

UNIVERSITY OF KENTUCKY Purchasing Division

INVITATION FOR BIDS: CCK-2622-22

RENEW/MODERNIZE FRAZEE HALL

Bid Package 03 – Core & Shell

Project #2511.8

ADDENDUM # 3

April 26th, 2022

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT:

BID AND ADDENDUM MUST BE RECEIVED BY: 05/03/2022 @ 3:00 P.M. LEXINGTON, KY TIME.

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

Bidders shall conform to the following clarifications, corrections and changes, as same shall become binding on the Contract to be issued in response to this Invitation for Bids. Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject Bidder to disqualification.

1. **Clarification to Subcontract All Work Categories:** Please see the attached answers to bid questions 1-44. The Bid Amount shall include the cost to provide this scope.
2. **Clarification to Subcontract WC 03A:** Please see attached Sketch on drawing S200 showing the approximate depth of crawlspace infill. This shall be used in reference to the response provided for bid question #16. The Bid Amount shall include the cost to provide this scope.
3. **Clarification to Subcontract All Work Categories:** Please see the attached document from Lord Aeck Sargent which provides general clarification to MEP items, answers to substitution requests and updated specification sections. The Bid Amount shall include the cost to provide this scope.
4. **Clarification to Subcontract WC 01B:** Work Category 01B has been updated in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.
5. **Clarification to Subcontract WC 02B:** Work Category 02B has been updated in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.
6. **Clarification to Subcontract WC 03A:** Work Category 03A has been updated in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.
7. **Clarification to Subcontract WC 07B:** Work Category 07B has been updated in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.
8. **Clarification to Subcontract WC 31A:** Work Category 31A has been updated in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.
9. **Added Subcontract WC 32A:** Work Category 32A has been added in addendum #3 and should be used for bid submission. Bid Amount shall include the cost to provide this scope.

University of Kentucky
Purchasing Division
322 Peterson Service Building
Lexington, KY 40506-0005

INVITATION FOR BIDS: CCK-2622-22
RENEW/MODERNIZE FRAZEE HALL
Bid Package 3 – Core & Shell
Project #2511.8
ADDENDUM # 3
APRIL 26, 2022

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

Ken Scott 04/26/2022

Ken Scott / (859) 257-9102

SIGNATURE

Typed or Printed Name

End of Addendum #3



UNIVERSITY OF KENTUCKY

Purchasing Division

Written Questions and Answers

CCK-2622-22

Project# 2511.8

Renew/Modernize Frazee Hall

****Updated 04/14/2022 – Added questions 28 – 36****

****Updated 04/19/2022 – Added questions 37 – 43****

****Updated 04/26/2022 – Added question 44****

No.	Question		Answer
1.	<p>Please clarify which trade package is responsible for site utility tap fees.</p> <p>Since project is a renovation can the tap fees be by an allowance? Tap fees can be difficult to access or get priced when project is a renovation.</p>	WT	<p>Tap Fees are not anticipated due to utilities being existing or owned by UK. If it is determined that tap fees are required after bid time this will be treated as a change condition.</p>
2.	<p>FCU Controls: Per the mechanical drawing H400, we have a system flow diagram where we have found a reference for the FCU unit's hot water coil. However, we have not found these FCUs in the provided floor plans and these FCUs are not part of provided mechanical schedule. Should we exclude furnishing controls for FCUs from the estimate?</p>	S&F	<p>There are no fan coils in this project. Do not include control for them.</p>
3.	<p>AHU and VAV Controls: Per the DDC spec section 23 09 00-23, we have a point list of furnishing controls for AHUs and VAVs. However, these AHUs and VAVs are not part of provided floor plans and mechanical schedules. Should we exclude furnishing controls for AHUs and VAVs from the estimate?</p>	S&F	<p>This is the UK Standard specification. Only include controls for work that is shown on the drawings.</p>

4.	Can we use Victaulic valves, wye strainers, balance valves, butterfly valves and check valves on the chilled water and heating water systems?	S&F	Yes as long as they meet the specified pressures.
5.	Please clarify the insurance requirements on this project	WT/ UK	Insurance requirements can be found in Exhibit A of the Whiting-Turner Subcontract Agreement which is included in the bid documents.
6.	Please advise if the flash track shown on print H400 flow chart is new or existing?	S&F	It is new.
7.	Does this project have a sewer tap fee? Which trade package to carry the cost of the sewer tap fee WC23A or WC31A?	WT	Tap Fees are not anticipated due to utilities being existing or owned by UK. If it is determined that tap fees are required after bid time this will be treated as a change condition.
8.	Does this project have any domestic water and fire protection fees or expenses? Which trade package to carry these costs WC23A, WC21A, WC31A?	S&F/ WT	The domestic water line is existing to remain and should not have any fees or expenses. The fire protection lines are owned and managed by UK and will not require any fees.
9.	Who pays the cost for the temporary water supplied to the project? Owner, WC31A, WC23A or Whiting Turner?	WT	Trade Contract 31A shall provide a temporary metered water connection for all construction activities per specific scope item #33. As instructed 31A shall cover all costs of water usage.
10.	In looking through the specs- I don't see any mention of limit stops. Are there to be limit stops used? If so, what's the height allowance?	LAS	No limit stops to be used. Operable windows are contributing to the fresh air strategy for the building.
11.	I don't see any mention of class 5 balances. Could you specify the exact hardware you're looking for on operable windows.	LAS	Provide standard hardware for windows according to Basis of Design style options provided in the specifications.
12.	I don't see any mention of class 5 balances. Could you specify the exact hardware you're looking for on operable windows.	LAS	Duplicate question, see response to question #11.
13.	There are 2 existing panels that we need to provide breakers for in the Student Center. What type of panels are these?	S&F	They are GE A-Series II.
14.	Will combination bids be accepted?	WT/ UK	Combination bids will not be accepted in this bid package.
15.	Would the CM consider modifying TC scopes to include hardscapes/site concrete in TC-03A?	WT	After further consideration, the scope for Hardscape & Landscape will be made into its own bid package, Trade Contract 32A. It will also become a required add alternate for Trade Contract 31A and be available as an optional combined bid for 03A & 32A.

16.	TC-03A #7: Plans do not show extent or dimensions of voids/crawlspaces that require fill. For bidding purposes, could the amount of required fill be quantified or the approximate dimensions provided?	WT/ LAS/ BK	See the attached markup of drawing S200 showing the approximate dimensions. Trade Contractor 03A shall include enough fill for these areas (taking into account compaction rate) and include an additional 15% of compacted fill by volume as a contingency. If more fill is required, it shall be treated as a change condition.
17.	Please define weekly composite crew hours. Will this be full-time, as needed, or 8hr per week?	WT	Composite crews will be used only as needed if housekeeping is not deemed to be acceptable by the Construction Manager.
18.	Traffic control is "as needed" per TC scope and not a full-time requirement?	WT	Traffic Control is required on an as-needed basis for all Trade Contracts with the exception of 01B. 01B shall provide a dedicated flagman for traffic control needs as directed by the Construction Manager.
19.	Dumpsters are not listed in any TC scope. Will each TC be responsible for their own on-site dumpster or haul off?	WT	Dumpster service for general construction waste will continue to be provided by the existing TC-01A contract. Specific dumpsters for demolition waste, concrete waste/washdown shall be provided as required by the specific scopes of work.
20.	Spec 064900 notes that existing paint contains lead. TC- 01B #11 & #12 state to "scape/paint" existing items. Considering this, bidding contractors will be required to perform abatement. Please verify the CM intends for an abatement to be performed and the schedule is accommodating to perform abatement as no other work can take place in proximity during this time.	WT	WC02B shall include an allowance of \$20,000 to retest paint and remove/remediate any lead paint that is identified. This shall be done prior to and independent of any scraping/painting that must be done by TC-01B. TC-01B should still assume scraping/sanding all surfaces specified to prepare them for repainting in the case that they are not identified as lead based paint.
21.	Spec 062000 required AWI certification. Considering the budget, scope of work under this spec, and the minimal number of regional AWI certified firms, can certification be waived in lieu of work done in accordance with AWI/AWS/NAAWS standards?	LAS	Yes.
22.	TC-01B #17: Please define location of pipe column repairs and scope of work for repairs as no details are listed in the plans	BK	Section A/S406 details a new weld between the existing pipe columns and the existing supports at each elevated floor. This scope shall be the responsibility of Trade Contractor 01B.
23.	TC-01B #27: Please provide a spec, detail, or basis of design for precast concrete stair treads.	LAS/ BK	Refer to spec section 05 51 00, 2.03 METAL STAIRS WITH CONCRETE TREADS.
24.	TC-01B #28: Do temporary wood treads and landings have any requirements for load, safety, or size?	LAS/ BK	Temporary wood treads should generally match sizes shown in details on Sheet A304. OSHA

			Scaffold Planks should be used. Final treads will be installed in the Interior Fit-Up phase. Landings should be filled with wood sleepers made from standard lumber and topped with subfloor sheathing to match the sheathing being installed throughout the existing building.
25.	TC-01B #25: Is the tile to be installed only at the exterior side of both entrances?	LAS	Yes. For this scope of work, tile will be installed at exterior side of entries only.
26.	A605 Note F and Spec 061000 refer to fire rated blocking/lumber. Is FR lumber required in any location other than in-wall blocking?	LAS	No, it is only required in in-wall blocking.
27.	Spec section 23 00 00-2 says temperature controls should be an allowance but our scope of work calls for a complete control system. Is the allowance just a typo?	S&F	There should be NO allowance for temperature controls. Trade Contractor 23A shall provide a complete controls system per the requirements of the contract documents.
28.	Who protects the existing glass handrails called out on LH 101.	WT/ LAS	This is included in specific scope item #20 in TC-01B. These are the same glass railings as shown on C-103 – Note 1.
29.	Wood blocking shown in details on A605, A606 and A607 is furnish and install by what Trade Contract?	WT	All blocking shown on A605, A606 & A607 shall be provided and installed by TC-08B – Glass & Glazing.
30.	Is there project mock up elevation showing curtainwall size and configuration?	UK/ WT/ LAS	Due to limited space available on site, mockups can be provided in place. Architect will observe work and determine if mock-up can remain as a part of the finished product.
31.	Will the panning and windows be different Kynar colors?	LAS	Panning, trim and frame will be one color, window sashes will be a second color. Refer to drawings and specifications for details.
32.	Is there aluminum window in the project mock up? And if so what size?	UK/ WT/ LAS	Due to limited space available on site, mockups can be provided in place. Architect will observe work and determine if mock-up can remain as a part of the finished product.
33.	The aluminum window details shown on A605, A606 and A607 is showing aluminum windows installing into window panning from the interior (industry standard) with 2 piece snap trim securing window in place (industry standard) behind the existing wood trim which you can't snap the trim together unless existing wood trim is	LAS/ WT	The intent is for the windows to be installed from the exterior so that interior window trim does not have to be removed during this phase of work.

	removed or pulling window out or down to fit between existing wood trim, which would require more wood blocking and different exterior panning, please advise.		
34.	Do we need to provide a bid bond for this project?	UK	Yes, a Bid Bond will be required.
35.	Please provide a vertical dimension for the smoke baffles shown on Sheet A301 and detailed on Sheet A305. The tag note references Spec 079710 but there is no spec provided. Are there specifications for this assembly?	LAS	Refer to Section 07 87 10 Smoke Baffles. Note reference is a typo that will be revised on the Construction Set of Documents.
36.	Window type H is shown on the window elevations and is tagged as 085113 Aluminum Window. It is not shown on the window schedule. The building elevation A201 and A202 calls this out as Architectural Woodwork. The Demo plan AD201 and AD202 call these out as Existing to Remain. A204 and AD204 provide no instruction as to what this is or what to do with it. Please clarify the intent and construct of this item.	LAS	Window type H is an existing window that will remain in place. Window Schedule includes new windows only. Per Note 1 on sheet A604, (Trade Contractor 01B shall) clean, scrape and paint window trim/ frame. Keynote 08 5113.AWC1 indicates the color the trim is to be painted (to match the aluminum window color 1, see Note 2 on Sheet A604).
37	On Dwg H-402 the valve schedule is calling out Belimo Brand Control Valves; Both Segmented for steam and Butterfly for CW & HW. I have not found a control valve spec in the spec volume that is applicable.	S&F	Valves equivalent to Belimo scheduled will be acceptable.
38	Will Bray Brand valves be accepted?	S&F	Any valve that meets the specification requirements will be acceptable.
39	There appear to be no segmented control valves made in ¾". Will Vee-Port Ball Valves (Rated for 100 PSI Steam) be Accepted?	S&F	Yes.
40	We also need to provide 2 breakers for 2 separate panels existing in the Student Center. Do we know what type	S&F	They are GE A-Series II.

	of panels they are? This will be important for pricing and lead times.		
41	Are the drop ceilings being removed to leave the ceilings open and staying open?	LAS	Yes, all ceilings are being removed other than what is shown specifically in the documents.
42	Do they still want all conduit surface mounted on existing walls?	S&F/ LAS	Yes. Conduit locations to be coordinated with Engineer and Architect.
43	Is there a specific area where they want us to run our conduits up to other floors from the panels on the ground floor, i.e. a chase etc.?	S&F	There are a few vertical chases going through the building that can be utilized, specifically between rooms 003 and 007 on the ground floor. Penetrations are to be minimally invasive for future fit up work.
44	Under special conditions, article 42, mentions Inland Marine Policy for \$20M. This is normally not required for this type of project. Can you confirm if this will be required or not.	UK	If cranes or rigging will be used, the inland marine policy is required.

PROJECT NAME

University of Kentucky
2511.8 Renew/Modernize Facilities
(Frazee Hall)

PROJECT NO.

11396-00

CONTRACTOR

Whiting-Turner

DATE OF INSTRUCTION

April 26, 2022

OWNER

University of Kentucky

DOCUMENT NUMBER

Addendum #3

GENERAL DESCRIPTION AND REMARKS

This addendum forms a part of the Contract Documents and modifies the original Construction Documents previously issued as noted below.

This addendum consists of 32 pages, and the attachments listed below, all with a revision date of 4/26/2022, unless otherwise noted. Drawings listed herewith and attached indicate revisions with clouds. Modifications to documents included in this addendum are primarily related to the following:

1. Answers to Bidders Questions
2. Substitution requests
3. MEP Clarification items.

The documents stated herein revise or modify the reference specification or drawing noted.

GENERAL CLARIFICATIONS

MECHANICAL

Specifications:

1. Pressure-sealed joints/fittings are not allowed on plumbing or hydronic systems.

ELECTRICAL

Specifications:

1. Refer to specification section 262416: Replace this specification section with the attached section. Note the addition of adjustable trip overcurrent protection devices for power panelboards to allow for coordination of trip settings per the required studies.

Drawings:

1. Refer to Sheet U100, coded note #24. Note should refer to light fixture type OLF-1, not OLF-2.
2. Refer to Sheet U101, coded note #13. Note should refer to light fixture type OLF-1, not OLF-2.



MODIFICATIONS TO THE SPECIFICATIONS (In modified specifications, new text is indicated by underlining and deleted text is stricken through.)

Section #:	Title	Date
07 21 00	Board & Batt Insulation	4/26/2022
07 25 10	Liquid Applied Membrane	4/26/2022
08 44 12	Glazed Aluminum Curtain Walls	4/26/2022
26 24 16	Panelboards	4/26/2022

MODIFICATIONS TO THE DRAWINGS

Sheet#:	Title	Date
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INSTRUCTIONS BY

Elisabeth Hunt

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COPY: **UK, Whiting-Turner, LAS**



PROJECT NAME

**University of Kentucky
2511.8 Renew/Modernize Facilities
(Frazee Hall)**

PROJECT NO.

11396-00

DATE OF MEMO

April 26, 2022

TIME

N/A

DISTRIBUTION

**Ken Scott, UK Procurement Manager
Sandy Redmon, Project Manager, UK CPMD
Chelsea Handling, Capital Construction
Coordinator, UK CPMD**

COPY

Karen Gravel, Whiting-Turner team

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VIA: **Email**

ITEMS

- **Substitution Request 01: Specification 07 11 13 Bituminous Damp-Proofing**
 - o **Henry, HE789 FIB Asphalt Emulsion Dampproofing: REJECTED, does not meet ASTM requirements as outlined in the specifications.**
- **Substitution Request 02: Specification 07 25 10 Liquid Applied Membrane**
 - o **Henry, AirBloc 17MR: ACCEPTED, included in Addendum #3 Specification 07 25 10 Section 2.02.**
 - o **Note: Install correct application rate/ coverage according to the surface on which it's installed.**
- **Substitution Request 03: Specification 07 25 10 Liquid Applied Membrane**
 - o **W.R. Meadows, Sealtight: REJECTED, does not meet application rate and coverage requirements per Section 2.02.**
- **Substitution Request 04: Specification 07 21 00 Board and Batt Insulation**
 - o **Hunter Continuous Insulation – Hunter Panels, Xci Foil and Xci CG: ACCEPTED, included in Addendum #3 Specification 07 21 00 Section 2.02, B.**
- **Substitution Request 05: Specification 08 44 12 Glazed Aluminum Curtain Walls**
 - o **Tubelite, 400 Series Curtainwall: ACCEPTED, included in Addendum #3 Specification 08 44 12 Sections 2.02, 2.03 and 2.04**



SECTION 07 21 00 - BOARD AND BATT INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Expanded (molded) Polystyrene Board Insulation on:
 - 1. Perimeter foundation walls.
 - 2. Underside of floor slabs.
- B. Polyisocyanurate Board Insulation:
 - 1. Exterior walls, beneath cladding.
- C. Rigid (semi-rigid) Fiber Board Insulation.
- D. Batt/Blanket Insulation in:
 - 1. Metal stud walls.

