

**ADDENDUM NUMBER:** 7  
**PROJECT:** UNC Charlotte Residence Hall Phase XIV - Early Site Packages

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**DATE:** March 20, 2015  
**OWNER:** UNC Charlotte  
**ARCHITECT:** FWA Group

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**NOTICE TO BIDDERS:**

This addendum is issued prior to receipt of bids, proposals, and its contents do hereby become a part of the pricing documents for the above referenced project.

All subcontractor bidders are responsible for assuring that their subcontractors and vendors are properly apprised of the contents of this Addendum.

All information contained in this Addendum supersedes and takes precedence over any conflicting information in the original pricing documents.

All bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal for their bid package.

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**GENERAL REVISIONS TO BID INFORMATION**

- 1 Pre-Bid RFI #4 Responses dated 3/19/2015

**REVISIONS TO DESIGN DOCUMENTS**

- 1 Refer to Architect's Addendum Number Three (3) dated 3/13/2015 - Attached

**REVISIONS TO BID PACKAGE MANUAL**

- 1 Revised Invitation to Bid dated 3/18/2015
  - 2 Revised General Summary of Work dated 3/18/2015
  - 3 Revised Bid Package 02A dated 3/18/2015
  - 4 Revised Bid Package 02H dated 3/18/2015
  - 5 Revised Bid Package 03C dated 3/18/2015
  - 6 Revised Bid Package 05A dated 3/18/2015
  - 7 Revised Bid Package 14A dated 3/18/2015
  - 8 Revised Form of Proposal dated 3/18/2015
- 

**END OF ADDENDUM**

# RODGERS

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## Early Site Package Pre-Bid RFI #4

Project: **UNCC Phase XIV Residence Hall - CD Pricing**  
To: **FWA Group**  
Prepared By: Wyatt Starnes  
Phone: 704-451-2308  
Fax: 704-535-0055  
Email: wstarnes@rodersbuilders.com  
Date: 3/19/2015 **FWA, BSDE & Optima Response 2/5/2015**

### Questions & Clarifications

1	Alternate 14: Is 03C to include pricing for the footings indicated for alternate 14 at breezeway and shown on structural sheets S201-S and S103? If so, please add this line item to the bid form. Also, verify footings F9A and adjacent bench footing 7/S3.05 shown on sheet S201-S at breezeway are both to be priced as Alternate 14. Lastly, detail 7/S3.05 shows a concrete wall- please confirm if a wall is required at this "bench" location and provide top of wall height.
Answer:	<b>Rodgers Response: 03C is to include pricing for the footings indicated for Alternate 14 at both the bench locations and bike canopy locations. See revised Sheets S103, S201-S and details 8&amp;10/S305 included in Addendum 5. See revised Form of Proposal - "Alternates" sheet.</b>
2	BP03C item B17 requires bracing of foundation walls for backfill operations. What duration should be included for leaving this bracing in place?
Answer:	<b>Rodgers Response: Bracing is required to remain in place until the first floor elevated slabs have been poured and reach full strength.</b>
3	BP03C item GC24 states BIM does not apply to this package. Would this not eliminate the requirement of Revit coordination embed plan per BP03C item GC16 and CAD as built drawings with pay apps per F18?
Answer:	<b>Rodgers Response: Line item GC24 in BP03C has been removed. See revised BP03C package included in this addendum.</b>
4	Is BP03C responsible for providing flagmen at the main entrance gate? If so, for what duration? This is included in BP02A and possibly other bid packages.
Answer:	<b>Rodgers Response: BP03C shall be responsible for flagmen as it relates to deliveries, travel, unloading, hoisting, installation of its work. This shall be limited to the duration and scope of its on site operations. A job site guard at the entrance will be provided by the CM.</b>
5	Refer to General Summary Of Work-Paragraph 16- Temporary Electric Power & Lighting. In this connection please clarify what size of temporary power service is required as only details of crane power are available. Also regarding maintaining and removal of this temporary service- we will be able to do it till the time we complete the early site package work. Please clarify who will provide and maintain service after that time. Or if the temporary power service for the building will be separate beyond one provided by early site package EC. Please clarify?
Answer:	<b>Rodgers Response: General Summary of Work sections "Temporary Electrical Power and Lighting" and "Temporary Heating, Cooling, and Ventilation" have been removed. See revised Bid Packages issued in this addendum.</b>
6	Please refer to Specific Summary of Work – Bid Package 02H-GC 13 regarding clean up labor. Is it 1 unskilled labor per week from mobilization to demobilization or every day of the week till demobilization? Please also tell us what the time schedule is for Early Site Package (Electrical) so as to account for this labor in our bid package accordingly. Please clarify?
Answer:	<b>Rodgers Response: All bid packages have been revised such that this requirement has been removed. All Bid Packages are responsible for the daily clean up of their operations. See revised bid packages included in this addendum.</b>
7	Do the covered walkways require the installation of temporary sidewalk?
Answer:	<b>Rodgers Response: The covered walkway as shown along the RDH will require sidewalk.</b>
8	How long will bid package 02A be required to provide flagmen at the construction entrance/access road?
Answer:	<b>Rodgers Response: See typical response to RFI #4 above.</b>
9	Bid package 02A is responsible to upgrade the access road from Hwy 49. Please provide description(s) of upgrade(s)
Answer:	<b>Rodgers Response: See response to RFI #19.</b>

10	BP03C F39- Will monuments only be provided or will we have actual building points for control?
Answer:	Rodgers Response: Monuments only.
11	The Bid Package Manual indicates that the Electrical Contractor shall provide an unskilled laborer, but it does not say whether it is for 1 day or 5 days per week. Please clarify.
Answer:	Rodgers Response: See response to RFI #6.
12	It was said that the Electrical Contractor will install and remove the temporary to the trailer and the tower crane. If this contractor does not get the final packages contract, then he will have to return to the site at a later date to do the removal. Is this how we must price it? This also applies to the site lighting fixture that must be removed for the construction roadway.
Answer:	Rodgers Response: Regarding the temporary power removal, this will be conducted by others at a later date. Please adjust assumption.
13	Spec Section 01 22 00 Unit Price No. 6 Waterproofing at Sanford Hall refers to section 012100 Allowance quantity to be included in Base Bid. Allowance Spec section 012100 No. 5 Waterproofing @ Sanford Hall to include in Base Bid 600 SF of waterproofing. Is this to be provide by the 02A Sitework contractor? If so this does not match the bid form unit price/allowances under 02A Bid Package Manual.
Answer:	Rodgers Response: This allowance is to be included in the 03C Bid Package.
14	Unit Prices No. 1 - 6 in spec section 012200 does not match the Bid Package Manual 02A Form of Proposal Unit Prices. The only listed Unit Prices for 02A Bid Package is for Curb & Gutter Removal & replacement?
Answer:	Rodgers Response: Addendum #5 included a revised 01 22 00 Unit Price spec section. This addendum has corrected/modified the project unit prices for each Bid Package.
15	Who collects and disposes of recyclable materials per waste management spec section 017419 or 01524-8?
Answer:	Rodgers Response: Each trade package will be responsible for bringing debris and trash to trash containers provided by CM and load properly into designated containers to separate the trash debris properly.
16	Will 02A bid package have to camera existing utilities and document existing conditions?
Answer:	Rodgers Response: Yes
17	Will 02A bid package have to camera new utilities and document conditions?
Answer:	Rodgers Response: This is not required
18	Bid Package 02A specific summary of work bid breakdown sheet line item 10.05 states City/County – Line Item Not Used – See allowance in 08.06. Line item 08.06 is not included in specific summary of work. Is line item 08.06 missing? Or does line item 10.05 need to be deleted?
Answer:	Rodgers Response: Line item 10.05 is not applicable. See revised price breakdown included in this addendum.
19	Bid package 02A specific summary of work GC07 Temporary Construction Entrance Road and laydown/staging area & site staging and logistic plan in the bid package manual call out/show a temporary construction entrance road. Calls out for this road to be 20 ft wide with 12" ABC Stone with filter fabric. Civil fencing plan C2.11 does not show this road. Can you give a linear footage we are to include in our proposal for this temporary construction road? Or add to plan page C2.11?
Answer:	Rodgers Response: See Phase 14 Site Logistics plan included in the Bid Package Manual showing this road. (Item #2 of the Subcontractor Document Exhibits).
20	Site staging and logistic plan in the bid package manual shows temporary sidewalks around Residence Dining hall building and along the street towards the main gravel construction entrance at Hwy 49. The Temporary sidewalk as shown on the site logistic plan is not shown on C2.11 fencing plan. Do we need to include this temporary sidewalk in our proposal? If so can you give a linear footage needed at this location? Or add to plan page C2.11?
Answer:	Rodgers Response: See Phase 14 Site Logistics plan included in the Bid Package Manual showing this road. (Item #2 of the Subcontractor Document Exhibits).
21	Do not see any Domestic &/or Fire Line Backflow preventers as called out in the bid breakdown line items 9.02 & 10.04 on the Civil drawings. Do we need to leave these line items blank or would you like to delete these line items?
Answer:	Rodgers Response: This scope will be by the future Building Package and therefore these can be left blank on the Specific Summary of Work Pricing Breakdown.
22	Refer to General Summary of Work-Paragraph 30.3 – Electrical Systems (Including but not limited to): a, b, c, d, e. Does this pertain to 02H Package. Please clarify as to what is specifically applicable to early site package?
Answer:	Rodgers Response: The General Summary has been revised and is included within this addendum. With this revision, General Summary 30.3 has been changed to General Summary 26.3. The items as outlined in the General Summary 26.3 are general in nature and the subcontractor for each trade package shall be responsible for covering the scope as outlined within their Bid Package. Paragraph 26.3.5 (a) and (b) apply to Bid Package 02H.
23	Refer to Bid Package 02H- Site Electrical – Specific Summary of work. Paragraph C01 – Allowance#1. 500 Cu Yards of trench rock. Since it is an allowance, it is suggested to specify a fixed/lump sum amount like Allowance #2 so that everyone carries a specified amount in the base bid.

Answer:

Rodgers Response: Allowances dealing with Cu Yards of soil/rock/etc. are specific to bid package 02A. See revised Bid Package Manual included in this addendum. As for the trench rock removal allowance of 500 Cu Yards, we expect the Subcontractor to provide an allowance based off of the given quantity and the Subcontractor's own unit prices. No fixed/lump sum allowance will be given.



**ADDENDUM NUMBER THREE (3)**

**DATE:** March 13, 2015

**PROJECT:** Resident Hall Phase XIV  
University of North Carolina at Charlotte  
Early Site Package  
SCO ID# 12-10117-03C  
Code 41026 Item 307

**FWA PROJECT  
NUMBER:** 2420.02.3

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This Addendum Number Three (3) forms a part of the Contract Documents, clarifies and/or modifies the original Documents for the above referenced project and subsequent Addenda, and shall take precedence over the original Contract Documents dated December 1, 2014 and all subsequent Addenda issued by The FWA Group.

*This Addendum consists of two (2) pages of written text and two (2) drawings.*

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**CHANGES TO PRIOR ADDENDA:**

- NA

**CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS:**

- NA

**CHANGES TO SPECIFICATIONS GROUP**

- NA

**CHANGES TO DRAWINGS:**

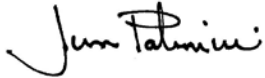
The sheets listed below (Revised by Addendum No. 3) are hereby revised and made part of the Contract Documents:

ADDENDUM NO. 3  
Residence Hall Phase XIV  
University of North Carolina at Charlotte  
March 13, 2015

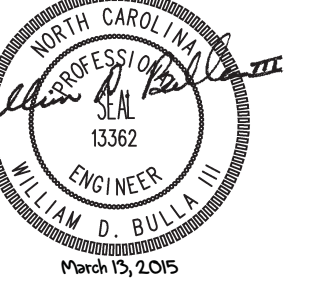
VOLUME 1 DRAWINGS

- a. S201-N 1<sup>st</sup> FLOOR NORTH FRAMING PLAN
- b. S203-S 3<sup>RD</sup> FLOOR SOUTH FRAMING PLAN
- c. A103-S LEVEL 3 SOUTH – FOR REFERENCE ONLY

**END OF ADDENDUM NO. 3**



Jim Palmieri, AIA  
The FWA Group



FOR CONSTRUCTION

**CONSTRUCTION DOCUMENTS**

**UNC CHARLOTTE**  
RESIDENCE HALL  
PHASE XIV  
EARLY SITE PACKAGE

UNIVERSITY OF NORTH  
CAROLINA CHARLOTTE  
9201 UNIVERSITY CITY BLVD.  
CHARLOTTE, NC 28223

MARK	DATE (YYYY-MM-DD)	DESCRIPTION
	2015-01-06	BID DOCUMENTS
▲	2015-01-26	ADDENDUM #1
▲	2015-02-05	ADDENDUM #2
▲	2015-03-13	ADDENDUM #3

FWA PROJECT NO: 2420.02  
SCO PROJECT NO: #12-10117-03C

DRAWN BY: KPM  
APPROVED BY: WDB

THESE DRAWINGS AND THE PROJECT MANUAL ARE INSTRUMENTS OF SERVICE AND REMAIN THE PROPERTY OF THE FWA GROUP ARCHITECTS. UNAUTHORIZED DUPLICATION OR REUSE WITHOUT WRITTEN CONSENT IS PROHIBITED.

SHEET TITLE

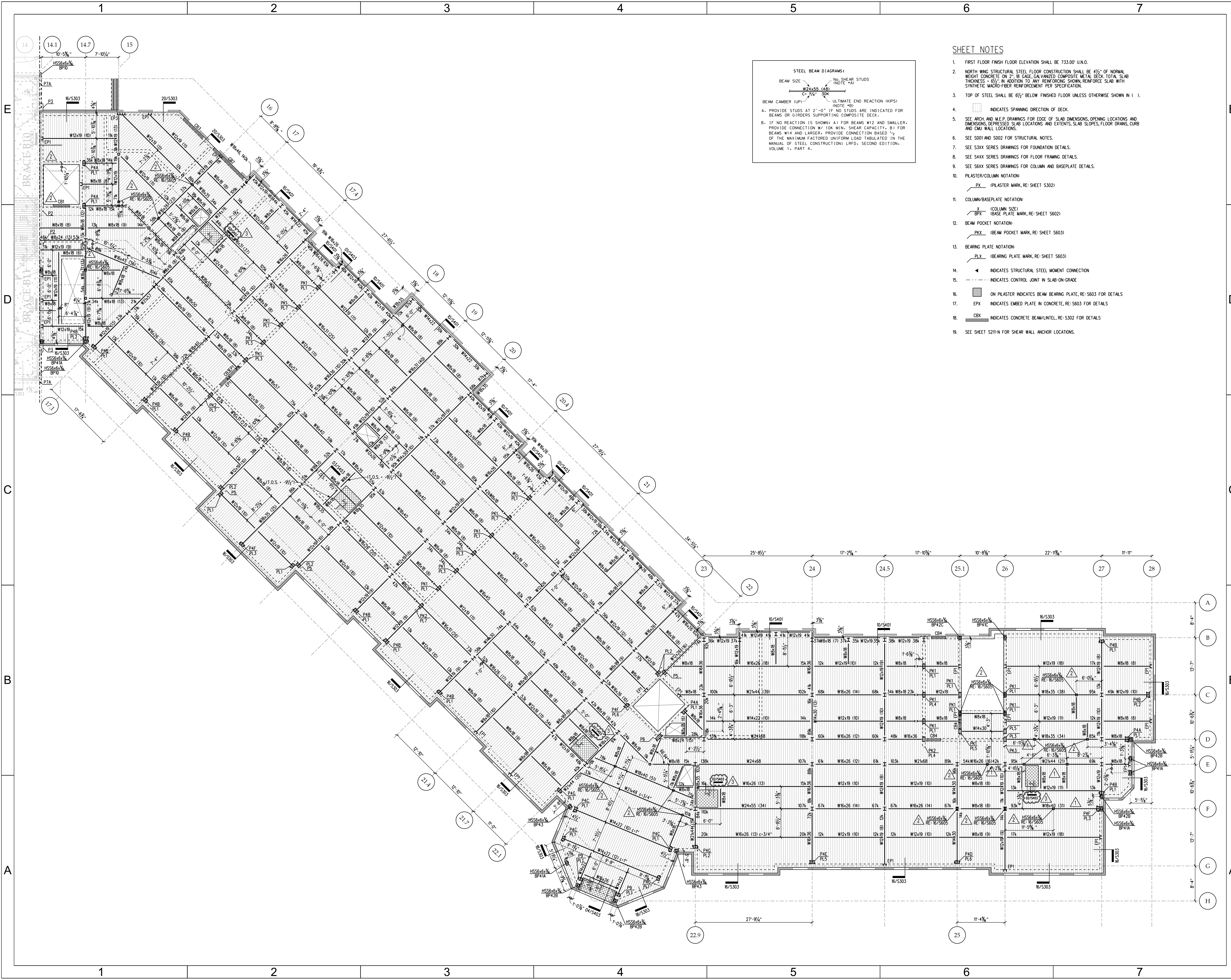
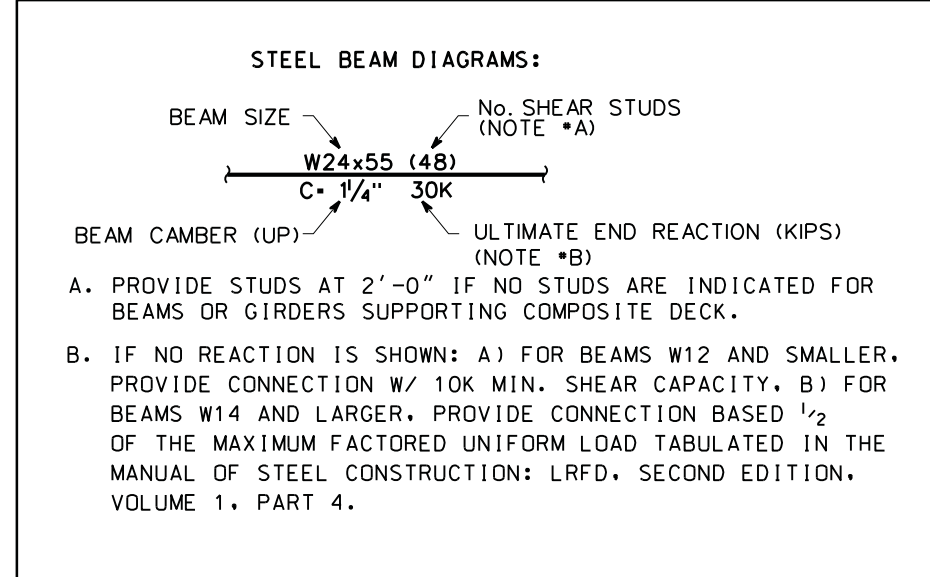
**1ST FLOOR  
NORTH  
FRAMING PLAN**

SHEET NUMBER

**S201-N**

**SHEET NOTES**

- FIRST FLOOR FINISH FLOOR ELEVATION SHALL BE 733.00' U.N.O.
- NORTH WING STRUCTURAL STEEL FLOOR CONSTRUCTION SHALL BE 4 1/2" OF NORMAL WEIGHT CONCRETE ON 2" 18 GAGE GALVANIZED COMPOSITE METAL DECK. TOTAL SLAB THICKNESS = 6 1/2". IN ADDITION TO ANY REINFORCING SHOWN, REINFORCE SLAB WITH SYNTHETIC MACRO-FIBER REINFORCEMENT PER SPECIFICATION.
- TOP OF STEEL SHALL BE 6/2" BELOW FINISHED FLOOR UNLESS OTHERWISE SHOWN IN ( ).
- INDICATES SPANNING DIRECTION OF DECK.
- SEE ARCH. AND M.E.P. DRAWINGS FOR EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, FLOOR DRAINS, CURB AND CMU WALL LOCATIONS.
- SEE S001 AND S002 FOR STRUCTURAL NOTES.
- SEE S3XX SERIES DRAWINGS FOR FOUNDATION DETAILS.
- SEE S4XX SERIES DRAWINGS FOR FLOOR FRAMING DETAILS.
- SEE S6XX SERIES DRAWINGS FOR COLUMN AND BASEPLATE DETAILS.
- PILASTER/COLUMN NOTATION:  
PX (PILASTER MARK, RE: SHEET S302)
- COLUMN/BASEPLATE NOTATION:  
BX (COLUMN SIZE)  
BY (BASE PLATE MARK, RE: SHEET S602)
- BEAM POCKET NOTATION:  
PKX (BEAM POCKET MARK, RE: SHEET S603)
- BEARING PLATE NOTATION:  
PLX (BEARING PLATE MARK, RE: SHEET S603)
- ◄ INDICATES STRUCTURAL STEEL MOMENT CONNECTION
- - - - - INDICATES CONTROL JOINT IN SLAB-ON-GRADE
- ON PLASTER INDICATES BEAM BEARING PLATE, RE: S603 FOR DETAILS
- EPX INDICATES EMBED PLATE IN CONCRETE, RE: S603 FOR DETAILS
- CBX INDICATES CONCRETE BEAM/LINTEL, RE: S302 FOR DETAILS
- SEE SHEET S211-N FOR SHEAR WALL ANCHOR LOCATIONS.



