass” and “Decorative Glass” as well as associated performance criteria: None used in this project.

Attachments:

- 546-19-0409-UnionInfillAdd03Section033505.pdf
- 546-19-0409-UnionInfillAdd03Section033543.pdf
- 546-19-0409-UnionInfillAdd03Section088000.pdf
- 546-20-0408_546 Bid Question Log - ADD 03.pdf
- 546-20-0409 - ADD 03 - NARRATIVE.pdf

-END-

Issued by the Architect:

Brad Kingsley

Signature

Printed Name

SECTION 03 35 05 – SEALED CONCRETE FINISHING**PART 1 - GENERAL**

- 1.01 ~~PROVIDE SEALED CONCRETE FINISH at interior exposed concrete floor surfaces that are not indicated to be finished with other finish materials or concrete surface treatments on the Drawings, including but not limited to exposed concrete floors or slabs, stair treads and risers, and stair platforms. Provide sealed concrete finish even if not specifically indicated or scheduled on the Drawings.~~

PART 2 - PRODUCT:

- 2.01 ~~SEALED CONCRETE FINISH: Clear, high solids, water based, non-yellowing membrane forming, inorganic curing, sealing and hardener, material for treatment of uncovered concrete floor surfaces, complying with ASTM C 1315 – Type 1, Class A, and being classified as “low odor” with a VOC content of less than 350 g/L.~~
- A. ~~Do not apply to concrete surfaces that will receive subsequent cementitious toppings, sealers, hardeners, ceramic tile, resilient flooring, wood flooring, carpeting, or resinous flooring systems, unless sealer manufacture certifies that their product conforms to requirements required by the floor finish manufacturer and will not adversely affect floor finish application.~~
- B. ~~BASIS OF DESIGN: “MasterKure HD 200WB” by BASF Building Systems, or approved equivalent~~

PART 3 - INSTALLATION

- 3.01 ~~PREPARATION: Thoroughly clean floor using mechanical scrubber to remove all dirt, residue, etc. per manufacturer's recommendations to ensure a clean finished product that performs correctly.~~
- 3.02 ~~CONCRETE SEALER INSTALLATION: Install a minimum of TWO (2) COATS, in accordance with Manufacturer's recommendations.~~
- A. ~~SC 1 – sealed concrete – apply per finish schedule.~~

END OF SECTION 03 35 05

THIS SPECIFICATION WAS PREPARED UNDER THE ARCHITECT'S SUPERVISION, AND IS AN "INSTRUMENT OF SERVICE" INTENDED SOLELY FOR USE BY OUR CLIENT ON THIS PROJECT. THE SPECIFICATIONS ARE PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS - THE AGREEMENT, THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THE CONTRACT, AND DIVISION-01 "GENERAL REQUIREMENTS". SECTIONS OF THESE SPECIFICATIONS APPLY TO THE WORK DESCRIBED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS. THE ARCHITECT DISCLAIMS ANY RESPONSIBILITY FOR EXISTING SITE CONDITIONS AND ANY EXISTING BUILDING STRUCTURE OR CONSTRUCTION ELEMENTS, AND FOR ANY DOCUMENTS NOT SIGNED AND SEALED BY THE ARCHITECT. THE INFORMATION, IDEAS AND DESIGNS INDICATED - INCLUDING THE OVERALL FORM, ARRANGEMENT AND COMPOSITION OF SPACES OR BUILDING ELEMENTS - CONSTITUTES THE ORIGINAL, CONFIDENTIAL, AND UNPUBLISHED WORK AND PROPERTY OF THE ARCHITECT. RECEIPT OR POSSESSION OF THIS SPECIFICATION CONFERS NO RIGHT IN, OR LICENSE TO DISCLOSE TO ANY OTHER THE SUBJECT MATTER CONTAINED HEREIN FOR ANY BUT AUTHORIZED PURPOSES. UNAUTHORIZED REPRODUCTION, DISTRIBUTION OR DISSEMINATION - IN WHOLE OR IN PART - IS STRICTLY PROHIBITED. ALL RIGHTS RESERVED - © 2020 BY HUFFT PROJECTS LLC

SECTION 03 35 43 – POLISHED CONCRETE FINISHING**PART 1 - SUMMARY**

- 1.01 Section Includes: Products and procedures for bonded abrasive polished concrete floors using multi-step wet/dry mechanical process, and accessories indicated, specified, or required to complete polishing.
- 1.02 RELATED SECTIONS
- A. Section 033000: Cast In-Place Concrete. Specifically for flatness requirements.
- 1.03 DEFINITIONS
- A. Terminology: As defined by Concrete Polishing Council (CPC) glossary.
- B. Polished Concrete: The act of changing a concrete floor surface, with or without surface exposure of aggregate, to achieve a specified level of appearance.
- C. Bonded Abrasive Polished Concrete: The multi-step operation of mechanically grinding, honing, and polishing a concrete floor surface with bonded abrasives to cut a concrete floor surface and to refine each cut to the maximum potential to achieve a specified level of appearance as defined by the CPC.
- 1.04 SUBMITTALS
- A. Product Data: Manufacturer's technical literature for each product indicated, specified, or required. Include manufacturer's technical data, application instructions, and recommendations.
- B. Installer Qualifications: Data for company, principal personnel, experience, and training specified in PART 1 "Quality Assurance" Article.
- C. Maintenance Data: For inclusion in maintenance manual required by Division 01.
1. Include instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under anticipated use.
 2. Include precautions against cleaning products and methods which may be detrimental to finishes and performance.
- 1.05 QUALITY ASSURANCE
- A. Polisher Qualifications:
1. Experience: Company that has successfully completed five projects similar in design, products, and extent to scope of this Project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to produce specified work.
 2. Supervision: Maintain a competent supervisor who is at Project during times specified work is in progress, and is currently certified as Craftsman Level I or higher by CPAA, CPC Craftsman, or equivalent.
 3. Manufacturer Qualification: Approved by manufacturer to apply liquid-applied products.
- B. Field Mock-up: Before performing work of this Section, provide following field mock-up to verify selections made under submittals and to demonstrate aesthetic effects of polishing. Approval does not constitute approval of deviations from Contract Documents, unless Architect specifically approves deviations in writing.
1. Form, reinforce, and cast concrete slab for 10-foot square field mock-up.
 2. Concrete shall be same mix design as scheduled for Project.
 3. Placement and finishing work shall be performed by same personnel as will place and finish concrete for Project.
 4. Mock-up shall be representative of work to be expected.
 5. Perform grinding, honing, and polishing work as scheduled for Project using same personnel as will perform work for Project.
 6. Approval is for following aesthetic qualities:
 - a. Compliance with approved submittals.
 - b. Compliance with specified aggregate exposure class.
 - c. Compliance with specified appearance level.
 - d. Compliance with specified color.
 7. Obtain Architect's approval before starting work on Project.
 8. Protect and maintain approved field mock-ups during construction in an undisturbed condition as a standard for judging completed work.
- C. Pre-Installation of Concrete Conference: Prior to placing concrete for areas scheduled for polishing, conduct conference at Project to comply with requirements of applicable Division 01 Sections.
1. Required Attendees:
 - a. Owner.
 - b. Architect.
 - c. Contractor, including supervisor.
 - d. Concrete producer.
 - e. Concrete finisher, including supervisor.
 - f. Concrete polisher, including supervisor.
 - g. Technical representative of liquid-applied product manufacturers.
 2. Minimum Agenda: Polisher shall demonstrate understanding of work required by reviewing and discussing procedures for, but not limited to, following:



- a. ~~—Tour field mock-up and representative areas of required work, discuss and evaluate for compliance with Contract Documents, including substrate conditions, surface preparations, sequence of procedures, and other preparatory work performed by other installers.~~
- b. ~~—Review Contract Document requirements.~~
- c. ~~—Review approved submittals and field mock-up.~~
- d. ~~—Review procedures, including, but not limited to:~~

1.06 Applicable Division 03 Section on cast in place concrete

- A. ~~Specific mix design.~~
- B. ~~Specified curing methods/procedures.~~
- C. ~~Projected 3, 14, and 28 day compressive strength test for finished floor and project phasing.~~
- D. ~~Protection of concrete substrate during construction and prior to polishing process.~~
- E. ~~Project phasing and scheduling for each step of grinding, honing and polishing operations including, but not limited to:~~
 1. ~~—Quality of qualified personnel committed to project.~~
 2. ~~—Quality and size of grinders committed to project.~~
 3. ~~—Proper disposal of concrete slurry and/or concrete dust.~~
 4. ~~—Details of each step of grinding, honing, and polishing operations.~~
 5. ~~—Application of color, if any.~~
 6. ~~—Application of liquid applied products.~~
 7. ~~—Protecting polished concrete floors after polishing work is complete.~~
 8. ~~—Reports: Record discussions, including decisions and agreements reached, and furnish copy of record to each party attending.~~

1.07 FIELD CONDITIONS

- A. ~~Damage and Stain Prevention: It is the responsibility of others to prevent damage and staining of concrete surfaces to be polished.~~
 1. ~~—Prohibit use of markers, spray paint, and soapstone.~~
 2. ~~—Prohibit improper application of liquid membrane film forming curing compounds.~~
 3. ~~—Prohibit vehicle parking over concrete surfaces.~~
 4. ~~—Prohibit pipe cutting operations over concrete surfaces.~~
 5. ~~—Prohibit storage of any items over concrete surfaces for not less than 28 days after concrete placement.~~
 6. ~~—Prohibit ferrous metals storage over concrete surfaces.~~
 7. ~~—Protect from petroleum, oil, hydraulic fluid, or other liquid dripping from equipment working over concrete surfaces.~~
 8. ~~—Protect from acids and acidic detergents contacting concrete surfaces.~~
 9. ~~—Protect from painting activities over concrete surfaces.~~
- B. ~~Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting liquid applied product application.~~

PART 2 - PRODUCTS

2.01 LIQUID APPLIED PRODUCTS

- A. ~~A. Liquid Densifier: An aqueous solution of silicon dioxide dissolved in one of the following hydroxides that penetrates into the concrete surface and reacts with the calcium hydroxide to provide a permanent chemical reaction that hardens and densifies the wear surface of the cementitious portion of the concrete.~~
 1. ~~—1. Sodium Silicate~~
 2. ~~—2. Potassium Silicate~~
 3. ~~—3. Lithium Silicate~~
 4. ~~—4. Alkali solution of Colloidal Silicates or Silica~~
- B. ~~Dye: Non-film forming soluble colorant dissolved in a carrier designed to penetrate and alter coloration of a concrete floor surface without a chemical reaction.~~
- C. ~~Pigmented Micro Stains: Fine pigment particles suspended in water-based silicate solution that penetrates concrete and reacts with calcium hydroxide to lock in color particles.~~
- D. ~~Acid Stain: Reactive solution of one or more metal salts stabilized by acid that produces coloration in a concrete substrate by neutralization of acid followed by precipitation of metal hydroxides or oxides.~~

2.02 ACCESSORIES

- A. ~~Repair Material: A product that is designed to repair cracks and surface imperfections. The specified material must have sufficient bonding capabilities to adhere after the polishing to the concrete surface and provide abrasion resistance equal to or greater than the surrounding concrete substrate.~~
- B. ~~Grout Material: A thin mortar used for filling spaces. Acceptable products shall be:~~
 1. ~~—Epoxy, urethane, polyurea, or polyaspartic resins.~~
 2. ~~—Latex or acrylic binders mixed with cement dust from previous grinding steps.~~
 3. ~~—Silicate binders mixed with cement dust from previous grinding steps.~~

2.03 POLISHING EQUIPMENT

- A. ~~Field Grinding and Polishing Equipment:~~
 1. ~~—A multiple head, counter rotating, walk behind or ride on machine, of various size and weights, with diamond tooling affixed to the head for the purpose of grinding concrete. Excludes janitorial maintenance equipment.~~