1.02 REFERENCES

- A. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2019.
- B. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2019.
- C. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation; 2014 (Reapproved 2019).
- D. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.
- E. ASTM C795 - Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel; 2008 (Reapproved 2018).
- F. ASTM D1621 - Standard Test Method for Compressive Properties Of Rigid Cellular Plastics; 2016.
- G. ASTM E136 - Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C; 2019a.
- H. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2019b.
- I. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2016.
- J. ICC (IBC)-2015 - International Building Code; 2015.
- K. ICC (IBC)-2018 - International Building Code; 2018.
- L. ICC (IRC)-2018 - International Residential Code for One- and Two-Family Dwellings; 2018.
- M. ICC-ES AC239 - Acceptance Criteria for Termite-Resistant Foam Plastic; 2008, with Editorial Revision (2014).

1.03 SUBMITTALS

- A. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
- B. Shop Drawings:
 - 1. Illustrate fastener spacing and pattern for securing rigid insulation materials. Coordinate and show fasteners for other materials that penetrate insulation, such as cladding anchors.

1.04 ENVIRONMENTAL REQUIREMENTS

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 SUBSTITUTIONS

- A. Refer to Section 01 60 00 - Product Requirements.

2.02 FOAM PLASTIC BOARD INSULATION MATERIALS

- A. Expanded Polystyrene Board Insulation: ASTM C578; Molded, closed cell, expanded polystyrene board; with the following characteristics:
1. Board Thickness: As indicated on the drawings.
 2. Board Edges: Square.
 3. Surface Burning Characteristics of the insulation and facings tested separately: Flame spread / smoke developed index not greater than 25/450; ASTM E84.
 4. Under floor slabs: 60 psi compressive strength.
 5. Vertical application:
 - a. Between 0 and 8 feet below grade: At least 25 psi compressive strength (Type IX).
 - b. Between 8 and 12 feet below grade: At least 40 psi compressive strength (Type XIV).
 - c. Between 12 and 16 feet below grade: At least 60 psi compressive strength (Type XV).
 6. Termite Resistance of board in contact with soil or within 8 inches of soil or grade: Compliant with ICC-ES AC239; approved for use in accordance with ICC (IBC)-2018 2603.8 without restriction, and ICC (IRC)-2018 R318.4, and as demonstrated by current Evaluation Service Report (ESR).
 - a. Product: AFM Corporation Foam-Control with Perform Guard2 in regions where Formosan termites are active; www.foam-control.com
 - b. Product: AFM Corporation Foam-Control with Perform Guard in regions where Formosan termites are not active; www.foam-control.com
 - c. Product: AFM Corporation Bora-Foam.
 - d. Product: Atlas EPS ThermalStar X Grade in regions where Formosan termites are active; www.foam-control.com
 - e. Product: Atlas EPS X Grade TalonGuard in regions where Formosan termites are not active; www.foam-control.com
 - f. Product: Cellofoam Perma BG+ www.cellofoam.com.
 7. Labeling: Each piece of termite-resistant board shall be labeled to indicate compliance.
 8. Adhesive: Type recommended by insulation manufacturer for application.
- B. Polyisocyanurate Board Insulation: Rigid cellular foam, complying with ASTM C1289.
1. General:
 - a. Board Thickness: As indicated on the drawings.
 - b. Surface Burning Characteristics of the insulation and facings tested separately: Flame spread / smoke developed index not greater than 25/450; ASTM E84.
 - c. Labeling: Packaging, containers, and insulation shall be labeled as required by ICC (IBC)-2015 / ICC (IBC)-2018 2603.2.
 - 1) Each piece of insulation shall be labeled as required by ICC (IBC)-2015 / ICC (IBC)-2018 2603.5.6.
 - d. Exterior Wall Assemblies: Approved for use by ICC Evaluation Service for Type I, II, III and IV Construction and assemblies of the type employed on this project.
 2. Board for use in or on Exterior Walls:
 - a. Tested and meeting the acceptance criteria per ICC (IBC)-2015 / ICC (IBC)-2018 2603.5, including NFPA 285, for Type I-IV Construction.
 3. Foil Faced Board:
 - a. Foil facers; product with perm rating of less than 0.1 perm ASTM E96/E96M.
 - b. Compressive Strength, ASTM D1621: Not less than 25 psi.
 - c. Acceptable Product:
 - 1) Atlas Roofing Corporation EnergyShield Pro.
 - 2) Atlas Roofing Corporation EnergyShield Pro2.

- 3) DuPont de Nemours, Inc. Thermax (ci) Exterior Insulation.
- 4) DuPont de Nemours, Inc. Thermax Xarmor (ci) Exterior Insulation.
- 5) DuPont de Nemours, Inc. Thermax Heavy Duty.
- 6) DuPont de Nemours, Inc. Thermax White Finish.
- 7) R Max ECOMAXci FR (TSX-8500).
- 8) Hunter. Xci CG
- 9) Hunter. Xci Foil
4. Insulation Joint Tape for Exterior Walls: Provide insulation manufacturer's recommended board joint tape for sealing joints, seams and cladding anchor penetrations through the insulation layer. HDPE facer with butyl rubber adhesive; 20 mil nominal thickness.
 - a. 4-inch-width for insulation board joints.
 - b. For framing faces up to 2 inches wide, use 4-inch-wide tape. For framing faces up to 4 inches wide, use 6-inch-wide tape. For other project conditions, use 9 or 12-inch-wide material as necessary.
 - c. Acceptable Products:
 - 1) DuPont Weathermate Straight Flashing; high-density polyethylene (HDPE) film facer with butyl rubber adhesive.
 - 2) DuPont Flashing Tape; polypropylene-butyl laminate, 20 mils thick.
 - 3) Typar Butyl Flashing, 20 mils thick.
5. Sheathing Tape for Exterior Walls: High-strength, permanent acrylic adhesive, sheathing tape.
 - a. Acceptable Products:
 - 1) DuPont Weathermate Construction Tape.
 - 2) DuPont Tyvek Contractor Tape.
 - 3) Typar Construction Tape.
6. Insulation Fasteners: Provide insulated sheathing manufacturer's recommended organic-polymer or other corrosion-protective coated steel screw fasteners for anchoring sheathing to wood studs, metal studs, or masonry and cementitious substrates as applicable. Provide plastic insulation retainer head 1-3/4 to 2 inch diameter. Fastener length and size based on wall sheathing thickness.
 - a. Acceptable Manufacturers:
 - 1) Wind-lock Corporation; www.wind-lock.com.
 - 2) Rodenhouse; www.rodenhouse-inc.com.
 - 3) Hunter
 - i. Coordinate with metal panel assembly attachment.
7. Edge Closure: Cold-formed metal channel; unequal leg 2 inch by insulation thickness by 1-1/2 inch and other configurations as required by Project conditions; Type 304 stainless steel; 0.0375 inch thick.

2.03 FIBER BOARD INSULATION MATERIALS

- A. Mineral Fiber Board Insulation- Exterior Cladding Use: Rigid mineral fiber made from rock or slag, ASTM C612.
 1. Unfaced.
 2. Combustibility, ASTM E136: Non-combustible.
 3. Flame spread index, ASTM E84: Zero.
 4. Smoke Developed Index, ASTM E84: Zero.
 5. Corrosiveness to steel, ASTM C665: Non-corrosive.
 6. Corrosiveness to stainless steel, ASTM C795: Pass.
 7. Water vapor transmission, ASTM E96/E96M: 27 perms or greater.
 8. Moisture sorption, ASTM C 1104: 0.03% - 0.07%.
 9. Board Thickness: As shown on the drawings.
 10. Manufactured for specific use as insulation in moist or wet cladding cavity applications.
 11. Products:
 - a. "CavityRock DD"; Roxul: www.roxul.com.
 - 1) Density, ASTM C612: 6.2 pcf outer layer, 4.1 pcf inner layer.

- b. "CavityRock MD"; Roxul: www.roxul.com.
 - 1) Density, ASTM C612: 4.4 pcf.
 - c. "RainBarrier 45"; Thermafiber, Inc: www.thermafiber.com.
 - 1) Density, ASTM C612: 4.5 pcf.
- B. Fiber Board Insulation Fasteners:
- 1. Corrosion-resistant (corrosion resistance equal to or greater than Galvalume) screw fastener plus 3-inch-diameter Galvalume or plastic plate-type washer:
 - a. OMG Roofing Products.
 - b. SFS Intec.
 - c. Trufast.

2.04 BATT/BLANKET INSULATION MATERIALS

- A. Batt/Blanket Insulation: ASTM C665; friction fit, conforming to the following:
- 1. Material: Preformed mineral wool batt/blanket made from rock or slag.
 - 2. Unfaced.
 - 3. Surface Burning Characteristics of insulation when tested without facing: Flame spread/Smoke developed index not more than 25/450, when tested in accordance with ASTM E 84.
 - 4. Width of Batt/Blankets: Sized for tight friction fit between faces of studs without sagging or slumping. As recommended for underside of metal deck.
 - 5. Depth of Batt/Blankets: Fill the full depth of framing cavity with insulation, leaving no air gap from interior face of gypsum wallboard to interior face of sheathing, unless a specific depth of insulation is dimensioned on the Drawings.
 - 6. Depth of Mineral Wool Batts installed in Stud Walls / minimum rated R-value:
 - a. 2x6 steel studs: R-23, 6".
 - b. 2x8 steel studs: R-23, 6" batt plus an R-7, 2" batt.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation .
- B. Verify substrate surfaces are flat, free of honeycomb, fins, or irregularities.

3.02 POLYSTYRENE BOARD INSTALLATION AT FOUNDATION PERIMETER

- A. Apply adhesive to back of boards:
- 1. Apply a continuous bead 1 to 2 inches from the perimeter of each board plus an "X" running from corner to corner.
- B. Install boards horizontally on foundation perimeter.
- C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.03 POLYISOCYANURATE BOARD INSTALLATION ON OUTSIDE FACE OF EXTERIOR WALLS

- A. Provide edge closure channels at:
- 1. Doors, windows, and other openings through insulation.
 - 2. Where insulation starts and stops (tops, bottoms, and sides of insulation abutting dissimilar materials or terminating the insulation).
 - 3. At inside and outside corners.
- B. Install insulation in accordance with manufacturer's recommendations.
- 1. Space fasteners at not more than 12 inches o.c. at panel perimeter and 16 inches o.c. in panel field. Locate perimeter fasteners 3/8 inch from panel edge. Perimeter fasteners can also be located on the centerline of abutting board joints due to the 1.75" diameter of the washer; a maximum of two boards may be bridged per fastener.
 - 2. Abut panels tightly together and around openings and penetrations.
 - 3. Install sheathing panels horizontally. Use maximum lengths to minimize number of joints.

4. Drive fasteners to bear tight and flush with surface of insulation. Do not countersink.
- C. Joint Tape:
 1. Apply butyl joint tape to insulation joints with firm hand pressure, free of wrinkles and fishmouths.
 2. Apply butyl tape to seal face of insulation with face of edge closure members and cladding framing.
 3. For framing faces up to 2 inches wide, use 4-inch-wide tape. For framing faces up to 4 inches wide, use 6-inch-wide tape.
 4. Press entire surface area of tape firmly against substrate using 6 inch steel hand roller (4 or 6 inch for 4 inch tape) on flat surfaces, or by burnishing with blunt tool such as back of a utility knife on small areas and corners. Continue operation until entire sheet is well bonded to substrate.
 5. Where horizontal tape occurs, place an additional layer of sheathing tape on the top horizontal edge of the butyl joint tape; position sheathing tape 2/3's of width on the upper insulation face and 1/3's width on the butyl tape face. Place sheathing tape without wrinkles or fishmouths. Press with a roller as described above.
 6. At intersections of vertical and horizontal tape, ensure that tape is weather-lapped to shed water.

3.04 POLYSTYRENE INSULATION BOARD INSTALLATION UNDER CONCRETE SLABS

- A. Place insulation under slabs on grade after base for slab has been compacted.
- B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.
- C. Prevent insulation from being displaced or damaged while placing vapor retarder and placing slab.

3.05 FIBER BOARD INSULATION

- A. Fit insulation snugly against adjacent construction and with tight butt joints between boards.
- B. Trim insulation to neatly fit. Insulate miscellaneous gaps and voids.
- C. Coordinate fastening and anchorage of insulation with fastening and anchorage of cladding. Ensure that insulation is well secured in permanent fashion and in compliance with the insulation manufacturer's written fastener spacing and pattern recommendations.

3.06 BATT/BLANKET INSTALLATION

- A. Install insulation in accordance with manufacturer's instructions, without gaps or voids.
- B. Install in exterior wall spaces and overhead under elevated floor deck.
- C. Install impaling pins to underside of deck with adhesive in accordance with manufacturer's recommendations.
- D. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- E. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.

3.07 MISCELLANEOUS VOIDS

- A. Fill cracks and crevices with insulation. Seal against the passage of air, moisture, dust, and noise.

3.08 PROTECTION OF FINISHED WORK

- A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION 07 21 00

SECTION 07 25 10 - WEATHER-RESISTANT BARRIER (LIQUID-APPLIED)

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Weather-resistant barrier applied to the entire outside surface of exterior walls, including:
 - 1. CMU.
- B. Water-Resistive Barrier: Materials to keep liquid water from passing through exterior walls, joints between exterior walls and roof, joints around frames of openings in exterior walls, and joints around penetrations through exterior walls.
- C. Air Barrier: Materials to keep air from passing through exterior walls, joints between exterior walls and roof, joints around frames of openings in exterior walls, and joints around penetrations through exterior walls.

1.02 SUBMITTALS

- A. Product Data: Indicate material characteristics, performance criteria, and limitations.
- B. Manufacturer's Installation Instructions: Indicate preparation, installation methods, storage requirements, and temperature limitations during and after installation.
- C. Shop Drawings: Provide drawings of special joint conditions.
- D. Reports: Submit reports signed by Contractor, installer, and membrane manufacturer's representative of:
 - 1. Preapplication review.
 - 2. Completion inspections.
- E. Warranty.

1.03 QUALITY ASSURANCE

- A. Preapplication Review: Schedule a meeting before start of installation with installer and membrane manufacturer's representative to review procedures for substrate preparation and application.
 - 1. Review contract document requirements, manufacturer's product data, and application instructions.
 - 2. Manufacturer's representative shall instruct installers in proper installation procedures, and shall be available throughout project for trouble shooting upon request.

1.04 MOCK-UP

- A. Construct mock-up demonstrating each typical condition, including perimeters, transitions to other envelope materials such as waterproofing and roofing, penetrations, each type of substrate, and openings such as windows, doors, and louvers.
- B. Obtain the approval of the manufacturer's designated representative before beginning full production.
- C. Obtain the Architect's approval before beginning full production.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.
- B. Do not apply coatings when there is a chance that frost may occur before coating is fully cured.

1.06 WARRANTY

- A. Provide Special Project Warranty specified in Section 01 78 10.

PART 2 PRODUCTS

2.01 MEMBRANE MANUFACTURERS

- A. Contractor shall select a single manufacturer to provide membrane products of this Section and of Section 07 65 26 - Modified Bituminous Sheet Flashing.
- B. Provide products of one of the following:
 - 1. Carlisle.
 - 2. Henry Company.
 - 3. GCP Applied Technologies, Inc.

2.02 WALL MEMBRANE

- A. Vapor Permeable - Air and Liquid Water Barrier: Full Membrane on the Entire Outside Surface of Exterior Wall Substrates: Rolled or sprayed coating forming an elastomeric barrier that is water vapor permeable.
 - 1. Compliant with NFPA 285 tested assemblies as required by the International Building Code.
 - 2. Product:
 - a. Carlisle: Fire Resist Barritech VP. Application thickness: 60 mils wet, 40 mils dry.
 - b. Henry: Air-Bloc 31MR. Application thickness: 5.4 gal/100 SF (90 mils wet, 45 mils dry) over CMU; 70 mils wet, 35 mils dry over other substrates.
 - c. Henry: Air-Bloc 17MR. Application thickness: 5.4 gal/100 SF (90 mils wet, 45 mils dry).
 - d. GCP Applied Technologies, Inc.: Perm-A-Barrier VP20. Application thickness: 70 mils wet, 45 mils dry.
 - e. GCP Applied Technologies, Inc.: Perm-A-Barrier VPL. Application thickness 68 mils wet, 40 mils dry.
 - f. GCP Applied Technologies, Inc.: Perm-A-Barrier VPL LT. Application thickness: 68 mils wet, 35 mils dry.
- B. Application Thicknesses: Thicknesses specified above are nominal. Coverage will vary according to the profile, porosity, and absorption of the substrate and project conditions. Apply liquid membrane to comply with all of the following:
 - 1. Apply liquid membrane at coverage rate so that the completed and cured membrane will be pin-hole free.
 - 2. Apply liquid membrane in one or more coats as recommended by the manufacturer and at wet mil thickness per coat as recommended by manufacturer.
 - 3. Apply liquid membrane at coverage rate and number of coats so that the average dry thickness of the completed and cured membrane will be not less than that specified and so that its minimum thickness at any point shall be not less than that 90 percent of that specified.
 - 4. Specified thicknesses are in addition to the thickness of detail coat and transition sheet.