12-MAR-2015 13:40  
 \\BS&E02\Projects\2013\2013.23 UNCC Phase XIV\ACADD Files\ES&P\S201M.dgn

MARK	DATE (YYYY-MM-DD)	DESCRIPTION
	2015-01-06	BID DOCUMENTS
▲	2015-02-05	ADDENDUM #2
▲	2015-03-13	ADDENDUM #3

FWA PROJECT NO: 2420.02  
SCO PROJECT NO: #12-1017-03C

DRAWN BY: KPM  
APPROVED BY: WDB

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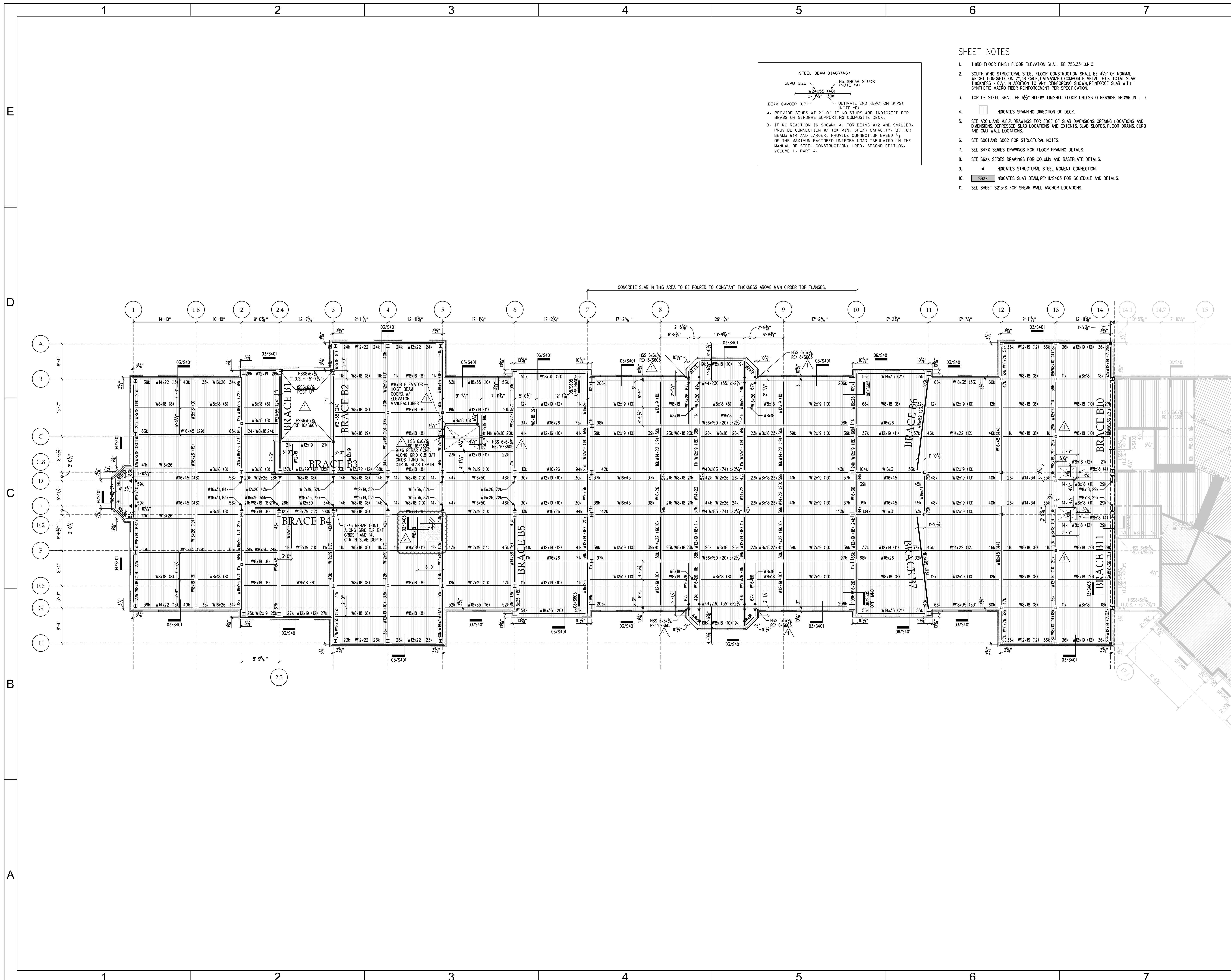
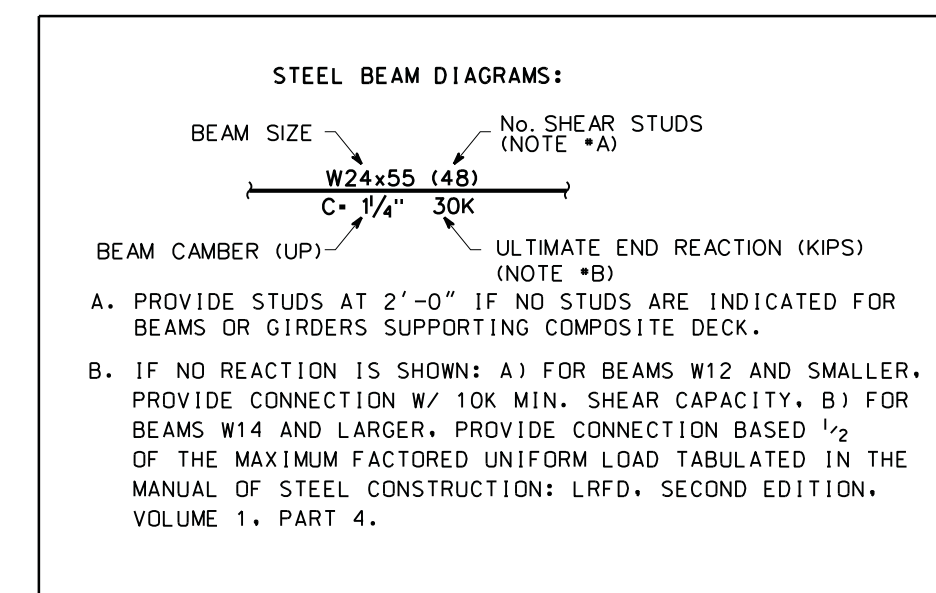
SHEET TITLE

**3RD FLOOR SOUTH FRAMING PLAN**

SHEET NUMBER  
**S203-S**

SHEET NOTES

- THRD FLOOR FINISH FLOOR ELEVATION SHALL BE 756.33' U.N.O.
- SOUTH WING STRUCTURAL STEEL FLOOR CONSTRUCTION SHALL BE 4 1/2" OF NORMAL WEIGHT CONCRETE ON 2" RIB GANVAZED COMPOSITE METAL DECK. TOTAL SLAB THICKNESS = 6 1/2". IN ADDITION TO ANY REINFORCING SHOWN, REINFORCE SLAB WITH SYNTHETIC MACRO-FIBER REINFORCEMENT PER SPECIFICATION.
- TOP OF STEEL SHALL BE 6/2" BELOW FINISHED FLOOR UNLESS OTHERWISE SHOWN IN ( ).
- INDICATES SPANNING DIRECTION OF DECK.
- SEE ARCH AND M.E.P. DRAWINGS FOR EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, FLOOR DRAINS, CURB AND CHAM WALL LOCATIONS.
- SEE S001 AND S002 FOR STRUCTURAL NOTES.
- SEE S4XX SERIES DRAWINGS FOR FLOOR FRAMING DETAILS.
- SEE S6XX SERIES DRAWINGS FOR COLUMN AND BASEPLATE DETAILS.
- ◄ INDICATES STRUCTURAL STEEL MOMENT CONNECTION.
- ▭ SBXK INDICATES SLAB BEAM RE-11/5403 FOR SCHEDULE AND DETAILS.
- SEE SHEET S213-S FOR SHEAR WALL ANCHOR LOCATIONS.



12-MAR-2015 13:40 \\BS&E02\Projects\2013\2013.23 UNCC Phase XIV\CAD Files\ESP\h\S203S.dgn



**SYMBOLS LEGEND:**

- MASONRY CONTROL JOINT. SEE ENLARGED PLAN DETAILS
- 1/2-HR, 1-HR PROVIDED FIRE RATED GYPSUM WALLBOARD CONTROL JOINT. SEE ENLARGED PLAN DETAILS
- PARTITION TYPE TAG. SEE FLOOR PLANS FOR FIRE RATED WALL TAGS. SEE ENLARGED PLANS FOR ADDITIONAL WALL TAGS. AND SEE PARTITION TYPES ON A600. NOMENCLATURE IS PER THE FOLLOWING:
  - WALL CORE NOMINAL WIDTH
  - WALL TYPE NUMBER
- G62.3\_1**
  - HOURLY RATING PROVIDED: S = SMOKE RATING
  - NUMBER OF SUBSTRATE LAYERS
  - WALL SUBSTRATE:
    - C CONCRETE
    - G GYPSUM
    - M MASONRY
    - S SHAFTWALL
- ACCESSIBLE BEDROOM & RESTROOMS
- HEARING IMPAIRED UNIT
- DOOR TAG, SEE DOOR SCHEDULE
- Room name**
  - ROOM NAME AND NUMBER
  - SPECIALTY EQUIPMENT TAG
  - TOILET ACCESSORY TAG, SEE TOILET ACCESSORY SCHEDULE AND TYPES
  - WINDOW TAG, SEE WINDOW AND FRAME TYPES
  - SIGNAGE TAG, SEE SIGNAGE SCHEDULE AND TYPES
- PARTITION TYPES WITH SOUND ATTENUATION BLANKETS. SEE PARTITION TYPES FOR MORE INFORMATION.
- PARTITION TYPES WITHOUT SOUND ATTENUATION BLANKETS. SEE PARTITION TYPES FOR MORE INFORMATION.
- SMOKE PARTITION: NO HOURLY RATING REQUIRED, SEE WALL TYPES
- 1/2 HR REQUIRED; 1 HR PROVIDED RATED FIRE PARTITION, SEE WALL TYPES
- 1 HR RATED FIRE BARRIER, SEE WALL TYPES
- 2 HR RATED FIRE BARRIER, SEE WALL TYPES

FOR REFERENCE ONLY

**CONSTRUCTION DOCUMENTS**

**UNC CHARLOTTE**  
RESIDENCE HALL  
PHASE XIV  
EARLY SITE PACKAGE

UNIVERSITY OF NORTH  
CAROLINA AT CHARLOTTE  
9201 UNIVERSITY CITY BLVD.  
CHARLOTTE, NC 28223

DATE	DESCRIPTION
2014-09-16	SCO & OWNER REVIEW
2014-12-01	BID DOCUMENTS
2015-03-13	ADDENDUM NO. 3

FWA PROJECT NO: 2420.02.3  
SCO PROJECT NO: #12-1017-03C

DRAWN BY: BMJ / JLR  
APPROVED BY: GRL

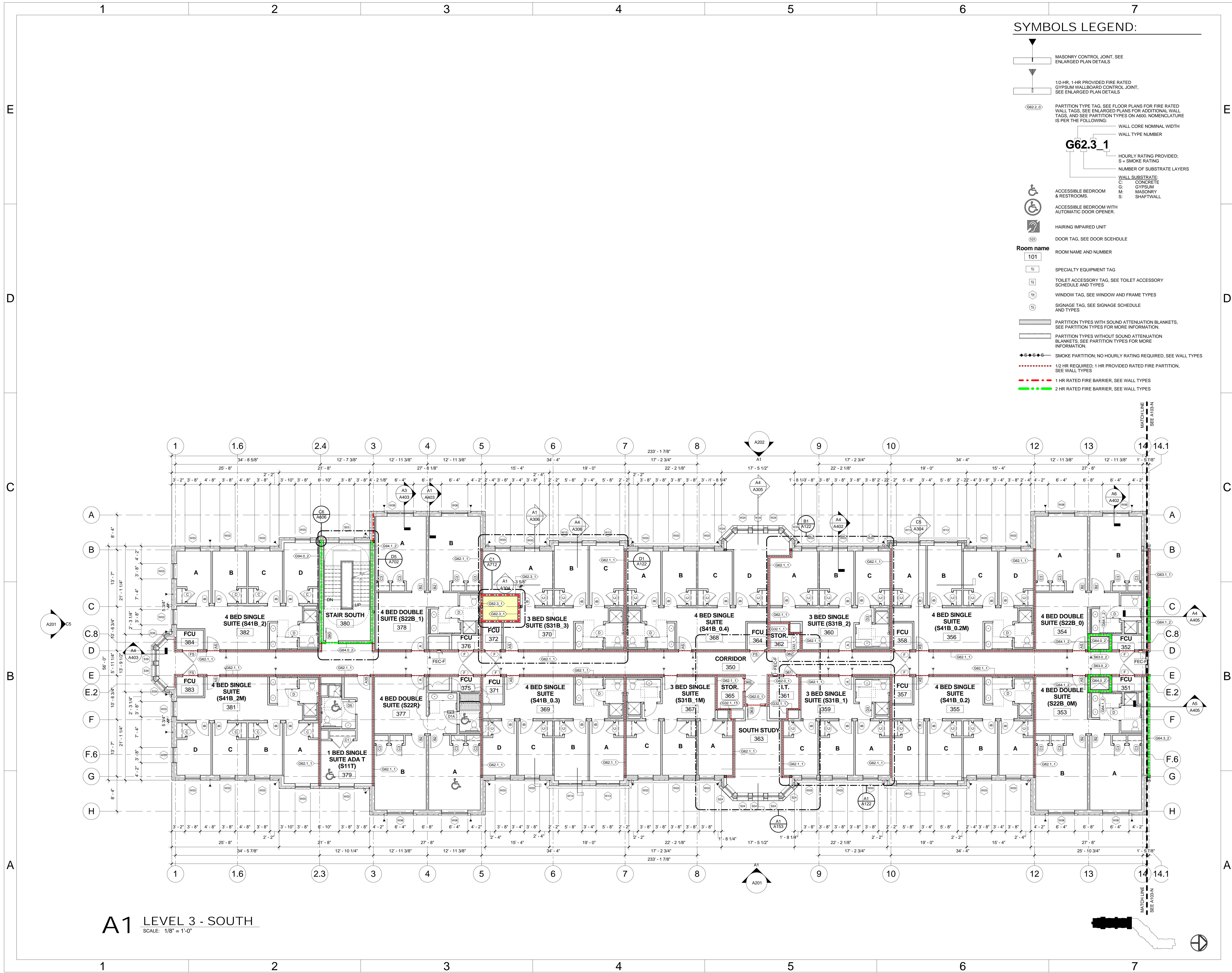
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SHEET TITLE

**LEVEL 3 SOUTH FLOOR PLAN**  
FOR REFERENCE ONLY

SHEET NUMBER

**A103-S**



**A1 LEVEL 3 - SOUTH**  
SCALE: 1/8" = 1'-0"

**Bid Package Manual**

**UNC Charlotte**

**UNC Charlotte Residence Hall Phase XIV**

**Charlotte, NC**

**Early Site**

**Bid Package Nos. 02A - 14A**

**January 6, 2015**

**FWA Group**

**RODGERS**

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- II. Invitation to Bid
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- V. Rodgers Builders, Inc. Supplementary Conditions
- VI. Summaries of Work
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    - Bid Package No. 05A Steel Structures
    - Bid Package No. 14A Elevators
- VII. Form of Proposal

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**PURPOSE OF BID PACKAGE MANUAL**

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This manual is for use by only prequalified, invited Subcontractors and Vendors in submitting Proposals to Rodgers Builders, Inc. (Construction Manager) for construction of the project referenced above. It serves to compliment the drawings and specifications for this project so that complete scope specific Proposals can be assembled by all Subcontractors.

It is very important that all Subcontractors and Vendors carefully review this manual in its entirety to ensure their compliance with the Proposal requirements.

**DEFINITIONS**

Throughout this Bid Package Manual it shall be understood by all parties that the following definitions apply:

Contractor - Rodgers Builders, Inc. (Construction Manager)

Subcontractor - Subcontractors and Vendors

Furnish - to supply or give.

Install - to place, establish or fix in position.

Bid Documents - this Bid Package Manual including the Drawings and Specifications listed herein.  
Modifications to the Bid Documents will be made by Addendum.

**INVITATION TO BID**

Project:	UNC Charlotte Residence Hall Phase XIV		
Owner:	UNC Charlotte	Bid Date:	February 11, 2015
Location:	Charlotte, NC	Bid Time:	2:00 PM
Architect:	FWA Group	Bid Location:	5701 North Sharon Amity Road Charlotte, NC 28215
Contractor:	Rodgers Builders, Inc.		
Contact:		Prequalification	
Address:		Deadline:	See Below
Phone/Fax: /		Prebid Date:	January 28, 2015
Email:		Prebid Time:	2:00 PM

**Project Description:** The University of North Carolina Charlotte Residence Hall Phase XIV consists of a new residence hall with connected Levine/Honors space totaling 161,119 SF of heated building square footage, a concrete paved 5 space parking area, on a 3.8 Acre Site adjacent to Sanford Hall and Residence Dining Hall on the University of North Carolina at Charlotte Campus. This Residence Hall features 436 beds and 117 living units including suites and apartments. Additionally there are 2 resident apartments and a guest suite in the Levine/Honors space.

This bid is for the Early Site Packages: 02A, 02H, 03C, 05A and 14A.

**Prequalification:** All Subcontractors will be required to be prequalified for this project, regardless of any previous prequalification. The prequalification of subcontractors has occurred and expired.

**Prebid Conference:** Location TBD

The prebid will be held at the date and time indicated above. This is a recommended prebid meeting.

**Bid Opening:** Proposals will only be received from prequalified, invited Subcontractors at the date, time and location shown above. Proposals will be opened in Public.

**Bid Documents:** Each Bidder is responsible for purchasing and reviewing the bid documents, including this Bid Package Manual, to ensure all applicable considerations are addressed when submitting a proposal.

Bid documents may be ordered/downloaded online at the following plan room(s). If you haven't already, you will need to register for a user name and password. Once you have access to the site, you may need a password to access this project's bid documents. The password is lower case: "rbiunc"..

- Rodgers Builders' Internet Plan Room: [http://planrooms.nextplans.com/index.cfm?ID=rodgers\\_builders](http://planrooms.nextplans.com/index.cfm?ID=rodgers_builders)  
(For assistance please contact Sharpe Images at 1.800.688.0629)

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## **INSTRUCTIONS TO BIDDERS**

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### **PROPOSAL:**

Proposals for this project must be submitted in written form only, and on the Form of Proposal enclosed in this manual. The Proposal must be sealed in an opaque envelope marked to indicate the project name, the Bidder's name, and Bid Package number; refer to Section VII. Form of Proposal of this Manual for the Bid Envelope Checklist to attach to the outside of the envelope. The Proposal must be hand delivered to the location indicated in the Invitation to Bid.

The Bidder must fill in the Form of Proposal completely and correctly sign the Proposal where designated. Proposals that show any omissions, qualifications, (other than as to scope of work), conditional provisions, or other may be subject to rejection. Items listed on the Form of Proposal that are not included with the bidder's Proposal need to be marked N/A.

Proposals must be submitted in sufficient time for receipt on or before the scheduled hour for opening of the proposals. Delivery of Proposals prior to the opening of bids is the responsibility of the bidder.

All unit prices provided on the Form of Proposal will remain in effect through the life of the Subcontract.

### **MINORITY/HUB PARTICIPATION:**

The Contractor is committed to being a good corporate citizen in each community within which we are privileged to build. This includes a commitment to use all of our resources to provide equal opportunities to minority and women-owned businesses. We will make every effort to create an environment that genuinely encourages participation by everyone who wishes to take part in building our communities.

The goal for our Minority and Women-Owned Program is to obtain the maximum participation of these historically underutilized businesses. A major component of our goal is that all minority and women-owned companies improve their contracting abilities in some manner by the end of the project. It is a further goal of this project to obtain this participation without incurring any additional cost.

The goal for this project is 30% participation by minority and women-owned businesses.

### **Note:**

The Owner and Contractor reserve the right to request further clarification or information as required to enable complete and fair comparison of all bids.

#### **1 FORM OF PROPOSAL:**

Copies of the Form of Proposal are included in Section VII of this Manual. NOTE: Refer to the "Specific Summaries of Work" for the distribution of pricing breakdown requirements.

#### **2 BID GUARANTEE:**

Each Proposal must be held binding and may not be withdrawn for sixty (60) calendar days.

All bonds executed in connection with the project must be executed by an Attorney-in-Fact in the project state on behalf of a Surety Company licensed to do business in the project state.

Bid security in the amount of five percent (5%) of the maximum amount of the potential Subcontract award must accompany each Proposal in the form of a certified check or a bid bond made payable unconditionally to the Contractor. The successful Bidder's security will be retained until he has signed the Subcontract Agreement and furnished all documentation required to be submitted with the executed Subcontract Agreement, which he must do within ten (10) days of a Notice of Acceptance. If the Bidder offered the Subcontract refuses to enter into the Subcontract Agreement, the Contractor may execute his bid security as liquidated damages but not as a penalty.

The required bid security will be returned to all Bidders as soon as possible.

## INSTRUCTIONS TO BIDDERS

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AIA Document A310 is the only acceptable bid bond form.

