INVITATION FOR BIDS
CCK-2269-18

Brachytherapy Expansion
Project 2457
ADDENDUM #2
2/9/2018

Offeror must acknowledge receipt of this and any addendum as stated in the Request for Proposal.

The following shall clarify and/or modify the original bid documents as issued by the University of Kentucky.

1. This is to delay the Opening of Trade Category WC-31A Excavation and Shoring from 2/13/2018 until 2/20/2018.

2. The bid opening date for all other trades will not change and are scheduled to be opened on 2/13/2018.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

Contracting Officer / (859) 257-5409
UNIVERSITY OF KENTUCKY – BRACHYTHERAPY EXPANSION
UK Project No. 2457.0

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
BRACHYTHERAPY EXPANSION

Subcontract 31A – Excavation & Shoring

Project No. 2457.0 Project Title: UK Brachytherapy Expansion
Purchasing Officer: Mike Mudd

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-2269-18

BID OPENING DATES: 20 February 2018

TRADE CONTRACT DESCRIPTION: Excavation and Shoring

TRADE CONTRACT NO.: 31A
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
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. 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-2269-18 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 ________________________________

_____________________________ DOLLARS AND ___________________ CENTS.

_____________________________ DOLLARS AND ___________________ CENTS.

($_________________________)

BID ALTERNATE1:

Provide deductive alternate for savings associated with performing traditional rock removal in lieu of Chemical Rock Fracturing

FOR THE DEDUCTIVE SUM OF ________________________________

_____________________________ DOLLARS AND ___________________ CENTS.

_____________________________ DOLLARS AND ___________________ CENTS.

($_________________________)

(USE WORDS)

(USE FIGURES)
BID ALTERNATE 2:

Provide alternate for using hydro-vac for complete excavation of the expansion area.

FOR THE ADDITIVE SUM OF ________________________________

__________________________________________________________

(USE WORDS) DOLLARS AND ___________________________ CENTS.

(USE WORDS) (USE WORDS)

($________________________)

(USE FIGURES)
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.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>(01) Small Business</td>
<td></td>
</tr>
<tr>
<td>(02) Large Business</td>
<td></td>
</tr>
<tr>
<td>(03) Disadvantaged Small Business</td>
<td></td>
</tr>
<tr>
<td>(04) Disadvantaged Large Business</td>
<td></td>
</tr>
<tr>
<td>(05) Woman-Owned Small Business</td>
<td></td>
</tr>
<tr>
<td>(06) Woman-Owned Large Business</td>
<td></td>
</tr>
<tr>
<td>(07) Disadvantaged Woman-Owned Small Business</td>
<td></td>
</tr>
<tr>
<td>(08) Disadvantaged Woman-Owned Large Business</td>
<td></td>
</tr>
<tr>
<td>(09) Other</td>
<td></td>
</tr>
</tbody>
</table>

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.
THE FOLLOWING ITEMS ARE HEREBITH 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.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>COST PER UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavation</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Spoil Removal</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Shoring System</td>
<td>SF</td>
<td></td>
</tr>
<tr>
<td>Backfill</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Flowable Fill</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Asphalt Paving</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>LF</td>
<td></td>
</tr>
<tr>
<td>Dumpsters</td>
<td>EA</td>
<td></td>
</tr>
<tr>
<td>Landscape Backfill</td>
<td>CY</td>
<td></td>
</tr>
<tr>
<td>Rock Removal</td>
<td>CY</td>
<td></td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>DIVISION OF WORK</th>
<th>NAME AND ADDRESS OF SUBCONTRACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 – Excavation & Shoring

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 – Excavation and Shoring

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:

- Division 1 – General Requirements
- Division 2 - Existing Conditions
  - 024119 - Selective Demolition
- Division 3 - Concrete
  - 030300 - Structural Excavation and Backfill (as it pertains to this scope of work)
- Division 5 – Metals
  - 055000 - Metal Fabrications
  - 051000 - Structural Anchors
- Division 12 - Equipment
  - 129300 - Site Furnishings
- Division 13 - Special Construction
  - 134900 - Radiation Protection (as it pertains to this scope of work)
- Division 31 – Earthwork
  - 316613 – Soil Stabilization/Underpinning System
  - 316513 - Micropiles
- Division 32 – Exterior Improvements
  - 312319 - Dewatering
  - 321313 - Concrete Paving
  - 321373 - Concrete Paving Joint Sealants
  - 321400 - Unit Pavers
  - 329200 - Turf and Grasses
  - 329300 - Plants
- Division 33 – Site Utilities
  - 334100 - Storm Utility Piping
  - 334600 - Subdrainage