2.03 ACCESSORY MATERIALS

- A. Liquid Flashing:
 - 1. Elastomeric liquid-applied flashing material for rough opening preparation. (Not for masonry flashings.)
 - 2. Products:
 - a. Carlisle:
 - 1) Sill: Transition sheet material.
 - 2) Head and jambs: "Liquifiber" reinforcement sheet embedded in and coated with liquid wall membrane material.
 - b. Henry: "Air-Bloc LF".
 - c. GCP Applied Technologies, Inc.
- B. Transition Sheet:
 - 1. Rubberized asphalt or butyl rubber, bonded to sheet polyethylene, self-adhesive.
 - 2. Thickness: At least 40 mils.

3. Compliant with NFPA 285 tested assemblies as required by the International Building Code.
4. Products:
 - a. Carlisle: CCW 705FR Self-Adhering Air and Vapor Barrier.
 - b. Henry: Blueskin SA.
 - c. GCP Applied Technologies, Inc.: Perm-A-Barrier Wall Flashing or Perm-A-Barrier Detail Membrane or Perm-A-Barrier Aluminum Flashing.
- C. Provide primer/adhesive recommended by transition membrane manufacturer for each specific substrate. Use of primer/adhesive is a contract requirement.
- D. Mastic: Trowel or caulking grade rubberized mastic or sealant.
 1. Products:
 - a. Carlisle:
 - b. Henry: Air-Boc 06 Trowel Grade.
 - c. GCP Applied Technologies, Inc.: Bituthene Liquid Membrane.
 - d. GCP Applied Technologies, Inc.: Grace S100 Sealant.
 2. Provide mastic recommend by membrane manufacturer for sealing edges and laps of transition membrane.
- E. Accessories:
 1. Mesh Tape: Fiber glass mesh; 4 to 6 inches wide; type as recommended by membrane manufacturer.
 2. Tape for Plastic Substrates with GCP Applied Technologies, Inc.: Pre-Pruf Tape at plastic substrates indicated in PART 3.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.

3.02 SURFACE PREPARATION

- A. Remove loose or foreign matter which might impair adhesion of materials.
- B. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.
- C. Ensure that substrates are clean, dry, and dust-free.
- D. Ensure that joints in CMU are filled with mortar (no voids) and struck flush (neatly tooled is acceptable for membrane spray application), ready to receive membrane.

3.03 SUBSTRATE PREPARATION AND DETAILING

- A. Treat minor static cracks in concrete and masonry substrates by applying a reinforced detail coating of membrane prior to general membrane application.
 1. Fill minor gaps with mastic or caulk and allow to cure before applying mesh tape and membrane liquid. (Treat gaps over manufacturer's permitted width with transition membrane.)
 2. Apply mesh tape extending at least 2 inches on each side of crack or joint.
 3. Apply detail coating of membrane to mesh tape and extending 2 inches onto substrate beyond joint tape.
- B. Treat joints between masonry and dissimilar substrates in accordance with manufacturer's recommendation prior to general membrane application.
- C. Ensure that mortar joints in masonry substrates are struck flush and filled full without voids, and that no holes or other voids exist in masonry surface. Repair such defects by pointing with mortar as specified in Division 4 or filling with membrane manufacturer's recommended mastic.
 1. Where masonry rests on concrete floor slab or foundation, rake back mortar joint 1/4 inch and fill with mastic, allow to cure, and follow with a detail coating of membrane extending at least 3 inches on either side of joint.

2. Where top of non-bearing masonry abuts the underside of floor slab, install transition sheet as described in the paragraph below.
 3. Where top of load-bearing masonry abuts the underside of a concrete floor slab or concrete edge beam, rake back mortar joint 1/4 inch and fill with mastic, allow to cure, and follow with a detail coating of membrane extending at least 3 inches on either side of joint.
 4. Where masonry abuts concrete columns, rake back mortar joint 1/4 inch and fill with mastic, allow to cure, and follow with a detail coating of membrane extending at least 3 inches on either side of joint.
 5. Where masonry abuts steel columns, beams, or other steel elements, install transition sheet as described in the paragraph below.
- D. Apply transition sheet at juncture of membrane and other materials and at interruptions such as beams, columns, or other dissimilar substrates unless alternate treatment is permitted by the preceding paragraph, above. Width of transition sheet as recommended by membrane manufacturer, but in no case less than 3 inches on each side of joint (6 inches total).
- E. Install transition sheet at control and expansion joints. Apply transition sheet across joints as recommended by membrane manufacturer, but in no case less than 3 inches each side joint on to face of wall (6 inches total).
- F. Transition Sheet:
1. Prime substrates before installing transition sheet using a detail coating of membrane or primer, as recommended by manufacturer.
 2. Apply sheet material to primed surface, and firmly roll the entire surface of sheet material with a roller not more than 4 inches wide (use fingers or a blunt tool at confined corners and crevices) to ensure firm, permanent bond without voids or fishmouths or blisters.
 3. Seal laps and perimeters of sheet with mastic.
- G. Penetrations Through Membrane, Such as Pipes, Conduit, Electrical Boxes, Etc.: Seal around penetrations through the membrane. Ensure that penetrations are securely fixed and anchored before sealing.
1. Install a fillet of mastic around penetration to provide a smooth transition between the penetrating object and the adjacent substrate. Allow to cure. Apply membrane at least 2 inches onto the adjacent substrate and at least 2 inches onto the penetration.
 - a. Grace: For plastic pipes and similar substrates, install tie-in tape before sealing.

3.04 DETAILING AROUND OPENINGS

- A. Install detailing membrane around openings such as window, door, louver, and other openings. Ensure that opening detailing is complete before to applying wall membrane.
- B. Prepare openings using either the sheet method or liquid method, as selected by Contractor.
- C. Detailing Membrane at window, door, louver, and other openings - Sheet Material:
1. Wrap transition sheet into opening a sufficient distance to ensure contact with the inboard air seal (joint sealant) between the sheet and the frame of the window, door, louver, etc., and to form a back dam against water intrusion.
 2. Wrap transition sheet onto the outside face of the wall as recommended by membrane manufacturer, but in no case less than 3 inches on to face of wall.
- D. Detailing Membrane at window, door, louver, and other openings - Liquid Material:
1. Extend liquid flashing into opening a sufficient distance to ensure contact with the inboard air seal (joint sealant) between the sheet and the frame of the window, door, louver, etc., and to form a back dam against water intrusion.
 2. Extend liquid flashing onto the outside face of the wall as recommended by membrane manufacturer, but in no case less than 3 inches on to face of wall.
 3. Carlisle: Install transition sheet material at sill and liquid material at head and jambs in accordance with manufacturer's instructions. For liquid material, apply one coat of liquid and embed the flashing reinforcing sheet in the wet material, and follow with a topcoat of liquid material.

3.05 WALL MEMBRANE INSTALLATION

- A. Install materials in accordance with manufacturer's instructions.
- B. Install membrane in conjunction with materials described in other sections to provide a continuous, sealed barrier on the exterior enclosure of the building.
- C. Apply liquid membrane using manufacturer's recommended equipment. Ensure that adequate film thickness is applied, and that film is continuous without pinholes, holidays, or thin spots or excessively thick spots.
 - 1. On masonry substrates ensure that adequate material is applied to a) fill the pores of the block pinhole free, and b) provide nominal film thickness over the high spots (aggregate).
 - 2. Lap liquid membrane onto transition sheet and previously prepared liquid or mastic detailing.
- D. Apply within recommended application temperature ranges.
- E. Form a continuous seal between the exterior wall membrane and roofing material.

3.06 SELF-ADHESIVE SHEET AT CLADDING ANCHORS AND OTHER PENETRATIONS

- A. Where exterior cladding anchors (masonry veneer, metal cladding, and other penetrating materials) are mechanically fastened through the weather membrane, provide transition sheet material underneath of anchors. Size sheet material to extend approximately 1/2 inch beyond the edges of the anchor. Ensure that the anchor, securely fastened, forms a tight compression seal against sheet material and weather membrane to create an air-tight and weather-tight seal.
- B. Where sheet material would not form a practicable seal around penetrations, seal such penetrations with mastic to form an air-tight and weather-tight seal.
- C. Other Openings and Penetrations: Seal and provide flashings for other openings so as to provide an air-tight, weather-tight barrier.

3.07 FIELD QUALITY CONTROL

- A. Obtain wall membrane manufacturer representative's inspection of the completed installation prior to covering.
- B. Do not cover installed weather barriers until required inspections have been completed.

3.08 PROTECTION

- A. During construction and until permanent protection is in place, provide temporary protective weather-proof sheeting or other covering to prevent moisture intrusion into tops of walls and through back side of walls.
- B. Do not allow materials to be exposed to sunlight or weather for periods longer than recommended by manufacturer.
- C. Protect installed materials from damage by subsequent trades. Repair inadvertent damage before covering with other materials.

END OF SECTION 07 25 10

SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Aluminum doors and frames.
- B. Curtainwall.
- C. Glass infill.
- D. Solid panel infill.
- E. Perimeter sealant.

1.02 REFERENCES

- A. AA DAF-45 - Designation System for Aluminum Finishes; 2003 (Reaffirmed 2009).
- B. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- D. ASTM C1184 - Standard Specification for Structural Silicone Sealants; 2018.
- E. ASTM C794 - Standard Test Method for Adhesion-In-Peel of Elastomeric Joint Sealants; 2018.
- F. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference; 2015.
- G. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
- H. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014.
- I. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).
- J. AAMA 511 - Voluntary Guideline for Forensic Water Penetration Testing of Fenestration Products; 2008.

1.03 SUBMITTALS

- A. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glazing and infill, and internal drainage details.
- B. Samples: Submit two samples 6 X 6 inches in size illustrating finished aluminum surface, glazing, infill panels, glazing materials.
- C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.
- D. Design Data: Provide framing member structural and physical characteristics and engineering calculations, and identify dimensional limitations.
 - 1. For curtainwall, include engineering calculations bearing the seal on an engineer licensed to practice in the State in which the Project is located.
 - 2. Structural Glazing Adhesive: Data and calculations showing compliance with performance requirements.
- E. Report of field testing for water leakage.

1.04 QUALITY ASSURANCE

- A. Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed at the State in which the Project is located.

1.05 MOCK-UP

- A. Provide mock-up including all components occurring on project. Assemble to illustrate component assembly including glazing materials, weep drainage system, attachments, anchors, and perimeter sealant.
- B. Locate on-site where directed. Mock-up may not remain as part of the Work.

1.06 PROJECT CONDITIONS

- A. Coordinate the work with installation of weather resistant barrier/membrane to adjacent materials.
- B. Coordinate the work with installation of firestopping at edge of slab.
- C. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

PART 2 PRODUCTS

2.01 SUBSTITUTIONS

- A. Refer to Section 01 60 00 - Product Requirements.

2.02 MANUFACTURERS

- A. Kawneer Company, Inc: www.kawneer.com.
- B. EFCO Corp: www.efcocorp.com.
- C. YKK AP America, Inc: www.ykkap.com.
- D. Tubelite, Inc.: www.tubeliteinc.com

2.03 ALUMINUM ENTRANCE DOORS

- A. Kawneer Company, Inc.:
 - 1. 500 Door.
- B. EFCO:
 - 1. D500 Wide Stile.
- C. YKK:
 - 1. 50D Wide Stile.

D. Tubelite:

- 1. Standard Wide Stile

~~DE~~. Door Hardware: As specified in Section 08 71 00.

~~EF~~. Weatherstripping: Wool pile, continuous and replaceable; provide on all doors.

~~FG~~. Sill Sweep Strips: Resilient seal type, of neoprene; provide on all doors.

2.04 CURTAINWALL SYSTEM

- A. Kawneer Company, Inc.:
 - 1. 1600 System 2.
- B. EFCO:
 - 1. 5900.
- C. YKK:
 - 1. YCW 550 SSG.

D. Tubelite:

- 1. 400 Series.

DE. Performance Requirements:

1. Design and size components to withstand the following load requirements without damage or permanent set:
 - a. Design Wind Pressure: As indicated on the Structural Drawings for components and cladding.
 - b. Member Deflection: Limit member deflection to L/175 in any direction, and without exceeding the flexure limit of glass, and maximum of 3/4 inch, with full recovery of glazing materials.
 - c. Measure performance by testing in accordance with ASTM E330/E330M using test loads equal to 1.5 times the design wind loads and 10 second duration of maximum pressure.
2. Seismic Loads: Design and size components to withstand seismic loads and sway displacement as calculated in accordance with the building code.
3. Movement: Accommodate the following movement without damage to components or deterioration of seals:
 - a. Movement of curtain wall relative to perimeter framing.
 - b. Deflection of structural support framing, under permanent and dynamic loads.
 - c. Shortening of structural concrete columns.
 - d. Creep of structural concrete members.
 - e. Interstory drift of ____.
 - f. Mid-span slab edge deflection of ____ inch.
4. Air Infiltration: Limit air infiltration through assembly to 0.06 cu ft/min/sq ft of wall area, measured at a reference differential pressure across assembly of 1.57 psf as measured in accordance with ASTM E283.
5. Water Leakage: None, when measured in accordance with ASTM E331 at a test pressure difference of 12.00 lbf/sq ft.
6. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
7. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with inside pane of glazing and heel bead of glazing compound.
8. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
9. Design system to eliminate noises caused by wind and thermal movement, to prevent vibration harmonics, and to prevent "stack effect" in internal spaces.

2.05 COMPONENTS

- A. Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
- B. Aluminum Framing Members: Tubular aluminum sections, drainage holes, and internal weep drainage system.
- C. Infill Panels: Insulated, aluminum sheet face and back, with edges formed to fit glazing channel and sealed.
 1. Exterior Finish: Architect to select from full range of colors.
 2. Interior Finish: Factory enamelled, Architect to select from full range of colors.
- D. Trim:
 1. Break metal: 0.032 inch thick aluminum sheet; finish to match adjacent framing members.
 2. Extruded: 0.032 inch thick aluminum sheet; finish to match adjacent framing members.

2.06 MATERIALS

- A. Extruded Aluminum: ASTM B221.
- B. Sheet Aluminum: ASTM B209.
- C. Fasteners: Stainless steel.
- D. Structural Glazing Adhesive: Silicone, neutral cure; formulated specifically for structural sealant glazing and complying with ASTM C1184. Type recommended by framing manufacturer.
 - 1. Ultraviolet radiation resistant for 2000 to 4000 micro-watts minimum for 21 days.
 - 2. Adhesion when subjected to ultraviolet radiation through glass in accordance with ASTM C794 without failure.
 - 3. Minimum adhesion tensile strength of 100 psi.
 - 4. Tested for compatibility with glazing accessories .
- E. Glazing: As specified in Section 08 80 00.
- F. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.
- G. Glazing Accessories: As specified in Section 08 80 00.
- H. Perimeter Seal Materials:
 - 1. Air Seal:
 - a. Dow; Dowsil 758 Silicone Weather Barrier Sealant: www.dow.com (61 g/l)
 - 2. Weather Barrier Seal - Preformed Silicone Sheet Seal:
 - a. Typical Condition: Provide factory molded, cured silicone sheet for glazing into glazing pocket. Include factory molded corners and intersections.
 - b. Exception, where indicated on the drawings: Provide gunnable silicone.
 - c. Products:
 - 1) Dow Dowsil Silicone Transition Strip STS set in Dowsil 758 Silicone Weather Barrier Sealant (61 g/l).
 - 2) GE Momentive UltraSpan UST / USM set in SilPruf sealant.
 - 3) Tremco Proglaze ETA set in Tremco Spectrem 1.
 - 3. Weather Seal: High movement silicone sealant specified in Section 07 92 00.

2.07 FINISHES

- A. Comply with AA DAF-45 for aluminum finishes required.
- B. Color: Dark bronze.

2.08 FABRICATION

- A. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.
- C. Prepare components to receive anchor devices. Fabricate anchors.
- D. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
- E. Arrange fasteners and attachments to conceal from view.
- F. Reinforce framing members for imposed loads.
- G. Finishing: Apply factory finish to all surfaces that will be exposed in completed assemblies.
 - 1. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify dimensions, tolerances, and method of attachment with other work.
- B. Verify that wall openings and adjoining air and vapor seal materials are ready to receive work of this section.
- C. Verify that anchorage devices have been properly installed and located.