2. If dry grinding, honing, or polishing, use dust extraction equipment with flow rate suitable for dust generated, with squeegee attachments to meet OSHA requirements.
 3. If wet grinding, honing, or polishing, use slurry extraction equipment suitable for slurry removal and containment prior to proper disposal.
- B. Edge Grinding and Polishing Equipment: Hand held or walk behind machines which produces the same results, without noticeable differences, as field grinding and polishing equipment.
- C. Burnishing Equipment: High speed walk behind or ride on machines capable of generating 1000 to 2000 revolutions per minute and with sufficient head pressure of not less than 20 pounds to raise floor temperature by 20 degrees F.
- D. Diamond Tooling: Abrasive tools that contain industrial grade diamonds within a bonded matrix (such as metallic, resinous, ceramic, etc) that are attached to rotating heads to refine the concrete substrate.
1. Bonded Abrasive: Abrasive medium that is held within a bonding that erodes away to expose new abrasive medium as it is used.
 2. Metal Bond Tooling: Diamond tooling that contains industrial grade diamonds with a metallic bonded matrix that is attached to rotating heads to refine the concrete substrate. These tools are available in levels of soft, medium, and hard metallic matrices that are matched with contrasting concrete substrates (i.e. hard matrix/soft concrete, medium matrix/medium concrete, soft matrix/hard concrete) and are typically used in the grinding and early honing stages of the polishing process.
 3. Resin Bond Tooling: Diamond tooling that contains industrial grade diamonds within a resinous bonded matrix (poly phenolic, ester phenolic, and thermoplastic phenolic) that is attached to rotating heads to refine the concrete substrate. Resin bond tooling does not have the soft/medium/hard characteristics of metal bond tooling and are typically used for the later honing and polishing stages of the polishing process.
 4. Hybrid Tooling: Diamond tooling that combines metal bond and resin bond that has the characteristics of both types of tooling. These types of tools are typically used as either transitional tooling from metal bond tools to resin bond tools or as a first cut tool on smooth concrete surfaces.
 5. Transitional Tooling: Diamond tooling that is used to refine the scratch pattern of metal bond tooling prior to the application of resin bond tooling in an effort to extend the life of resin bond tooling and to create a better foundation for the polishing process.
 6. Abrasive Pad: An abrasive pad, resembling a typical floor maintenance burnishing pad that has the capability of refining the concrete surface on a microscopic level that may or may not contain industrial grade diamonds. These pads are typically used for the maintenance and/or restoration of previously installed polished concrete flooring.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Acceptance of Surfaces and Conditions:
1. Examine substrates to be polished for compliance with requirements and other conditions affecting performance.
 - a. Concrete finished floor flatness according to applicable Division 03 Section on cast in place concrete.
 - b. Concrete curing methods according to applicable Division 03 Section on cast in place concrete.
 - c. Concrete compressive strength according to applicable Division 03 Section on cast in place concrete.
- B. Proceed only when unsatisfactory conditions have been corrected in a manner complying with Contract Documents.
- C. Starting work within a particular area will be construed as acceptance of surface conditions.

3.02 PREPARATION

- A. Cleaning New Concrete Surfaces:
1. Prepare and clean concrete surfaces.
 2. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form release agents, dust, dirt, grease, oil, paint splatter, and other contaminants incompatible with liquid applied products and polishing.

3.03 COLORING CONCRETE FLOORS

- A. Dye or Pigmented Micro Stain Application:
1. Follow manufacturer's recommendation.

3.04 POLISHING CONCRETE FLOORS

- A. Perform all polishing procedures to ensure a consistent visual appearance from wall to wall.
- B. Initial Grinding:
1. Use grinding equipment with metal or semi metal bonded tooling.
 2. Begin grinding in one direction using sufficient size equipment and diamond tooling to meet specified aggregate exposure class.
 3. Make sequential passes with each pass perpendicular to previous pass using finer grit tool with each pass, up to 100 grit metal bonded tooling.
 4. Achieve maximum refinement with each pass before proceeding to finer grit tools.
 5. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
 6. Continue grinding until aggregate surface exposure matches approved field mock-up.
- C. Treating Surface Imperfections:

1. Mix patching compound or grout material with dust created by grinding operations, manufacturer's tint, or sand to match color of adjacent concrete surfaces.
 2. Fill surface imperfections including, but not limited to, holes, surface damage, small and micro cracks, air holes, pop outs, and voids with grout to eliminate micro pitting in finished work.
 3. Work compound and treatment until color differences between concrete surface and filled surface imperfections, compared to mockup, are not reasonably noticeable when viewed from 20 feet away under lighting conditions that will be present after construction.
- D. Liquid Densifier Application: Apply undiluted to point of rejection, remove excess liquid, and allow curing according to manufacturer's instructions.
- E. Grout Grinding:
1. Use grinding equipment and appropriate grit and bond diamond tooling.
 2. Apply grout, forced into the pore structure of the concrete substrate, to fill surface imperfections.
 3. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
- F. Honing:
1. Use grinding equipment with hybrid or resin bonded tooling.
 - 2.hone concrete in one direction starting with 100 grit tooling and make as many sequential passes as required to remove scratches, each pass perpendicular to previous pass, up to 400 grit tooling reaching maximum refinement with each pass before proceeding to finer grit tooling.
 3. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
- G. Polishing:
1. Use polishing equipment with resin bonded tooling.
 2. Begin polishing in one direction starting with 800 grit tooling.
 3. Make sequential passes with each pass perpendicular to previous pass using finer grit tooling with each pass until the specified level of appearance has been achieved.
 4. Achieve maximum refinement with each pass before proceeding to finer grit pads.
 5. Clean floor thoroughly after each pass using dust extraction equipment properly fitted with squeegee attachment or walk behind auto scrubber suitable to remove all visible loose debris and dust.
 6. Stain Protection: Uniformly apply and remove excessive liquid according to manufacturer's instructions. Final film thickness should be less than .05 mils after cure.
 7. Final Polish: Using burnishing equipment and finest grit abrasive pads, burnish to uniform reflective sheen matching approved field mock-up.
- H. Final Polished Concrete Floor Finish:
1. Aggregate Exposure Class A—Cement Fines: Surface exposure of 85 to 95% cement fines and 5 to 15% fine aggregate based on visual observation of the overall area of the polished floor.
 2. Appearance Level 2—Satin (Honed):
 - a. Procedure: Recommended not less than 4 step process with full refinement of each diamond tool with one application of densifier.
 - b. Measurement: Determine the Image Clarity Value,%, and the Haze Index:
 3. Image Clarity Value, %: An average value of 10 to 39 measured in accordance with ASTM D5767 prior to the application of sealers.
 4. Haze Index: An average value less than 10 measured in accordance with ASTM D4039 prior to the application of sealers.
 5. The minimum number of tests distributed across the polished surface should be three, for areas up to 1000 SF and one additional test for each 1000 SF or fraction thereof. This applies to both the Image Clarity Value and Haze Index.