3 **WITHDRAWAL AND MODIFICATION OF BIDS:**

Bids may be withdrawn upon written request received from the Bidder prior to the time fixed for bid opening. Any Bidder who withdraws a bid may not resubmit a bid for this project. Modifications in writing, by fax, or by electronic transmission will be considered when received prior to the time set for the bid opening. Bids may not be withdrawn or modified after the bid opening except where identification of the apparent low Bidder has been delayed for more than sixty (60) days.

4 **INTERVIEW:**

Interviews will be held with the apparent low Bidder(s) at a location to be determined at a later date. Interview dates and times are to be determined. Apparent low Bidder(s) will be notified.

5 **AWARD OF CONTRACTS:**

The award will be made to the lowest responsible, responsive Bidder taking into consideration quality, performance, the time specified in the bids for performance of the subcontract, the cost of construction oversight, and compliance with G.S. 143-128.2. The Owner and the Contractor reserve the right to request further information or clarification as required to enable a complete and fair comparison of bids.

Bid breakdown forms in the specific summaries of work should be submitted within twenty-four (24) hours of the bid opening. The apparent low Bidders for each package will be contacted as soon as possible after the opening of bids, to attend a Proposal review with the Contractor and the designers. The method of award will be based upon the base bid, selected alternates and any additional consideration that may be appropriate. Combination bids for two (2) or more packages may be submitted only if individual bids for each package are also submitted. All Subcontractors are hereby notified that they must have proper license as required under the project's state laws governing their respective trades.

6 **DISQUALIFICATION:**

The Owner and the Contractor reserve the right to disqualify bids, before or after the bid opening, upon evidence of collusion with intent to defraud or other illegal practices upon the part of any Bidder(s).

7 **REJECTION:**

The Owner and the Contractor reserve the right to reject any or all bids, when such rejection is in the interest of the Owner. Doing so is without obligation of any kind of the Contractor or the Owner to the Bidder.

8 **EXAMINATION OF SITE AND DOCUMENTS:**

Each Bidder should visit the site of the proposed work and fully acquaint himself with conditions as they exist so that he may fully understand the facilities, difficulties, and the restrictions attendant to the execution of the work required. Bidders must also thoroughly examine and be familiar with all bid documents. The failure or omission of any Bidder to receive or examine any form, instrument or document, or to visit the site and acquaint himself with existing conditions will in no way relieve the Bidder from any obligation for the requirements thereof.

9 **INTERPRETATION OF DOCUMENTS:**

Oral interpretations will not be made to any Bidder as to the meaning of the bid documents. Every request for such an interpretation must be made in writing and addressed and forwarded to the Contractor. Inquiries received within less than four (4) calendar days of the date fixed for opening of bids will not be given consideration. Every interpretation made for the Bidder will be in the form of addendum to the bid documents, which will be sent as promptly as is practicable to all persons to whom the bid documents have been issued. All such addenda will become part of the bid documents.

10 **PERMITS AND FEES:**

The overall construction building permit will be furnished by the Contractor. All other fees and/or permits

## INSTRUCTIONS TO BIDDERS

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required by any/all jurisdictions for the work required by each Bid Package are to be included in the respective Proposals. The Owner will be responsible for assuring required easements are established.

### 11 **INSURANCE REQUIREMENTS:**

Refer to the Contractor's Subcontractor Insurance Requirements in Section IV.C Subcontractor Document Exhibits of this Manual and Article 11 Insurance, General Conditions of the Contract for Construction. Should there be a discrepancy between the insurance requirements stipulated in these documents, the higher insurance levels will prevail.

Provide engineering services (by an engineer registered in the project state) related to any structural installation (e.g. shop drawings) that are necessary to satisfy the requirements of the bid documents, testing agencies, and prevailing jurisdictional authorities. Professional Liability Insurance is required for these services, and shall be maintained in force by Subcontractor for a minimum of five (5) years after the date of completion of the Project or as established pursuant to Contract Documents. Refer to Contractor's Subcontract Agreement, Attachment "A" Subcontract Documents - Insurance Requirements, Section A.1.4, and the Subcontractor Insurance Requirements document in Section IV.C. Subcontractor Document Exhibits of this Manual.

### 12 **SUBSTITUTIONS:**

To obtain approval to use alternatives to the specified products, Bidders must submit written requests to the Architect through the Contractor at least ten (10) calendar days before the bid date/time. Requests received after this time will not be considered.

Requests must clearly describe the product for which approval is asked, including all data necessary to demonstrate acceptability. If the substitution is acceptable, an addendum will be issued so stating.

Any use as a base for bidding of material, equipment, or systems other than those specified, unless such material, equipment, or system has been approved by the Architect before submission of bids to Contractor will be made at the Bidder's risk. All items bid other than those specified must be approved as equals by the Architect prior to the submission of bids.

### 13 **LICENSE REQUIREMENT:**

Submission of a bid is the Bidder's representation that he is licensed to perform the work.

License Requirements for Public Utility Work:

- Limited License                    less than \$350,000
- Intermediate License            less than \$700,000
- Unlimited License                no limit

Public Utility Scope of Work:

The Public Utilities classification covers work done under the specialty classifications of Boring and Tunneling, Communications, Fuel Distribution, Electrical - Ahead of Point of Delivery, Swimming Pools, Water Lines and Sewer Lines, and Water Purification and Sewage Disposal. It also includes the performance of construction work on water and waste-water systems.

### 14 **SALES TAX:**

Sales tax is to be included. Under State Sales and Use Regulations, certain Hospitals, Educational, Charitable or Religious Institutions are eligible for refunds of Sales and Use Taxes, Relating to building materials, supplies, fixtures and equipment purchased by Subcontractors in the performance of Subcontracts with these institutions. Refunds due such institutions are to only include sales and use taxes paid on purchases of building materials, supplies, fixtures and equipment which annex to or become a part of buildings or other structures being erected by the Subcontractors. Examples of other property on which sales or use tax should be paid by the Subcontractor and which should not be included for refund include scaffolding, forms of concrete, fuel for the operation of machinery and equipment, equipment purchases,



## INSTRUCTIONS TO BIDDERS

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equipment repair parts, equipment rentals, blueprints, etc.

15 **CONSTRUCTION SCHEDULE:**

Each Bidder must be responsible for the project milestones listed in the Summary of Work section of this manual. An agreed upon construction schedule will be developed as described in the Contractor's Supplementary Conditions section of this manual.

16 **SCHEDULE BREAKDOWN:**

Each apparent low Bidder must be responsible for submitting all necessary information to the Contractor required to formulate the final Schedule for the Project, within ten (10) days of Proposal acceptance.

17 **PAYMENT AND PERFORMANCE BONDS:**

Payment and Performance Bonds equal to one hundred percent (100%) of the Subcontract amount will be required prior to execution of the Subcontract. Cost of the bonds must be included as indicated on the Form of Proposal. Subcontracts less than three hundred thousand dollars (\$500,000) do not require separate payment and performance bonds, unless the scope of work is in conjunction with the exterior building "skin" (i.e.: windows, roofing, EIFS, precast panels, brick veneer, etc.). In such cases, Payment and Performance Bonds are required regardless of the value of the scope of work. Subcontractor's Bonding Company must have a minimum rating of "A" by A. M. Best Company, Inc. Both Payment and Performance Bonds must be submitted on the Contractor's forms; refer to Section IV.C. Subcontractor Document Exhibits of this Manual. Change Orders exceeding ten percent (10%), or change orders exceeding ten percent (10%) in aggregate of the Subcontract amount, will require evidence increasing the penal sum of the bond in the form of a Subcontractor Bond Increase Rider; refer to Section IV.C. Subcontractor Document Exhibits of this Manual.

18 **SUBCONTRACT AGREEMENT:**

A sample copy of the Subcontract Agreement is available for review through Rodgers Builders' Internet Plan Room; refer to Section IV.C. Subcontractor Document Exhibits of this Manual. Submission of a proposal will constitute acceptance of this Agreement.

19 **LEED REQUIREMENTS:**

This project will not be subject to the US Green Building Council's LEED rating system.

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**CONTRACTING DOCUMENTS**

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**A. LETTER OF INTENT**

To expedite the work, the successful Subcontractors and Vendors for some/all of the Bid Packages may be issued letters of intent prior to issuance of their Subcontracts. Upon receipt of same, the Subcontractors or Vendors will proceed immediately with administrative work, including shop drawings, scheduling, project meetings, material procurement, submission of bonds and insurance certificates, and any other actions necessary to initiating the work to adhere to the project schedule requirements.

**B. SUBCONTRACT**

Rodgers Builders, Inc. was selected by the Owner and its representatives to serve as its Construction Manager for this project. Subcontractors and Vendors will enter into a contractual relationship with Rodgers Builders, Inc. not the Owner. The relationship will essentially be a typical Construction Manager-Subcontractor relationship. A copy of the Subcontract that Subcontractors will be required to execute is available for review in Rodgers Builders' Internet Plan Room. A copy of the Purchase Order each Vendor will be required to execute is available for review in Rodgers Builders' Internet Plan Room. To access these documents refer to Section IV.C. Subcontractor Document Exhibits of this Manual. After selection of a particular Subcontractor or Vendor, the following will be added to the attached Subcontract or Purchase Order: 1) defined scope of work, 2) Subcontract amount, 3) scheduling information, and 4) contract document list.

In submitting a Proposal, each Bidder affirms that the Bidder will execute the Subcontract without additions, deletions, or modifications to its content. Note that each Subcontractor and Vendor will be contractually bound to the Contractor. Subcontractor and Vendor obligations to the owner will be the same as those of the Contractor. Also note this Bid Package Manual and the separately issued project manual are intended to be complementary. In the event of conflicts between these documents, the most stringent, as determined by the Contractor, will take precedence.

The last two sentences in the paragraph above are intended to eliminate all opportunities for bidders to omit scope items from their bid because they have found an indication within the bidding documents that the same scope is to be by another entity. If any particular item is required by a bidder in either this Bid Package Manual, the Drawings, the Specifications, or any other supplemental bidding/ contracting document, then the bidder must include such scope in its bid whether another document states something to the contrary, for this is the most stringent interpretation. All conflicts or contradictions found by bidders during their study of the documents should be reported to the Contractor prior to the deadline for questions as this is the only way such interpretive competitive advantages can be made level for all bidders.

At any time after the bid, should the Contractor, the Architect or the Owner discover such a conflict/contradiction in the documents between two or more trade scopes resulting in double or overlapping coverage, in order to insure the Owner has only paid once for said scope, each Bidder involved will be required to provide a credit. The lowest credit will retain the scope within its contract/bid price and the higher credits will be taken by deductive change order.

## **SUBCONTRACTOR DOCUMENT EXHIBITS**

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The documents listed below are not provided in paper hard copy, but are available via the Internet. To view these documents go to <http://www.rodgersbuilders.com> and click on the "**Plan Room**" link listed under "**RESOURCES**".

Bidders are responsible for establishing any accounts and obtaining any passwords that may be required to access the documents listed below and are responsible for complying with the terms of any licenses or other agreements that Bidder may be required to enter into in order to obtain access to such documents. Bidders are solely responsible for reviewing, reading, studying and understanding the documents listed below, and the Contractor shall not be liable to any Bidder in any way for a Bidder's failure to review, read, study and understand such documents.

1. Drawings and Specifications
2. Site Staging and Logistics Plan
3. Subcontract Agreement - TO BE ISSUED BY ADDENDUM
4. Subcontractor Performance Bond
5. Subcontractor Payment Bond
6. Subcontractor Bond Increase Rider
7. Certificate of Insurance Example
8. Subcontractor Insurance Requirements
9. Subcontractor I-9 Compliance Agreement
10. Purchase Order Agreement
11. Work Rules and Regulations
12. Electronic Document File Disclaimers
  - 12.1 Computer Aided Drafting (CAD) File Disclaimer
  - 12.2 Building Information Model (BIM) Release
13. Partial Unconditional Waiver and Release of Claim By Lower-Tier Furnisher of Material/Services to Subcontractor
14. Final Unconditional Waiver and Release of Claim By Lower-Tier Furnisher of Material/Services to Subcontractor
15. Partial Waiver and Lien Release
16. Final Waiver and Lien Release
17. AIA G702 and AIA G703 Application for Payment
18. Guidelines for Recruitment and Selection of Minority Businesses for Participation in State Construction Contracts
  - 18.1 Identification of Minority Business Participation
  - 18.2 Affidavit A - Listing of Good Faith Efforts
  - 18.3 Affidavit B - Intent to Perform Contract With Own Workforce
  - 18.4 Affidavit C - Portion of Work to be Performed by Minority Firms
  - 18.5 Affidavit D - Good Faith Efforts
  - 18.6 Appendix E - MBE Documentation for Contract Payments
19. Subcontractor Daily Construction Report
20. Project Directory Information Request
21. Systems Shutdown Documents
  - 21.1 Systems / Disruptions Shutdown / Tie-In Process
  - 21.2 Systems Shutdown / Tie-In Matrix
  - 21.3 Systems Shutdown / Tie-In Request Form
  - 21.4 Documented Work Plan for Systems Shutdown / Tie-In
22. Interim Infection Control Measures Assessment Matrix

**SUBCONTRACTOR DOCUMENT EXHIBITS**

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23. Interim Life Safety Measures Form
24. Hot Work Permit
25. Above Ceiling Work Permit
26. Site Utility Locating and Posting Policy
27. Site Utility Pre-Trenching Checklist
28. Job Hazard Analysis - Non-Injury Report
29. Lifting Cables/Slings/Straps Inspection Sheet
30. Harness/Lanyard/Anchor Connector (PFAS) Inspection Sheet
31. Steel Erection Checklist
32. Steel Erection Standard for the Construction Industry
33. Steel Erection Preconstruction Meeting Agenda
34. Steel Erection Form A - Standard Acknowledgement - Cranes
35. Steel Erection Form B - Notification to Begin Steel Erection
36. Steel Erection Form C - Custody of Fall Protection OSHA CFR 1926.760

**RODGERS BUILDERS, INC. SUPPLEMENTARY CONDITIONS**

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- 1 Refer to Architect's Project Manual for the General Conditions of the Contract - Standard Form for Construction Manager-At-Risk Projects (OC-15,2002).
  - 1.1 **Add the following to Subparagraph d. to Article 16:**  
Within thirty (30) calendar days of receipt of a Notice to Proceed or a Subcontract, provide to the Contractor a complete list of all Second Tier Subcontractors, and Vendors that you intend to use on this project. This list must be submitted and approved by the Contractor prior to submitting an Application for Payment.
  - 1.2 **Add the following to Subparagraph c. to Article 17:**  
Payments due to the Subcontractor that are unpaid for more than thirty (30) days from the due date of the Subcontractor's invoice shall bear interest at the annual rate of ZERO PERCENT (0%) from the due date, compounded monthly.
  - 1.3 **Replace Subparagraph d. of Article 23 to the following:**  
Time extensions for weather delays, acts of God, labor disputes, fire, delays in transportation, unavoidable casualties or other delays which are beyond the control of the Owner do not entitle the CM, Subcontractors, or Trade Contractors to "extended overhead" recovery.

## GENERAL SUMMARY OF WORK

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### 1 **SUBCONTRACTOR:**

Prime Subcontractor for each Bid Package and its Tier Subcontractors as related herein and sometimes noted as Contractor in the Architect's Project Manual.

### 2 **PERFORMANCE OF THE WORK:**

The overall construction will be performed under the responsibility and supervision of the Contractor.

In general, work will be performed in several specification divisions by Subcontractors who have been subcontracted with the Contractor.

Work in each specification division will consist of that described herein, complete in all respects. The sections as described and listed are in no way to be taken as all-inclusive of the work for each division. In any specification section, reference to work described in the sections listed in the Summary of Work and Specific Summary of Work sections within this Bid Package manual will be performed by the Subcontractor for such work, even though referred to in sections not listed under their trade category. The Subcontractor must provide all material, equipment, labor, and supervision in order to perform the work described in the provisions, the General Summary of Work, as well as those items listed under the Specific Summary of Work, the Architect's Project Manual, and as indicated on the Drawings and addenda. Should a conflict arise between any of the aforementioned documents, the most stringent of the requirements will be adhered to in the completion of the work.

### 3 **SUPPLEMENTAL CONDITIONS SPECIFIC TO EACH BID PACKAGE:**

#### 3.1 **Location of Underground Utilities:**

Identify Underground Utilities and expose using Soft Dig Excavation. Once utility is exposed, Subcontractor is responsible for adequately protecting the system from damage during the work. If relocation is required in order to properly protect the system and keep the facility operational then proper steps need to be taken to achieve such measures. The standard Contractor's pre trench check list must be filled out each day by the Subcontractor when any excavation takes place.

#### 3.2 **Clean-Up:**

In all divisions of work, each Subcontractor is to provide their own GENERAL CLEAN-UP. All necessary general clean-up is to be handled by and paid for by the individual Subcontractor, including hauling debris to the dumpster.

#### 3.3 **Construction Facilities and Temporary Controls:**

##### 3.3.1 **Project Working Hours:**

Regular working hours are Monday through Friday from 8:00 A.M. to 5:00 P.M. ET. Hours will be extended when necessary to maintain the project schedule or as dictated by construction sequence requirements so as not to disrupt the Owner's operations. Since this project is on a college campus, activities (ex. shut downs) may need to take place off hours or in strict accordance with UNCC campus schedule. Subcontractor will not get any additional compensation for this.

The project will conduct daily "Stretch and Flex" exercises on site prior to work commencing in order to reduce injuries and improve communication. This will be conducted at the beginning of the work day at a time designated by the Contractor's Project Team on weekdays and all workers on-site must participate. This stretch and flex will be preceded by morning announcements, and, once a week, a safety talk. Workers arriving late will be required to conduct the stretch and flex exercises prior to commencing work.

Subcontractors that have an established stretch and flex program can coordinate the use of

## GENERAL SUMMARY OF WORK

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their program in lieu of the jobsite program provided they can participate in the toolbox talk and receive permission from the Contractor's Project Team.

Subcontractors are not allowed on site unless a representative of the Contractor is on site. When a Subcontractor desires to work weekends or extended hours, it must be approved in advance by the Contractor. Tier Subcontractors are not allowed on site unless the appropriate Subcontractor's superintendent is on site.

Each superintendent must check in at least twice a day with the Contractor's Project Superintendent.

### 3.3.2 **Temporary Facilities, Temporary Field Office and Storage Trailers:**

The Subcontractor is to provide, as needed, and pay all costs associated with temporary trailers. Quantity and location is subject to approval by the Contractor. Storage inside the building will not be allowed. Approval from the Contractor will be required for use of any space for storage. All Subcontractors should include cost for storage trailers as needed for their use. The project site has limited space for storage and construction trailers. All Subcontractors to assume any on site storage will be minimum. Contractor makes no guarantees to anyone that space is available for any storage and construction trailers

### 3.3.3 **Telephones:**

Each Subcontractor is to provide telephones for his own use (cellular is acceptable). The use of the Contractor's office phones by Subcontractors is prohibited.

### 3.3.4 **Temporary Power:**

All power needs prior to installation of temporary power service (such as portable generator, etc.) will be provided by the Subcontractor requiring the power source and the Subcontractor shall pay for all costs associated with the power source.

### 3.3.5 **Utility Consumption Charges:**

UNCC will pay all power and water usage charges for this project; however, abuse of utility usage by any Subcontractors will not be tolerated.

### 3.3.6 **Water Service:**

Refer to each Subcontractor's specific summary for requirements.

### 3.3.7 **Temporary Storage and Parking:**

There is no on-site storage. Each Subcontractor is required to make and pay for whatever provisions are necessary for their storage facilities. Employee parking is available at Regal Starlight Cinema (11240 US Hwy 29) at no cost to the Subcontractors. Transportation/shuttle to and from any remote parking areas is the responsibility of each Subcontractor.

### 3.3.8 **Security:**

There will be no security service provided other than the perimeter site fencing. Subcontractor is responsible for security of its personnel, materials and equipment.

### 3.3.9 **Construction Fence and Pedestrian Protection:**

Contractor will provide construction fencing and pedestrian protection as shown on the Site Logistics plan. All subcontractors shall be responsible for moving of the fence as required to facilitate their work and reestablish it throughout the day to provide a secure site. If subcontractor moves and alters the fence, it shall be continually secured, braced and left in a neat manner.