3.02 INSTALLATION

- A. Install wall system in accordance with manufacturer's instructions.
- B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- C. Provide alignment attachments and shims to permanently fasten system to building structure.
- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- E. Provide thermal isolation where components penetrate or disrupt building insulation.
- F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
- G. Coordinate attachment and seal of perimeter air and vapor barrier materials.
- H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- I. Structural Adhesive Glazing: Install glazing adhesive and weatherseal sealant in accordance with aluminum framing manufacturer's and adhesive manufacturer's instructions.
- J. Install infill panels in accordance with aluminum framing manufacturer's instructions.

3.03 ENTRANCE DOORS

- A. Set thresholds in a bed of mastic and secure.
- B. Install hardware using templates provided.
 - 1. See Section 08 71 00 for hardware installation requirements.

3.04 PERIMETER SEALING

- A. Curtain Wall: Provide a continuous seal around the entire perimeter of each assembly at each of the following locations:
 - 1. Weather-Resistant Barrier:
 - a. Glaze precured silicone sheet into glazing pocket of aluminum framing, seal silicone sheet to adjacent construction with gunnable sealant.
 - 2. Air Seal and Back Dam: Seal the interior of each assembly to the weather-resistant membrane.
 - a. Place backer rod, and seal the aluminum framing to the weather-resistant membrane with a bead of Air Seal.
- B. Weather Seal: Place backer rod and seal between aluminum framing and adjacent cladding using high movement silicone sealant specified in Section 07 92 00.

3.05 ERECTION TOLERANCES

- A. Curtainwall Maximum Variation from Plumb: 0.06 inches every 3 ft non-cumulative or 0.5 inches per 100 ft, whichever is less.
- B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.
- C. Sealant Space Between Aluminum Framing and Adjacent Construction: 3/4 inch +/- 1/8 inch, unless indicated otherwise on the drawings.

3.06 FIELD QUALITY CONTROL

- A. Test installed aluminum framing and glazing assemblies for compliance with performance requirements for water penetration, in accordance with ASTM E1105, and as follows.

1. Arrange the test apparatus so as to test not only the aluminum framing and glazing assembly, but also to test the seal between it and the adjacent weather barrier (such as dampproofing on masonry, weather barrier on sheathing, etc.). Perform testing prior to installation of cladding (such as brick, siding, panels, etc.).
 2. Perform testing at a uniform pressure equal to the greater of 2/3's of the framing manufacturer's published laboratory test value for water penetration or 6.24 psf.
 3. First establish an air pressure of 50% of the required value, hold for 5 minutes, and report any water leakage; then establish an air pressure of 75% of the required value, hold for 5 minutes, and report any water leakage; then establish the required air pressure and hold for 15 minutes and complete the test in accordance with ASTM E1105.
 - a. Method A: Hold air pressure at 100% of the required value for 15 minutes, and report any water leakage.
 4. In the event that the test of a unit fails, perform additional forensic water penetration testing on that same unit in accordance with AAMA 511 to identify and analyze the nature of the failure.
- B. Repair or replace, as directed, components that have failed field testing, and then retest until performance is satisfactory.
- 3.07 ADJUSTING
- A. Adjust doors for smooth operation, proper alignment, weather seal, and hardware function.
- 3.08 CLEANING AND PROTECTION
- A. Remove protective material from pre-finished aluminum surfaces.
- B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
- C. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.
- D. Protect finished work from damage.

END OF SECTION 08 44 13

SECTION 26 24 16 - PANELBOARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Distribution panelboards.
 - 2. Lighting and appliance branch-circuit panelboards.

1.3 DEFINITIONS

- A. ATS: Acceptance testing specification.
- B. GFCI: Ground-fault circuit interrupter.
- C. GFEP: Ground-fault equipment protection.
- D. HID: High-intensity discharge.
- E. MCCB: Molded-case circuit breaker.
- F. SPD: Surge protective device.
- G. VPR: Voltage protection rating.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001 or 9002 certified.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Handle and prepare panelboards for installation according to NECA 407.

1.6 FIELD CONDITIONS

- A. Environmental Limitations:
 - 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC

system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
 - a. Ambient Temperature: Not exceeding minus 22 deg F (minus 30 deg C) to plus 104 deg F (plus 40 deg C).
 - b. Altitude: Not exceeding 6600 feet (2000 m).

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace SPD that fails in materials or workmanship within specified warranty period.
 1. SPD Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PANELBOARDS COMMON REQUIREMENTS

- A. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Comply with NEMA PB 1.
- D. Comply with NFPA 70.
- E. Enclosures: Flush and Surface-mounted, dead-front cabinets.
 1. Rated for environmental conditions at installed location.
 - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - b. Outdoor Locations: NEMA 250, Type 3R.
 2. Height: 84 inches (2.13 m) maximum.
 3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
 4. Finishes:
 - a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - b. Back Boxes: Same finish as panels and trim.
- F. Incoming Mains:
 1. Main Breaker: Main lug interiors up to 400 amperes shall be field convertible to main breaker.

G. Phase, Neutral, and Ground Buses:

1. Material: Hard-drawn copper, 98 percent conductivity.
 - a. Plating shall run entire length of bus.
 - b. Bus shall be fully rated the entire length.
2. Interiors shall be factory assembled into a unit. Replacing switching and protective devices shall not disturb adjacent units or require removing the main bus connectors.
3. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
4. Full-Sized Neutral: Equipped with full-capacity bonding strap for service entrance applications. Mount electrically isolated from enclosure. Do not mount neutral bus in gutter.

H. Conductor Connectors: Suitable for use with conductor material and sizes.

1. Material: Hard-drawn copper, 98 percent conductivity.
2. Terminations shall allow use of 75 deg C rated conductors without derating.
3. Size: Lugs suitable for indicated conductor sizes, with additional gutter space, if required, for larger conductors.
4. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
5. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.

I. NRTL Label: Panelboards or load centers shall be labeled by an NRTL acceptable to authority having jurisdiction for use as service equipment with one or more main service disconnecting and overcurrent protective devices. Panelboards or load centers shall have meter enclosures, wiring, connections, and other provisions for utility metering. Coordinate with utility company for exact requirements.

J. Future Devices: Panelboards or load centers shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.

1. Percentage of Future Space Capacity: 20 percent.

K. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity.

1. Panelboards and overcurrent protective devices rated 240 V or less shall have short-circuit ratings as shown on Drawings, but not less than 10,000 A rms symmetrical.
2. Panelboards and overcurrent protective devices rated above 240 V and less than 600 V shall have short-circuit ratings as shown on Drawings, but not less than 14,000 A rms symmetrical.

2.2 PERFORMANCE REQUIREMENTS

A. Surge Suppression: Factory installed as an integral part of indicated panelboards, complying with UL 1449 SPD Type 2.

2.3 POWER PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. ABB, Installation Products.
 - 2. Eaton.
 - 3. Siemens Industry, Inc., Energy Management Division.
 - 4. Square D; Schneider Electric USA.
- B. Panelboards: NEMA PB 1, distribution type.
- C. Doors: Secured with vault-type latch with tumbler lock; keyed alike.
 - 1. For doors more than 36 inches (914 mm) high, provide two latches, keyed alike.
- D. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes 125 A and Smaller: Bolt-on circuit breakers.
- E. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers.

2.4 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Eaton.
 - 2. Siemens Industry, Inc., Energy Management Division.
 - 3. Square D; Schneider Electric USA.
- B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- C. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- D. Doors: Door-in-door construction with concealed hinges; secured with multipoint latch with tumbler lock; keyed alike. Outer door shall permit full access to the panel interior. Inner door shall permit access to breaker operating handles and labeling, but current carrying terminals and bus shall remain concealed.

2.5 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers:
 - a. Inverse time-current element for low-level overloads.
 - b. Instantaneous magnetic trip element for short circuits.
 - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.

2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
3. Electronic Trip Circuit Breakers:
 - a. RMS sensing.
 - b. Field-replaceable rating plug or electronic trip.
 - c. Digital display of settings, trip targets, and indicated metering displays.
 - d. Multi-button keypad to access programmable functions and monitored data.
 - e. Ten-event, trip-history log. Each trip event shall be recorded with type, phase, and magnitude of fault that caused the trip.
 - f. Integral test jack for connection to portable test set or laptop computer.
 - g. Field-Adjustable Settings:
 - 1) Instantaneous trip.
 - 2) Long- and short-time pickup levels.
 - 3) Long and short time adjustments.
 - 4) Ground-fault pickup level, time delay, and I squared T response.
4. MCCB Features and Accessories:
 - a. Standard frame sizes, trip ratings, and number of poles.
 - b. Breaker handle indicates tripped status.
 - c. UL listed for reverse connection without restrictive line or load ratings.
 - d. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
 - e. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and HID lighting circuits.
 - f. Rating Plugs: Three-pole breakers with ampere ratings greater than 150 amperes shall have interchangeable rating plugs or electronic adjustable trip units.

2.6 IDENTIFICATION

- A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.
- B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.
- C. Circuit Directory: Computer-generated circuit directory mounted inside panelboard door with transparent plastic protective cover.
 1. Circuit directory shall identify specific purpose with detail sufficient to distinguish it from all other circuits.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.

- B. Receive, inspect, handle, and store panelboards according to NECA 407.
- C. Examine panelboards before installation. Reject panelboards that are damaged, rusted, or have been subjected to water saturation.
- D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Comply with NECA 1.
- C. Install panelboards and accessories according to NECA 407.
- D. Equipment Mounting:
 - 1. Attach panelboard to the vertical finished or structural surface behind the panelboard.
- E. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from panelboards.
- F. Comply with mounting and anchoring requirements specified in Section 260548.16 "Seismic Controls for Electrical Systems."
- G. Mount panelboard cabinet plumb and rigid without distortion of box.
- H. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- I. Install overcurrent protective devices and controllers not already factory installed.
 - 1. Set field-adjustable, circuit-breaker trip ranges.
 - 2. Tighten bolted connections and circuit breaker connections using calibrated torque wrench or torque screwdriver per manufacturer's written instructions.
- J. Make grounding connections and bond neutral for services and separately derived systems to ground. Make connections to grounding electrodes, separate grounds for isolated ground bars, and connections to separate ground bars.
- K. Install filler plates in unused spaces.
- L. Stub four 1-inch (25 mm) empty conduits from panelboard into accessible ceiling space or space designated to be ceiling space in the future. Stub four 1-inch (25 mm) empty conduits into raised floor space or below slab not on grade.
- M. Arrange conductors in gutters into groups and bundle and wrap with wire ties.

3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in Section 260553 "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.4 PROTECTION

- A. Temporary Heating: Prior to energizing panelboards, apply temporary heat to maintain temperature according to manufacturer's written instructions.

END OF SECTION

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 01B – General Requirements

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK	INVITATION TO BID: <u>CCK-2622-22</u>
UNIVERSITY OF KENTUCKY	BID OPENING DATES: <u>May 3, 2022</u>
CAPITAL CONSTRUCTION	TRADE CONTRACT DESCRIPTION: _____
PROCUREMENT	<u>General Requirements</u>
RM. 322 SERVICE BUILDING	TRADE CONTRACT NO.: <u>01B</u>
411 SOUTH LIMESTONE	TIME: <u>3:00 P.M. E.D.T.</u>
LEXINGTON, KY 40506-0005	

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____ STATE _____ ZIP CODE _____	DATE _____

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____
(USE WORDS) CENTS.

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out & Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____
(USE WORDS) CENTS.

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|--------------------------------------|--|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Flagman	HR	\$
Laborer	HR	\$
Carpenter	HR	\$
Foreman	HR	\$

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

[illegible]

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 01B – General Requirements

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 01B – General Requirements

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they relate to this General Requirements scope of work

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. **Scope of Work** – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.
2. **PlanGrid License** – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents. Additionally, this Subcontractor will provide to the Construction Manager (3) one-year PlanGrid “Crane” licenses to use at their discretion. These licenses shall go into effect at a time chosen by the construction manager.
3. **OpenSpace** – This subcontractor shall provide photo documentation tool and software for 12 months from OpenSpace. The tool and software will be used by the construction manager. Negotiated rate for the project is \$5,523. For additional information contact Anthony Marchio – anthony@openspace.ai.
4. **Site Fencing** – This Subcontractor shall provide and install temporary fence (6' fence panels) and road/sidewalk closure signage per the logistics plan. This subcontractor shall rework fencing for each phase of construction. (See logistics plan for locations and amounts of fencing and temporary signage.) This subcontractor shall provide a fencing allowance of \$10,000 and a signage allowance of \$5,000 to be used for items above-and-beyond what is shown in the logistics plan. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor. This Subcontractor

shall provide for the removal of two gates (four panels), two fence posts, and approximately 10 feet of fence mesh on the existing construction fence for crane accessibility during the steel build out of Stair A.

Additionally, this Subcontractor will provide for approximately 50 feet of temporary fence panels for this area to maintain site security, and the replacement of the two gates (four panels), two fence posts, and fence mesh after completion of crane operations. As well, remove approximately 10 feet of curb.

5. Perimeter Fencing – This subcontractor shall take over the rental of the existing project perimeter fencing from project award and continue the rental until December 31, 2022. The current fencing is provided by Herb Geddes Fence Company.
6. Porta-Johns – This Subcontractor has included for all porta-johns for the project site, including a scaling up and back with the work force, cleaning, supplying, relocating, and removal. This shall start at contract award and run until December 31, 2022. This Subcontractor shall supply at a minimum one (1) porta-john per ten (10) workers onsite. Porta-johns shall be cleaned twice weekly minimum and cleaning days shall be scheduled with the construction manager. This Subcontractor shall also include hand washing stations fully stocked with paper towels and soap. Subcontractor must provide one (1) handwashing station per three (3) porta-johns.
7. Safety – This Subcontractor has included \$10,000 for WT safety to be directed by the Construction Manager. The Construction Manager will direct the use of these costs to replace safety equipment, provide safety incentives, etc. through the duration of the project.
8. Building Shoring – This subcontractor shall provide shoring at location of new girder/CMU wall. (S201 – S203 - Note 6)
9. Wood Framing – This subcontractor shall provide and install all new wood framing per the contract documents to include but not be limited to the following:
 - Provide and install new wood floor and ceiling joists as shown on structural drawings.
 - Provide and install all new joist hangers including where joists are supported by CMU (S201 – S203 - Note 10)
 - Provide and install new wood girders and new supports for girders. (S201 – S203 - Note 7 & Note 8)
 - Provide and install new wood ledger for support of subfloor. (S201 – S203 - Note 3)
 - Provide and install wood bracing at top chords of wood trusses. (S204 - Note 2)
 - Provide and install framed openings for new attic and roof hatches. Including cutting of opening. (AD104 - Note 4; S204 - Note 6 & Note 9)
 - Provide and install new wood roof rafters at location of elevator demo. Provide new roof sheathing at same location and provide temporary protection of area until roofer is onsite. (S204 - Note 5)
 - Provide and install wood framing at roof MEP penetration (S204 - Note 10)
 - Provide and install wood blocking at roof ladder and at post were not supported by girder (S204 - Note 11 & Note 12)
 - Provide and install all support and blocking as required for tie-back anchors in existing roofing. Coordinate with 07A sub for locations and sizing. (S204 - Note 13)
 - Provide and install wood framing and subfloor to infill the floor at the recessed area left at the two fireplaces on the first floor.
 - Install wood joisting at attic level (S204 – Note 7)
 - Provide and install wood blocking, strapping, and anchoring where existing framing runs parallel to the existing exterior wall as noted on drawings S201, S202, S203 & S204.
 - Provide and install wood blocking in every third joist space and attached to wall where existing framing is perpendicular to the existing wall as shown on S201 – S204. (Detail G/S407)
10. Subflooring - This Subcontractor shall provide and install new subflooring throughout existing building. Note areas with multiple layers of sheathing and coordinate transitions between one layer and two layers with architect. (S201 – S203 – Note 2). See floor sheathing layout J/S403. This subcontractor shall provide and install new wood platform in attic at top of access hatch as indicated on the contract documents.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