3.05 PROTECTION

- A. PROTECT polished concrete with protective kraft paper until occupancy. If polished floors are soiled prior to Occupancy, clean and recondition with a cleaner as recommended by the polished concrete system manufacturer.

END OF SECTION 03 35 43

END OF DIVISION 3

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SECTION 08 80 00 – GLASS, GLAZING AND MIRRORS**PART 1 - GENERAL**

1.01 WORK INCLUDED: Provide glass and glazing at windows, doors, sidelights, interior borrowed lites, storefronts and curtainwalls as indicated on the Drawings, as specified herein, and as needed to meet the requirements of the construction. This Section includes glazing sealants and accessories and applies to both field-applied glazing as well as factory-glazed units, as applicable.

- A. Interior glass
- B. Exterior glass
- C. Mirrors
- D. ~~Decorative Glass: Back Painted~~

1.02 RELATED SECTIONS

- A. Section 018113 Certification Requirements.

1.03 DEFINITIONS

- A. GLASS MANUFACTURER: Firm that produces primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. GLASS THICKNESS: Indicated by thickness designations in millimeters per ASTM C 1036
- C. INTERSPACE: Space between lites of an insulating glass unit.

1.04 COORINATION: Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.05 SUBMITTALS:

- A. SUBMIT PRODUCT DATA for each type of product.
- B. SUBMIT SAMPLES for each type of glass product other than clear monolithic vision glass, including tinted, coated, or insulating glass units.
- C. SUBMIT GLAZING SCHEDULE listing glass types and thicknesses for each size opening and location. Use same designations as indicated in the Drawings.
- D. SUBMIT PRODUCT TEST REPORTS for tinted, coated, or insulating glass units for tests performed by a qualified testing agency.

1.06 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS FOR INSULATING GLASS WITH LOW-E SPUTTER-COATING: Utilize a qualified insulating-glass manufacturer who is approved by the coated-glass manufacturer.
- B. INSTALLER QUALIFICATIONS: An experienced installer who has completed glazing similar in material, design, and extent to that indicated for the Project and whose work has resulted in construction with a record of successful in-service performance over a three (3) year period.
- C. DELIVERY, STORAGE, AND HANDLING: Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.
- D. FIELD CONDITIONS
 - 1. ENVIRONMENTAL LIMITATIONS: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 2. DO NOT INSTALL LIQUID GLAZING SEALANTS when ambient and substrate temperature conditions are outside limits permitted by glazing sealant manufacturer or below 40 deg F (4.4 deg C).
- E. WARRANTIES:
 - 1. SPECIAL WARRANTY FOR COATED-GLASS: Manufacturer agrees to replace coated-glass units that deteriorate within the specified Warranty period. Deterioration is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indicates of deterioration in coating.
 - a. WARRANTY PERIOD: Ten (10) years from date of Substantial Completion
 - 2. SPECIAL WARRANTY FOR LAMINATED GLASS: Manufacturer agrees to replace laminated-glass units that deteriorate within the specified warranty period. Deterioration is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standards.
 - a. WARRANTY PERIOD: Ten (10) years from date of Substantial Completion
 - 3. SPECIAL WARRANTY FOR INSULATED GLASS: Manufacturer agrees to replace insulated glass units that deteriorate within the specified Warranty period. Deterioration is defined as failure of hermetic seal under normal use not attributed to glass breakage or to maintaining and cleaning insulated glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture or film on interior-surfaces of glass.
 - a. WARRANTY PERIOD: Ten (10) years from date of Substantial Completion

4. WARRANTY FOR DECORATIVE GLASS

- a. WARRANTY PERIOD: Ten (10) years from date of Substantial Completion

PART 2 - PRODUCTS

2.01 MANUFACTURERS / SOURCE LIMITATIONS: For each glass type and glazing accessory, obtain from a single manufacturer. Approved manufacturers of glass include the following:

- A. AGC
- B. Cardinal
- C. Guardian
- D. Vitro (formerly PPG)
- E. Viracon

2.02 MANUFACTURE OF DECORATIVE GLASS

- A. Basis of Design: McGroery Glass

2.03 PERFORMANCE REQUIREMENTS

- A. PROVIDE GLASS LITES for various size openings in thickness and strengths (heat treated or tempered) required to meet or exceed the following performance criteria. Glass thickness indicated either on the Drawings or within this Specification are minimum requirements and must be verified by analyzing Project loads and in-service conditions.

1. Minimum nominal glass lite thickness: 1/4 inch (6 mm)

2.04 GENERAL PERFORMANCE REQUIREMENTS: Installed glazing must withstand normal thermal movement, wind and impact loads (for operating sash and doors) without failure, including:

- A. loss or glass breakage attributable to defective manufacturer, fabrication, or installation,
- B. failure of sealants or gaskets to remain watertight and airtight,
- C. deterioration of glazing materials, and
- D. other defects in construction.

2.05 STRUCTURAL PERFORMANCE: Glazing must withstand the following design loads within limits and under conditions indicated per the IBC and per ASTM E 1300. Determine wind pressure per ASCE/SEI 7, based on heights above grade as indicated on the Drawings, and as follows:

- A. Basic Wind Speed: 90 mph
- B. Importance Factor: 1.0
- C. Exposure Category: "C" unless higher category is indicated on the Structural Drawings
- D. Minimum uniform wind pressure loading: 25 PSF inward and 25 psf outward.
- E. Probability of Breakeage for Vertical Glazing: 8 lites per 1000 for units set vertically or not more than 15 degrees off vertical and under wind action, with 60 second load duration.
- F. Snow loading (for sloped glazing): 30 PSF minimum or greater if indicated on the Structural Drawings, with a probability of breakage for glass surfaces sloped more than 15 degrees from vertical of not greater than 0.001.
- G. Maximum Lateral Deflection: For glass supported on all four (4) edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or one (1) inch, whichever is less.

2.06 DIFFERENTIAL SHADING: Design glass to resist thermal stresses induced by differential shading within individual glass lites.