***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. This Subcontractor will generally perform the following work which will include but not be limited to:
a) Excavation and shoring of the general work area  
b) Rock Excavation  
c) Selective site demolition  
d) Abandoned utility demolition  
e) Backfill  
f) Subgrade prep  
g) Sanitary and storm relocation  
h) Sanitary and storm pump around equipment and monitoring  
i) Shoring of existing in use utilities (telecom ductbank)  
j) Removal of shoring system  
k) Excavation Access  
l) Utility marker placement  
m) Asphalt paving and patching  
n) Concrete curb and gutter  
o) Landscaping demolition  
p) Landscaping  
q) Landscape paving and masonry  
r) Planter boxes benches etc.  
s) Tree removal and replacement  
t) SWPP control, plan, and reporting requirements  
u) Temporary walls and entrances  
v) Rock Anchors/ Micropiles  
w) Metal Grates  
x) Sidewalks – Temporary and Permanent

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. **Erosion Control** – This Subcontractor shall be responsible for implementing and maintaining all erosion control methods necessary for the project in accordance with the Contract Documents, including the SWPPP specifications, or added per LFUCG or State inspectors, for the entire duration of this project. Specifically, this Subcontractor shall be responsible for all Temporary Erosion and Sediment Control as set forth in the Contract Documents. All erosion control shall be checked at the end of each day and shall be fixed if problems do occur during this Subcontractor’s scope of work. Erosion control will be checked after every rain/weather event throughout the duration of this work. Maintenance and removal of silt fencing and other erosion control measures after this Subcontractor demobilizes form the site will be by others. This Subcontractor will maintain a log of all erosion control inspections, outcomes, modifications, changes, etc. to be located at the Construction Manager’s job trailer. This Subcontractor has included for temporary controls as required during installation of site utilities.

4. **Retention Systems & Bracing** – This Subcontractor shall submit to the project manager for approval, a system for retention and bracing of the excavated area for the duration of the project. Special care should be paid to the shoring and retention of existing duct banks on the south side of the excavation area. This Subcontractor has included for all retention systems sheeting and bracing in accordance with the Contract Documents. This includes but is not limited to all engineering, materials, excavation, shores, bracing, tiebacks, cast-in-place concrete, structural steel, wood lagging, dewatering, temporary enclosures, warranties, and installation thereof. This Subcontractor has included for any necessary permitting required for the retention systems as noted by the Contract Documents, City, and State regulations. This Subcontractor has also included final removal and de-tensioning of tiebacks, shoring system shall be removed a minimum of 5’ below finished grade. Subcontractor shall design/ engineer shoring system to allow for installation of other trades scope.

5. **Location of Existing Utilities** - This Subcontractor shall locate all existing utilities by means of hydro-vac, badger or similar means. Micropile, soil nail or other similar system will be used to shore the existing telecom
ductbank. hydro-vac will be used to ensure no part or parts of the shoring system will damage the existing ductbank.

6. Shoring of Existing Utilities - This Subcontractor shall be responsible for locating existing utilities within the excavation and shoring limits and will provide sufficient shoring per details to ensure continued service of these utilities while work is performed under and around them. General protection of these utilities is the responsibility of this Subcontractor.

7. Tree Protection, Removal and Replacement – This Subcontractor shall provide all tree protection and removal as required and per contract documents. This Subcontractor shall follow all specifications as they pertain to tree protection. Additionally, this Subcontractor has accounted for all tree replacement as called for in the project documents.

8. Landscaping - This Subcontractor has accounted for all final landscaping to include but not limited to: memorial marker replacements, mulching, graveling, paving, planting, etc. as may be required to return the site to a pre-disturbed condition as per the contract documents. **This Subcontractor will survey** the existing site prior to bidding to ensure complete understanding of this scope item. This will include removal storage and replacement of all pavers and landscape masonry.

9. Clearing & Grubbing – This Subcontractor shall be responsible for cutting and removing all trees and stumps that are needed. This Subcontractor shall coordinate this process as to provide minimal disturbance to surrounding neighbors. This Subcontractor shall follow all specifications as they pertain to tree protection. The Subcontractor shall strip vegetation, topsoil, roots and other unsuitable material to a depth determined by the Structural testing/Inspection Agency.

10. Road Closure – This Subcontractor will provide for all permitting, signage, notification, etc. as required to close Hospital Avenue and provide for detours and signage along Rose St. for the duration of the project as called for in the site logistics plan. This Subcontractor will provide temporary roads, stops, intersections as are called for in the site logistics plan. Additionally, this Subcontractor will provide for removal of temporary items and return the site to a preconstruction condition.