11. Painting & Coatings – This Subcontractor shall furnish and apply all paints and coatings including but not limited to drywall, concrete, plaster, brick, doors & frames, structural steel, miscellaneous metals, concrete deck, metal decking, exterior wood trim, doors railings, and any other surface scheduled to be painted on the Contract Documents. This Subcontractor shall also be responsible for all caulking including, but not limited to, all door frames, all dissimilar materials on the interior of the building.
12. Miscellaneous Items – This subcontractor shall be responsible for the following items related to painting and refinishing:
 - Provide all caulking and sealants between dissimilar materials. (G002 - Note 11).
 - This subcontractor shall paint all exposed steel and decking (floor and roof deck) as required by the contract documents. (A525 - Note 9; A303 - Note 2).
 - This subcontractor shall clean, repair and seal top of sheet metal cornice and sheet metal roofing (A104 – Notes 4 & 5.)
 - This subcontractor shall scrape and re-paint existing copper flashing on top of cornice.
 - This subcontractor shall clean and re-paint all existing lintels on the exterior and interior of the building. (A201 – 204 – General Note E)
 - This subcontractor shall re-paint existing wood soffits on building exterior (A201 - 204 - General Note G).
 - This subcontractor shall be responsible for all exterior re-painting. This shall include surface preparation to include but not be limited to: scraping, sanding, stripping, etc.
 - This subcontractor shall paint all unfinished stair components to include but not be limited to all stringers, landings, risers, steel pans.
 - This subcontractor shall provide and install all high-performance coatings as required by the contract documents.
 - Strip and stain existing NW and SW entrances. (A531 & A532 - General Note F)
 - Clean, repair and repaint previously painted areas of piedmont. (A201 & A204 – Note 3; A202 – Note 2)
 - Repair soffits as needed, repaint soffits (A201 – A204 – Note G)
 - Clean and repair upper and mid-level cornice. Replace areas where significant damage or corrosion has occurred. Assume 25% replacement. Repaint all previously painted areas of cornice. (A201 – A204 – Note H)
 - Clean, repair and apply new joint sealant to copper flashing at all upper and mid-level cornice. (A201 – A204 – Note I)
 - Strip, paint and clean existing window type H. (A604)
13. Finish Carpentry – This subcontractor shall be responsible for all items noted as 06 200 FC – Finish Carpentry and 06 4900 – Exterior Architectural Woodwork.
14. This subcontractor shall provide and install new window trim and repair/replace wood window sills as shown in the contract documents. (Ex. A607 – Note 1; A720 – A723)
15. This subcontractor shall provide signage for the Core & Shell per A741. This subcontractor shall also provide and install the painted signage lettering at the SW entry (A532 – Note 2)
16. This subcontractor shall provide final cleaning of the project. This shall include rough cleaning of the interior. Full glass/window cleaning inside & out. And general cleanup around the project site.
17. Existing Building Structure – This Subcontractor shall repair, reinforce and re-weld existing pipe columns as required by the contract documents.
18. Existing Pavers – This subcontractor shall remove existing pavers from limits of construction and store on pallet. (C-103 - Note 18)
19. Housekeeping & Equipment Pads - Provide and install all housekeeping and equipment pads both interior and exterior. (U100 - Note 23; H301; LH101) Provide and install curb for fan plenum case per HVAC drawings. (H301)

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UK Project No. 2511.8

20. Protection of Existing to Remain Items – This subcontractor shall protect the following existing items to remain:
 - Protect limestone threshold at Level 1 entrances plan south and plan west. (AD101 - Note 3)
 - Protect limestone cheek walls to remain at exterior stair plan south. (AD202 - Note 1)
 - Protect all door frames and door frame trim to remain both at interior and exterior doors. This subcontractor shall also provide protection at new door frames once installed.
 - Protect existing railings and glass as indicated on C-103 - Note 1. There is already some protection in place but this subcontractor shall maintain the existing protection and provide additional protection as necessary.
 - Protect and clean glazing (A531 – Note 5)
21. This subcontractor shall provide and maintain boot brushes and heavy duty entry mats at each exterior entry door and provide and install 10 rolls of 100ft floor protection board (i.e., Ram Board) to be used at the discretion of the construction manager.
22. Weather Protection - This subcontractor shall maintain all temporary weather protection installed by others at exterior openings. The intent is to prevent any major water intrusion into the existing building. If temporary weather protection is damaged through the course of construction or if major water intrusion occurs this subcontractor shall be responsible for repair, replacement, or reapplication of temporary measures. This subcontractor shall provide temporary weather protection at broken window at entrance (AD201 - Note 5)
23. Fall Protection - This subcontractor shall maintain all fall protection installed by others at exterior openings. If temporary fall protection is damaged through the course of construction this subcontractor shall be responsible for repair, and replacement of said fall protection. This subcontractor shall remove fall protection as construction progresses and fall protection is no longer required.
24. Folding Access Ladder - This subcontractor to provide and install metal folding ladder and hatch for access to attic. Also provide and install associated safety rail at access opening.
25. Tile – This subcontractor shall provide and install tile finish at the NW and SW entry doors. (A531 & A532) This shall include all leveling, waterproof membrane, latex mortar, latex grout, Schluter Schiene transitions etc. for a complete installation. This subcontractor shall also provide Portland cement underlayment below the tile and the future walk-off mat. (A532 – Note 7)
26. Crawlspace Vent - This subcontractor shall replace vent at bottom of limestone wall with solid metal cover. (A201 - Note 2; A203 – Note 2)
27. Precast Concrete Treads – This Subcontractor shall provide and install precast concrete stair treads as required by the contract documents.
28. This subcontractor shall provide and install temporary wood stair treads at stair A and shall install temporary sheathing at the landings. These shall remain in place until the future fit-out when finishes are installed. This subcontractor shall also install temporary sheathing at recess where future walk-off mat will go.
29. Access to 2nd and 3rd Floor – This subcontractor shall provide a temporary opening in the 2nd and 3rd floor (at new wood floor joists) and provide a single cleat ladder to access these upper floors. This subcontractor shall provide a safe-zone around the opening with handrails and gate to eliminate the fall hazard at the opening. Once the permanent stairs are in place and safe to use, this subcontractor shall remove the ladder, and handrail and complete the final floor joist and floor sheathing installation. This subcontractor shall also be responsible for maintaining temporary access to the attic by means of the existing fiberglass ladder until a time that permanent access is installed.
30. This subcontractor shall provide and install grout for the infill of the elevator door sills. This subcontractor shall also slope ledges inside of elevator shaft using mortar.
31. Provide and install bracket mounted fire extinguishers as indicated on the contract documents. A100 – A103

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
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32. This subcontractor shall purchase three (3) E Permit parking passes for the full duration of the project. These passes shall be used at the sole discretion of the construction manager.
33. This subcontractor shall provide a shooting boom forklift (lull) with a minimum 42' lift height from mobilization until December 31st 2022. This lull will be shared by all subcontractors throughout the course of the project and all subcontractors shall provide their own operator. The primary use will be for offloading deliveries and booming material up to the required floor. Use of the lull must be scheduled and final approval for use must be given by the WT Superintendent.
This subcontractor shall provide all fuel and maintenance for the lull for the duration of the project.
34. **Mowing & Landscape Maintenance** – This Subcontractor has included mowing and trimming around the jobsite and trailers, to the Construction Managers satisfaction, bi-weekly from award of Subcontract through project completion. This specifically includes all site grasses inside and outside the construction fence, inclusive of trimming all fence lines.
35. **Traffic Control** – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.
36. **Appropriate Common Requirements:**
- a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
 - b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
 - c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
 - d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
 - e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices; as may be issued from time to time by Whiting-Turner personnel.
37. **Alternate #1** - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0. Items listed below shall part of this subcontractor's scope for the add alternates. This list is NOT a comprehensive list and is only intended as additional clarification.
- a. This subcontractor shall provide housekeeping/equipment pads for mechanical equipment for equipment shown to be included in Alternate #1.
 - b. This subcontractor shall paint exposed mechanical utilities in mechanical room shown to be installed in Alternate #1.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 02B – Selective Demolition

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by:

(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION
PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2622-22

BID OPENING DATES: May 3, 2022

TRADE CONTRACT DESCRIPTION: _____
Selective Demolition

TRADE CONTRACT NO.: 02B

TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____ STATE _____ ZIP CODE _____	DATE _____

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out & Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|--------------------------------------|--|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Foreman	HR	\$
Laborer	HR	\$

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PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

[illegible]

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 02B – Selective Demolition

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 02B – Selective Demolition

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they related to the Selective Demolition scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

- 1) Scope of Work – It is the intent for this project that the Selective Demolition Subcontractor performs all the work as scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% supervision, labor, material, equipment, tools, appliances, warranties and guarantees, and everything necessary to selectively demolish, and prepare Frazee Hall for follow on renovation in full compliance with the Contract Documents.
- 2) PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.
- 3) Stair A & Elevator Shaft Demo – This Subcontractor shall demolish existing Stair A, Elevator Shaft and associated remaining walls that support these structures. This shall include but not be limited to the following:
 - Demo Stair A and all remaining handrail and handrail anchors/supports (AD100 - AD105 - General Note A)
 - Demo Elevator Shaft (AD100 - AD105 - General Note E; AD104 - Note 2) Demo existing roof rafters attached to elevator shaft (S204 - Note 5) Demo concrete slab and steel joists over existing elevator shaft. (S204 - Note 7)
 - Demo shaft walls to the plan north and plan south of existing Stair A
 - Demo wall plan west of Stair A all floors. This currently supports Stair A and should be demoed along with Stair A demo.
 - Demo third floor wall in front of elevator (AD 103 – Note 1)
 - During demo of elevator shaft, coordinate with 01B subcontractor for temporary patching of roofing.
- 4) Exterior Wall at Stair A – This Subcontractor shall demolish the exterior wall adjacent to Stair A for the full height of the building. (AD100 & AD101 - Note 1; AD102 & AD103 - Note 2; AD203 - Note 2) This Subcontractor shall coordinate with 04A for lintel
- 5) Exterior Components Demo – This Subcontractor shall demolish existing exterior components. This shall include but not be limited to the following:
 - Demo existing window well x3 (AD201 - Note 6; AD202 - Note 5; C-103 - Note 11 & 16))

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UK Project No. 2511.8

- Demo basement stair, retaining wall, canopy, railing, and door at plan south (AD100 - AD105 - General Note D; AD202 - Note 4 & Note 6; C-103 – Note 10)
 - Demo exterior stairs and railings at plan south, limestone cheek walls and threshold to remain (AD100 - AD105 - General Note C; AD202 - Note 1)
 - Demo remaining outside air units and associated piping into building (C-103 - Note 15)
 - Demo and salvage cornice at building exterior. (AD201 - Note 3; AD 204 - Note 7)
 - Remove stair railings (AD201 – Note 1)
 - Cut portion of sill for new door opening. Protect existing sill to remain. (AD204 – Note 8)
- 6) Interior Components Demo – This Subcontractor shall demolish remaining interior components. This shall include but not be limited to the following:
- Demo concrete from top of wooden joists and tile, floor drain, and concrete from top of wooden joists at Level 01 (AD101 – Note 2 & Note 4)
 - Cut and demo portions of exterior wall for new Stair B doors (G/S408; AD 204 - Note 2)
 - Demo attic access hatch. (AD104 - Note 1)
 - Demo masonry walls at locations where fireplace/chimney once existed. (Not noted but shown as a dashed line at plan south of AD100 & AD101.)
 - Demo plaster and lathe at existing ceiling. (AD104 – Note 5)
 - Remove extruded nails from bottom of wood floor joists at all locations where wood floor joists will remain exposed to view or where they will impact the installation of new finishes.
- 7) Basement Floor Demo – This Subcontractor shall cut and demolish basement flooring, subflooring and floor supports, to include but not limited to all wood subflooring on wood joists, concrete on wood joists and concrete slab on grade to the limits shown and as required for the installation of shoring, new foundations and under slab MEP items. (S200 - Note 2 & Note 16; AD100 – Note 2 & Note 6)
- 8) Remaining MEP Demo – This Subcontractor shall demolish existing MEP utilities under basement flooring and demo all other MEP items remaining in building. (AD100 - AD105 - General Note F)
- 9) Hazardous Materials – All known Asbestos Containing Materials (ACM) were removed during an earlier bid package. Should any ACM be encountered during this phase of demolition, it will be treated as a change order condition.
- 10) Lead Based Paint – There is a known presence of lead based paint in the building. This subcontractor shall include an allowance of \$20,000 for testing and removal of lead based paint as directed by the construction manager.
- 11) This Subcontractor shall provide an additional 100 labor hours for additional demolition that is above-and-beyond what is required for this scope of work.
- 12) Historic Trim Removal – This subcontractor shall demo/salvage all historic trim as noted on the contract documents. (AD100 – Note 3 & Note 5; AD101 & AD102 – Note 5; AD103 – Note 4) Trim shall be stored in the building in a location assigned by the construction manager.
- 13) Disposal – This Subcontractor shall provide a means of disposal for all steel, concrete and masonry demolished within this scope of work.
- 14) Shoring – This Subcontractor shall coordinate with 01B for building shoring prior to demo of any structural items. This Subcontractor shall also provide miscellaneous/supplemental shoring at shaft walls, exterior wall, door openings where main building shoring is not present.
- 15) Coordination – The Subcontractor acknowledges that portions of this Subcontractor’s scope of work are to be completed in conjunction with work by others and agrees to all coordination and sequencing as required. All demolition activities that could affect nearby occupied buildings must be cleared with the Construction Manager

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one week in advance. All deliveries must be coordinated with the Construction Manager in advance of the delivery.

- 16) Weather Protection – This Subcontractor will provide weather protection on existing building after demolition is complete. As a portion of the existing building exterior becomes demolished and exposed to the outside elements and weather, this Subcontractor shall provide weather protection on that particular portion to ensure no weather damage will occur. Reinforced plastic and wood frame will specifically be required at the large opening for new Stair A and new door openings at Stair B.
- 17) Fall Protection - At any opening created by this subcontractor that creates a fall hazard of greater than 6ft, this subcontractor shall provide a permanent means of fall protection which meets all OSHA and Whiting-Turner fall protection standards. This includes, but is not limited to, installing fall protection at Stair A, window openings and window / door wells.
- 18) Scaffolding – This Subcontractor shall provide, maintain, and dismantle designed scaffold systems necessary to complete the demolition scope of work.
- 19) Out of Sequence Work – This Subcontractor agrees and understands that some work may be required to be performed out of sequence to facilitate the construction schedule. This will include at a minimum three mobilizations to perform selective demolition.
- 20) Protection – This Subcontractor shall take measures required to protect existing structures during all work performed. This Subcontractor is to provide dust control measures and public safety mechanisms to be adequate to owner's standards for the University of Kentucky's campus. All protective measures are to be outlined in Subcontractor's site plan and schedule to be given to Whiting-Turner Construction Manager prior to any work beginning.
- 21) Protection of Materials – This Subcontractor is responsible for the protection of adjacent materials and finishes products prior to starting work as well as of the work installed by this Subcontractor. Damage to adjacent surfaces or finish products will be repaired or replaced by this Subcontractor at no additional cost to the Owner or Construction Manager.
- 22) Break Area - This subcontractor shall provide a communal break area for the project. All items will become property of the owner at the conclusion of the project. This shall include providing and setup of the following:
 - a) 10x Commercial outdoor fans Tornado 24 Inch or similar – https://www.amazon.com/Tornado-Circulator-Industrial-Commercial-Residential/dp/B07DVPWG6L/ref=sr_1_9?dchild=1&keywords=outdoor+fans&qid=1626131257&sr=8-9
 - b) 2x Large Evaporative Cooler. Hessaire MC61M or similar - <https://www.amazon.com/Hessaire-Products-MC61M-Mobile-Evaporative/dp/B00LBQKTBC/>
 - c) 5x Heat Storm HS-1500-TRC Infrared Space, 13ft Cord, Roll Cage + Heater or similar - [Amazon.com: Heat Storm HS-1500-TRC Infrared Space, 13 ft Cord, Roll Cage + Heater : Everything Else](https://www.amazon.com/Heat-Storm-HS-1500-TRC-Infrared-Space-13ft-Cord-Roll-Cage-Heater/dp/B00LBQKTBC/)
 - d) 5x 6ft plastic folding table
 - e) 20x plastic folding chairs
 - f) 1x Resin Storage Shed for storage of break area items. Craftsman 7' x 7' Gable Storage Shed or similar - <https://www.lowes.com/pd/CRAFTSMAN-Common-7-ft-x-7-ft-Actual-Interior-Dimensions-6-8-ft-x-6-8-ft-Craftsman-Resin-Storage-Shed-Gable-Storage-Shed/1001052346>
 - g) 5x 75ft Masterplug Cord Storage Reel or similar - [Amazon.com: Masterplug OLP751512G4SLU-US OTMP501512G4SL-US Cord Storage Reel, Grey/Green, 75 Ft : Everything Else](https://www.amazon.com/Masterplug-OLP751512G4SLU-US-OTMP501512G4SL-US-Cord-Storage-Reel-Grey-Green-75-Ft-Everything-Else/dp/B00LBQKTBC/)
 - h) 5x 100ft Masterplug Cord Storage Reel or similar - [Amazon.com: Masterplug Heavy Duty Metal Cord Reel with 4-120V 15amp Integrated Outlets and 12 Gauge High Visibility Cord \(100ft\) : Everything Else](https://www.amazon.com/Masterplug-Heavy-Duty-Metal-Cord-Reel-with-4-120V-15amp-Integrated-Outlets-and-12-Gauge-High-Visibility-Cord-100ft-Everything-Else/dp/B00LBQKTBC/)
 - i) 200x S hooks for extension cord hanging. Checkers Quick Hook or similar - <https://www.checkers-safety.com/quick-hook-overhead-hanging-cable-protection>
 - j) 3x Jobsite security cameras. VOSKER V200 Security Pack - <https://www.vosker.com/product/v200-v-kit2/>

- k) 3x VOSKER V200 ELITE 1-year Security Plan @\$216 per camera per year - <https://www.vosker.com/vosker-security-plans-offered/>
 - l) 2x TRINITY PRO Black 4-Tier Rolling Steel Wire Garage Shelving Unit or similar - [TRINITY PRO Black 4-Tier Rolling Steel Wire Garage Storage Shelving Unit \(48 in. W x 77 in. H x 24 in. D\) TBFPBA-0925 - The Home Depot](#)
- 23) Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.
- 24) Appropriate Common Requirements:
- Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
 - Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
 - O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
 - Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor’s ability to acquire.
 - Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.
- 25) Alternate - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 03A – Concrete & Deep Foundations
--

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK	INVITATION TO BID: <u>CCK-2622-22</u>
UNIVERSITY OF KENTUCKY	
CAPITAL CONSTRUCTION	BID OPENING DATES: <u>May 3, 2022</u>
PROCUREMENT	TRADE CONTRACT DESCRIPTION: _____
RM. 322 SERVICE BUILDING	<u>Concrete & Deep Foundations</u>
411 SOUTH LIMESTONE	TRADE CONTRACT NO.: <u>03A</u>
LEXINGTON, KY 40506-0005	TIME: <u>3:00 P.M. E.D.T.</u>

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____	DATE _____
STATE _____	
ZIP CODE _____	

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out & Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

Alternate No. 2: Combined Concrete & Deep Foundations and Hardscape & Landscape
(WC 03A and WC 32A)

***Optional**

**** Does Not Include Add Alternate No. 1**

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____ CENTS.
(USE WORDS) (USE WORDS)

(\$ _____)
(USE FIGURES)

Add Alternate No. 3: Combined Add Alternate No.1 for Concrete & Deep Foundations and Hardscape & Landscape

*** If Alternate No. 2 is filled out, this is required.** (If no applicable work exists, then alternate pricing shall be \$0.)