## GENERAL SUMMARY OF WORK

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- 3.3.10 **Temporary Shut-Downs:**  
All temporary shut-downs will follow the Contractor's "Systems/Disruptions Shutdown/Tie-In Process". Refer to Section IV.C. Subcontractor Document Exhibits in this Manual for the Shutdown/Tie-In Outline as well as all related forms.
- 3.3.11 **Temporary Fire Protection:**  
Temporary Fire Protection will be furnished and maintained by the Contractor. Each subcontractor shall provide their own fire protection as required for their normal operations (example: welding, equipment requirements, etc.) as required for safety and OSHA regulations.
- 3.3.12 **Temporary Drain Piping:**  
For applicable Bid Packages, Subcontractors are to refrain from the use of corrugated pipe for any temporary piping in, over or adjacent to occupied facilities or areas where moisture sensitive materials have been installed. Drain piping should be installed in the referenced areas as designed.
- 3.4 **Field Engineering:**  
The Contractor will provide a benchmark for vertical elevations and control line for horizontal locations only. All other layout work for each scope of work is to be provided by the Subcontractors. As-Built drawings shall be provided with any changes.
- 3.5 **Testing:**  
All testing provided by the Owner per appropriate specification section. Any retesting due to unsatisfactory test results will be paid by the Subcontractor requiring the test. Each trade will be responsible for coordinating and scheduling the testing agency.
- 3.6 **Insurance:**  
Refer to the Contractor's Subcontractor Insurance Requirements in Section IV.C Subcontractor Document Exhibits of this Manual and Article 11 - Insurance, General Conditions of the Contract for Construction. Should there be a discrepancy between the insurance requirements stipulated in these documents, the higher insurance levels will prevail.
- 3.7 **Hoisting:**  
The Contractor will be providing a tower crane for the use by subcontractors in the erection of the cast in place concrete structure, structural steel assembly, load bearing stud structure, masonry, roofing, elevators. Tower Crane will have a hook height of 124', working radius of 262' and a capacity of 6,612/lbs at 262', 7,750/lbs at 230', 9,280/lbs at 197', 11,430/lbs at 164', 14,680/lbs at 131' and 39,670/lbs at 54'. Tower Crane will be erected during the concrete foundations just prior to the start of the CIP walls and will be removed once the roof structure has been loaded. Subcontractor for each critical phase as listed above will have primary use of crane during the erection of their work however each subcontractor shall be required to coordinate with Contractor, pick times each week. Contractor will keep a log that will be filled out for the following week so as to coordinate these pick times. All other hoisting (cranes and rigging) will be provided by each subcontractor requiring such service. This shall include lulls for unloading and moving of materials on the project site.
- 3.7.1 If Subcontractor will require the use of a crane, whether it be company owned or rented, Subcontractor shall comply fully with the new OSHA Subpart CC - Cranes, Derricks, Hoists, Elevators and Conveyors that became effective October 1, 2009. Subcontractor shall in every way have a NCCCO, or other approved agency, certified crane operator. Subcontractor shall have on-site an assembly and disassembly (A/D) supervisor who will supervise the entire crane process. A written work plan shall be submitted to the Contractor for approval prior to any crane operations. All employees assisting in the A/D process must have signed the written work plan and must have been familiarized with the project's set-up. Every crane company employee must have knowledge of the safe work methods for cranes. All signal persons shall



## GENERAL SUMMARY OF WORK

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hold a certification card in both visual and audible crane signaling. All riggers shall have appropriate training in rigging practices and documentation of this submitted to the Contractor prior to work.

The following meetings shall take place with the Contractor prior to the start of crane operations: pre-task/pre-work, post assembly, pre-disassembly and post-disassembly.

Contractor will provide two (2) material/personnel hoists as located on logistics plan. These material/personnel hoists will be installed once the building structure has been installed and are available for use by each subcontractor.

### 4 **SCHEDULE:**

Subject to the Subcontract Agreement, Contractor anticipates that the following portion of the work will be substantially completed by the following date:

Milestone Description:	Milestone Date
- Jobsite Mobilization:	April 10, 2015
- Erosion Control/Site Grading:	April 17, 2015
- Foundations Start:	May 29, 2015
- Structural Steel Start:	July 28, 2015
- Structural Steel Complete:	September 15, 2015
- Project Completion:	July 1, 2016

### 5 **PREVIOUS BID PACKAGES:**

The following Bid Packages have been previously awarded:

- None

### 6 **PROJECT MANUAL:**

All Subcontractors for all Bid Packages are responsible for the provisions of Division 0 and Division 1 of the Architect's Project Manual.

All Subcontractors are responsible for the provisions of the specifications sections enumerated within the Specific Scope Summary of Work for which they are preparing a Proposal.

All Subcontractors are responsible to review all applicable specification sections that are not enumerated within their specific scope of work to ensure that their Proposals incorporate any/all provisions that are applicable to the work of their trade(s).

### 7 **LIFE SAFETY:**

All Subcontractors are responsible for sealing (fire caulking, etc.) their penetrations per all project State Building Code requirements and Underwriters Laboratories, Inc. (UL) approved assemblies as called out in the project State Building Code. Each Subcontractor will submit to the Contractor copies of Product Data for all products used. The cost of repair damaged fireproofing or fire caulking, etc. will be charged to the Subcontractor who caused the damage.

### 8 **CUTTING AND PATCHING:**

Subcontractors who require cutting and patching are responsible for it. This includes finishes and any cutting must have the approval of the Contractor. No cutting of floor slabs (except slab on grade) will be allowed. All major floor penetrations will be boxed out (formed); all minor floor penetrations may be sleeved. The Contractor will provide ALL column lines on each floor. Each Subcontractor will be responsible for locating and installing their own box-outs or sleeves. Box-outs/forms may be removable wood forms or cast in place metal. Sleeves may be removable cores or cast-in-place metal. All shall be set square, plumb, and true to finish floor level, stuffed or capped to be kept clean. Core drilling is prohibited in all post-tensioned slabs.

## GENERAL SUMMARY OF WORK

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8.1 Unless noted otherwise in the Bid Package scope of work summaries, each Subcontractor must be responsible for furnishing and installing the blocking, backing and grounds necessary for the installation of their work. Each Subcontractor must make suitable preparations for the installation of their work, including all piping, conduit, hangers, inserts, anchors, grounds, and supports that are to be imbedded in concrete, masonry, walls, floors, partitions or structural members, or that pass through or be attached thereto. Each Subcontractor must provide and install proper sleeves, boxes, receptacles or chases for all openings or recesses to receive his work occurring in or passing through any such members, all of which must be located accurately and secured firmly in place before any such masonry has been erected or concrete poured.

8.2 Any trade required to work on a finished roof area will be required to furnish adequate protection to avoid any damage to the finished roof area. Any damage that may occur as a trade's failure to protect the roof area, will be repaired by the Contractor. All costs incurred by the Contractor will be paid by the trade responsible for protecting the finished roof area. Method of protection must be approved by the Contractor.

### 9 **JOB PROGRESS MEETINGS:**

Job progress meetings will be held each week at the Contractor's field office. Attendance by each Subcontractor working on site is mandatory. Subcontractor project managers are required to attend at least two (2) meetings per month. Subcontractor superintendents must attend every meeting. The following will be the agenda:

- Safety
- Submittals
- Change Order Pricing
- Coordination
- Schedule
- Horizon Issues

### 10 **SUBMITTALS/SHOP DRAWINGS:**

Subcontractors and Vendors must prepare all submittals to the Contractor as required by and noted in the bid documents.

- 10.1 Submittals must begin within seven (7) calendar days after receipt of a Subcontract or Letter of Intent from the Contractor, unless otherwise stated in the Specific Summary of Work.
- 10.2 Submittals must be completed in time to allow for a minimum of four (4) weeks for the Contractor and Architect to review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. The Contractor shall not be responsible for delays in shop drawing submittals, as well as continuous re-submittals, caused by Subcontractors/Vendors as Subcontractors/Vendors shall overcome such delays.
- 10.3 Subcontractors or Vendors with detailed shop drawings requiring more than ten (10) shop drawings or requiring staggered submittals must meet with the Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by the Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- 10.4 All submittals must be addressed to the Contractor's Project Manager.

## GENERAL SUMMARY OF WORK

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10.5 Submittals are to be made per the Project Manual, unless otherwise stated in the Specific Summary of Work. All submittals must be accompanied by a transmittal containing the following information:

- Project name.
- Subcontractor making the submittal.
- Specification section and paragraph of the submittal.
- Reason for submittal; i.e. approval, re-submittal, information.
- Contact person if a submitted item requires discussion.

10.6 Subcontractor must make all corrections indicated on the submittal and furnish ten (10) sets of approved and, if required, corrected shop drawings noted "FIELD USE" or "FOR CONSTRUCTION". Additional sets may be required for coordination with other trades and shall be furnished as requested at no additional cost.

10.7 The Owner, Architect, and Contractor reserve the right to reject shop drawings for review for reasons including, but not limited to, the inability to clearly read the information or dimensions on the drawings, scale too small for proper review, improper information and/or incomplete submittal. Submittals rejected must be redrawn, reworked and/or recompiled without delay.

10.8 Refer to the Architect's Project Manual for additional information concerning specific requirements for specified items.

11 **QUALITY CONTROL:**

Preconstruction meetings will be required for all items of work. The Contractor will issue a schedule of those meetings. Each Subcontractor will submit a project specific quality control plan.

12 **SCHEDULE OF VALUES:**

Schedule of Values to be submitted to the Contractor for approval within ten (10) days of receipt of the subcontract. No payment for off site stored materials will be made. Materials must be stored on site in order to request for payment.

13 **PROJECT DIRECTORY:**

The Contractor will maintain a project directory that will include the following contact information for all Subcontractor and Vendor Project Managers, Superintendents:

- Contact Name
- Office Phone Number
- Fax Number
- Home Phone Number
- Mobile Number
- Email Address

The Project Directory information must be submitted to the Contractor within seven (7) calendar days of the date of the Subcontract and prior to the first Approval for Payment. (A Project Directory Information Request is included in the Subcontractor Document Exhibits; refer to Section IV.C. of this Manual)

14 **COMMUNICATION:**

All Subcontractors will provide their superintendents with phones, tablets, and computers along with proper training to utilize these tools. These tools will be used throughout the project to communicate. If the Subcontractor intends to use radio communication within own organization, it should be on a different frequency. Project Superintendent will have the capabilities and knowledge to address and review all submittal documentation and contract documents on a web based system.

## GENERAL SUMMARY OF WORK

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15 **DRINKING WATER:**

Contractor will provide a hose bib at the office trailer for drinking water for all trades. Each trade package shall provide ice and cups for their own work force.

16 **EROSION CONTROL AND TREE PROTECTION:**

This is provided and maintained by the Subcontractor for Bid Package Nos. 02A. Any Subcontractor who disturbs these devices will be responsible for returning the device to its original condition. Any Subcontractor requiring additional erosion control devices as a result of their work is responsible for providing the additional devices.

17 **SAFETY AND HEALTH:**

17.1 Subcontractor must have a comprehensive written Safety and Health Program along with a complete listing of All Material Safety Data Sheets. This information shall be in binder form and on the jobsite at all times.

17.2 Safety Forms that must be submitted by the Subcontractor to the Contractor on a daily, weekly and "as needed" schedule are listed below and included for your reference in Section IV.C. Subcontractor Document Exhibits of this Manual.

17.2.1 **Daily Forms:**

- Job Hazard Analysis - Non-Injury Report
- Site Utility Pre-Trenching Checklist

The Job Hazard Analysis - Non-Injury Report is a daily checklist or pre-work meeting to assess and identify Subcontractor's potential safety hazards for the day's work. It will also allow Subcontractor to pre-plan for necessary personal protective equipment needed for daily tasks. This form is to be submitted to the Contractor's on-site supervisor each morning before work begins.

17.2.2 **Weekly Forms:**

- Crane Inspection Form - Crane Operator's Inspection Form
- Lifting Cables/Slings/Straps Inspection Sheet
- Harness/Lanyard/Anchor Connector (PFAS) Inspection Sheet

17.2.3 **As Needed:**

- Accident Investigation Form - Contractor or Subcontractor Form

17.3 Safety Certifications for the following operations require OSHA, DOT, EPA or Contractor's certification or qualifications in order to operate or use. This list is not inclusive of all operations or processes but is the responsibility of the Subcontractor to provide necessary safety training for certification compliance: Forklift - Industrial Truck; Rough Terrain Forklift - Lull, Gehl Lift's; Skid Steer - With or Without Fork Attachments; Scissor Lifts; Telescopic Boom Lift (Cherry Picker); Back Hoe; Powder Actuated Tools - Hilti, Ramset; Cranes (Tower, Hydraulic, Crawler, Boom, Truck); Scaffolds (Mast Climbing, Masonry, Swing Stage, Baker for type using on project); and, Trenching and Excavation "Competent Person" Training.

17.4 A complete "Competent Person" listing of employees shall be submitted with the Subcontractor's safety program. The Competent Persons shall have authority to recognize and immediately shut down an unsafe operation.

17.5 Every Subcontractor will be required to furnish a "Site Specific" Fall Protection Plan for their work. This will include working from Roofs, Scaffolds, Ladders, Steel, Telescopic Boom Lifts, Masonry, Concrete Forming, Leading Edge Work, or any area where you will be working six (6) feet above a working

## GENERAL SUMMARY OF WORK

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surface. Contractor prohibits the use of any type of metal ladders. All ladders must be made of a non-conductive material. Included with this plan you must provide training documentation of each employee as it relates to the Fall Protection for your work. If successful in your bidding, this Site Specific Plan must be submitted prior to or at your scheduled Preconstruction Meeting. Any Subcontractor who will use or requests to use a Horizontal Lifeline System for Fall Protection, they may use either a Manufacturer Designed System that meets OSHA Guidelines or they can submit a system designed by a Registered Professional Engineer with the RPE's "stamped" design data calculations that meet the requirements for Horizontal Lifelines. Contractor will not accept OSHA's "Qualified Person" definition for this method of Fall Protection.

### 17.5.1 **Fall Protection:**

When Self Retracting Lifelines (SRL's) are used on projects, the calculated fall distance shall be considered to prevent a "swinging" pendulum affect as well as to prevent the cable line to come into contact with sharp edges such as metal decking, concrete or structural steel. Also, a shock pack must be incorporated into this application at the worker's back D-ring. ALL SRL's shall be Class A or maximum 2 foot fall arresting device.

- 17.6 Subcontractor must have an on-site safety representative for their duration of the project. The individual can be the Subcontractor's Superintendent; however, they must be named in the site-specific safety program and shall have training equivalent to the OSHA 10-Hour course. This individual will not be considered a full-time safety representative however; he/she will be responsible for maintaining the Subcontractor's work in a safe condition, conducting safety inspections on a daily basis with documented reports and reporting accidents and injuries should they occur. This individual shall be a "Competent Person" set forth by OSHA guidelines as having the ability to recognize unsafe work condition and the authority to make corrective actions.
- 17.7 As indicated in the Specific Summaries of Work, the designated Subcontractor must furnish and install temporary OSHA approved protection at all elevated floor slab edges, floor openings, elevator hoistways, and mechanical or utility chases. The Subcontractor requiring removal of floor, roof, or shaft protection for the installation of their work, will be responsible for maintaining safety and replacement of the protection when the work on any given day is at pause or complete for the day until contract work is substantially complete.
- 17.8 Any Subcontractor who removes barricades and/or temporary guardrails to perform work is responsible for the reinstallation at the end of the performed task, day's work or as soon as this area of work is complete, whichever is sooner. All other safety requirements are by Subcontractor requiring such or affected by working conditions.
- 17.9 Subcontractors shall adhere to all State and Federal mandated Fall Protection Requirements as it relates to their specific task or specialty trade work. The following items are inclusive to this provision; Scaffolding, Ladders, Steel Erection, Concrete Forming, Leading Edge Work, Roofing, Masonry, Telescopic Boom Lifts and Scissor Lifts. Failure to comply with Fall Protection will result in the immediate dismissal of the offending person from the job site.
- 17.10 Each Subcontractor and their Subcontractors shall provide written certification (prior to beginning work on the project) that they comply with the Contractor's Drug, Alcohol and Substance Abuse Program. If they do not have a program in place, they must accept the Contractor's Program.
- 17.11 All persons within the construction boundary will be required to wear the following PPE (Personal Protective Equipment): Hard Hat, Safety Glasses, Class 2 Safety Vest.

During warmer climate, high visibility with reflective stripe; either long sleeve or short sleeve Orange/Line Green Tee Shirt may be appropriate substitute for vest. Employees will not be allowed to work unless these requirements are met.

## GENERAL SUMMARY OF WORK

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- 17.12 All personnel directing vehicular traffic in the (City or State Right-of-ways) must be Certified in DOT Flagging operations.
- 18 **GENERAL PROTECTION:**  
All Subcontractors will be held responsible for the protection of existing construction. Material or equipment exceeding design live load will not be permitted on concrete slabs. Smoking or use of tobacco products will not be permitted in the building. Food and drinks are not permitted in the building.
- 19 **BEHAVIOR OF CONSTRUCTION PERSONNEL:**  
Subcontractor employees shall act and present themselves in a professional manner. Harassment to anyone, discriminatory dress or speech, profuse use of curse words, provocative and/or racial display of material will not be tolerated. At the Contractor's discretion, any acts described here or behavior unsatisfactory to the Contractor and/or Owner, the employee will be dismissed from the project without question.
- 20 **CLEAN-UP:**
- 20.1 Contractor will provide a wheel wash assembly and hose bib at the project entrance/exit. Due to the location of this project site, it is imperative that all Subcontractors be required to clean mud or debris from any vehicle under their jurisdiction prior to leaving the site and entering municipal streets or highways. Any Subcontractor who fails to do so will be required to perform the necessary clean up.
- 20.2 Disposal of hazardous materials on site is strictly prohibited. All hazardous materials must be disposed of in accordance with governing laws. Disposal of hazardous materials are the responsibility of the Subcontractor using the materials and not the responsibility of any other Subcontractors on site.
- 21 **RECORD DRAWINGS:**  
Record drawings are to be submitted to the Contractor at substantial completion. Final payment will not be issued until all record drawings are received and approved by the Owner, the Contractor, and the Architect.
- 22 **TOWER CRANE USE AND RIGGING:**  
Contractor will provide a tower crane that is shared by several Subcontractors. Each Subcontractor shall provide flagmen and riggers for their operation and shall abide by requirements set forth in Section 3.7, Hoisting, of this document. Failure to do so may result in discontinued use of the tower crane and the Subcontractor will provide lifting requirements as required so as not to impede the schedule, and at no additional expense to the Contractor or the Owner.
- 23 **DRAWINGS AND SPECIFICATIONS PROVIDED TO SUBCONTRACTORS:**  
Successful Subcontractors will be required to provide drawings and specifications as required at their own expense. The Contractor will not provide or reproduce documents for the Subcontractors.
- 24 **COMPLIANCE WITH LAWS (INCLUDING IMMIGRATION LAWS):**  
Subcontractors must abide by all applicable Federal, State and local employment laws, ordinances, rules and/or regulations. This includes, but is not limited to, all applicable immigration laws and obligations. First-Tier Subcontractors must notify and otherwise bind Second-Tier Subcontractors to this responsibility.
- 25 **GROUP PURCHASING COORDINATION AND REPORTING:**  
Not Applicable for the Early Site Package Phase.
- 26 **BUILDING INFORMATION MODELING EFFORT:**
- 26.1 This project will utilize Building Information Modeling (BIM) throughout the entire project design and construction. All Subcontractors will be responsible for participating in regularly scheduled BIM meetings as determined by the project schedule and any additional meetings as required. Each trade will provide a Preconstruction Project Manager and a Coordinator/Modeler for all scheduled BIM

## GENERAL SUMMARY OF WORK

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meetings. All Subcontractors are required to provide any needed items and equipment necessary to facilitate model updates during the scheduled BIM meetings. All model deliverables will need to be provided to meet the schedule produced by the General Contractor. Subcontractors will be asked to provide proof of experience related to their scope of work to help facilitate the development of the model.