11. Selective Site Demolition – This Subcontractor will be responsible for clearing and removing all sidewalks, curbs, asphalt, gravel, gutters, existing debris, retaining walls, etc. needed. This Subcontractor has included for any necessary saw cutting, hand demolition, or further revision of means and methods as required to minimize vibrations to adjacent occupied structures prior to heavy demolition or excavation work in order to provide an isolation buffer zone between the work area and the existing structures. All asphalt cuts will be saw cut such that they may be cleanly re-patched or paved back to. No “cold patching” will be allowed. This Subcontractor will account for salvage of all paving stones as required or replace pavers with new material.

12. Excavation – This Subcontractor shall perform site excavation to the depths and limits on the drawings and as specified herein, including all necessary rock removal.

   a) Work for Others: This Subcontractor will excavate to the extent required by all Subcontractors working within the limits of the expansion, footers, walls, under slab plumbing, lift stations, manholes. Additionally, this Subcontractor will excavate in such a manner as to provide general access to the site via ramp as called out for in the site logistics plan. This Subcontractor will coordinate excavation with all Subcontractors to ensure proper excavation for follow on work. Ramp to be provided by this Subcontractor will be rock stabilized and maintained for duration of project.

   b) General Order of Work: The work will conform to the following general order. This Subcontractor will excavate to the fullest extent required for all Subcontractors. Under slab plumbing and footers will be installed first. This Subcontractor will then backfill to such extent to allow for slab and wall pour preparation. Once slabs and wall are cured the topping slabs will be poured in sequence to continue to allow access to various areas. As backfill is available this Subcontractor will provide final backfill in multiple mobilizations and gradually phase in landscaping as available. Upon final pours, waterproofing, etc. This Subcontractor will provide final backfill, landscaping, paving, etc. to close out the project.
c) **Method of Rock Removal:** This Subcontractor is aware that this is an existing treatment space for high risk patients. Due to this chemical rock fracturing or other means of removal may be necessary to avoid the sound and dust impacts of traditional Hoe-Ram methods of removal. This Subcontractor has accounted for costs associated with special rock removal methods including off-hour work, and if not required will provide appropriate credits to the University upon project completion.

13. **Subgrade Prep** – This Subcontractor shall be responsible for all subgrade prep. This Subcontractor will make proper coordination with other Subcontractors to ensure appropriate subgrade for all duct banks, steam tunnels, chilled water lines, communication lines, low voltage lines, man holes, pull boxes, asphalt and concrete paving, and stair tower foundations.

14. **Foundation Excavation** – This Subcontractor will excavate next to existing foundations and treatment areas. Great care should be taken to not damage these foundations or their associated waterproofing. This Subcontractor has accounted for all hand excavation as may be required to achieve this. Additionally, this Subcontractor will provide for immediate repair of existing waterproofing should the existing foundation waterproofing become damaged in anyway during excavation or construction. For new foundations created during the course of construction a minimum of 3 feet from outside face of foundations will be maintained. Additionally, new waterproofing surfaces will be protected from damage during backfill and immediate repair will be available during backfill. This Subcontractor will at a minimum of 3 feet of clearance from shoring systems etc. to all walls for clearance for follow on Subcontractors.

15. **Hand railing** – This Subcontractor will provide site handrails as required per the safety plan and for stairs etc. Handrails will be inspected twice daily and repaired as necessary.

16. **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.

17. **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.

18. **Protection** – The Subcontractor shall coordinate and do his grading work in a way that protects existing grades, subgrades, and fills from surface water. All de-mucking and pumping of surface water from excavations, if necessary, is part of this work. Additionally this Subcontractor will provide for the protection of overhead electrical in the project area.

19. **Stockpile** – This Subcontractor will be responsible for all stockpiling, hauling off, and hauling in materials needed to complete the necessary scope of work. Stockpiles are to be placed in locations such that they do not affect other Subcontractor’s work. 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 site and has accounted for such.

20. **Construction Entrances** – This Subcontractor shall maintain a stone stabilized entrances and access ramps while working on this site. This stone entrances area shall contain some type of drainage system to avoid buildup of water. This Subcontractor is to maintain control measures by mucking out and disposing of sediment as needed. Removal and disposal of all control measures and construction entrances at the end of the project will be by others. This Subcontractor has accounted for a minimum of 4 stone stabilized construction entrances. This Subcontractor has included all woven geo-fabric and 8” of compacted stone at job site entries, loading dock access drive, and loading dock. Additionally this Subcontractor shall provide for wash-down stations for all vehicles entering and leaving the site. Where rock entrances may no be required due to existing asphalt being sufficient this contractor will include a milling a repaving of the entrances and logistics space to return to a like new condition.

21. **Temporary Walls** - Temporary watertight, and HVAC containing site walls will be required on this project constructed in such a way as to provide access to the subterranean construction but maintain a negative
temperature controlled environment within the construction space. Refer to site logistics plan for additional details.