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____ CENTS.
(USE WORDS) (USE WORDS)

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|--------------------------------------|--|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

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UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

[illegible]

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PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

[illegible]

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER
Excavators	
Mini-Ex	
Skid-Steer	

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IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 03A – CONCRETE & DEEP FOUNDATIONS

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 03A –Concrete & Deep Foundations

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they relate to the concrete scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

GENERAL

1. Scope of Work - It is the intent for this project that this Subcontractor perform all the work as scoped herein and as specified in the Project Manual and Contract Drawings. The technique used to install the formwork and concrete will be the responsibility of the contractor. The techniques established shall allow for all requirements set forth in the Contract Documents. This Subcontractor will furnish all supervision, labor, material, hoisting, rigging, equipment, tools, appliances, scaffolding, shoring, formwork, warranties, guarantees, and everything necessary for all structural concrete and related materials in full compliance with the Contract Documents. This Subcontractor shall include the design and erection of all formwork and accessories, pumping, placement and pouring of concrete, installation of all embeds, block-outs, dowels, furnishing and installation of reinforcing steel and any other incidentals necessary to the successful installation of the cast-in-place concrete including all accessories. All Rubbing and Patching as required shall be the responsibility of this contractor.
2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.
3. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.
4. Appropriate Common Requirements:
 - Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
 - Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

- O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
 - Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
 - Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.
5. Alternate - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0.

CONCRETE

6. Specific Items – This scope will include all cast-in-place concrete work to include but not be limited to the following:
- Pile caps, piers, and grade beams for Stair A structure
 - Mat foundation, piers, and foundation walls for Stair B
 - Wall footings in existing basement
 - Retaining wall footings and retaining walls for new window wells. (B/S305; C-104 – Notes 9, 10 & 13)
 - Slab-on-grade for Stair A, slab-on-grade and stair-on-grade for Stair B
 - Slab-on-grade at existing basement
 - Elevator and sump pit
 - Slab on metal deck
- This shall also include, but not be limited to: all stone base and subbase, vapor barrier, under slab insulation, basement pits for elevators or otherwise, concrete stairs, rebar and WWF reinforcing, and any required imbeds. Items that should **not** be included in this bid: hardscaping, site retaining walls, housekeeping/equipment pads
7. Miscellaneous Items - This Subcontractor shall provide and install all miscellaneous items related to the cast-in-place concrete scope of work. This shall include the following:
- This subcontractor shall provide and install all slab-on-grade prep including all compacted crushed stone, under slab insulation and vapor barrier.
 - This subcontractor shall provide and compact crushed stone to fill crawl space and elevator pit prior to placement of slab-on-grade. (S200 - Note 2 & Note 3)
 - Provide and install compressible foam board between new and existing foundations for isolation. (S200 - Note 5)
 - Provide and install expansion joint around column bases (S200 - Note 10)
 - Provide and install grout under structural steel base plates and provide concrete infill around column to protect base plates.
 - Install dowels where required between new and existing slab on grade (S200 - Note 4)
 - Patch existing slab-on-grade as required by the contract documents. (S200 - Note 16) This shall include patching for trenching required to run new under slab MEP items.
 - Provide concrete for tunnel pit including thickened slab under CMU wall. (S200 – Note 9)
 - This subcontractor shall be responsible for all thickened footers where penetrations or sleeves are required through the footer.
 - This subcontractor shall be responsible for all thickened slabs at stairs.
 - This subcontractor shall be responsible for all mudmats where required at pits and manholes
 - This subcontractor shall be responsible for all waterstop as required for this scope of work
 - This subcontractor shall provide high-early concrete mixtures at any location where concrete must reach full compressive strength prior to backfilling.

- This subcontractor shall be responsible for excavating for pile caps, grade beams, piers, mat slabs, foundation walls, etc.
 - This subcontractor shall provide termite treatment under slabs as required by the contract documents.
 - This subcontractor shall install all anchor bolts and embeds (provided by others) into concrete.
 - Provide expansion joints and control joints in concrete retaining walls as required by C/S302.
8. Formwork – This Subcontractor shall provide concrete formwork systems consisting of plywood, metal, fiberglass, or combination thereof and all related materials and accessories required for a complete concrete formwork system, inclusive of all shop drawings and engineering as required per the Contract Documents. Formwork accessories that are embedded in concrete, including ties and hangers, shall be commercially manufactured products. Do not use non-fabricated wire form ties.
9. Masonry Dowels & Dovetails Slots – This Subcontractor will be responsible for furnishing and installing all Masonry Dowels and Dovetail Slots. This Subcontractor should consult both structural & architectural drawings.
10. Layout – The Subcontractor shall be responsible for the accurate layout of all formwork and any other work included in this scope. This Subcontractor shall conduct layout from a building control line and benchmark furnished by the Construction Manager. This contractor shall furnish a slab control line at each SOG elevation. Two lines in the North-South direction and two lines in the East-West Direction. These lines shall be accurate, true, and must be done in a way that they are accessible for the remainder of the project. They should stack with the building to allow all other Subcontractors to use as control. Two elevation benchmarks, 5' above finish floor, shall also be provided at each slab elevation, other than pits.
11. Excavation – This Subcontractor shall be responsible for all excavation for this scope of work. This shall include all excavation, to include hand excavation, required for final grading of footings, grade beams, pier/pile caps, or slabs on grade. The sitework Subcontractor will excavate the building pads to +/- 0.1' from subgrade plus associated sloping/benching down to the subgrade elevation. This Subcontractor has also included any "mucking" of wet soils for the duration of the foundations scope of work. This subcontractor shall be responsible for removal of all spoils related to this scope of work.
12. Concrete – This Subcontractor shall provide all concrete material. This Subcontractor shall also include all equipment and labor to pump the concrete into place including associated clean up. This includes a minimum of one man per truck when conducting pours. This Subcontractor shall coordinate with the Owner's testing agency as required per the Specifications; this includes but is not limited to: providing proper cylinders and test boxes per applicable ASTM sections. In the event that a test should fail, this Subcontractor shall either remove and replace the represented work, or repair the represented area as directed by the Structural Engineer and Architect. All cost associated with additional testing and rework shall be the responsibility of this Subcontractor.
13. Reinforcing Steel – The Subcontractor shall furnish and install all reinforcing steel according to contract documents. All materials needed to complete the installation of the reinforcing steel shall be the responsibility of this Subcontractor. This will include, but not be limited to, support chairs, reinforcing safety caps, and tie wire. All remedial work and costs caused by failed tests are the responsibility of this Subcontractor.
14. Embeds – This Subcontractor shall install all inserts, anchors, anchor bolts and embedded miscellaneous metal items. Mechanical or electrical sleeves, conduits, electrical boxes, etc. shall be furnished and installed by others. The Concrete Subcontractor shall build boxes required for mechanical openings as shown on Contract Documents. This Subcontractor shall schedule placing of all concrete and will give ample notice and the opportunity to inspect embed placement and work related to concrete before concrete is placed. This subcontractor is responsible for removing all nails or other attachments from embeds when wrecking formwork.
15. Anchorage for Embedded Items – This Subcontractor shall set and build into formwork anchorage devices and other embedded items required for other work that is attached to or supported by cast-in-place concrete.

16. Receiving Material Provided by Others – This contractor shall receive, handle, inventory, inspect, protect, and be responsible for, once delivered, all materials furnished by others to be installed by this subcontractor. WT shall be copied on all delivery tickets. This shall include but not be limited to all embeds and anchor bolts. Any repair or replacement due to: failing to notify the Construction Manager, damage, loss of pieces, or negligence of this Subcontractor will be the responsibility of this Subcontractor.
17. Openings in Formwork for Other Trades – This Subcontractor will provide openings in formwork to accommodate work for other trades. Determine size and location of openings and recesses from Subcontractors providing such items. Accurately place and support items built into forms. This Subcontractor must obtain written approval from the Construction Manager for openings not shown on the drawings.
18. Concrete Pours – This Subcontractor shall notify the Construction Manager’s project Superintendent a minimum of 72 hours prior to any pour.
19. Placement – This Subcontractor shall furnish all labor, materials, tools, and requirement to transport the concrete materials to the point of placement; i.e., concrete pumps, wheel barrows, buggies, etc.
20. Manpower at Truck – This Subcontractor shall provide the necessary manpower required at the concrete pump and/or truck to coordinate the location of concrete trucks at the concrete pump and operation of the concrete chute.
21. Cold or Hot Weather Considerations – This Subcontractor shall provide any requirements and provisions to accommodate hot or cold weather placement of the concrete within this Scope of Work.
22. Finishes – The Subcontractor shall be responsible for maintaining finishing tolerances per Specifications including exposed to structure and trowel finishes. Float finishes – see specification, also consolidate concrete surface by hand-floating if area is small or inaccessible to power units. Surfaces should be uniformly sloped toward drains where applicable. Surface should be a uniform, smooth, granular texture. Waterproofing Finish - finish of surfaces to receive waterproofing will comply with preparation standards set forth in the applicable Specification or comply with manufacturers’ specified instructions for application by product type.
23. Curing – The Subcontractor shall cure all slabs on grade in a manner consistent with the Specifications. This includes providing all required curing blankets and a watering system for the duration of the curing process.
24. Saw cutting – Saw cutting required by the Contract Documents shall be the responsibility of this Subcontractor. Construction joints shall be made according to the construction documents. This Subcontractor shall ensure that the work area shall remain clean of dust, concrete waste, excess water, and any other debris caused by the saw cutting process.
25. Task Lighting – Any task lighting required to ensure adequate working conditions is the responsibility of this Subcontractor. This includes the lights stands, lights, generators, power cords, and any other equipment to operate the lights.
26. Perimeter Safety Rails – This Subcontractor shall furnish, install, and maintain perimeter safety rails at the transitions of slab elevation changes, all pits and hole covers until the completion of this scope of work. Safety cables, wood rails, stands, and turnbuckles are the responsibility of this subcontractor. Safety cables and associated accessories will remain the Construction Managers possession.
27. Truck – Subcontractor is aware of the constricted area, and that trucks will not be permitted to park in construction zone, unless dispensing concrete.
28. Existing Structures – The Subcontractor shall make complete examination and survey of all existing adjacent structures, and roadways to determine all information necessary to design and erect the concrete formwork. This Subcontractor shall be responsible for repairing any damage to existing structures or roadways that result from executing this Scope of Work.

- 29. Protection – Protect freshly placed concrete from premature drying and excessive cold or hot temperatures per the Contract Documents.
- 30. Concrete Washout – This Subcontractor is responsible for providing or building a mobile concrete washout station, (preferably a movable dumpster) including regular maintenance and cleanout. This includes the removal there of once this scope of work has been completed.

DEEP FOUNDATIONS

- 31. Specific Scope of Work – This Subcontractor is responsible for the technique used to safely furnish and install all micro pile deep foundations work items for this scope of work. This Subcontractor is responsible for all layout of the deep foundations. All materials are the responsibility of this Subcontractor to form and create a complete deep foundation system including casings, rebar, rigs, etc. This Subcontractor shall provide the job with reliable drill rigs. Time lost due to inspections, breakdowns, waiting on materials, or broken/damaged equipment will be made up after normal work hours, or on weekends at the Subcontractor's expense. This Subcontractor has studied the Geotechnical Reports and Pre-Drilling Logs and shall supply the job with the proper equipment to effectively drill through all material that could be present. This includes but is not limited to drill rigs, drill bits, and haul off equipment. This Subcontractor is responsible for procedures and recommendations set forth in the Geotechnical Report that are not specifically stated in the Specifications. This Subcontractor is responsible for a turn-key installation including the installation and purchase of concrete and rebar.
- 32. This subcontractor shall design and install micropiles in accordance with the notes on S303 – Detail C
- 33. This subcontractor shall provide compact drilling equipment to place micropiles within the existing building. The largest opening to this location is 36" wide by 96" tall.
- 34. Basis of Bid – The Subcontractor shall bid all micropiles to the depth, length, and diameter as determined by review of the Geotechnical report. This subcontractor shall be responsible for all overages in depth within reason.
- 35. Load Tests – This subcontractor shall be responsible for the cost of two pre-production load test as required by the specification.
- 36. Protection/Dewatering – The Subcontractor shall coordinate and conduct drilling and concrete placement in a way that protects existing grades, subgrades, and fills from surface water and slurry run-off. All demucking and pumping of groundwater from caissons, if necessary, is part of this work. All pumping of water will be coordinated with the site dewatering system so as not to overwhelm, damage, or generally create new issues with this dewatering process. This Subcontractor is responsible for the proper removal and disposal of any concrete (slurry) run-off in coordination with the Construction Manager.
- 37. Spoils – This subcontractor shall be responsible for all spoil removal related to this scope of work.
- 38. Utility Locations – This Subcontractor shall locate all existing underground utilities before disturbing any earth. Any locations within approximately 5' of existing utilities shall be exposed by hand digging or hydro-vac, in order to accurately locate the utility, prior to the drilling begins
- 39. Site Conditions – All other existing site conditions are to be verified prior to start of construction. Any variances in conditions must be documented prior to construction. If the Construction Manager is not notified in writing, it shall be the responsibility of this Subcontractor to make any corrections or remediation necessary at no additional cost. In addition, this Subcontractor shall protect all existing conditions and surroundings as so not to damage during construction. This includes any damage that could result from surface water. If any existing items, which are to be left undisturbed, are damaged by this Subcontractor it shall be its responsibility to repair.