- 26.2 All models are to be created using Autodesk REVIT 2014. All modeled items, including systems and families, are required to be native REVIT objects and should include no imported files types from any other 3rd party software. All subcontractors are required to have Autodesk Navisworks Freedom to review, monitor and resolve any clashes or coordination items.
- 26.3 Each trade is responsible for modeling all systems (in their entirety), equipment, fixtures, cable tray, terminal units, panels, devices and support requirements to facilitate the installation. Modeled elements are to be dimensionally accurate to match manufacturer's specifications in terms of size, shape, clearances and connections. Items to be tagged need to match the naming conventions used on the contract documents. All system items including, but not limited to, columns, beams, pipes, duct, conduit, fittings, accessories, and flex items are to be named as indicated on the list that follows.
- 26.3.1 **Structural Systems:**
- a. Columns, Beams, and Joists (structural frame)
  - b. Brace Frames and Shearwalls
  - c. Miscellaneous Steel Elements, including bracing and supports
  - d. Foundations and Deep Foundations
  - e. Retaining Walls
- 26.3.2 **Mechanical (Including but not limited to):**
- a. Supply, Return and Exhaust Systems
  - b. Chilled and Hot Water Supply and Return Systems
  - c. Steam and Condensate Systems
  - d. Refrigerant
  - e. Mechanical Equipment with Access Zones
- 26.3.3 **Plumbing (Including but not limited to):**
- a. Domestic Cold Supply and Return, Domestic Hot Supply and Return and Domestic Hot Water Return Systems
  - b. Waste and Vent Systems
  - c. Rain Leader Systems
  - d. Overflow Drain Systems
  - e. Plumbing Equipment and Fixtures
- 26.3.4 **Medical Gas Systems (When required):**  
Not Used
- 26.3.5 **Electrical Systems (Including but not limited to):**
- a. Feeder Conduits
  - b. Duct Bank
  - c. Panels, ATS, Switchgear, Generators, etc. with Access Zones
  - d. Branch Wiring Paths (example 6"x10" box for a multiple ¾" conduit run)
  - e. Light Fixtures
- 26.3.6 **Fire Protection (Including but not limited to):**
- a. Wet and Dry Piping Systems
  - b. Sprinkler Heads
  - c. Valves and Valve Assemblies with Access Zones

## GENERAL SUMMARY OF WORK

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- 26.4 Models are required to use shared coordinate systems to be established by the Contractor. These coordinates will match the Contractor's building grid used on site. Modeled elements are to include spatial nodes to establish XYZ coordinates to facilitate field layout utilizing surveying equipment.
- 26.5 **The model will be used to produce a coordinated and constructible building to:**
- 26.5.1 Confirm the interpretation of the information and details in the contract documents.
  - 26.5.2 Coordinate the installation of building systems.
  - 26.5.3 Provide clarification for any conflicts observed in the drawings and specifications.
  - 26.5.4 Facilitate the use of preassemblies and prefabrications.
  - 26.5.5 Layout of systems and equipment.
- 26.6 All Subcontractors will be responsible for providing the model and producing deliverables as needed to facilitate installation, preassembly and prefabrication. This includes coordination drawings at 1/4" = 1'-0" to conform to the Contractors standards; showing required systems tagged and dimensioned to establish height and location required for installation. Enlarged plans may be required for further clarification of complex or crowded locations.
- 26.7 All Subcontractors are responsible for reviewing the model and any deliverable from the model for any conflicts with other trades, clearance issues, installation process and code violations. Each Subcontractor will be required to sign a copy of the coordination drawings acknowledging they have reviewed the coordination and they are acceptable for construction as follows.
- 26.7.1 **Coordination Drawing Language:**  
"By signing below you are indicating that you have received and approved the below listed coordination drawings from the Contractor. Any variations to these drawings in the field need to be brought to the attention of the Contractor's project team in writing and discussed before proceeding with work. Approved field changes, RFI's, bulletin drawings and other changes that occur need to be documented on these drawings as 'As-Built' conditions at the end of each month. Not updating record drawings could impact the processing of your pay application."
- 26.8 While the Contractor will facilitate and lead the development of the model, coordination drawings, preassembly and prefabrication efforts, this in no way alleviates the Subcontractor from any legal obligations related to the drawings and specifications.
- 26.9 The model will be available to all Subcontractors. Each Subcontractor will be required to sign a BIM release form before access to the BIM files will be granted.
- 26.10 Subcontractors must be capable of providing coordination information in the format designated above in a timely manner (complete updates 24 hours prior to each scheduled coordination meeting) to allow manipulation during the meeting. Subcontractors may use their own forces or a consulting firm to complete this work.



## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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DIVISION OF WORK: Bid Package Subcontractor is exclusively responsible for work described in the following:

#### I. SPECIFICATION SECTIONS:

- A. Applicable in total to the work of this Bid Package:
- Division Zero - Bidding Requirements and Contract Forms
  - Division One - General Requirements
  - 22 11 13 - Facility Water Distribution Piping
  - 22 13 13 - Facility Sanitary Sewers
  - 23 05 00 - Common Work Results for HVAC
  - 23 05 16 - Expansion Fittings and Loops for HVAC Piping
  - 23 05 23 - General Duty Valves for HVAC Piping
  - 23 21 14 - Underground Pre-insulated Hydronic Piping
  - 31 10 00 - Site Clearing
  - 31 20 00 - Earth Moving
  - 31 25 13 - Erosion Control
  - 32 12 16 - Asphalt Paving
  - 32 13 13 - Concrete Paving
  - 32 13 73 - Concrete Paving Joint Sealants
  - 33 41 00 - Storm Utility Drainage Piping
  - 33 46 00 - Subdrainage
- B. Applicable only as required by the work of this Bid Package:
- 02 41 19 - Selective Demolition
  - 03 30 00 - Cast-In-Place Concrete
  - 07 11 13 - Bituminous Dampproofing
  - 07 13 26 - Self-Adhering Sheet Waterproofing
  - 26 05 00 - Common Work Results for Electrical
  - 26 05 43 - Underground Ducts and Raceways for Electrical Systems

**II. WORK DESCRIPTION: Provide all labor, materials, supervision, equipment, insurance, overhead and profit, necessary or incidental, as required to complete the scope of work identified in the construction drawings and applicable specification sections referenced above. Performance of the work must include, but is not necessarily limited to the following:**

#### General Considerations

- GC01 Protect adjacent curbs, trees, buildings, roads, utilities, and other items to remain from damage. Subcontractor is responsible for repair and/or payment of any damaged items to remain.
- GC02 MINORITY/HUB PARTICIPATION  
The aggregate goal for this project is thirty percent (30%) participation by minority, women-owned and small business. This applies to this Bid Package.
- GC03 Not Used
- GC04 This Bid Package is responsible for all pavers that are shown to be salvaged. Pavers to be removed in order to minimize damage, be stacked neatly on a pallet, wrapped in shrink wrap and delivered to a designated location on campus.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- GC05 This Bid Package is specifically responsible for the following items shown on Contractor's Staging and Logistics plan; refer to Section IV.C. Subcontractor Document Exhibits. (Please also refer to C2.11 Fencing Plan):
- Construction entrance and removal is included.
  - To review, upgrade, and maintain construction road adjacent to the tennis courts per the staging and logistics plan. This road will serve as the entrance to the site off Hwy 49.
  - Installation, maintenance and removal of the temporary construction road and laydown/staging areas. Roads to be 20 feet wide. These areas to consist of 12" of ABC stone with filter fabric.
  - This bid package to understand the paver work at Moore Hall will need to be done during the summer of 2016. This will involve a fence shift. Initial fence will be tight to building. Once new pavers and area are complete the fence will need to be pulled forward to open the area.
- GC06 This package includes all demolition and new site utilities. Site Utilities including Water (domestic/fire/irrigation), steam, storm, sanitary, mechanical piping etc. Electrical demolition and new electrical/telecom duct bank work is by Site Electrical Bid Package 02H.
- GC07 Cutting and patching of surfaces to demolish existing or new work is included in the Bid Package. Area to be brought back up to original condition unless stated otherwise.
- GC08 If any utility/piping on site is required to stay operational during the construction phase it is the responsibility of this bid package to provide any temporary piping necessary to keep the utility/piping live. Any electrical utilities that fit this definition will be by Bid Package 02H Site Electrical.
- GC09 This bid package is responsible to support any exiting utilities shown to stay during any excavation operations performed by this Subcontractor. This includes any electrical work. Means of support to be approved by Contractor, if an engineered solution is required it will be the responsibility of this bid package.
- GC10 Subcontractor to document all waste removal in accordance with Contractor's waste removal plan. Recycling of asphalt and concrete removed from site will be required to achieve the construction waste management credit.

#### A. Early Sitework Package

A01 Coordinate all sitework as outlined below.

#### B. Site Preparation / Rough Grading

- B01 Removal, relocation, and rework (existing to remain) of all paving, curbs, walks, miscellaneous structures, planters/walls and utilities as stipulated by the bid documents or as necessary to performance of the Scope of Work.
- B02 Site clearing and grubbing, including removal and relocation of all trees as designated.
- B03 Earthwork and grading as required to achieve finish elevations shown and with consideration to the following:

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- B03.01 Building pad initial subgrade (combination cut and fill) is to occur to the following parameters: building footprint plus 10'-0" beyond in each direction to a depth below finished floor elevation equal to the slab thickness plus the subdrainage fill material thickness.
- B03.02 Backfill upon completion of initial footings to intermediate sub-grade for construction of balance of footings. Backfill of all foundations outside the building foot print is the responsibility of this bid package. Granular fill is included if shown on the contract drawings.
- B03.03 Backfill upon completion of balance of footings to final sub-grade for slab-on-grade. Backfill of all foundations outside the building foot print is the responsibility of this bid package. Granular fill is included if shown on the contract drawings.
- B03.04 Not Used
- B03.05 Not Used
- B03.06 Layback requirements at building perimeter: backfilling of interior side of foundations is by 03A Complete Concrete Structures.
- B03.07 Sub-grades shown within the building lines relative to foundation construction. No backfill material is to be stockpiled for backfill onsite. Material will need to leave the project site and be brought back for back fill measures.
- B03.08 Proof rolling as called for or as necessary to achieve compaction requirements. This is to be done at all locations to be covered by slab or paving including building pad.
- B03.09 Temporary erosion control of all layback banks and soil stockpiles must be maintained by this Subcontractor until permanent measures are installed and fully operational. All Slopes that are 3:1 or greater must be to be stabilized with jute-matting whether indicated on the bid documents or not.
- B03.10 Not Used..
- B03.11 Imported fill, if necessary, beyond what is available from cut/fill operations to achieve grading indicated.
- B04 Not Used.
- B05 Contractor will provide two (2) gate guards at the construction entrance. Additional traffic control as required to install work, unloading of materials including barricades and traffic control as required by sitework operations (including flagmen) if necessary by this bid package. Flaggers in the Right of Way must be DOT certified in flagging operations.
- B06 Off-site disposal of all clearing refuse and unsuitable soils unless otherwise stipulated.
- B07 Final finish grading to  $\pm 0.1$  foot of required elevations. Final grading should take into account required depth of topsoil. Also should take into account any amendments and sod that will be added by Bid Package 02L - Landscape and Irrigation
- B08 Dewatering necessary to performance of the work including in addition to the stipulations of above that are required for storm drainage system installation.
- B09 Provision of suitable bearing materials for all components of storm drainage system.
- B10 Off-site disposal of all excess or unsuitable spoil from trenching operations unless otherwise stipulated.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- B11 Locate all underground utilities per the Pre-trench Check list prior to beginning work, both public and private. This bid package includes full responsibility for all underground utilities, including repair of any damage occurring as a result of performance of the work. A complete underground as-built will be provided at initial mobilization of all areas within project limits prior to any excavation occurring.
- B12 Not Used.
- B13 This bid package includes installation of the drainage board and foundation drainage outside the building foot print. This includes any perimeter foundation drain. Foundation drain to be tied into structures as shown on the contract documents.
- B14 Excavated material to be used as structural backfill for all foundation walls must be approved (by testing agency) before placement. Backfill of foundation walls outside the building is a part of this Bid Package. Responsible for capping of abandoned utilities back to street. Include initial site control/survey with concrete monuments at locations provided by Contractor by Independent Surveyor providing electronic documents for distribution. Firm shall provide certified As-Built of property utilities, grades and significant features. Survey also to locate building corners upon completion of the project.
- B15 Positive drainage of all disturbed areas at all times.
- B16 Within fourteen (14) calendar days from the date of Notice to Proceed this Subcontractor will verify existing grades and notify the Contractor of any discrepancies. Any discrepancy must be reported immediately and verified by a registered land surveyor in the project state.
- B17 Site demolition of existing sidewalks, trees, curb & gutter and associated utilities, etc. Refer to allowances and specification for rock removal and removal and methods.
- B18 Not used.
- B19 All backfilling operations to coincide with the installation of the waterproofing products. Waterproofing products once installed have exposure limitations per the manufacturer. This bid package to start and complete backfilling to make sure the exposure limits are not exceeded.
- B20 Construction laydown area per the Contractor's staging and logistics plan; refer to Section IV.C. Subcontractor Document Exhibits of this manual.
- B21 Responsible for removal of any and all structures (including but not limited to existing footings, slabs, hardscapes, septic tanks, etc.) currently on site.

#### C. Erosion Control

- C01 Complete protection control measures for tree stands, individual trees as designated, and other areas of work so requiring to prevent damage or risk to life/safety, including maintenance and removal. Shall be responsible for creating and maintaining a daily erosion control log tracking all conditions and measures of project. This includes monitoring and maintaining after this Subcontractor demobilizes.
- C02 Temporary construction entrance and access roads per Contractor's staging and logistics plan; refer to Section IV.C. Subcontractor Document Exhibits of this manual.
- C03 Temporary dewatering measures for both surface water and ground water to maintain workable conditions for site work and building structural work until permanent subsurface drainage system is operational. Responsibility includes mechanical means if needed in addition to trenching methods. Specific requirement is to maintain water table at least 4' below the lowest sub-grades elevations.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- C04 Grass seeding as stipulated to maintain erosion control until such time as impervious surfaces and permanent landscaping are constructed. Cutting will be required until that time to maintain grass height below 6".
- C05 Erosion control devices, including bond if required by prevailing jurisdictional agencies. Maintenance is required for the entire project duration and approved by the Contractor.
- C06 Not Used.
- C07 Testing or fees associated with erosion control and water discharge measures.
- C08 Ensure that all water discharge associated with this Scope of Work is conducted in accordance with Federal, State, and Local regulations. Subcontractor to pay for any fees or fines that arise from inadequate erosion control or water discharge measures.
- C09 Head walls and riprap.
- C10 The cost to maintain all sedimentation basins is included in this scope of work for the duration of the project.
- C11 Temporary diversion ditches, check dams, Faircloth Skimmer, inlet protection silt fencing, 24" RCP, rip rap, outfall structures and complete erosion control measures. This includes RCP culvert under main construction entrance.
- C12 Include safety caps at all erosion control posts.
- C13 All work associated with Forebay and Storm Water Channel.

#### **E. Storm Water**

- E01 Storm drainage piping and structures, including all provisions for the detention pond/sediment trap. Building perimeter foundation drainage, fabric and stone shall be provided by this bid package. Only building interior subsurface drainage system are not included in this Bid Package; these are a part of the work of Bid Package No. 03C. Trench drain structures and gratings are included in this Scope of Work.
- E02 Laterals from the building storm drainage system to points of connection with the on-site storm system.
- E03 Concrete box culvert structures.
- E04 Not Used.
- E05 Complete storm water system, including but not limited to all roof leaders and associated tie-ins as well as miscellaneous connections. This includes all final connections to all utilities up to 5' from the building (including all couplings, fittings, connectors, etc).
- E06 Furnish and install downspout boots.

#### **F. Water and Sanitary Sewer**

- F01 Sanitary Sewer cleanouts during installation of the hardscaping scope of work (a reasonable value for this work will be established and payment for it withheld until the work is completed)
- F02 Utilities sleeves and temporary markers as indicated.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- F03 Domestic and fire protection water systems from points of connection to the points as shown on the civil and mechanical drawings. Fire Main must be brought into the building and capped 1' above finished floor elevation. This package includes all testing and flushing required.
- F03.01 Connections to existing on-site services. Wet taps if required based on the University schedule.
  - F03.02 Taps, connections, and meters are included.
  - F03.03 Valves, backflow preventers, hydrants, post indicator valves, housings, structures, and any and all devices necessary to a complete system.
  - F03.04 Testing as required by bid documents.
- F04 Sanitary sewer system from points of connection to end location as shown on the civil drawings.
- F04.01 Taps, connections, and meters are included.
  - F04.02 Not used.
  - F04.03 Manholes and any and all devices necessary to complete system.
  - F04.04 Testing as required by bid documents.
- F05 Sequencing of work to be as directed by the Contractor, and coordination to see that roadways remain open as necessary for construction access is the responsibility of this Subcontractor.
- F06 Provision of suitable bearing materials for all components of water and sanitary sewer systems.
- F07 This Subcontractor has included provisions for all required shoring to meet all codes for utility connections and tie-ins.
- F08 Not used.

#### **G. Asphalt/Concrete Pavements**

- G01 All heavy and light duty asphalt/concrete paving. Including sub-grade preparation and substrates for pavement. Top coating of existing road per Drawing C3.10 is included.
- G02 Not Used
- G03 Installation sequencing: construct pavements and curbing as detailed through placement of binder course as quickly as site grading operations allow and when directed to do so by the Contractor.
- G04 All pavement areas will be utilized for construction access and staging.
- G05 Include a binder/base course clean and repair allowance (including at light duty pavement areas first topping lifts) as necessary prior to installation of asphalt pavement topping. Bidders should anticipate that repairs will be necessary. Subcontractor to include a \$5,000 Allowance for asphalt repair work.
- G06 Anticipate sequencing and multiple mobilizations.
- G07 Temporary bulkheads at pavement areas near buildings where work is held back to allow access to the building.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- G08 Cutting and patching of existing pavements, curbs, walks, lawns, etc. relative to installation. Restoration patching is to match or exceed as closely as is possible existing conditions immediately prior to commencing installation, and meet NCDOT or CDOT specifications.
- G09 All sleeves need to be included under the asphalt for the MEPF underground utilities. This includes patching all associated gas, water, chilled water and sewer work.
- G10 Provide a separate mobilization for final coat of asphalt.
- G11 Caulking of pavement joints is included.

#### H. Curb and Gutter/Side Walks

- H01 Concrete curb work, including any flume details. Subsequent to backfilling the curb and gutter, Subcontractor include all concrete work outside of building foot print, including grade for sidewalks and place base material if required by contract documents.
- H02 Saw cutting, expansion jointing as well as proper curing methods. If the bid documents do not stipulate curing then Subcontractor will use an ACI recommended method after getting approval from the Architect and the Contractor. This Subcontractor has also included caulking/sealants.
- H03 Reinforcing and construction jointing.
- H04 Cleaning of concrete overspill promptly after finishing, insuring that finished surface is not disturbed by cleaning operations.
- H05 Preparation of subgrade.
- H06 Subgrade materials.
- H07 Remove and replace curb & gutter as indicated and as required for new construction.
- H08 Not Used

#### I. General Scope Provisions

- I01 Payment and Performance Bond as required in the Instructions to Bidders is to be included for this scope of work.
- I02 Sales tax is included in this scope of work. Sales tax is to be reported monthly with the pay application in accordance with the State guidelines.
- I03 In compliance with Contractor safety procedures and policies (this includes but is not limited to Site Specific Safety Plans, daily reports, JHA's, and Non-Injury reports). This includes this Subcontractor shall submit to Contractor it's written company safety program prior to commencing work and shall address site specific safety concerns within program. This also includes the Subcontractor agreeing that they have visited and reviewed the existing jobsite condition(s) and has accounted for all provisions necessary to perform its scope of work within its submitted bid/pricing.
- I04 An onsite project Superintendent is included for the complete duration of the project. The Superintendent shall remain on site for the entire duration of the project and shall not be removed from the project unless otherwise coordinated with the Contractor's Project Superintendent.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- I05 The onsite project Superintendent will have full access to email and be trained and fully capable to use it. The onsite project Superintendent will also have the capabilities and knowledge to access and review all submittal documentation and contract documents on a web based project site. (This includes having an IPAD)
- I06 Not Used
- I07 In compliance with project hours consisting of Monday through Friday 8:00AM to 5:00 PM with Saturday as a make-up day, or as needed to maintain the project schedule. Additional hours will not be granted in the event that additional hours are needed as a result of lack of manpower during normal hours.
- I08 Included costs for a competent PM and superintendent to attend all weekly Subcontractor meetings. This Subcontractor can't remove the foreman or superintendent from the project and must keep them for the entire project duration unless the Contractor superintendent directs so otherwise.
- I09 Included costs to accommodate for materials/equipment deliveries to take place after hours if need be.
- I10 Not Used.
- I11 Included multiple mobilizations.
- I12 All deliveries will be coordinated with the Project Superintendent and will take place as needed for materials and equipment. This Subcontractor understands that roadway improvements by others will be occurring simultaneously with work associated within this agreement. This roadway improvement work will impact deliveries and access to the site and has accounted for such. In addition, necessary traffic control including flagman, are required to enter and exit the site and are the responsibility of this Subcontractor.
- I13 Submit all submittals electronically unless otherwise noted.
- I14 No compensation will be paid by Contractor to this Subcontractor for any extra work performed that is not verified and signed off by a Contractor's Project Superintendent or a qualified Contractor's representative designated by Contractor's Project Superintendent.
- I15 Protect work at the end of each workday.
- I16 Responsible for attending a Site Grading/Concrete Pre-Start Meeting.
- I17 In the event of any discrepancies and / or errors that are found in the Contract Documents or Specifications, this Subcontractor shall be required to immediately notify the Contractor of the discrepancies before proceeding with the work, and shall be deemed responsible to have estimated the highest quality means and methods of performing the Work while maintaining progress schedule.
- I18 Upon the completion and prior to the acceptance of the Work, this Subcontractor shall, if applicable, subject all the installed systems to all the applicable test(s) as may be required by the Architect, Contractor, and State / Local Inspectors to demonstrate satisfactory function, compliance to code, and design efficiency. All instruments, facilities, and labor required to conduct these test(s) will be provided by this Subcontractor at no additional cost to the Contractor.
- I19 Submit all required closeout information including As-Built drawings, warranties, operation / maintenance manuals, product data, and all other required information pertinent to the maintenance and operation of the building as it applies to the Work requirements of this Subcontract Agreement. It is further understood that no final payments shall be released by the Contractor, prior to the receipt of said required information.