2.07 THERMAL MOVEMENTS: Provide glazing that allows for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures acting on glass framing members and glazing components. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

- A. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.08 WINDBORNE DEBRIS IMPACT RESISTANCE: Provide exterior glazing that passes basic protection testing requirements in ASTM E 1996 for Wind Zone 1 when tested according to ASTM E 1886. Test specimens must be no smaller in width and length than glazing indicated for use on the Project and must be installed in same manner as glazing indicated for use on the Project.

- A. Large Missile Test: For glazing located within 30 feet of grade.
- B. Small Missile Test: For glazing located more than 30 feet above grade.

2.09 THERMAL AND OPTICAL PERFORMANCE PROPERTIES: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:

- A. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
- B. For laminated-glass lites, properties are based on products of construction indicated.
- C. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
- D. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
- E. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
- F. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.10 SAFETY GLAZING: Where safety glass is indicated or otherwise required by the building code or AHJ representatives, provide products which comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials.

- A. PERMANENTLY MARK safety glass with certification label of Safety Glazing Certification Council or another certification agency acceptable to AHJ representatives.

2.11 GLASS PRODUCTS

- A. COMPLY WITH published recommendations of glass product manufacturers and organizations indicated below unless more stringent requirements are indicated. Refer to the following for glazing terms not otherwise defined in this Section or in referenced standards:
1. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)
 - a. AAMA GDSG-1: "Glass Design for Sloped Glazing"
 - b. AAMA TIR A7: "Sloped Glazing Guidelines"
 2. INSULATED GLASS MANUFACTURERS ASSOCIATION (IGMA):
 - a. IGMA SIGMA TM-3000: "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use"
 - b. IGMA TB-3001: "Guidelines for Sloped Glazing"
 3. GLASS ASSOCIATION OF NORTH AMERICA (GANA):
 - a. GANA "Glazing Manual"
 - b. GANA "Laminated Glass Design Guide."
- B. ANNEALED CLEAR FLOAT GLASS: ASTM C 1036, Type I, Class I (clear), Quality-Q3, unless otherwise indicated.
- C. HEAT-STRENGTHENED FLOAT GLASS: ASTM C 1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class I (clear) or Class 2 (tinted) as indicated, Quality Q3. Fabricate by horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- D. TEMPERED GLASS: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class I (clear) or Class 2 (tinted) as indicated, Quality-Q3. Fabricate by horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated. Provide tempered glass permanently marked with certification label of Safety Glazing Certification Council or another certification agency acceptable to AHJ representatives.
- E. LAMINATED GLASS: ASTM C 1172, using materials with a proven record of no tendency to bubble, discolor, or to lose physical or mechanical properties after fabrication and installation. Fabricate with polyvinyl butyral interlayer (unless otherwise indicated) to comply with interlayer manufacturer's written instructions, with interlayer in material thickness not less than that needed to comply with requirements, and in clear color unless otherwise indicated. Fabricate laminated glass to produce glass free of foreign substances or air pockets. Laminate lites with polyvinyl butyral interlayer in an autoclave with both heat and pressure.
- F. **INSULATED GLASS (IG) UNITS:** Factory assembled, hermetically sealed assembly consisting typically of two (2) each 1/4 inch thick (6 mm) glass sheets with a 1/2 inch thick desiccant filled tubular aluminum perimeter spacer bar frame all around, dual edge sealed and bonded to both sheets of glass and the spacer bar with manufacturer's standard polysulfide, silicone or hot melt butyl elastomeric sealant (fabricators option):
1. ~~COLOR OF SPACER BARS & SEALANT:~~ Provide clear anodized spacer bar and clear sealant at adjacent clear anodized aluminum framing and provide black colored spacer bar with black sealant at all other colors of adjacent framing.
 2. ~~INTERMEDIATE SPACERS:~~ Provide additional, intermediate spacers to align with surface applied, decorative vertical or horizontal mullions intended to be field applied to the insulated glass unit.

2.12 TYPICAL INSULATED GLASS (IG) UNITS: high performance, clear (non tinted) insulated glass units with the following minimum performance characteristics:

- A. ~~BASIS OF DESIGN:~~ Exterior Basis of Design for performance insulating glass unit as follows:
1. ~~Solarban 60 as manufactured by PPG. (Spandrel glass where indicated)~~
 2. ~~Shading Coefficient: 0.44~~
 3. ~~Solar Heat Gain Coefficient: 0.37.~~
 4. ~~Visible light transmission: 69%~~
 5. ~~Outdoor visible light reflectance: 12%~~
 6. ~~Winter U value: 0.29~~
 7. ~~Summer U value: 0.29~~

2.13 INSULATED SPANDREL GLASS: ~~Low e pyrolytic coating on # 2 surface of silicone coated, heat strengthened or tempered outside lite, with an air or argon filled interspace, and with a heat strengthened or tempered inside lite with an opaque colored coating on the # 4 surface, and as follows:~~

- A. ~~Winter Nighttime U Factor: .29 maximum.~~
- B. ~~Summer Daytime U Factor: .27 maximum.~~

2.14 MIRROR GLASS & ACCESSORIES: 1/4 inch (6 mm) thick Quality q2 clear float glass with full silvered, copper and organic coating and finished with "pencil edge" on all sides. Secure to wall substrate with "Palmer's" Mirror-Mastic or equal to wall backing and provide satin-finish aluminum "L" bar equal to CRL # L902A Type L-Bar" support at base of mirror typically.