40. Subsurface Conditions – A copy of a subsurface pre-drilling investigation of the site is included with the Contract Documents.
- a. This Subcontractor shall make themselves aware of all existing surface conditions, underground utilities, and existing underground conditions.
 - b. This Subcontractor shall reference and make themselves aware of the Geotechnical Report (dated 12/1/2020). All findings within this report have been accounted for in this Subcontractor's price and scope of work. The data contained in these reports is not intended as a representation or warranty of the continuity of such conditions. Neither the Construction manager nor the Owner will be responsible for interpretation or conclusions drawn therefrom by the Subcontractor. The Subcontractor may examine the site and make their own subsurface explorations or drill test holes at no additional cost to the Construction Manager or Owner. This Subcontractor will notify the Construction Manager prior to making any subsurface explorations.
41. Erosion Control – Perimeter erosions controls installed by others. This subcontractor shall provide any additional erosion control measures if the perimeter controls are not adequate to contain erosion caused by this scope of work. This Contractor shall replace or repair any erosion control systems damaged or removed as a result of this scope of work.
42. Street Cleaning – The Subcontractor shall maintain a safe and clean environment of all streets and sidewalks as a result of this scope of work. This Subcontractor shall ensure that vehicles and/or equipment do not track mud, dirt or dust onto adjacent streets or sidewalks. Any mud, dirt, or dust tracked onto adjacent streets and sidewalks shall be cleaned up immediately to the Construction Manager's satisfaction.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 07B – Waterproofing
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Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by:

(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION
PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2622-22

BID OPENING DATES: May 3, 2022

TRADE CONTRACT DESCRIPTION: _____

Waterproofing

TRADE CONTRACT NO.: 07B

TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____ STATE _____ ZIP CODE _____	DATE _____

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out & Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|--------------------------------------|--|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Installer	HR	\$
Foreman	HR	\$
Below-grade WP	SF	\$
Air & Vapor Barrier	SF	\$

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
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PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

[illegible]

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 07B – Waterproofing

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 07B – Waterproofing

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they relate to the Waterproofing scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.
2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.
3. Joint Sealers/Sealants – This Contractor shall furnish and install all joint sealants to dissimilar materials and all necessary materials for a comprehensive installation in strict compliance with the contract documents. All provisions required for this unit of work are applicable to this work. The Subcontractor shall exclude all hardscaping sealant, and all joint sealant to similar materials. Examples of responsibility are as follows, but are not limited to:
 - Gypsum Sheathing to Adjacent
 - Concrete to Adjacent
 - Metal Panel to Adjacent
 - Window/Curtain Wall to Adjacent
 - CMU, Brick or Stone to Adjacent
 - Steel to Adjacent
4. Below Grade Applied Waterproofing - This subcontractor shall be responsible for all applied waterproofing at elevator pits, window well retaining walls, etc. This shall include all drainage and protection board. This subcontractor shall provide below grade waterproofing at existing below grade walls. (Ex. A521)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

5. This subcontractor shall provide and install all expansion joint and expansion joint covers that are part of specification section 079200 and 079513. (See A522 – A525) for majority of expansion joint details) This shall include all interior and exterior expansion joints to include but not be limited to the following:
 - Foam Seals
 - Compressions Seals
 - Floor to floor expansion joints
 - Floor to wall expansion joints
 - Wall expansion joints
 - Ceiling expansion joints
 - Foam seals between roof and existing building (A525 – Detail D5 & E10)
 - Interior fire rated joint covers.
6. Miscellaneous Waterproofing Items - This subcontractor shall include the following items:
 - Crystalline waterproofing slurry
 - Bituminous damp proofing
 - Apply backer rod and joint sealant at all entry perimeter and jamb edges (A531 & A532 – General Note G)
 - Provide waterproofing membrane and drainage layer at historical entries (A532)
7. Air and Vapor Barrier – This Contractor shall furnish and install all Fluid-Applied Air and Vapor Barrier for a comprehensive installation in strict compliance with the contract documents on all exterior sheathing. This shall apply to all substrates behind all skin types.
8. Mockup – This Subcontractor shall furnish and install Joint Sealants as described above for the project mockup. All provisions required are applicable to this scope of work.
9. Envelop Consultant – This Subcontractor shall carry \$30,000 to cover the cost of a third-party envelope consultant. The construction manager will manage the consultant who will be responsible for reviewing the waterproofing details, specifications, submittals and reviewing installation practices for all major waterproofing systems. This shall also include the roofing and window details.
10. Surface Preparation - This Subcontractor will provide misc. surface preparation if minor work is required to install this scope of work. In the event this Subcontractor discovers large areas of substrate that have not been prepared per specification or manufacturer's requirements, this Subcontractor will provide written notification to the Construction Manager in order for others to fix.
11. Weather – Subcontractor shall proceed with his work only when weather conditions comply with Manufacturer's recommendations and will permit the materials to be applied in accordance with those recommendations.
12. Watertight system - The complete waterproofing system is to be installed watertight. Damage to finished materials of other Subcontractors and vendors resulting from leaks in the waterproofing system shall be the responsibility and liability of this Subcontractor, including all direct and indirect costs of repair.
13. Metal Flashing – This Subcontractor shall furnish and install stainless steel flashing as required by the contract documents.
14. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

15. Appropriate Common Requirements:

- a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
- b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
- c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
- d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
- e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices; as may be issued from time to time by Whiting-Turner personnel.

16. Alternate - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 31A – Earthwork, Utilities, Hardscape & Landscape
--

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK	INVITATION TO BID: <u>CCK-2622-22</u>
UNIVERSITY OF KENTUCKY	
CAPITAL CONSTRUCTION	BID OPENING DATES: <u>May 3, 2022</u>
PROCUREMENT	TRADE CONTRACT DESCRIPTION: _____
RM. 322 SERVICE BUILDING	<u>Earthwork, Utilities, Hardscape & Landscape</u>
411 SOUTH LIMESTONE	TRADE CONTRACT NO.: <u>31A</u>
LEXINGTON, KY 40506-0005	TIME: <u>3:00 P.M. E.D.T.</u>

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____	DATE _____
STATE _____	
ZIP CODE _____	

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____
(USE WORDS) CENTS.

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out and Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____
(USE WORDS) CENTS.

(\$ _____)
(USE FIGURES)

Add Alternate No. 2: Hardscape and Landscape Scope
***Required**

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____ CENTS.
(USE WORDS) (USE WORDS)

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|---|---|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned
Small Business |
| (03)___ Disadvantaged Small
Business | (08)___ Disadvantaged Woman-Owned
Large Business |
| (04)___ Disadvantaged Large
Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

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UK Project No. 2511.8

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

[illegible]

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PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

[illegible]

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LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

[illegible]

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 31A – Earthwork, Utilities, Hardscape & Landscape

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 31A – Earthwork, Utilities, Hardscape & Landscape

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

Earthwork & Utilities as specified in contract documents

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

GENERAL

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.
2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.
3. Traffic Control – This Subcontractor will provide a flagmen with stop signs and appropriate training to assist and manage traffic flow, for haul trucks to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.
4. Appropriate Common Requirements:
 - a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
 - b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
 - c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.

- d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor’s ability to acquire.
 - e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.
5. Add Alternate #1 - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0.

Earthwork & Utilities

6. Utility Locating - This subcontractor shall be responsible for utility locating by using both 811 and private utility locator. Coordinate with UK for locating campus utilities.
This subcontractor must adhere to WTs utility avoidance policy and must pothole when locating or excavating around existing utilities.
7. Erosion Control – This subcontractor shall provide all perimeter erosion control per C-102 and as necessary to protect excavations for all utility work. This subcontractor shall provide any additional erosion control measures if the perimeter controls are not adequate to contain erosion caused by this scope of work. This subcontractor shall provide inlet protection at newly installed storm structures immediately after construction. This subcontractor shall remove all erosion control once permanent ground cover is established.
8. Clearing & Grubbing – This subcontractor shall be responsible for clearing and grubbing site and be responsible for all temporary seeding or other temporary means of ground cover. (C-102 - Soil Erosion Control Note 3; C-103 - Note 4) The Subcontractor shall strip vegetation, topsoil, roots and other unsuitable material to a depth determined by the Structural testing/Inspection Agency.
9. Shoring – This subcontractor shall provide all shoring for excavations for this project. This subcontractor shall provide a shoring plan for approval by the construction manager. Due to the small site footprint, a limited amount of sloping and benching can be accommodated so this subcontractor should assume using engineered shoring for most trenching and excavations. At the elevator pit this subcontractor must provide appropriate shoring to allow other trades to perform their work. This subcontractor should consider and provide as necessary: shotcrete, soil nailings or lagging walls in these areas.
10. Selective Site Demolition – This subcontractor shall be responsible for the following site demolition:
- Sawcutting and removal of existing concrete sidewalks, walkways, pathways, etc. per the contract documents and logistics plan. (C-103 - Note 2)
 - Sawcutting and removal of asphalt in Administration drive as required for utilities install. (Limits not shown)
 - Demolition of existing storm inlets, trench drains and piping per the contract documents (C-103 - Note 3 & 12)
 - Demolition of site stairs, landings, walls and railings per the contract documents (C-103 - Note 9)
 - Demolition of site retaining walls (C-103 - Note 11)
 - Remove river rock landscaping (C-103 - Note 13)
 - Demolition of existing sanitary structure and associated piping. (C-103 - Note 14; U100 - Note 7 & 8)
 - Demolition of existing light pole bases scheduled to be removed. Coordinate with 26A for removal of circuit and conduit before removal of base. (U100 – Note 20, U101 – Note 7)
11. Excavation – This Subcontractor shall perform excavation to the depths and limits on the drawings and as specified herein, including all necessary rock removal, in accordance with the Contract Documents. Do not excavate to full depth when there is a probability of rain, frost forming or ground freezing in excavation before concrete is placed. The Subcontractor is responsible for covering the fill dirt with plastic, erosion control

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

(including maintenance), and cleanliness of this site. Within the building footprint the building pad shall be excavated to subgrade +0.1' shown in the Contract Documents. Final subgrade excavation within the building footprint will be by others. This subcontractor shall be responsible for excavation for all utilities to include but not be limited to: Chilled Water, Fire Suppression, Storm, Electrical & Controls.

12. Survey – Prior to construction, the Subcontractor will have the project site staked and certified by a surveyor who is licensed in the state of Kentucky. If discrepancies between actual lines and elevations exist, notify Construction Manager before proceeding with drilling activities. This Subcontractor shall be responsible for all surveying of the site so that this scope of work may be completed. This may require multiple surveys.
13. Finished Grades – The Subcontractor is responsible for the importing/exporting of material to achieve the appropriate finish grades. This Subcontractor is also responsible for all slope protection required as per the OSHA Safety requirements. (C-105)
14. Encountering Groundwater – This Subcontractor shall provide dewatering of any groundwater if encountered during excavation and fill operations. The Subcontractor shall also be responsible for all temporary and permanent dewatering needed for construction.
15. Protection – The Subcontractor shall coordinate and do his grading work in a way that protects existing grades, subgrades, and fills from surface water. All demucking and pumping of surface water from excavations, if necessary, is part of this work.
Any site walls to remain should be protected by this Subcontractor. Document condition prior to protection being installed. (C-103 – Note 19)
This subcontractor shall protect existing steam vents through durations of project as directed by mechanical engineer. (C-102 - Note 6)
16. Proof rolling – After stripping or excavation, and before any fill placement, the Subcontractor shall proof roll areas with a minimum of two coverages of a loaded dump truck or scraper in each of two perpendicular directions. Areas found to be soft or pumping shall have the soft soil removed and replaced with structural fill and compacted as outlined by the Contract Documents.
17. Stockpile – This Subcontractor will be responsible for all hauling off and hauling in materials needed to complete the necessary scope of work. Due to the limited size of the site, stockpiles shall not be allowed unless an individual exception is made at the sole discretion of the WT Superintendent. This Subcontractor understands that as there is little to no staging area, the vast majority or all of the spoils will need to be removed from the project sight and has accounted for such.
18. Construction Entrances – This subcontractor shall install new construction entrances per the logistics plan. (C-102 - Soil Erosion Control Note 1) This subcontractor shall be responsible for the modification and repair of existing site entrance and mudmat as necessary to complete this scope of work. (Reference logistics plan for existing mudmat and entrance location.) This Subcontractor is to maintain control measures by mucking out and disposing of sediment as needed at said entrances. Removal and disposal of construction entrances at prior to backfilling and landscaping will be the responsibility of this subcontractor.
19. Site Utilities - This subcontractor shall be responsible for the installation of all site utilities (excluding electrical and telecom) to include but not be limited to the following:
 - a) Storm Sewer (C-106 - Note 1, 3, 4, 7, 8, 12, 15, 16 & 17)
 - i) Including but not limited to: manholes, manhole frames, manhole covers, manhole steps, piping, foundation/french drains, trench drains, inspections, testing, etc.
 - ii) Provide downspout boots for tie-in to downspouts.
 - iii) Install French drains and landscape drains at building and site retaining walls while backfilling. (Ex. A521)
 - b) Sanitary Sewer (C-106 - Note 5, 18)
 - i) Including but not limited to: piping, fittings, gaskets, waterstop, clean-outs, testing, inspections, etc. (U100 - Note 6, 22)

- c) Chilled Water (C-106 - Note 9)
 - i) Including but not limited to: piping, insulation, fittings, valves, drains, temperature gauges, pressure gauges, anchors, startup testing, survey, as-builts, etc.
- d) Fire Protection (C-106 - Note 11)
 - i) Including but not limited to: piping, shutoff valves, check valves, fire hydrant, thrust blocks, post indicator valves, fire department connection, miscellaneous concrete pads, testing, inspections, final tie-in, startup, etc. (U100 - Note 5; U101 - Notes 3 & 4; U103 - Notes 1, 2, 3 & 6)
- e) Verify line size of DCW to remain. (C-106 – Note 14)
- f) Extend manhole lid up to meet grade at Telecommunication Manhole U12.

This Subcontractor is responsible for terminating each utility scoped herein within 5' of each building line. If these systems are in place inside 5' of the building line at the time of installation, then this contractor will be responsible for final connections.

- 20. This subcontractor shall be responsible for backfilling utilities with lean concrete where utilities pass below a footing and will be in the influence zone or where they are installed below an existing footing.
- 21. Temporary Collection of Existing or Disturbed Storm Systems - This Subcontractor shall be responsible for all temporary diversion of storm water from all the existing and/or disturbed storm systems. (C-103 - Note 3) This subcontractor shall plug or demo storm drain as noted on the drawings. (C-103 - Note 10)
- 22. Backfill Walls – This Subcontractor shall be responsible for backfilling all footings, building foundation walls, site retaining walls and manholes. This shall be done in lifts, in coordination with the Waterproofing Subcontractor.
- 23. Site Conditions – All other existing site conditions are to be verified prior to start of construction. Any variances in conditions must be documented prior to construction. If Whiting-Turner is not notified in writing, it shall be the responsibility of this Subcontractor to make any corrections or remediation necessary at no additional cost. In addition, this Subcontractor shall protect all existing conditions and surroundings as so not to damage during construction. This includes any damage that could result from surface water. If any existing items, which are to be left undisturbed, are damaged by this Subcontractor it shall be its responsibility to repair.
- 24. Subsurface Conditions – A copy of a Geotechnical Exploration of the site is included in the Project Manual. The data is not intended as a representation or warranty of the continuity of such conditions. Owner will not be responsible for interpretation or conclusions drawn there from by the Trade Contractor. The Subcontractor may examine the site and make his own subsurface explorations at no additional cost to the Construction Manager or Owner. Notify the Construction Manager prior to making any subsurface explorations.
- 25. Street Cleaning – The Subcontractor shall maintain a safe and clean environment of all streets and sidewalks as a result of this scope of work. This Subcontractor shall ensure that vehicles and/or equipment do not track mud, dirt or dust onto adjacent streets or sidewalks. Any mud, dirt, or dust tracked onto adjacent streets and sidewalks shall be cleaned up immediately.
- 26. This subcontractor must clean the permanent storm structures of any sediment at the conclusion of the project. (C-102 - Soil Erosion Control Note 7)
- 27. This subcontractor shall provide and install magnetic marker tape for sanitary sewer lines if piping is non-metallic.
- 28. Any existing utility that is exposed during excavation but is intended to remain should be supported for the duration of excavation.
- 29. This subcontractor shall provide all utility service markers per the contract documents. This shall include any required for electrical and controls. Coordinate with 23A and 26A for locations

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30. This subcontractor shall remove existing condensate pump in steam vault and connect inlet and outlet piping for pumped discharge together.
31. Stone – This Subcontractor shall include all woven geofabric and 8” of stone at job site equipment and pedestrian pathways. (Reference logistics plan for site roads and pathways.) This subcontractor shall freshen up pathways with new stone as necessary, at a minimum of three times at the discretion of the construction manager.
32. Crane Staging – This subcontractor shall provide additional grading and stone as required to give access to a crane for the structural steel erection. Coordinate with 05A Subcontractor for exact location and requirements. Removal of site pathway and crane staging area will be the responsibility of this subcontractor prior to backfill and landscaping. This subcontractor shall include a stone allowance of 100CY above and beyond the requirement above for any additional stone that may be required for the crane site entrance and staging.
33. Temporary Water Connection – This subcontractor shall provide and install a temporary metered water connection for used during construction activities. This will be needed specifically by the deep foundations and concrete trades so pipe sizing and volume requirements should be coordinated with said trades. All cost of temporary water usage shall be included by this subcontractor and paid either to UK or the utility company.
34. This subcontractor shall provide a manhole cover hook for use by the construction manager. Bon Tool 26” x 3/4in or similar.
35. **Add Alternate No. 2 – This subcontractor shall provide an add alternate to include the Hardscape and Landscape scope as a part of this subcontract. This is a required alternate.**

HARDSCAPE

36. Hardscape – This Subcontractor shall furnish and install all hardscape materials and components in strict compliance with the Contract Documents including but not limited to the following:
 - a) Sidewalks (C-104 - Notes 1, 2 & 14)
 - b) Site Stairs (C-104 – Notes 3 & 8; LH101, 8-9/LH502)
 - c) Concrete for site retaining walls (C-104 - Note 7)
 - d) Surface and Wall Mounted Railings (C-104 - Note 4 & 5; 1-2,8-9/LH502)
 - e) Aluminum railings at existing building entrances (A531 & A532)
 - f) Salvaged Paver Installation (C-104 - Note 12)
 - g) New Pavers (Type A - LH101)
 - h) Concrete ribbon curb (LH101 & LH501)
 - i) Asphalt paving repair including all milling and repaving (LH100, LH101)
 - j) Replacing curb and gutter where impacted during construction (LH100, LH101)
 - k) Concrete Landing (LH101; 1/LH501)
 - l) This scope excludes the three window wells. (C-104 – Notes 9, 10, 13)
37. Concrete – This Subcontractor shall provide all concrete material. This Subcontractor shall also include all equipment and labor to pump the concrete into place including associated clean up, transport concrete to the pouring area, wheelbarrow, buggies, and mobile pump. This includes a minimum of one man per truck when conducting pours. This Subcontractor shall coordinate with the Owner’s testing agency as required per the Specifications; this includes, but is not limited to, providing proper cylinders, curing sheds, and test boxes per applicable ASTM sections or as needed. Any additional cylinder breaks requested by this Subcontractor will be paid for by this Subcontractor. In the event that a test should fail, this Subcontractor shall either remove and replace the represented work, or repair the represented area as directed by the Structural Engineer and Architect. All cost associated with additional testing and rework shall be the responsibility of this Subcontractor.
38. When pouring, subcontractor will notify the construction manager a minimum of 48 hours prior to any pour.
39. All related material to concrete such as curing compound; heated blankets, sealants, etc. are the responsibility of this subcontractor.