## SPECIFIC SUMMARY OF WORK Bid Package No. 02A - Sitework

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- I20 Responsible for having an interpreter (or interpreters) on the work site at all times for non- English speaking employees to insure that all safety and work instructions can be communicated. The interpreter(s) must be fluent in English and the language of the non-English speaking employee(s).
- I21 It shall be the responsibility of the Subcontractor to certify that their employees, their Suppliers and Subcontractors operating equipment are qualified to operate said equipment in a professional manner so as not to endanger other people or property.
- I22 Contractor reserves the right to make joint check payments to Subcontractor and any or all of the Subcontractor's Tier Subcontractors or Suppliers.
- I23 Shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless this Subcontractor has specifically informed the Architect and Contractor in writing of such deviation at the time of submission and the Architect has given written approval to the specific deviation. Subcontractor shall not be relieved from responsibility for errors and omissions of details, dimensions or otherwise in the shop drawings, product data, samples or similar submittals by the Architect's approval thereof. The review of submittals will be general and shall not be construed as approval of departures from additional details or instruction previously provided by the Architect, Engineers or Contractor.
- I24 Responsible for performing all necessary field measurements to ensure proper installation of this scope of work.
- I25 Any specific penalty of liquidated damage imposed on the Contractor by the Owner as a result of faulty, unacceptable, incomplete, untimely, or delayed work, or any other reasons, shall be imposed on the Subcontractor by the Contractor to the extent that the penalty or liquidated damage is a result of the Subcontractors performance.
- I26 Obtaining their own set of Contract Documents (i.e. drawings, specifications, etc.) at their own expense. Contract documents will be available through Contractor's internet plan room, NextPlans at Sharpe Images. Up-to-date record drawings are to be maintained on site by each Subcontractor. Contractor may request to review these drawings with Subcontractor at least on a monthly basis.
- I27 Subcontractors and vendors must prepare all submittals to Contractor as required by and noted in the contract Documents. Submittals must begin within seven (7) calendar days after receipt of a Contract or Letter of Intent from Contractor. Submittals must be completed in time to allow for a minimum of four (4) weeks for Contractor and Architect review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. Delays in shop drawing submittals, as well as continuous resubmittals, will constitute a tacit acceptance by the Subcontractor or vendor to perform, at no additional expense to the Owner, Architect or Contractor any and all overtime work in the shop and/or field to make up for lost time in the construction schedule.
- I28 Subcontractors or Vendors with detailed shop drawings requiring more than two (2) shop drawings or requiring staggered submittals must meet with Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- I29 Submit Daily Reports of Subcontractor's Work to Contractor on a daily basis. Failure to meet this requirement may delay Subcontractor's payment. Additional forms required to be used by the Subcontractor are Jobsite Safety Analysis Reports, Harness/Lanyard Forms, Lifting Cables Forms, Pre-Trench Checklists, Forklift Checklist, Non-Injury Reports, and any and all other reports as required.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- I30 Responsible for the safe and suitable storage of his equipment and material on site. Materials are to be stored or staged in a location acceptable to Contractor, and shall be relocated as necessary to facilitate the Work.
- I31 Shall abide by, coordinate and correct any and all code compliance deficiencies, pertaining to local and state building inspections and officials, as well as third party Special Inspections, testing organization(s).
- I32 Provide all necessary ice to their employees as these measures will not be provided by Contractor.

#### J. PROJECT SPECIFIC SCOPE

- J01 Costs associated with the labor, materials, supervision and equipment for the dewatering pump if required.
- J02 Costs associated with the labor, materials, supervision and equipment for the foundation and trench drains located outside the building footprint.
- J03 BIM modeling for underground utilities and coordination.
- J04 The removal of any and all structures (including but not limited to existing footings, slabs, hardscapes, septic tanks, debris, etc.) currently on site.
- J05 The cost to maintain all sedimentation basins is included in this scope of work for the duration of the project.

#### K. PROJECT MILESTONES AND DURATIONS

- K01 Subcontractor hereby agrees to assist in preparing Project Schedule and will mobilize in early April 2015. Utilities to be relocated at the building pad ready for foundations in late May 2015. Additional construction activities will be included within this Project Schedule so as to properly coordinate work within this Agreement with that of Work outside of this Agreement so as to assure completion of all Work within the overall Project Schedule. Upon creation of this Project Schedule, document will be incorporated into the Subcontract Agreement by Change Order. This subcontractor is obligated to work with the engineer and Project Team and design/assist to meet the dates listed above. This subcontractor shall meet all required submittal and shop drawing submissions to meet the installation dates and shall allow for a (2) week duration for approval from the engineer.
- K02 Subcontractor understands that multiple mobilizations will occur to complete this scope of work and has allocated the means for an undetermined quantity at time of contract execution.
- K03 The schedule will include multiple mobilizations due to all activities being installed at specific points in the schedule. The Contractor's superintendent will coordinate in advance of the work area being ready to begin installation. Each detailed portion of work listed in the contract will be installed at a specific time.

#### L. Mechanical Piping

- L01 Demolition and abatement of mechanical piping. Including capping. Please see allowance section for hazardous waste removal associated with the steam piping.
- L02 Coordinate any shut downs with UNCC schedule. Any off hour requirements are to be performed at no additional cost.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02A - Sitework

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- L03 All pipe bedding material and required pipe insulation. All concrete caps and required flushing of mechanical lines.
- L04 Installation of all mechanical piping, valves, insulation and locate tape.

#### **M. Bid Package 2A Specific Allowances**

- M01 Allowance No. 1: Include in base bid 500 cubic yards - Unsatisfactory soil excavation above subgrade, disposal off-site, and replacement with satisfactory fill material or engineered fill offsite.
- M02 Allowance No. 2: Include in base bid 500 cubic yards - Unsatisfactory soil excavation below subgrade, disposal off-site, and replacement with satisfactory fill material or engineered fill off-site.
- M03 Allowance No. 3: Include in base bid 500 cubic yards - Classified trench rock excavation, disposal off site, and replacement with satisfactory fill material or engineered fill from off site.
- M04 Allowance No. 4: Include in base bid 500 cubic yards - Classified mass rock excavation, disposal off site, and replacement with satisfactory fill material or engineered fill from off site.
- M05 Allowance No. 5: Include in base bid 290 lineal feet - Asbestos removal associated with removal of steam system pipe removal.
- M06 Allowance No. 6: Not applicable to 02A.
- M07 Include a binder/base course clean and repair allowance (including at light duty pavement areas first topping lifts) as necessary prior to installation of asphalt pavement topping. Bidders should anticipate that repairs will be necessary. Subcontractor to include a \$5,000 Allowance for asphalt repair work.

#### **ALTERNATES**

The Form of Proposal contains a list of all Alternates for this project. If an Alternate does not affect the scope of this Bid Package it is to be marked as "No Change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will be interpreted as no change to the "Base Bid Amount" on the Form of Proposal.

#### **ALLOWANCES**

The following are to be included in the Base Bid of this bid package.

- 01 ALL-01 Unsatisfactory soil excavation above subgrade as specified per Item M01.
- 02 ALL-02 Unsatisfactory soil excavation below subgrade as specified per Item M02.
- 03 ALL-03 Classified trench rock excavation as specified per Item M03.
- 04 ALL-04 Classified mass rock excavation as specified per Item M04.
- 05 ALL-05 Asbestos removal as specified per Item M05.
- 06 ALL-06 Not applicable to 02A
- 07 \$5,000 Asphalt Repair Patch as specified per Item M07.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

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**UNIT PRICES**

The following are to be entered on the Form of Proposal for the bid to be considered responsive.

- UP-01 Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.
- UP-02 Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.
- UP-03 Trench rock excavation and replacement with satisfactory soil material.
- UP-04 Mass rock excavation and replacement with satisfactory soil material.
- UP-05 Removal of Contaminated Material.
- UP-07 Lean Concrete.

**ALL ALTERNATES AND UNIT PRICES MUST INCLUDE  
SUBCONTRACTOR'S OVERHEAD, PROFIT AND BOND COSTS.**

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. The price breakdown is for information and evaluation purposes only. The **BID AMOUNT** quoted shall be the full compensation for each Bid Package as defined by the Scope of Work. Bid Amounts shall be broken down as identified below.

**ENTER COMPANY NAME HERE:**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>1</b>	<b><u>Staging and Logistics</u></b>			
1.01	Mobilization(s)		EA	
1.02	Layout / Staking	1	LS	
1.03	Engineering / Design Services	1	LS	
1.04	Not Used	1	LS	
1.05	Temporary Construction Entrance Road & Laydown Area		TN	
1.06	Upgrade/Maintain Construction Entrance Rd. Adjacent to Tennis Courts	1	LS	
1.07	Salvage Pavers/Palletize/Deliver/Pick Up	1	LS	
<b>2</b>	<b><u>Site Clearing</u></b>			
2.01	Clear and Grubb Site		AC	
2.02	Strip and Remove Topsoil		CY	
2.03	Remove, Relocate, and Rework (existing to remain) all paving, curbs, walks, miscellaneous structures, and utilities	1	LS	
2.04	Remove Existing Curb & Gutter		LF	
2.05	Remove Existing Asphalt		SF	
2.06	Sawcut Asphalt/Concrete		LF	
<b>3</b>	<b><u>Mass Grading</u></b>			
3.01	Bulk Cut		CY	
3.02	Bulk Fill		CY	
3.03	Export Excess Off-Site or Waste Excess On-Site (Circle Correct)		CY	
3.04	Import Fill from Off-Site		CY	
3.05	Mass Grading for Unsuitable Soils		CY	
3.06	Haul Excess Off-Site or Waste Excess on Site		CY	
3.07	Backfill Walls Outside Building Footprint	1	LS	
3.08		1	LS	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>4</b>	<b><u>Erosion Control</u></b>			
4.01	Not Used		EA	
4.02	Not Used		EA	
4.03	Storm Inlet Protection		LF	
4.04	Silt Fencing		LF	
4.05	Temporary Sediment Basins		EA	
4.06	Temporary Storm Drainage Pipe		LF	
4.07	Temporary Diversion Ditches		LF	
4.08	Faircloth Skimmer		EA	
4.09	Check Dam		EA	
4.10	Inlet Protection		EA	
4.11	Rip Rap		CY	
4.12	Outfall Structure		EA	
4.13	Maintain Erosion Control	1	LS	
4.14	Misc. Erosion Control Items	1	LS	
<b>5</b>	<b><u>Fine Grading</u></b>	1	LS	
5.01	Proof Roll Building Pad		SF	
5.02	Forebay	1	LS	
5.03	Storm Water Channel	1	LS	
5.04	Export Excess Topsoil		CY	
5.05	Backfill Curb and Gutter		LF	
5.06	Misc. Fine Grading Items	1	LS	
<b>6</b>	<b><u>Storm Drainage Structures</u></b>	1	LS	
6.01	Storm Water Manholes		EA	
6.02	Curb Inlets		EA	
6.03	Catch Basins		EA	
6.04	Misc. Storm Drainage Structures	1	LS	
6.05	Foundation Drain Outside Building		LF	
<b>7</b>	<b><u>Storm Drainage Piping</u></b>			
7.01	Storm Water Clean Out		EA	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
7.02	RCP / HDPE		LF	
7.03	Roof Leaders		LF	
7.04	Misc. Connectors and Accessories	1	LS	
7.05	Downspout Boots / Connections		EA	
7.06	Foundation drains around perimeter of building (includes stone and fabric)		LF	
7.07	Sleeves	1	LS	
<b>8</b>	<b><u>Site Sanitary Sewer</u></b>			
8.01	Sanitary Sewer Piping to within 5' of points of entry to the buildings.		LF	
8.02	Sanitary Sewer Manholes		EA	
8.03	Sanitary Sewer Cleanouts		EA	
8.04	Tie-In to Existing		EA	
8.05	Utility Sleeves and Temporary Markers	1	LS	
<b>9</b>	<b><u>Site Water</u></b>			
9.01	Domestic Water Piping to within 5' of points of entry to the buildings.		LF	
9.02	Domestic Water Backflow Preventer		EA	
<b>10</b>	<b><u>Site Fire Lines</u></b>			
10.01	8" Fire Line Piping		LF	
10.02	Connection from 5' Out to 1' AFF		EA	
10.03	Fire Hydrant Assembly		EA	
10.04	Backflow Preventer		EA	
10.05	Tie-In to Meter		EA	
10.06	Utility Sleeves and Temporary Markers	1	LS	
<b>11</b>	<b><u>Site Concrete</u></b>			
11.01	Heavy Duty Concrete Paving		SF	
11.02	Curb and Gutter		LF	
11.03	Misc. Site Concrete items	1	LS	
<b>12</b>	<b><u>Pavements</u></b>			
12.01	Heavy Duty Asphalt Paving and Substrate		SY	
12.02	Cut and Patch existing pavements	1	LS	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
12.03	Misc. Pavements Items	1	LS	
12.04	Asphalt Top Coat Perimeter Road		SF	
<b>13</b>	<b><u>Allowances</u></b>		EA	
13.01	ALL-01 Unsatisfactory soil excavation above subgrade as specified per Item M01.		CY	
13.02	ALL-02 Unsatisfactory soil excavation below subgrade as specified per Item M02.		CY	
13.03	ALL-03 Classified trench rock excavation as specified per Item M03.		CY	
13.04	ALL-04 Classified mass rock excavation as specified per Item M04.		CY	
13.05	ALL-05 Asbestos removal as specified per Item M05.		LF	
13.06	ALL-06 Not applicable to 02A	1	LS	
13.07	\$5,000 Asphalt Repair Patch as specified per Item M07.	1	LS	



**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02A - Sitework**

<i>BID SUMMARY:</i>		<u>Amounts</u>
1	Subtotal	
2	Sales Tax on Materials Incorporated into the Site and Buildings	
3	Bond Amount as Required by Bid Documents	
4	Out of Town Living Expenses for Labor Crews (IF APPLICABLE)	
<b>TOTAL PRICE (Lines 1 + 2 + 3 + 4)</b>		

<b>SECOND TIER SUBCONTRACTORS</b>			
How much of the above scope of work do you plan to subcontract?			
<u>Second Tier Subcontractor</u>	<u>Scope of Work</u>	<u>MWSBE (Y/N)</u>	<u>Amounts</u>
1.			
2.			
3.			
4.			
5.			
6.			
<b>TOTAL SECOND TIER SUBCONTRACTORS:</b>			

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 02H - Site Electrical

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DIVISION OF WORK: Bid Package Subcontractor is exclusively responsible for work described in the following:

#### I. SPECIFICATION SECTIONS:

- A. Applicable in total to the work of this Bid Package:
  - Division Zero - Bidding Requirements and Contract Forms
  - Division One - General Requirements
  - 26 05 00 - Common Work Results for Electrical
  - 26 05 43 - Underground Ducts and Raceways for Electrical Systems
- B. Applicable only as required by the work of this Bid Package:
  - 02 41 19 - Selective Demolition
  - 03 30 00 - Cast-In-Place Concrete
  - 31 10 00 - Site Clearing
  - 31 20 00 - Earth Moving
  - 31 25 13 - Erosion Control
  - 33 46 00 - Subdrainage

#### II. WORK DESCRIPTION: Provide all labor, materials, supervision, equipment, insurance, overhead and profit, necessary or incidental, as required to complete the scope of work identified in the construction drawings and applicable specification sections referenced above. Performance of the work must include, but is not necessarily limited to the following:

##### General Considerations

- GC01 Protect adjacent curbs, trees, buildings, utilities, and other items to remain from damage. Subcontractor is responsible for repair and/or payment of any damaged items to remain.
- GC02 Temporary pedestrian protection will be provided by the Contractor.
- GC03 Not Used.
- GC04 Cutting and patching of surfaces to demolish existing or new work is included in the Bid Package. Area to be brought back up to original condition unless stated otherwise.
- GC05 If any site electrical on site is required to stay operational during the construction phase it is the responsibility of this bid package to provide any temporary piping necessary to keep the service alive. Tracing/investigative work to determine the feed and or routing of existing site electrical is included.
- GC06 This bid package is responsible to support any exiting utilities shown to stay during any excavation operations performed by this Subcontractor. This includes any electrical work. Means of support to be approved by Contractor, if an engineered solution is required it will be the responsibility of this bid package.
- GC07 This bid package to include any site utility locates, method per the "General Summary of Work".
- GC08 This bid package understands that any shut downs may need to happen off hours or coordinated with the Universities schedule. No additional compensation will be granted.
- GC09 This bid package is to expect multiple mobilizations.
- GC10 Not Used
- GC11 MINORITY/HUB PARTICIPATION  
The aggregate goal for this project is thirty percent (30%) participation by minority, women-owned and small business. This applies to this Bid Package.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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**A. Site Electrical Power and Lighting**

- A01 Site demolition of all items (electrical/telecommunication ductbanks, site lights, column bases, conduit, etc.) as shown on E-010. All demolished materials to be hauled off site by this bid package.
- A02 Equipment pads and foundations.
- A03 All new electrical and telecommunication duct banks as indicated in the bid documents as well as conforming to Federal, State and Local codes. New precast manholes with cable racks per bid documents.
- A04 Site lights to be turned over to UNCC, are to be delivered to a location designated on campus. Once delivered lights are to be stacked neatly, elevated from the ground and covered with plastic.
- A05 Trenching and backfilling associated with this bid package. Subcontractor shall stock pile any spoils as required by the Contractor. Backfill materials and methods shall conform to the bid documents.
- A06 All capping is included. Any penetration made by this subcontractor into existing structures is to be sealed and made water tight.
- A07 Any work that is to be terminated for a future electrical package is to be left neat and water tight. All underground conduits to be cleaned as necessary. Any required telecom or electrical wire testing is included.