2.15 GLAZING SEALANTS:

- A. GENERAL: PROVIDE GLAZING SEALANTS that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience. Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

1. Sealants used inside the weatherproofing system, must have a VOC content of not more than 250 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 2. Exposed Glazing Sealant Colors: As selected by Architect from manufacturer's full range.
- B. GLAZING SEALANT: Elastomeric, neutral-curing silicone sealant complying with ASTM C 920, Type S (single component), Grade NS (nonsag), Class 25, Use NT (non-traffic); specially compounded and tested to show a minimum of 20 years resistance to deterioration in normal glazing applications. Provide at exterior glazing. Subject to compliance with requirements, approved products include the following:
1. Dow Corning Corporation; 790.
 2. GE Advanced Materials - Silicones; SilPruf LM SCS2700.
 3. Pecora Corporation; 890.
 4. Sika Corporation, Construction Products Division; SikaSil-C990.
 5. Tremco Incorporated; Spectrem 1.
- 2.16 GLAZING TAPE: Preformed, back-bedding butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
- A. AAMA 804.3 tape, where indicated.
 - B. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - C. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- 2.17 MISCELLANEOUS GLAZING MATERIALS: Provide cleaners, primers and sealers, setting blocks, spacers and edge blocks of size and shape complying with referenced glazing standards, and with requirements of glass manufacturer for application indicated.
- 2.18 GLASS FABRICATIONS / SYSTEMS:
- A. GLASS SHELVES: Clear, fully tempered uncoated flat glass, and as follows:
 1. Thickness:
 - a. 1/2 inch minimum with 24 inch maximum span
 - b. 3/4 inch minimum with 36 inch maximum span
 2. Edge treatment: Machine ground and polished edges typical all around
 - B. GLASS SHELF CABLE SUPPORT SYSTEM: Approved Manufacturer: NovaDisplay, p: 800-753-9688. Other manufacturers must be submitted as a substitution request per Division-01 requirements for the Architect's approval:
 1. Ceiling-to-Floor Cable: Model CA4, satin chrome finish, lengths and quantities to suit each condition.
 2. Perimeter Shelf Clamp: Model CG13, satin chrome finish, quantities to suit each condition.
 3. Intermediate Shelf Clamp: Model CG23, satin chrome finish (if required), quantities to suit each condition.
- 2.19 FABRICATION:
- A. FABRICATE GLASS AND OTHER GLAZING PRODUCTS in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing standard, to comply with system performance requirements.

PART 3 - EXECUTION

- 3.01 EXAMINE FRAMING, glazing channels, and stops, with Installer present, for compliance with the following:
- A. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - B. Presence and functioning of weep systems.
 - C. Minimum required face and edge clearances.
 - D. Effective sealing between joints of glass-framing members.
 - E. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.02 INSTALLATION
- A. WATERTIGHT AND AIRTIGHT INSTALLATION of each glass product is required, except as otherwise shown. Each installation must withstand normal temperature changes, wind loading, impact loading (for operating sash and doors), without failure including loss or breakage of glass, failure of sealants or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.
 - B. COMPLY with FGMA "Glazing Manual" and manufacturer's instructions and recommendations. Use manufacturer's recommended spacers, blocks, primers, sealers, gaskets and accessories.
 - C. PROVIDE FULLY TEMPERED "SAFETY" GLASS where indicated on the Drawings, in all door units, and within sixty (60) inches horizontally of a door in any position (open or closed), and when a glass lite is within eighteen (18) inches from the finished floor – even if not specifically indicated on the drawings.
 - D. CLEAN GLAZING CHANNEL and other framing members to receive glass, immediately before glazing. Remove coatings which are not firmly bonded to substrate. Remove lacquer from metal surfaces where elastomeric sealants are used.
 - E. INSTALL glass with uniformity of pattern, draw, bow and roller marks. Install sealants to provide complete wetting and bond and to create a substantial wash away from glass. Install pressurized tapes and gaskets to protrude slightly out of channel, so as to eliminate dirt and moisture pockets.
 - F. INSTALL INSULATING GLASS UNITS to comply with recommendations by Sealed Insulating Glass Manufacturers Association, except as otherwise specifically indicated or recommended by glass and sealant manufacturers
 - G. TAPE GLAZING: Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening. Cover vertical framing joints by applying tapes to heads and

sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped.

1. Seal joints in tapes with compatible sealant approved by tape manufacturer.
2. Do not remove release paper from tape until right before each glazing unit is installed.
3. Apply heel bead of elastomeric sealant. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops.
4. Start gasket applications at corners and work toward centers of openings.
5. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.03 PROTECT EXTERIOR GLASS FROM BREAKAGE immediately upon installation, by use of crossed streamers attached to framing and held away from glass. Do not apply markers to surfaces of glass. Remove nonpermanent labels and clean surfaces. Cure sealants for high early strength and durability.

3.04 REMOVE and replace damaged glass and glazing. Wash and polish glass on both faces not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion. Comply with glass product manufacturer's recommendations for final cleaning.

END OF SECTION 08 80 00

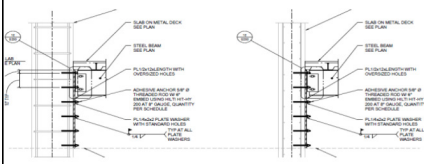
END OF DIVISION 8

THIS SPECIFICATION WAS PREPARED UNDER THE ARCHITECT'S SUPERVISION, AND IS AN INSTRUMENT OF SERVICE INTENDED SOLELY FOR USE BY OUR CLIENT ON THIS PROJECT. THE SPECIFICATIONS ARE PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS - THE AGREEMENT, THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT, AND DIVISION-01 "GENERAL REQUIREMENTS". SECTIONS OF THESE SPECIFICATIONS APPLY TO THE WORK DESCRIBED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS. THE ARCHITECT DISCLAIMS ANY RESPONSIBILITY FOR EXISTING SITE CONDITIONS AND ANY EXISTING BUILDING STRUCTURE OR CONSTRUCTION ELEMENTS, AND FOR ANY DOCUMENTS NOT SIGNED AND SEALED BY THE ARCHITECT. THE INFORMATION, IDEAS AND DESIGNS INDICATED - INCLUDING THE OVERALL FORM, ARRANGEMENT AND COMPOSITION OF SPACES OR BUILDING ELEMENTS - CONSTITUTES THE ORIGINAL, CONFIDENTIAL, AND UNPUBLISHED WORK AND PROPERTY OF THE ARCHITECT. RECEIPT OR POSSESSION OF THIS SPECIFICATION CONFERS NO RIGHT, IN, OR LICENSE TO DISCLOSE TO ANY OTHER THE SUBJECT MATTER CONTAINED HEREIN FOR ANY BUT AUTHORIZED PURPOSES. UNAUTHORIZED REPRODUCTION, DISTRIBUTION OR DISSEMINATION - IN WHOLE OR IN PART - IS STRICTLY PROHIBITED. ALL RIGHTS RESERVED - © 2020 BY HUFFT PROJECTS LLC