40. Subcontractor will be responsible of the concrete retaining walls shown in the landscape drawings including shoring, formwork, placing concrete, curing, etc.
41. Saw-cutting – Saw-cutting required by the Contract Documents shall be the responsibility of this Subcontractor. Construction joints shall be made according to the construction documents. This Subcontractor shall ensure that the work area shall remain clean of dust, concrete waste, excess water, and any other debris caused by the saw cutting process.
42. This Subcontractor is responsible for providing or building a concrete washout station, including regular maintenance and cleanout. This includes the removal there of once this scope of work has been completed.
43. Misc. Metals – Furnish and install all miscellaneous metal items such as handrail and guardrail associated with hardscape and at the exterior entrances. This excludes glass guardrail which will be provided by 08B.
44. Unit Pavers – Furnish and install all unit pavers including all re-used and new unit pavers with the associated subbase, setting bed, adhesives, sand joint filler, etc. necessary for a complete system in accordance with the Contract Documents. This Subcontractor will protect paver work from damage and traffic until final acceptance.
45. Asphalt Paving – All asphalt paving, striping, and asphalt signage shall be by this subcontractor.
46. This subcontractor shall provide a concrete washout dumpster for the washout of concrete trucks for this scope of work.
47. This subcontractor shall be responsible for striping of parking spaces and crosswalk on asphalt and painting of curb to match existing
48. This subcontractor shall install all irrigation sleeves under sidewalks, pavers and through site retaining and seat walls. Coordinate sizing of sleeves with irrigation plans. (U104)
49. This subcontractor shall provide and install all control joints, expansions joints, water stops and joint sealants for hardscaping.
50. This subcontractor shall provide and install all base layers for hardscape to include geotextile filter fabric, stone, compacted washed stone, stone aggregate, DGA, etc.
51. This subcontractor shall provide and install all reinforcement as required for all hardscaping to include but not limited to the following: rebar, wire mesh, WWF, etc.
52. This subcontractor shall provide and install ADA ramps including detectable warning surface.

LANDSCAPE

53. Landscape - This Subcontractor shall furnish and install ALL landscape materials and components shown or called out for in the Construction Documents including, but not limited to, filling materials, irrigation systems, drainage board, soil testing, plant selections, felt fabric, planting or top soil, bedding, plantings, mulches, composts, light weight planting medium, gravel or decorative rock, turf, sod, shrubs, trees, soil amendments, existing lawn re-conditioning, sub drainage, maintenance period, and all necessary materials for a comprehensive installation in strict compliance with the Contract Documents.
54. This subcontractor shall replace all sod, mulch and landscaping that has been disturbed at the location of the temporary walkway that is installed adjacent to Administration Drive. Extents of the walkway is shown on page 1 of the site logistics plan.

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55. Steel Edging – This Subcontractor will furnish and install steeling edging around all planting beds and as shown in the contract documents.
56. Layout – This Subcontractor shall provide all additional surveying, engineering, field dimensions, and layout as necessary to complete his work. The layout of this work shall be coordinated with the work of other trades. All work shall be laid out far enough in advance that any discrepancies or conflicts can be resolved without delaying the overall work. Any such discrepancies shall be reported to the Construction Manager in writing (requesting written clarification) prior to proceeding.
57. Irrigation – This subcontractor shall be responsible for all irrigation as required by the contract documents. (U104 & U105) This shall include all piping, fittings, wiring, valves, decoders, valve boxes, spray heads, rotors, drip lines and other accessories required for a complete irrigation scope of work. Irrigation devices must be RainBird to match existing student center system. This subcontract shall provide all rerouting and tie-in to existing system as required to provide a fully functioning system. This subcontractor shall flush all lines prior to installing nozzles.
58. Coordination & Sequencing – At the beginning of this project, this subcontractor shall be responsible for isolating the zones with-in the construction limits. This will require the subcontractor to cut and cap the existing PVC line and associated controls conduit/wiring. The existing pipe/conduit shall be protected with a weatherproof box and the wires must be protected with an approved waterproof splice kit. This shall be done at two locations, at the “plan west” of the site and at the student center on the “plan east” of U104. A metallic junction box can be used inside the student center for protecting wiring where they are cut and capped. Once the piping is capped inside the student center, this subcontractor shall grout and seal existing penetrations through the student center wall. At the point of connection inside the student center building, this subcontractor shall be responsible for running piping and controls conduit and wiring inside the building and coring the existing retaining wall to new stub-out location. This subcontractor shall properly seal penetrations to be weathertight.
59. Training – This subcontractor shall provide re-training to the owner/operator on the new irrigation system.
60. Existing Soil Condition – It is the responsibility of this Subcontractor to examine, test, and investigate the existing soil conditions to identify his materials source compliance.
61. Necessary Items for Completion – The Subcontractor will provide all items necessary for a complete and total turnkey landscaping package, including compliance with requirements of the Contract Documents, applicable codes, and governing authorities.
62. Weather – Subcontractor shall proceed with his work only when weather conditions will permit the materials to be installed in accordance with those recommendations.
63. Surface Protection - Subcontractor is to provide the proper protection for the landscape varies layers including, filling materials, topsoil, planting medium, roots of trees, etc. It is the responsibility of this subcontractor to protect each of landscape layers from weather conditions, erosion, traffic abuse, etc.
64. Maintenance – This Subcontractor will provide maintenance services for all landscaping work included in this scope of work as well as for the new zones of the irrigation system. This will include winterizing the system during the first year. This maintenance period shall begin upon the date of substantial completion.
65. Mobilizations – This Subcontractor has included multiple mobilizations to complete this work.

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- 66. Trees – This Subcontractor shall provide and install all tree staking and gator bags as required by the contract documents.
- 67. Fertilizer – This Subcontractor shall provide and install fertilizer and fertilizer tablets as required by the contract documents
- 68. Grading – This subcontractor shall be responsible for fine grading and final grading for all landscaping areas.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Subcontract 32A – Hardscape & Landscape
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Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL – CORE & SHELL

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by:

(NAME AND ADDRESS OF BIDDER)

Date: _____

Telephone: _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION
PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2622-22

BID OPENING DATES: May 3, 2022

TRADE CONTRACT DESCRIPTION: _____

Hardscape & Landscape

TRADE CONTRACT NO.: 32A

TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2622-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY _____	TITLE _____
PRINT NAME _____	FIRM _____
ADDRESS _____	PHONE () _____
	FAX () _____
CITY _____ STATE _____ ZIP CODE _____	DATE _____

Contractor Report of Prior Violations of
Chapters 136, 139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2622-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Mechanical Room Fit-out and Mechanical Risers

FOR THE LUMP SUM OF _____
(USE WORDS)

(USE WORDS) DOLLARS AND _____ CENTS.
(USE WORDS)

(\$ _____)
(USE FIGURES)

UNIVERSITY OF KENTUCKY – Renew/Modernize Frazee Hall – Core & Shell
UK Project No. 2511.8

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- | | |
|--------------------------------------|--|
| (01)___ Small Business | (06)___ Woman-Owned Large Business |
| (02)___ Large Business | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other |
| (05)___ Woman-Owned Small Business | |

DEFINITIONS

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

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UK Project No. 2511.8

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

[illegible]

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PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

[illegible]

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

[illegible]

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IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

2. Minority and Women Material Suppliers

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

List the Superintendent's Name

TRADE CONTRACT – 32A –Hardscape & Landscape

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor’s execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 32A –Hardscape & Landscape

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

Hardscape & Landscape as specified in contract documents

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

GENERAL

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.
2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.
3. Traffic Control – This Subcontractor will provide a flagmen with stop signs and appropriate training to assist and manage traffic flow, for haul trucks to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.
4. Appropriate Common Requirements:
 - a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
 - b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
 - c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.

- d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor’s ability to acquire.
 - e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.
5. Add Alternate #1 - This subcontractor shall review the alternate as shown in the contract documents. This subcontractor shall provide alternate pricing for the alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be \$0.

HARDSCAPE

6. Hardscape – This Subcontractor shall furnish and install all hardscape materials and components in strict compliance with the Contract Documents including but not limited to the following:
- a) Sidewalks (C-104 - Notes 1, 2 & 14)
 - b) Site Stairs (C-104 – Notes 3 & 8; LH101, 8-9/LH502)
 - c) Concrete for site retaining walls (C-104 - Note 7)
 - d) Surface and Wall Mounted Railings (C-104 - Note 4 & 5; 1-2,8-9/LH502)
 - e) Aluminum railings at existing building entrances (A531 & A532)
 - f) Salvaged Paver Installation (C-104 - Note 12)
 - g) New Pavers (Type A - LH101)
 - h) Concrete ribbon curb (LH101 & LH501)
 - i) Asphalt paving repair including all milling and repaving (LH100, LH101)
 - j) Replacing curb and gutter where impacted during construction (LH100, LH101)
 - k) Concrete Landing (LH101; 1/LH501)
 - l) This scope excludes the three window wells. (C-104 – Notes 9, 10, 13)
7. Concrete – This Subcontractor shall provide all concrete material. This Subcontractor shall also include all equipment and labor to pump the concrete into place including associated clean up, transport concrete to the pouring area, wheelbarrow, buggies, and mobile pump. This includes a minimum of one man per truck when conducting pours. This Subcontractor shall coordinate with the Owner’s testing agency as required per the Specifications; this includes, but is not limited to, providing proper cylinders, curing sheds, and test boxes per applicable ASTM sections or as needed. Any additional cylinder breaks requested by this Subcontractor will be paid for by this Subcontractor. In the event that a test should fail, this Subcontractor shall either remove and replace the represented work, or repair the represented area as directed by the Structural Engineer and Architect. All cost associated with additional testing and rework shall be the responsibility of this Subcontractor.
8. When pouring, subcontractor will notify the construction manager a minimum of 48 hours prior to any pour.
9. All related material to concrete such as curing compound; heated blankets, sealants, etc. are the responsibility of this subcontractor.
10. Subcontractor will be responsible of the concrete retaining walls shown in the landscape drawings including shoring, formwork, placing concrete, curing, etc.
11. Saw-cutting – Saw-cutting required by the Contract Documents shall be the responsibility of this Subcontractor. Construction joints shall be made according to the construction documents. This Subcontractor shall ensure that the work area shall remain clean of dust, concrete waste, excess water, and any other debris caused by the saw cutting process.
12. This Subcontractor is responsible for providing or building a concrete washout station, including regular maintenance and cleanout. This includes the removal there of once this scope of work has been completed.

13. Misc. Metals – Furnish and install all miscellaneous metal items such as handrail and guardrail associated with hardscape and at the exterior entrances. This excludes glass guardrail which will be provided by 08B.
14. Unit Pavers – Furnish and install all unit pavers including all re-used and new unit pavers with the associated subbase, setting bed, adhesives, sand joint filler, etc. necessary for a complete system in accordance with the Contract Documents. This Subcontractor will protect paver work from damage and traffic until final acceptance.
15. Asphalt Paving – All asphalt paving, striping, and asphalt signage shall be by this subcontractor.
16. This subcontractor shall provide a concrete washout dumpster for the washout of concrete trucks for this scope of work.
17. This subcontractor shall be responsible for striping of parking spaces and crosswalk on asphalt and painting of curb to match existing
18. This subcontractor shall install all irrigation sleeves under sidewalks, pavers and through site retaining and seat walls. Coordinate sizing of sleeves with irrigation plans. (U104)
19. This subcontractor shall provide and install all control joints, expansions joints, water stops and joint sealants for hardscaping.
20. This subcontractor shall provide and install all base layers for hardscape to include geotextile filter fabric, stone, compacted washed stone, stone aggregate, DGA, etc.
21. This subcontractor shall provide and install all reinforcement as required for all hardscaping to include but not limited to the following: rebar, wire mesh, WWF, etc.
22. This subcontractor shall provide and install ADA ramps including detectable warning surface.

LANDSCAPE

23. Landscape - This Subcontractor shall furnish and install ALL landscape materials and components shown or called out for in the Construction Documents including, but not limited to, filling materials, irrigation systems, drainage board, soil testing, plant selections, felt fabric, planting or top soil, bedding, plantings, mulches, composts, light weight planting medium, gravel or decorative rock, turf, sod, shrubs, trees, soil amendments, existing lawn re-conditioning, sub drainage, maintenance period, and all necessary materials for a comprehensive installation in strict compliance with the Contract Documents.
24. This subcontractor shall replace all sod, mulch and landscaping that has been disturbed at the location of the temporary walkway that is installed adjacent to Administration Drive. Extents of the walkway is shown on page 1 of the site logistics plan.
25. Steel Edging – This Subcontractor will furnish and install steeling edging around all planting beds and as shown in the contract documents.
26. Layout – This Subcontractor shall provide all additional surveying, engineering, field dimensions, and layout as necessary to complete his work. The layout of this work shall be coordinated with the work of other trades. All work shall be laid out far enough in advance that any discrepancies or conflicts can be resolved without delaying the overall work. Any such discrepancies shall be reported to the Construction Manager in writing (requesting written clarification) prior to proceeding.
27. Irrigation – This subcontractor shall be responsible for all irrigation as required by the contract documents.

(U104 & U105) This shall include all piping, fittings, wiring, valves, decoders, valve boxes, spray heads, rotors, drip lines and other accessories required for a complete irrigation scope of work. Irrigation devices must be RainBird to match existing student center system. This subcontract shall provide all rerouting and tie-in to existing system as required to provide a fully functioning system. This subcontractor shall flush all lines prior to installing nozzles.

28. Coordination & Sequencing – At the beginning of this project, this subcontractor shall be responsible for isolating the zones with-in the construction limits. This will require the subcontractor to cut and cap the existing PVC line and associated controls conduit/wiring. The existing pipe/conduit shall be protected with a weatherproof box and the wires must be protected with an approved waterproof splice kit. This shall be done at two locations, at the “plan west” of the site and at the student center on the “plan east” of U104. A metallic junction box can be used inside the student center for protecting wiring where they are cut and capped. Once the piping is capped inside the student center, this subcontractor shall grout and seal existing penetrations through the student center wall. At the point of connection inside the student center building, this subcontractor shall be responsible for running piping and controls conduit and wiring inside the building and coring the existing retaining wall to new stub-out location. This subcontractor shall properly seal penetrations to be weathertight.
29. Training – This subcontractor shall provide re-training to the owner/operator on the new irrigation system.
30. Existing Soil Condition – It is the responsibility of this Subcontractor to examine, test, and investigate the existing soil conditions to identify his materials source compliance.
31. Necessary Items for Completion – The Subcontractor will provide all items necessary for a complete and total turnkey landscaping package, including compliance with requirements of the Contract Documents, applicable codes, and governing authorities.
32. Weather – Subcontractor shall proceed with his work only when weather conditions will permit the materials to be installed in accordance with those recommendations.
33. Surface Protection - Subcontractor is to provide the proper protection for the landscape varies layers including, filling materials, topsoil, planting medium, roots of trees, etc. It is the responsibility of this subcontractor to protect each of landscape layers from weather conditions, erosion, traffic abuse, etc.
34. Maintenance – This Subcontractor will provide maintenance services for all landscaping work included in this scope of work as well as for the new zones of the irrigation system. This will include winterizing the system during the first year. This maintenance period shall begin upon the date of substantial completion.
35. Mobilizations – This Subcontractor has included multiple mobilizations to complete this work.
36. Trees – This Subcontractor shall provide and install all tree staking and gator bags as required by the contract documents.
37. Fertilizer – This Subcontractor shall provide and install fertilizer and fertilizer tablets as required by the contract documents
38. Grading – This subcontractor shall be responsible for fine grading and final grading for all landscaping areas.

END OF SPECIFIC SCOPE