**B. GENERAL SCOPE PROVISIONS**

- B01 Payment and Performance Bond as required in the Instructions to Bidders is to be included for this scope of work.
- B02 Sales tax is included in the base bid, to be reported each month per State Construction guidelines with pay applications.
- B03 In compliance with Contractor's safety procedures and policies (this includes but is not limited to Site Specific Safety Plans, daily reports, JHA's, and Non-Injury reports). This Subcontractor shall submit to Contractor its written company safety program prior to commencing work and shall address site specific safety concerns within program. This also includes the Subcontractor agreeing that they have visited and reviewed the existing jobsite condition(s) and has accounted for all provisions necessary to perform its scope of work within its submitted bid/pricing.
- B04 An onsite project Superintendent is included. The Superintendent shall remain on site while any work is being performed and attend meetings while work is being performed.
- B05 The onsite project Superintendent will have full access to email and be trained and fully capable to use it and will have the capabilities and knowledge to access and review all submittal documentation and contract documents on a web based project site (this includes having an IPAD).
- B06 Not Used.
- B07 This Subcontractor is in compliance with project hours consisting of Monday through Friday 8:00AM to 5:00PM with Saturday as a make-up day, or as needed to maintain the project schedule. Additional hours will not be granted in the event that additional hours are needed as a result of lack of manpower during normal hours.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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- B08 This Subcontractor has included costs for a competent PM and superintendent to attend all weekly Subcontractor meetings. This Subcontractor can't remove the foreman or superintendent from the project and must keep them for the entire project duration unless the Contractor's superintendent directs so otherwise.
- B09 This Subcontractor has included costs to accommodate for materials/equipment deliveries to take place after hours if need be. 14A Subcontractor to coordinate deliveries with the project schedule. If the schedule changes this Subcontractor must modify delivery dates and coordinate with Contractor's project team.
- B10 This Subcontractor has included multiple mobilizations if required for this scope of work.
- B11 This Subcontractor will submit all submittals electronically unless otherwise noted.
- B12 No compensation will be paid by Contractor to this Subcontractor for any extra work performed that is not verified and signed off by a Contractor's Superintendent or a qualified Contractor's representative designated by Contractor's Project Superintendent.
- B13 Subcontractor to protect work at the end of each workday. This includes any and all weather protection from rain, cold or heat as well as barricades to prevent others from entering area.
- B14 This Subcontractor will be responsible for setting up, providing an agenda as well as having all applicable parties on hand for Pre-Start Meeting.
- B15 In the event of any discrepancies and or errors that are found in the Contract Documents or Specifications, this Subcontractor shall be required to immediately notify the General Contractor of the discrepancies before proceeding with the work, and shall be deemed responsible to have estimated the highest quality means and methods of performing the Work while maintaining progress schedule.
- B16 Upon the completion and prior to the acceptance of the Work, this Subcontractor shall, if applicable, subject all the installed systems to all the applicable test(s) as may be required by the Architect, Contractor, and State / Local Inspectors to demonstrate satisfactory function, compliance to code, and design efficiency. All instruments, facilities, and labor required to conduct these test(s) will be provided by this Subcontractor at no additional cost to the Contractor.
- B17 It shall be the responsibility of this Subcontractor to submit all required closeout information including As-Built drawings, warranties, operation / maintenance manuals, product data, and all other required information pertinent to the maintenance and operation of the building as it applies to the Work requirements of this Subcontract Agreement. It is further understood that no final payments shall be released by the Contractor, prior to the receipt of said required information. As-Built to be provided electronically in Auto Cad 2014 and submitted monthly with pay application.
- B18 This Subcontractor acknowledges that its Work must be coordinated with work of other trades and further agrees to coordinate its shop drawings, details, and submittals with those of the affected trades to ensure proper fit and coordination with such Work. It is the responsibility of this Subcontractor to ensure proper fit and coordination of its work with other trades.
- B19 Subcontractor is responsible for having an interpreter (or interpreters) on the work site at all times for non-English speaking employees to insure that all safety and work instructions can be communicated. The interpreter(s) must be fluent in English and the language of the non-English speaking employee(s).
- B20 Subcontractor shall provide all material and equipment (lulls, forklifts, cranes, etc.) staging pads necessary to facilitate scope of work.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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- B21 Owner Requested Changes; Should Owner or Architect request changes affecting the contract sum or contract completion time, a proposal request shall be issued through Contractor to the affected Subcontractors. Unless otherwise noted, a period of one week will be allowed for a review and response to the request. Should a response not be received from Subcontractor in this time, it shall be assumed that any changes reflected in the request shall be performed at no additional cost.
- B22 It shall be the responsibility of the Subcontractor to certify that their employees, their Suppliers and Subcontractors operating equipment are qualified to operate said equipment in a professional manner so as not to endanger other people or property.
- B23 Contractor reserves the right to make joint check payments to Subcontractor and any or all of the Subcontractor's Tier Subcontractors or Suppliers.
- B24 Work being installed over the work of others, existing conditions, etc. must be reviewed and found to be acceptable or documented to and received by General Contractor if not acceptable, prior to commencing work. Failure to comply with this provision will be construed as acceptance of substrate by Subcontractor.
- B25 This Subcontractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless this Subcontractor has specifically informed the Architect and Contractor in writing of such deviation at the time of submission and the Architect has given written approval to the specific deviation. Subcontractor shall not be relieved from responsibility for errors and omissions of details, dimensions or otherwise in the shop drawings, product data, samples or similar submittals by the Architect's approval thereof. The review of submittals will be general and shall not be construed as approval of departures from additional details or instruction previously provided by the Architect, Engineers or Contractor.
- B26 This Subcontractor shall be responsible for performing all necessary field measurements to ensure proper installation of this scope of work.
- B27 Any specific penalty of liquidated damage imposed on the Contractor by the Owner as a result of faulty, unacceptable, incomplete, untimely, or delayed work, or any other reasons, shall be imposed on the Subcontractor by the Contractor to the extent that the penalty or liquidated damage is a result of the Subcontractors performance.
- B28 Subcontractor shall be responsible for obtaining their own set of Contract Documents (i.e. drawings, specifications, etc.) at their own expense. Contract documents will be available through Contractor's internet plan room, NextPlans at Sharpe Images. Up-to-date record drawings are to be maintained on site by each Subcontractor. Contractor may request to review these drawings with Subcontractor at least on a monthly basis.
- B29 Each Subcontractor/Supplier/Vendor is responsible for obtaining all project documents and revised project documents through the duration of this project. Contractor will be responsible for notifying this Subcontractor of any changes that will require Subcontractor to obtain revisions and confirm any scope changes. Subcontractor must order or view all required documents through Contractor's internet plan room, NextPlans at Sharpe Images, which will require setting up an account for this Subcontractor.
- B30 All Subcontractors are responsible for review/coordination of their work prior to installation. Coordination includes review of all drawing disciplines (Architectural, Structural, Mechanical, Electrical, Plumbing and Civil). Any conflicts between disciplines must be brought to Contractor's attention for proper consideration. Any change order requests for re-work due to non-coordination between disciplines will not be considered.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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- B31 Subcontractor is responsible for advising in writing any changes to their work, which affects their contract amount and/or schedule and obtaining written approval from Contractor prior to proceeding with work, unless directed otherwise. Failure to adhere to the procedure for changes and field orders as detailed in Article 4 of this Subcontract may result in nonpayment for the work.
- B32 Subcontractors and vendors must prepare all submittals to Contractor as required by and noted in the contract Documents. Submittals must begin within seven (7) calendar days after receipt of a Contract or Letter of Intent from Contractor. Submittals must be completed in time to allow for a minimum of four (4) weeks for Contractor and Architect review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. Delays in shop drawing submittals, as well as continuous resubmittals, will constitute a tacit acceptance by the Subcontractor or vendor to perform, at no additional expense to the Owner, Architect or Contractor any and all overtime work in the shop and/or field to make up for lost time in the construction schedule.
- B33 Subcontractors or Vendors with detailed shop drawings requiring more than two (2) shop drawings or requiring staggered submittals must meet with Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- B34 BIM software will be utilized for coordination purposes and all Subcontractors shall participate in weekly meetings to coordinate applicable work. Subcontractor shall provide Revit files for this coordination if subcontractor completed the initial BIM. If initial BIM was performed by the Contractor per Section 30.10 of the General Summary of Work, then the initial Revit files will be provided by the Contractor. Other formats will be reviewed for compatibility if Revit is unavailable.
- B35 Subcontractor is required to submit Daily Reports of Subcontractor's Work to Contractor on a daily basis. Failure to meet this requirement may delay Subcontractor's payment. Additional forms required to be used by the Subcontractor are Jobsite Safety Analysis Reports, Harness/Lanyard Forms, Lifting Cables Forms, Pre-Trench Checklists, Forklift Checklist, Non-Injury Reports, and any and all other reports as required.
- B36 The Subcontractor shall be responsible for the safe and suitable storage of his equipment and material on site. Materials are to be stored or staged in a location acceptable to Contractor, and shall be relocated as necessary to facilitate the Work.
- B37 Subcontractor shall abide by, coordinate and correct any and all code compliance deficiencies, pertaining to local and state building inspections and officials, as well as third party Special Inspections, testing organization(s).
- B38 Subcontractor is responsible for its own layout from benchmarks provided by Site Subcontractor as described within General Provisions. Subcontractor is responsible for taking and verifying all field dimensions for areas affecting their work. Subcontractor shall verify the established control points and benchmarks and notify the Contractor of all discrepancies prior to the commencement of this scope of work. Subcontractor is to provide a complete As-Built of all anchor bolts and walls in advance of the trade connecting to these locations mobilizing.
- B39 Subcontractor is responsible for replacing any existing guardrail, safety rail, barricade, fencing, etc. if Subcontractor removes to perform Work.
- B40 Subcontractor who requires cutting and patching is responsible for all cutting and patching, including finishes. All cutting and patching must have the approval of Contractor.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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- B41 No cutting of floor slabs will be allowed. All major floor penetrations will be boxed out (formed); all minor floor penetrations may be sleeved or cored. The Contractor will provide control lines on each floor. Subcontractors will be responsible for locating and installing their own box-outs or sleeves. Box-outs/forms may be removable wood forms or cast-in-place metal. Sleeves may be removable cores or cast-in-place metal. All shall be set square, plumb, and true to finish floor level, stuffed or capped to be kept clean.
- B42 Unless noted otherwise, each Subcontractor will be responsible for furnishing and installing the blocking, backing and grounds necessary for the installation of their work. Each Subcontractor must make suitable preparations for the installation of their work, including all piping, conduit, hangers, inserts, anchors, grounds, and supports that are to be embedded in concrete, masonry, walls, floors, partitions or structural members, or that pass through or be attached thereto. Each Subcontractor must provide and install proper sleeves, boxes, receptacles or chases for all openings or recesses to receive his work occurring in or passing through any such members, all of which must be located accurately and secured firmly in place before any such masonry has been erected or concrete poured.
- B43 Any Subcontractor required to work on a finished roof area will be required to furnish adequate protection to avoid any damage to the finished roof area. Any damage that occurs as a failure to protect the roof area will be repaired by Contractor. All costs incurred by Contractor, will be paid by the Subcontractor responsible for failing to protect the finished roof area. Method of protection must be approved by Contractor.
- B44 Each Subcontractor is responsible in preparing, executing and upon completion, submitting their punch list for use in creating punch list generated by Contractor.

**C. Bid Package 02H Specific Allowances:**

- C01 Allowance No. 1 - Not applicable to 02H.
- C02 Allowance No. 2 - Not applicable to 02H.
- C03 Allowance No. 3 - Not applicable to 02H.
- C04 Allowance No. 4 - Not applicable to 02H.
- C05 Allowance No. 5 - Not applicable to 02H.
- C06 Allowance No. 6 - Not applicable to 02H.
- C07 Not Used

**ALTERNATES**

The Form of Proposal contains a list of all Alternates for this project. If an Alternate does not affect the scope of this Bid Package it is to be marked as "No Change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will interpreted as no change to the "Base Bid Amount" on the Form of Proposal.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

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**ALLOWANCES**

The following are to be included in the Base Bid of this bid package.

- 01 ALL-01 Not applicable to 02H
- 02 ALL-02 Not applicable to 02H
- 03 ALL-03 Not applicable to 02H
- 04 ALL-04 Not applicable to 02H
- 05 ALL-05 Not applicable to 02H
- 06 ALL-06 Not applicable to 02H

**UNIT PRICES**

The following are to be entered on the Form of Proposal for the bid to be considered responsive.

- UP-01 Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.
- UP-02 Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.
- UP-03 Trench rock excavation and replacement with satisfactory soil material.
- UP-04 Mass rock excavation and replacement with satisfactory soil material.
- UP-07 Lean Concrete.

**ALL ALTERNATES AND UNIT PRICES MUST INCLUDE  
SUBCONTRACTOR'S OVERHEAD, PROFIT AND BOND COSTS.**



**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. The price breakdown is for information and evaluation purposes only. The **BID AMOUNT** quoted shall be the full compensation for each Bid Package as defined by the Scope of Work. Bid Amounts shall be broken down as identified below.

**ENTER COMPANY NAME HERE:**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>1</b>	<b><u>Staging and Logistics</u></b>	1	LS	
1.01	Mobilization(s)		EA	
1.02	Layout / Staking	1	LS	
1.03	Engineering / Design Services	1	LS	
1.04	Misc. Staging and Logistics Items	1	LS	
1.05	Demolition	1	LS	
<b>2</b>	<b><u>Power Supply for Tower Crane</u></b>	1	LS	
2.01	Temporary Power for Trailers	1	LS	
2.02	Telecom Ductbank		LF	
2.03	Electrical Ductbank		LF	
2.04	Site Improvements	1	LS	
<b>3</b>	<b><u>Allowances</u></b>	1	LS	
3.01	ALL-01 Not applicable to 02H		CY	
3.02	ALL-02 Not applicable to 02H		CY	
3.03	ALL-03 Not applicable to 02H		CY	
3.04	ALL-04 Not applicable to 02H		CY	
3.05	ALL-05 Not applicable to 02H	1	LS	
3.06	ALL-06 Not applicable to 02H	1	LS	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 02H - Site Electrical**

<i><b>BID SUMMARY:</b></i>		<u><b>Amounts</b></u>
1	Subtotal	
2	Sales Tax on Materials Incorporated into the Site and Buildings	
3	Bond Amount as Required by Bid Documents	
4	Out of Town Living Expenses for Labor Crews (IF APPLICABLE)	
<b>TOTAL PRICE (Lines 1 + 2 + 3 + 4)</b>		

<b>SECOND TIER SUBCONTRACTORS</b>			
How much of the above scope of work do you plan to subcontract?			
<u><b>Second Tier Subcontractor</b></u>	<u><b>Scope of Work</b></u>	<u><b>MWSBE (Y/N)</b></u>	<u><b>Amounts</b></u>
1.			
2.			
3.			
4.			
5.			
6.			
<b>TOTAL SECOND TIER SUBCONTRACTORS:</b>			

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 03C - Complete Concrete Structures

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DIVISION OF WORK: Bid Package Subcontractor is exclusively responsible for work described in the following:

#### I. SPECIFICATION SECTIONS:

- A. Applicable in total to the work of this Bid Package:
  - Division Zero - Bidding Requirements and Contract Forms
  - Division One - General Requirements
  - 03 05 10 - Concrete Moisture Vapor Reduction Admixture (MVRA)
  - 03 30 00 - Cast-In-Place Concrete
  - 07 11 13 - Bituminous Dampproofing
  - 07 13 26 - Self-Adhering Sheet Waterproofing
- B. Applicable only as required by the work of this Bid Package:
  - 02 41 19 - Selective Demolition
  - 05 12 00 - Structural Steel Framing
  - 05 31 00 - Steel Decking
  - 31 10 00 - Site Clearing
  - 31 20 00 - Earth Moving
  - 31 25 13 - Erosion Control
  - 33 46 00 - Subdrainage

**II. WORK DESCRIPTION: Provide all labor, materials, supervision, equipment, insurance, overhead and profit, necessary or incidental, as required to complete the scope of work identified in the construction drawings and applicable specification sections referenced above. Performance of the work must include, but is not necessarily limited to the following:**

#### General Considerations

- GC01 Engineering services (by an engineer registered in the project state) related to the structural concrete installation (e.g. shop drawings) that are necessary to satisfy the requirements of the specifications, testing agencies, and prevailing jurisdictional authorities.
- GC02 Concrete spillage may not be deposited in the project dumpster(s) and must be removed and disposed off-site. Subcontractor must provide a washout tub that is lined and cleaned throughout the project for all concrete washout.
- GC03 Concrete finishing tolerances must be per the project specifications.  
  
Any patching / repair required as a result of failure to meet the above specified tolerances must be submitted to and approved by the Contractor and the Architect. Prior to starting any patching / repair activities moisture test must be performed to make sure the floor moisture present is within the acceptable limits of the flooring material to be installed. Patching / repair activities will take place only after the building is enclosed and environmental conditions are acceptable to the Contractor.
- GC04 If Subcontractor is doing work within the leading edge of the project and temporary power service is not accessible, then Subcontractor shall provide portable generators for their power usage.
- GC05 Work must be in accordance with the Preliminary Construction Schedule. Bidders are to include adequate quantity of formwork material, equipment, and manpower to complete the work as scheduled.
- GC06 Concrete surfaces to be waterproofed are to be left in the proper condition to receive waterproofing as indicated. This includes assurance of compatibility of curing compounds with waterproofing materials.
- GC07 Construction, control and expansion joints as indicated or as may be required for proper installation of this Scope of Work. A control joint layout drawing must be provided and submitted to the design team for approval prior to any concrete placement.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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- GC08 Chamfers, waterstop, sleeves, reglets, and dovetail slots as indicated or as may be required for proper installation of this Scope of Work. Note that it is the responsibility of this Subcontractor to provide all horizontal waterstop and all vertical water stop that may be required. The junctures between the vertical and horizontal water stop (provided by this Subcontractor) must be made watertight in accordance with the manufacturer's recommendations. This subcontractor is to provide elevator pit waterproofing as part of this package.
- GC09 Mud slabs as indicated (or required by field conditions to maintain schedule, means and methods, recommendation of the geotechnical engineer or testing agency), to be used as subbase for wall forms as may be applicable. No exposed foundation soil shall be kept uncovered overnight, all foundations that are not dug and poured in the same day shall receive a 2" mud mat.
- GC10 Pointing and patching of any and all honeycombing and form tie holes.
- GC11 Rubbing of concrete surfaces that will be exposed to view in occupied areas.
- GC12 At concrete surfaces that will be exposed to view, including those concrete surfaces that are either painted or receive textured coating:
- GC12.01 All fastening devices used to secure embedded items to formwork are to be stainless steel.
- GC12.02 Loose tie wire, nails, and all other debris to be completely cleaned off of deck forms prior to concrete placement. No marking of decks with paint or marker or any other marking tool that would leave permanent markings.
- GC12.03 In air-conditioned spaces, reinforcing metal supports, including bolsters and chairs, which are adjacent to formwork shall be equipped with snug fitting, high density, plastic tips or plastic coated legs, which provide 1/2" minimum clearance between the metal and any exposed surface. Solid plastic supports are also acceptable at these locations. In non-conditioned spaces these supports must be solid plastic. In areas where concrete is not painted or finished with other covering, color of plastic to match color of cured concrete.
- GC13 Weather protection, including heating and blankets required for cold weather concrete placement, necessary to ensure the quality of installations is maintained. This also includes required cooling additives for hot weather placement
- GC14 Subcontractor to expect multiple mobilizations in completing the work of this bid package.
- GC15 Concrete installation in accordance with sequences established by the Structural Engineer. This is to be established in a pre-pour meeting scheduled a minimum of 2 weeks prior to the first pour. This subcontractor is to provide an agenda and all parties required to the party in advance of the meeting.
- GC16 Participate in the coordination of all concrete embeds, sleeves, openings, and penetrations prior to installation. This Subcontractor is to provide 1/4" detailed plan and elevation drawings prepared in Autodesk Revit 2011 for each slab pour with reinforcement, Architectural openings as applicable. These drawings are to be modified and approved by all trades prior to concrete pours.
- GC17 Ensure all concrete delivered to project complies with specifications and is to cooperate with independent inspection and testing agencies in obtaining all testing materials, samples, and information. This includes ensuring all information required by the specifications is obtained and reported. This shall include up to two (2) curing boxes, with a minimum capacity to hold up to 20 cylinders, in a temperature and humidity controlled environment per ASTM. Include power to boxes and mobility for relocation purposes.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 03C - Complete Concrete Structures

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- GC18 Water/cement ratio is the most important factor regarding moisture migration, permeability and rate of drying of a concrete slab; therefore, all interior slab concrete will have a water/cement ratio of 0.45 unless otherwise specified lower in the bid documents.
- GC19 Unless stated otherwise all interior concrete slabs that receive floor finishes are to include a moisture vapor reduction admixture as specified.
- GC20 MINORITY/HUB PARTICIPATION
- The aggregate goal for this project is thirty percent (30%) participation by minority, women-owned and small business.
- GC21 A pre-pour inspection check list must be completed prior to any concrete pour. The pre-pour inspection check list must be approved by the CM Superintendent prior to concrete placement. This checklist must consist of a sign off for all trades involved in which this contractor will coordinate and lead the sign-off process of this pour card process.
- GC22 Pumping, concrete material and placement, formwork material and installation, reinforcing steel material and installation and concrete accessory material and installation as required to complete the scope of work shall be provided by this Subcontractor. Contractor will be providing a tower crane. Subcontractor to include unloading any materials that arrive prior to the crane being erected.

#### **B. Complete Concrete Substructures**

- B01 Backfilling of all interior foundations walls and footings. Fill material to be imported and approved by the special inspector and designer. Granular fill included if shown on the contract documents. Backfilling of any interior or exterior concrete stairs is included.
- B02 Formwork, concrete, concrete reinforcement, and miscellaneous accessories to provide complete systems of continuous footings, spread footings, grade beams, piers, tie beams, steps, ramps, site and foundation walls & footings.
- B03 Excavation of footings, backfilling, compaction, proof rolling, and fine grading required to install this Scope of Work. Subcontractor to receive building pad at subgrade elevation +/- .1 feet. Subcontractor includes reestablishment of building pad following all underground MEPF and Gas utilities activities to meet compaction requirements and elevation requirements prior to prep and placement of slab.
- B04 Place and compact suitable under slab granular fill material to the depth below finish floor elevations indicated (6" if not designated). This work is to be performed as soon as possible in each area after pier and wall forms are stripped and backfilling operations are completed. Fine grade to within  $\pm 0.05$  foot.
- B05 Supply and install all foundation drainage if located within the building pad. This is to coincide with any interior backfill performed by this bid package. Please see B01 above.
- B06 Slabs-on-grade, including vapor barrier. Vapor barrier to be a minimum a 15 mil with taped joints and penetrations taped airtight.
- B07 Items embedded in concrete as indicated or required to complete the Scope of Work. A detailed schedule is to be provided by this Subcontractor for all embedded material showing when material is required. When provided, this Subcontractor is to inventory and sign for all material. Anchor bolts, whether template set or drilled, and leveling nuts to be installed by this Subcontractor and furnished by the Steel Subcontractor.
- B08 Haul off all spoils from excavation activities as directed by Contractor's Superintendent. There is no space on site to store this material.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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- B09 Caulking at slab on grade control joints, expansion joints, or as required between concrete elements.
- B10 All elevated slabs is the responsibility of this bid package.
- B11 Utility/Equipment pads, elevator pits, footings and piers.
- B12 Perimeter foundation insulation where required.
- B13 Maintenance of ground water level at or below four (4') feet of the subgrade elevation is by the Site Subcontractor. Any other pumping required to remove surface or ground water from excavations is by this Subcontractor.
- B14 After preparation and proof rolling by the Grading Subcontractor, this Subcontractor will maintain the building pad in an acceptable condition to allow all work to proceed unencumbered. This includes removal of surface water; removal, drying and replacement of wet soils; and any other means necessary to maintain an acceptable working surface.
- B15 Clean all foundation components as necessary to remove soil and contaminants interfering with proper performance of steel and wall construction.
- B16 Brace knee, foundation and retaining walls for backfilling operations to happen prior steel erection. Basement wall is not designed as a retaining wall. Subcontractor is responsible for any engineering costs for bracing.
- B17 Grout structural steel column base plates.
- B18 Include costs for (6) sump pump pits contained within the footprint of the building to control rain water from the start of the foundations to the completion of the slab. The pits needs to be 4' in depth and have 12" corrugated piping surrounded with 57 stone with filter fabric and include 2" sump pumps. 200 LF of hose with silt sack at each location needs to be included as well.

**C. Complete Concrete Superstructures**

- C01 Formwork concrete, concrete reinforcement, sleeves, block outs, and any other items required to provide all composite floor slabs, topping slabs, utility/equipment pads, structural concrete, and architectural concrete from the top of foundations and walls provided under the Substructure Package through and including the various roof levels.
- C02 Sleeves and block outs shown on the structural drawings. All other sleeves will be furnished and installed by others. Coordinate placement of concrete and concrete reinforcing with the Subcontractor(s) placing all other sleeves.
- C03 Miscellaneous metal and all other elements embedded in concrete, including all miscellaneous angles welded to embedded items required for support of masonry, precast or elevator sill angles.
- C04 Cast-in-place concrete (including curing, sealants, and hardening compounds) and concrete reinforcing at all elevated concrete slabs. This includes floor and roof slabs at concrete frame, and floor and roof slabs-on-metal deck. Subcontractor will clean all debris from the surfaces to receive the concrete.
- C05 Metal stairs will be furnished and installed by others. This Subcontractor is to coordinate with that installation and provide all concrete fill for treads and landings. This includes preparation of steel and cleaning following placement so that steel surface is ready for paint following cleaning process with all drippings and splatters cleaned and removed from the steel.
- C06 Nosings for concrete stairs are furnished under this package and installed by this Subcontractor.