22. **Radiation Shielding** - Construction will require shielding of an existing treatment space as shown on the site logistics plan. This Subcontractor will provide for adequate shielding of this site so as to allow safe access to the site during all phases of construction. This Subcontractor will submit for approval the shield plan to the CM Project Manager and University Physicist for final approval before installing. Additionally, special soils haul off and destruction may be required per Hazmat requirements. This Subcontractor has accounted for all potential costs associated with soil remediation.

23. **Storm and Sanitary Relocation** – This Subcontractor will be responsible for all storm line and sanitary line relocation as indicated on the construction drawings. All testing, inspection, permits, etc. for this work will be the responsibility of this Subcontractor. Additionally, this Subcontractor is responsible for all sump line hookups to storm drainage for all manholes. This Subcontractor shall be responsible for furnishing and installing all components for the complete and workable installation of the storm and sanitary sewer systems as required by the contract documents. Examples of complete and workable installation are as follows but is not limited to:

   a. The Subcontractor will install and or adjust required utility manhole tops to match proposed grade.
   b. The Subcontractor will flush and clean the storm and sanitary sewer systems at the completion of the work.
   c. The Subcontractor will connect to existing storm & sanitary structures as needed.
   d. Existing Utility survey will be completed by this Subcontractor and potholing of utilities will also be performed before excavation
   e. All sanitary, and storm waste will be in place and properly connected prior to tie in of existing lines.
   f. This Subcontractor has included all pump arounds necessary for all tie-in and switch over work.
   h. This Subcontractor has included all mechanical restraints and or thrust blocks as required or needed.
   i. All temporary restraints or bracing as needed for existing active utilities in order to install adjacent new utility lines.
   j. This Subcontractor has included for all sump to storm drainage hookups required for each manhole.

24. **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.

25. **Backfill** – This Subcontractor shall be responsible for backfilling all work, foundation walls, site retaining walls, etc. This shall be done in lifts, in coordination with the waterproofing and other affected Subcontractors. The Subcontractor will be aware that backfill will have to be coordinated such that finalizing work at different levels can be achieved before total backfill of trenching is accomplished. This Subcontractor is responsible for coordination with various Subcontractors to accomplish this. Backfill material, warning tape, finished grades etc. will be per the contract documents.

26. **Asphalt Paving** – This Subcontractor will be responsible for all asphalt paving as specified in the contract documents, as well as any and all patching required to return the site to pre-disturbance conditions. Manhole covers will be provided by this Subcontractor and this Subcontractor will ensure proper elevation of cover within finished elevation of asphalt. This will include a re-milling and paving of the area inside the construction logistics area to include re-milling and re-paving of all areas disturbed by traffic in and out of the construction space.

27. **Concrete Curb and Gutter** – This Subcontractor will be responsible for all concrete curb and gutter as specified in contract documents or as required by code.

28. **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.

29. **Subsurface Conditions** – A copy of a subsurface investigation of the site is attached to this packet. 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.

30. **Dewatering** - This contractor will maintain sump pumps such that the trench will remain dewatered for the duration of this and follow on Subcontractors work for the duration of each phase of construction and as required by the project manager.

31. **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.

32. **Traffic Control** – This Subcontractor will provide a flagman 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. Additionally this Subcontractor will provide all permitting, flagmen, signs, etc. as required for the closure of Press Avenue as required for crossing utilities.

33. **Schedule / Weather** – This Subcontractor shall make all provisions for an accelerated construction schedule. Contract extensions will not be considered for abnormal weather conditions. As a Team we must anticipate and do everything reasonable and prudent to get over, through and/or around the obstacles that beset every construction project.

34. **Appropriate Common Requirements:**
   a) **Off Hours Work** - This project will involve work in and around existing treatment areas. Due to this any or all of this project scope may need to be completed during off hours/weekends/etc. All Subcontractors will account for this work for any and all of their scopes.
   b) **ICRA - ILSM:** This Subcontractor is aware of the special considerations for Infection Control and Interim Life Safety measures required in construction around existing treatment spaces and has provided for additional measure and methods that may be required to protect patients from construction operations.
   c) **Badging Identification** - This Subcontractor is aware that security badging is required for all personnel needing site access. This Subcontractor will be responsible for individually required security access badges and all costs associated.
   d) **General healthcare experience** - this Subcontractor will provide to the CM proof of at least 3 years of healthcare construction experience in the last five years of operations. Rejection of bid may be made solely on the basis of experience. Additionally Subcontractor will indemnify and hold harmless the University and Whiting-Turner from any bid protest or protest of procurement process if rejected on the basis of experience.

**END OF SPECIFIC SCOPE**