Bid RFI Questions

Project: 546 UA Union Infill

Bid Due Date 4/14/2020

#	Question/Description	Received	Discipline	Response	Drawing/Spec Update
1	Procurement and Contracting Requirements pg 76 of 287.1.15. Is the Owner's and Designer's Protective Liability listed the same as the Owner's and Contractor's Protective Liability?	3/26/2020	Arch - Specs	The coverage for all liability insurance should meet the amounts listed in 1.15.B.1. This includes the "Owner's and Designers Protective Liability" as well as the "Owner's and Contractor's Protective Liability". The coverage of these from a policy perspective is they are not the same thing. The policy should cover all parties involved, Owner, Designer, and Contractor, and not exclude any.	
2	Can we get clarification for the below snap shot. These plates call out 1/2"x12"x Length. I need to know if this is referring to the length of the existing column or if they are meaning something else. Please clarify. 	3/26/2020	Structural	The length of plate depends on the number of anchors needed for the connection based on the schedule provided in 11/S200. The connection type is noted where the detail is cut on plan.	
3	Spec Section 08 41 13 specifies for a clear anodized finish while the plans call for a black anodized finish. Please clarify which is needed?	3/26/2020	Arch - Finishes	Black anodized finish	ADD 02
4	Spec Section 08 41 13 specifies interior 1.75" x 4.5" storefront frames which cover and engage the drywall partitions. The head/ jamb detail on A720 shows a more typical interior 1.75" x 4.5" storefront frame installation that does not cover and engage the drywall. Please clarify.	3/26/2020	Arch	Refer to drawings detail on sheet A720.	ADD 02
5	All of storefront doors are listed to have 08 71 00 supplied hardware set 02. It looks like deadbolt lock and flush bolts should be supplied by the storefront contractor (storefront manufacturers' deadlock and flush bolts installed in doors at manufacturers' plant). Will all other hardware for these doors be furnished by 08 71 00 or will any of the hardware also be furnished by the storefront contractor?	3/26/2020	Arch	Prefer Storefront supplier to furnish/provide hardware requiring door to be prepped for. Other hardware can be provided by storefront supplier or other.	
6	Sheet M202 shows six pipes between grid lines m and l and to the right of grid line 7. Please clarify what kind of piping, the sizing and material, and how much it raises.	3/26/2020	Mechanical	BTME Response to #6: See attached markups with sizes and service type of each pipe. Note these are from a 1998 renovation and shall be field verified prior to performing work. Any shut-downs shall be approved by and coordinated with the owner, as this will result in a temporary loss of service. Pipe material shall meet the Division 23 Specs. Elevation shall be as high as possible within structural bay to coordinate around ductwork.	
7	Please see attached substitution request for operable partitions.	3/26/2020	Arch	Approved	
8	Spec Section 08 34 13 Folding Doors page 216 starts off with a typical specification for operable partitions and then on page 217 transitions to a specification for an accordion door. Please clarify.	3/26/2020	Arch	The door is to be an operable partition with folding doors.	
9	Spec Section 05 12 00 1.07 Is the AISC Certification required for the steel erector?	3/26/2020	Structural	Spec section 05 12 00 to be updated in ADD 02, please see new 1.09 QUALITY ASSURANCE for steel fabricators not AISC certified.	ADD 02
10	Spec Section 05 12 00 1.05 calls for LEED submittals. Is this a LEED project?	3/26/2020	Arch	This project is NOT a LEED project. Specifications to be updated accordingly.	ADD 02
11	Sheet A800 FF&E: Indicates the layout for the furniture in the completed space. Is this to be supplied and installed by others? Please clarify.	3/26/2020	Arch - Furniture	Furniture is to be supplied by others and except the barstools in the hallway, level 3, will be installed by the contractor. Contractor is also responsible for connecting power to the open workstations, and installing the TV monitors.	
12	Sheet A610 Space Divider: Is this by the GC including the upholstery? Are the square spaces around the perimeter open? Details are not clear. Please clarify	3/26/2020	Arch - Finishes	GC is to include upholstery, the square openings - metal framing - is open.	
13	Sheet A612 Photo Backdrop Wall: It appears that this wall is double sided mirror image. Where there is not a felt colored panel shown is that space to be left open? Please clarify This may be a means and method issue, but how can a plywood panels that are wrapped with felt be installed back to back without exposing the method of attachment?	3/26/2020	Arch	Where there is no felt panel, that space is open. The 3/4" plywood panels on each side of the metal straps/cross braces to be secured to metal straps with an adhesive. Detail 10/A612 will be updated in an addendum.	ADD 02
14	Upholstery Notes UP1, UP2, and UP3: Are these cushions supplied by the GC or by Owner?	3/26/2020	Arch	General contractor to provide upholstery.	

#	Question/Description	Received	Discipline	Response	Drawing/Spec Update
15	Can there be an additional date or dates for site visits by specific subcontractors bidding the project? It would be advantageous to schedule these late next week if possible.	3/26/2020	Owner	Due to COVID-19 the University is taking measures to limit the number of staff and visitors in the building. The space can no longer be left open but subcontractors can view the space from the hallway but are asked to go in small groups.	
16	How can parking spaces be procured in the adjacent Parking Garage? The monthly rental cost and the amount of spaces allowed would also be helpful.	3/26/2020	Owner	Regarding the Stadium Dr. Parking Garage ("Union Garage"), Spaces cannot be purchased for an extended amount of time. They would have to pay by the hour. Currently \$1.80 will go up to \$1.85 in July. Purchasing a yellow parking permit will allow the user to park anywhere on campus that is designated as a Yellow parking lot. The link that I have provided will show all parking locations and designations. https://parking.uark.edu/parkmap.pdf The permit is good from July-June and will be prorated according to which month it is purchased in. There are also free off campus parking options that are available. Example Baum Stadium East parking lot or off of Beechwood Ave. both are in close proximity to each other south of the university main campus.	
17	During the Pre-Bid Conference there was mention of a possible virtual bid opening. Is that a possibility?	3/30/2020	Owner	The following is direction from the UA about the bid opening: "Due to the COVID-19 pandemic, the bid-opening will be a closed meeting taking place at the University of Arkansas Facilities Management building. We will provide a web conference meeting through Microsoft Teams if you would like to "virtually attend" the bid-opening session. Please see link below to access at the suggested time and date. Bids are now to be mailed or delivered to University of Arkansas Facilities Management, 521 South Razorback Road, Fayetteville, AR 72701, attention Mr. James Ezell. There are no changes to the time or date in which the owner will receive bids." Meeting Link (copy into internet browser): https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzMOmJhNzMTZmMS00OGQ4LWJmMWQ4tMzJlMmYiYzI0Mjdk%40thread.v2/0?context=%7b%22Tid%22%3a%2279c742c4-e61c-4fa5-be89-a3cb566a80d1%22%2c%22Oid%22%3a%22711a724f-d455-487f-a513-603822e7e121%22%7d +1 479-431-0936 United States, Fort Smith (Toll) Conference ID: 840 300 979#	
18	Are there any alternatives being considered on how bids will be received aside from the instructions in the Project Manual Section 00 11 16?	3/30/2020	Arch	Please see response above, #17. If there is any concern or issues with this please reach out to Emily McVey at Hufft.	
19	Is MC is the walls acceptable?	4/2/2020	Electrical	Per specification 26 05 33 – 3.01.B.4, raceway products in	
20	Is daisy chaining light fixtures acceptable?	4/2/2020	Electrical	ceilings and interior wall partitions shall be EMT.	
21	Spec Section 26 05 33 – 3.B states conduit in mechanical rooms is to be GRC. Please confirm that is applies to this project.	4/2/2020	Mechanical	Yes, it does.	
22	Please confirm that data, fire alarm, access controls, and cctv are CFCI.	4/2/2020	Electrical	All rough-ins, cabling and final outlets are provided and installed by the contractor. Fire alarm, access controls, and CCTV are all supplied and installed by Triple S as part of their IDIQ agreement with the University. Triple S shall be used as a subcontractor to either the GC or the EC for this project, and their cost shall be included as a contractor provided and installed service as part of the bid from the	
23	Sheet A710, door schedule calls for doors 381.1 and 380.1 to be 5' 5 1/2" and call out for a single door frame, but on sheet A103 the floor plan shows a pair of doors and frames with sidelites. Please	4/2/2020	Arch	Door 381.1 is to be a pair of 2'-8" doors and part of the storefront system. Door 380.1 is to be a pair of 2'-9" doors and match the	
24	Spec Section 08 80 00 calls for insulated units, decorative glazing, impact glass and 6mm glazing. The framing call out in spec 08 41 13 (Kawneer 400) will except 1/4". Which glazing is to be used? Please direct as to where the decorative glazing is.	4/2/2020	Arch	Standard 1/4" glass for all storefront and doors is to be used.	ADD 03
25	If this is a LEED certified project. What level?	4/2/2020	Arch	This project is not LEED certified.	
26	If this is a LEED certified project. Will lumber/ plywood for in wall backing need to be FSC certified?	4/2/2020	Arch	This project is not LEED certified.	
27	Will as built drawings be posted?	4/2/2020	Arch	As built drawings will not be available.	

#	Question/Description	Received	Discipline	Response	Drawing/Spec Update
28	Substitution request for USG acoustical ceiling products. Please see attached.	4/2/2020	Arch	Yes, this is an approved substitution. USG Donn Centricitee DXT and USG Mars Climaplus #86985	
29	There is a metal stud wall that has laminate on both sides. Can we build the walls ourselves (millwork subcontractor) as it is easier to attach the laminated panels to the wall and we can make the panels removable with wire chases for electric easily. Is that acceptable?	4/2/2020	Arch	For clarification the metal stud walls with laminate are the low support walls at the reception desk and Card Office U shaped desk. That is acceptable, we will require this work to be in the shop drawings for review and the walls are still reinforced/braced per the	
30	Will this be a LEED Certified Project?	4/2/2020	Arch	This project is not LEED certified.	
31	If so what level are they wanting to achieve?	4/2/2020	Arch	This project is not LEED certified.	
32	If this will be a LEED certified project will Lumber / plywood for in wall backing need to be FSC certified?	4/2/2020	Arch	This project is not LEED certified.	
33	If there will not be a pre bid job walk will As Built drawings be posted?	4/2/2020	Arch	As built drawings will not be available.	
34	I have Substitution Request Forms for USG acoustical ceiling products comparable to the product listed in the finish schedule but for some reason Building Connected won't send this when they are attached. I will send them in a separate email.	4/2/2020	Arch	Yes, this is an approved substitution. USG Donn Centricitee DXT and USG Mars Climaplus #86985	
35	Will we be able to use the existing electrical and water services?	4/2/2020	MEP	New panelboards will be connected to existing distribution switchboard SDBA, all new connections to circuits within the finished out spaces shall be via new panelboards in spaces as indicated on drawings. The existing service entrance electrical equipment for the building will remain in place and is not affected by this work. This service entrance equipment feeds existing distribution switchboard SDBA. New water line to new fixture will be added by tapping into an existing line in the interior of the building. Existing water service to building will not be affected.	
36	Where will we be able to locate a dumpster and staging area?	4/2/2020	Arch	There is space directly south of the building that can be used for staging. Locations for dumpsters will need to be accessible from Garland Ave or the side street west of the Union building. There is ample space to the west of the building and is the recommended location but a final location will be determined with the owners before construction starts.	
37	Contained in the specifications there is Concrete Specifications: 03 3000 Architectural Concrete, 03 3300 Seal Concrete Finishes, and 03 3543 Polished Concrete Finishing. I don't see these items indicated on the floor finish schedules or floor plans. Are these items required? If so, where?	4/2/2020	Arch	There is no sealed or polished concrete. The section will be removed in an addendum.	ADD 03
38	The signage specs state the following so I'm assuming signage is not included in the bid: SECTION 10 14 00 - SIGNAGE GENERAL 1.01 PROVIDE signage to comply with requirements indicated for manufacturing process, material finishes, style, size and message content, as specified herein, and as required for a complete and proper installation. Types of signage required include to the following: A. ADA Door Signs for 1. Exits 2. ALL rooms B. Fire / smoke wall or partition signs 1.02 SEPARATE CONTRACT: The Owner will arrange for the following signage to be provided by others:	4/2/2020	Arch	The room signage is to be provided by the GC. This is included in the ADA Door Signs, 2. ALL rooms.	