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**Bid Package No. 03C - Complete Concrete Structures**

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- C07 Floor holes 2" or greater in its least dimension shall be covered and labeled per OSHA standards.
- C08 Not Used.
- C09 Clean up of any and all concrete leakage.
- C10 Cadwelds, lenton couplers, shear studs and stud rails as required.
- C11 Concrete on metal deck and concrete in infill areas. This includes any concrete floor beams (ex. 06/S403).
- C12 Furnishing and installation of deformed anchor bars is by the Steel Subcontractor.
- C13 Coordinate locations of all depressed slabs.
- C14 This Subcontractor has included costs associated with the labor, materials, supervision and equipment for any housekeeping pads for the MEPF trades.
- C15 Shoring of Dovetail floor deck will be by the Subcontractor doing the load bearing metal stud system. Cleaning/Blowing off the deck prior to concrete placement will be by bid package 03C. Forming of slab tie in beams that are not dovetail decking is by this package. Furnish and install reinforcing in concrete slabs on dovetail decking is included.

**D. Concrete Formwork**

- D01 Furnish all Formwork necessary to achieve the project schedule..
- D02 Remove all aspects of form work when appropriate.

**E. Concrete Reinforcing**

- E01 Masonry reinforcing to be furnished under this bid package. Reinforcing to be installed by the Masonry Subcontractor. This includes any masonry site walls.
- E02 Rebar, bolsters, chairs, slick dowels, tie wire, wire mesh, couplers and any other miscellaneous item necessary to complete installation of the reinforcing material. Rebar for site paving and concrete hardscapes/walks will be by Bid Package 02A.
- E03 All reinforcing to covered and properly protected from the elements.
- E04 Welding of related work as it pertains to reinforcing.
- E05 Welders certifications as required for this scope of work.
- E06 Install and maintain rebar safety caps during construction.

**F. GENERAL SCOPE PROVISIONS**

- F01 Payment and Performance Bond as required in the Instructions to Bidders is to be included for this scope of work.
- F02 Sales tax included in this scope of work. Sales tax is to be reported with monthly pay application per the NC State Guidelines & General Conditions.

**SPECIFIC SUMMARY OF WORK**  
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- F03 In compliance with Contractor safety procedures and policies (this includes but is not limited to Site Specific Safety Plans, daily reports, JHA's, and Non-Injury reports). This Subcontractor shall submit to Contractor its written company safety program prior to commencing work and shall address site specific safety concerns within program. This also includes the Subcontractor agreeing that they have visited and reviewed the existing jobsite condition(s) and has accounted for all provisions necessary to perform its scope of work within its submitted bid/pricing.
- F04 An onsite project Superintendent is included for the complete duration of the project. The Superintendent shall remain on site for the entire duration of the project and shall not be removed from the project unless otherwise coordinated with the Contractor's project Superintendent. (This includes having an IPAD.)
- F05 The onsite project Superintendent will have full access to email and be trained and fully capable to use it and will have the capabilities and knowledge to access and review all submittal documentation and contract documents on a web based project site.
- F06 Not Used.
- F07 This Subcontractor is in compliance with project hours consisting of Monday through Friday 8:00AM to 5:00 PM with Saturday as a make-up day, or as needed to maintain the project schedule. Additional hours will not be granted in the event that additional hours are needed as a result of lack of manpower during normal hours.
- F08 This Subcontractor has included costs for a competent PM and superintendent to attend all weekly Subcontractor meetings. This Subcontractor can't remove the foreman or superintendent from the project and must keep them for the entire project duration unless the Contractor's superintendent directs so otherwise.
- F09 This Subcontractor has included costs to accommodate for materials/equipment deliveries to take place after hours if need be.
- F10 This Subcontractor has included multiple mobilizations.
- F11 This Subcontractor will submit all submittals electronically unless otherwise noted.
- F12 No compensation will be paid by Contractor to this Subcontractor for any extra work performed that is not verified and signed off by a Contractor's Superintendent or a qualified Contractor's representative designated by Contractor's Project Superintendent.
- F13 Subcontractor to protect work at the end of each workday. This includes any and all weather protection from rain, cold or heat as well as barricades to prevent others from entering area.
- F14 This Subcontractor will be responsible for Setting up, providing an agenda as well as having all applicable parties on hand for a Concrete Pre-Start Meeting.
- F15 In the event of any discrepancies and or errors that are found in the Contract Documents or Specifications, this Subcontractor shall be required to immediately notify the Contractor of the discrepancies before proceeding with the work, and shall be deemed responsible to have estimated the highest quality means and methods of performing the Work while maintaining progress schedule.
- F16 Upon the completion and prior to the acceptance of the Work, this Subcontractor shall, if applicable, subject all the installed systems to all the applicable test(s) as may be required by the Architect, Contractor, and State / Local Inspectors to demonstrate satisfactory function, compliance to code, and design efficiency. All instruments, facilities, and labor required to conduct these test(s) will be provided by this Subcontractor at no additional cost to the Contractor.



**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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- F17 It shall be the responsibility of this Subcontractor to submit all required closeout information including As-Built drawings, warranties, operation / maintenance manuals, product data, and all other required information pertinent to the maintenance and operation of the building as it applies to the Work requirements of this Subcontract Agreement. It is further understood that no final payments shall be released by the Contractor, prior to the receipt of said required information. As-Builts to be provided electronically in Auto Cad 2014 and submitted monthly with pay application.
- F18 This Subcontractor acknowledges that its Work must be coordinated with work of other trades and further agrees to coordinate its shop drawings, details, and submittals with those of the affected trades to ensure proper fit and coordination with such Work. It is the responsibility of this Subcontractor to ensure proper fit and coordination of its work with other trades.
- F19 Subcontractor is responsible for having an interpreter (or interpreters) on the work site at all times for non-English speaking employees to insure that all safety and work instructions can be communicated. The interpreter(s) must be fluent in English and the language of the non-English speaking employee(s).
- F20 Subcontractor shall provide all material and equipment (lulls, forklifts, etc.) staging pads necessary to facilitate scope of work.
- F21 Owner Requested Changes; Should Owner or Architect request changes affecting the contract sum or contract completion time, a proposal request shall be issued through Contractor to the affected Subcontractors. Unless otherwise noted, a period of one week will be allowed for a review and response to the request. Should a response not be received from Subcontractor in this time, it shall be assumed that any changes reflected in the request shall be performed at no additional cost.
- F22 It shall be the responsibility of the Subcontractor to certify that their employees, their Suppliers and Subcontractors operating equipment are qualified to operate said equipment in a professional manner so as not to endanger other people or property.
- F23 Contractor reserves the right to make joint check payments to Subcontractor and any or all of the Subcontractor's Tier Subcontractors or Suppliers.
- F24 Work being installed over the work of others, existing conditions, etc. must be reviewed and found to be acceptable or documented to and received by Contractor if not acceptable, prior to commencing work. Failure to comply with this provision will be construed as acceptance of substrate by Subcontractor.
- F25 This Subcontractor shall be responsible for performing all necessary field measurements to ensure proper installation of this scope of work.
- F26 Any specific penalty of liquidated damage imposed on the Contractor by the Owner as a result of faulty, unacceptable, incomplete, untimely, or delayed work, or any other reasons, shall be imposed on the Subcontractor by the Contractor to the extent that the penalty or liquidated damage is a result of the Subcontractors performance.
- F27 This Subcontractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless this Subcontractor has specifically informed the Architect and Contractor in writing of such deviation at the time of submission and the Architect has given written approval to the specific deviation. Subcontractor shall not be relieved from responsibility for errors and omissions of details, dimensions or otherwise in the shop drawings, product data, samples or similar submittals by the Architect's approval thereof. The review of submittals will be general and shall not be construed as approval of departures from additional details or instruction previously provided by the Architect, Engineers or Contractor.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 03C - Complete Concrete Structures

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- F28 Subcontractor shall be responsible for obtaining their own set of Contract Documents (i.e. drawings, specifications, etc.) at their own expense. Contract documents will be available through Contractor's internet plan room, NextPlans at Sharpe Images. Up-to-date record drawings are to be maintained on site by each Subcontractor. Contractor may request to review these drawings with Subcontractor at least on a monthly basis.
- F29 Each Subcontractor/Supplier/Vendor is responsible for obtaining all project documents and revised project documents through the duration of this project. Contractor will be responsible for notifying this Subcontractor of any changes that will require Subcontractor to obtain revisions and confirm any scope changes. Subcontractor must order or view all required documents through Contractor's internet plan room, NextPlans at Sharpe Images, which will require setting up an account for this Subcontractor.
- F30 All Subcontractors are responsible for review/coordination of their work prior to installation. Coordination includes review of all drawing disciplines (Architectural, Structural, Mechanical, Electrical, Plumbing and Civil). Any conflicts between disciplines must be brought to Contractor attention for proper consideration. Any change order requests for re-work due to non-coordination between disciplines will not be considered.
- F31 Subcontractor is responsible for advising in writing any changes to their work, which affects their contract amount and/or schedule and obtaining written approval from Contractor prior to proceeding with work, unless directed otherwise. Failure to adhere to the procedure for changes and field orders as detailed in Article 4 of this Subcontract may result in nonpayment for the work.
- F32 Subcontractors and vendors must prepare all submittals to Contractor as required by and noted in the contract Documents. Submittals must begin within seven (7) calendar days after receipt of a Contract or Letter of Intent from Contractor. Submittals must be completed in time to allow for a minimum of four (4) weeks for Contractor and Architect review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. Delays in shop drawing submittals, as well as continuous resubmittals, will constitute a tacit acceptance by the Subcontractor or vendor to perform, at no additional expense to the Owner, Architect or Contractor any and all overtime work in the shop and/or field to make up for lost time in the construction schedule.
- F33 Subcontractors or Vendors with detailed shop drawings requiring more than two (2) shop drawings or requiring staggered submittals must meet with Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- F34 BIM software will be utilized for coordination purposes and all Subcontractors shall participate in weekly meetings to coordinate applicable work. Subcontractor shall provide Revit files for this coordination if subcontractor completed the initial BIM. If initial BIM was performed by the Contractor per Section 30.10 of the General Summary of Work, then the initial Revit files will be provided by the Contractor. Other formats will be reviewed for compatibility if Revit is unavailable.
- F35 Subcontractor is required to submit Daily Reports of Subcontractor's Work to Contractor on a daily basis. Failure to meet this requirement may delay Subcontractor's payment. Additional forms required to be used by the Subcontractor are Jobsite Safety Analysis Reports, Harness/Lanyard Forms, Lifting Cables Forms, Pre-Trench Checklists, Forklift Checklist, Non-Injury Reports, and any and all other reports as required.
- F36 The Subcontractor shall be responsible for the safe and suitable storage of his equipment and material on site. Materials are to be stored or staged in a location acceptable to Contractor, and shall be relocated as necessary to facilitate the Work.
- F37 Subcontractor shall abide by, coordinate and correct any and all code compliance deficiencies, pertaining to local and state building inspections and officials, as well as third party Special Inspections, testing organization(s).

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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- F38 Subcontractor is responsible for its own layout from benchmarks provided by Site Subcontractor as described within General Provisions. Subcontractor is responsible for taking and verifying all field dimensions for areas affecting their work. Subcontractor shall verify the established control points and benchmarks and notify the Contractor of all discrepancies prior to the commencement of this scope of work. Subcontractor is to provide a complete as-built of all anchor bolts and walls in advance of the trade connecting to these locations mobilizing.
- F39 Subcontractor is responsible for replacing any existing guardrail, safety rail, barricade, fencing, etc. if Subcontractor removes to perform Work.
- F40 Subcontractor who requires cutting and patching is responsible for all cutting and patching, including finishes. All cutting and patching must have the approval of Contractor.
- F41 No cutting of floor slabs will be allowed. All major floor penetrations will be boxed out (formed); all minor floor penetrations may be sleeved or cored. The Contractor will provide control lines on each floor. Subcontractors will be responsible for locating and installing their own box-outs or sleeves. Box-outs/forms may be removable wood forms or cast-in-place metal. Sleeves may be removable cores or cast-in-place metal. All shall be set square, plumb, and true to finish floor level, stuffed or capped to be kept clean.
- F42 Unless noted otherwise, each Subcontractor will be responsible for furnishing and installing the blocking, backing and grounds necessary for the installation of their work. Each Subcontractor must make suitable preparations for the installation of their work, including all piping, conduit, hangers, inserts, anchors, grounds, and supports that are to be embedded in concrete, masonry, walls, floors, partitions or structural members, or that pass through or be attached thereto. Each Subcontractor must provide and install proper sleeves, boxes, receptacles or chases for all openings or recesses to receive his work occurring in or passing through any such members, all of which must be located accurately and secured firmly in place before any such masonry has been erected or concrete poured.
- F43 Any Subcontractor required to work on a finished roof area will be required to furnish adequate protection to avoid any damage to the finished roof area. Any damage that occurs as a failure to protect the roof area will be repaired by Contractor. All costs incurred by Contractor, will be paid by the Subcontractor responsible for failing to protect the finished roof area. Method of protection must be approved by Contractor.
- F44 Each Subcontractor is responsible in preparing, executing and upon completion, submitting their punch list for use in creating punch list generated by Contractor.

**G. PROJECT MILESTONES AND DURATIONS**

- G01 The schedule will include multiple mobilizations due to all activities being installed at specific points in the schedule. The Contractor's superintendent will coordinate in advance of the work area being ready to begin installation. Each detailed portion of work listed in the contract will be installed at a specific time.
- G02 Subcontractor understands that multiple mobilizations will occur to complete this scope of work and has allocated the means for an undetermined quantity at time of contract execution.
- G03 Subcontractor hereby agrees to assist in preparing Project Schedule and will mobilize on site in early to mid to late May, 2015, with steel erection starting July of 2015, with an overall project completion in June of 2016. Additional construction activities will be included within this Project Schedule so as to properly coordinate work within this Agreement with that of Work outside of this Agreement so as to assure completion of all Work within the overall Project Schedule. Upon creation of this Project Schedule, document will be incorporated into the Subcontract Agreement by Change Order. This subcontractor is obligated to work with the engineer and Project Team and design/assist to meet the dates listed above.

**SPECIFIC SUMMARY OF WORK**  
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**J. WATERPROOFING AND SEALANTS**

- J01 Responsible for providing the waterproofing systems (including protection boards and drainage panels) including, but not limited to, that of all below grade walls, elevator pits and sump pumps. Applications of all waterproofing materials are to be in strict accordance with the manufacturer's instructions and the specifications.
- J02 Provide complete waterproofing system including but not limited to sheet membrane, bentonite barriers, protection mat, drainage mat, termination bars and hydrobar tubes. Any sealants associated with termination bars or the system is included as well.
- J03 Provide waterproofing at interior side of elevator pits and sump pits in addition to exterior waterproofing barrier.
- J04 Includes minor preparation of all surfaces that are to receive waterproofing to a condition as recommended by the materials manufacturer. Minor preparation includes, the application of primers prior to the application of all waterproofing materials and preparation of all joints, cracks and minor honeycombs using methods as indicated in the product specifications and as recommended by the manufacturer.
- J05 Include the waterproofing at the finished floor to waterproofing assemblies including caulking and peel & stick at the dens glass to concrete joint.
- J06 Includes performing all surface preparations as required to provide a surface profile that will facilitate adhesion Surface preparations shall be in accordance with the Contract Documents and as recommended by the manufacturer.
- J07 Coordinate the installation of waterproofing as it ties into the air barrier application.
- J08 Not used.
- J09 Caulk all slab on grade joints per the drawings and specifications. For example, perimeter caulking as shown on A4/A500 is included.
- J10 Provide necessary flashings of own work.
- J11 Responsible for the application of joint sealants and caulking as specified in the Contract Documents, industry standards and as further clarified within this Subcontract scope. Proper application of joint sealants and caulking includes the use of backer rod, primers and bond breaker tape.
- J12 Not Used.
- J13 Responsible for all equipment necessary to complete the full scope of work as indicated in this Subcontract.
- J14 All below grade waterproofing measures.
- J15 Properly waterproof and caulk work that may penetrate work within this scope including site utilities.
- J16 Provide written confirmation from the caulking and sealant manufacturer, that all materials that come into contact with adjacent caulking materials, including materials provided by other Subcontractors, are compatible. Failure to provide this in a timely manner may affect the payments made to this Subcontractor.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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J17 Include cleaning; preparing and priming all caulk joints as required to remove foreign matter that will interfere with the proper bonding of joint sealant and caulking materials. Etching of concrete surfaces to remove alkalinity and roughening joint surfaces on non-porous materials, as needed or required, is the responsibility of this Subcontractor. Manufacturer's installation recommendations must be followed with regard to temperature/weather, substrate criteria, and size/dimension of the caulking/sealant bead joint.

J18 Joint sealants and caulking shall be tooled and cured as specified and recommended by the sealant manufacturer and shall not be allowed to overflow onto adjacent surfaces. Remove excess materials immediately to avoid damage to adjacent surfaces. This Subcontractor shall protect adjacent finished surfaces using bond breaker tape and clean and remove misapplied materials using solvents and methods recommended by manufacturer that will not adversely affect the cleaned surface. This Subcontractor is expected to clean any residual or extra material on adjoining surfaces as the installation progresses. It is unacceptable for this Subcontractor to clean up "at the end" of the application. Clean-up needs to occur throughout the installation.

**Z. Bid Package 03C Specific Allowances:**

Z01 Allowance No. 1 - Not applicable to 03C.

Z02 Allowance No. 2 - Not applicable to 03C.

Z03 Allowance No. 3 - Not applicable to 03C.

Z04 Allowance No. 4 - Not applicable to 03C.

Z05 Allowance No. 5 - Not applicable to 03C

Z06 Allowance No. 6: Include in Base Bid 600 square feet - Waterproofing @ Sanford Hall.

**ALTERNATES**

The Form of Proposal contains a list of all Alternates for this project. If an Alternate does not affect the scope of this Bid Package it is to be marked as "No Change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will interpreted as no change to the "Base Bid Amount" on the Form of Proposal.

**ALLOWANCES**

The following are to be included in the Base Bid of this bid package.

01 ALL-01 Not applicable to 03C

02 ALL-02 Not applicable to 03C

03 ALL-03 Not applicable to 03C

04 ALL-04 Not applicable to 03C

05 ALL-05 Not applicable to 03C

06 ALL-06 Waterproofing as specified per Item Z06.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

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**UNIT PRICES**

The following are to be entered on the Form of Proposal for the bid to be considered responsive.

- UP-01 Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.
- UP-02 Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.
- UP-03 Trench rock excavation and replacement with satisfactory soil material.
- UP-04 Mass rock excavation and replacement with satisfactory soil material.
- UP-06 Waterproofing at Sanford Hall
- UP-07 Lean Concrete.

**ALL ALTERNATES AND UNIT PRICES MUST INCLUDE  
SUBCONTRACTOR'S OVERHEAD, PROFIT AND BOND COSTS.**

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. The price breakdown is for information and evaluation purposes only. The BID AMOUNT quoted shall be the full compensation for each Bid Package as defined by the Scope of Work. Bid Amounts shall be broken down as identified below.

**ENTER COMPANY NAME HERE:**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>1</b>	<b><u>Staging and Logistics</u></b>	1	LS	
1.01	Mobilization(s)	1	LS	
1.02	Layout	1	LS	
1.03	Engineering / Design Services	1	LS	
1.04	Misc. Staging and Logistics Items	1	LS	
<b>2</b>	<b><u>Foundation Excavation and Backfill</u></b>	1	LS	
2.01	Foundation Excavation		CY	
2.02	Foundation Backfill		CY	
2.03	Haul Off Spoils		CY	
2.04	Misc. Fdn Excavation and Backfill Items		CY	
2.05	Interior Foundation drain (Includes stone and filter fabric)		LF	
2.06	Wall Bracing	1	LS	
<b>3</b>	<b><u>Soil Treatment</u></b>	1	LS	
3.01	Soil Treatment		SF	
3.02	Misc. Soil Treatment Items	1	LS	
<b>4</b>	<b><u>Foundation Drainage/Waterproofing</u></b>	1	LS	
4.01	Foundation drain (Inside the Building)		LF	
4.02	Drainage Backfill at Foundation Walls		TN	
4.03	Underslab Drainage Fill		TN	
4.04	Misc. Foundation Drainage Items	1	LS	
4.05	Self-Adhering Sheet Waterproofing Foundations		SF	
4.06	Self-Adhering Sheet Waterproofing Elevator Pit.		SF	
4.07	Bituminous Dampproofing		SF	
<b>5</b>	<b><u>Joint Sealants</u></b>		LF	
5.01	Slab on Grade Control Joints		LF	
5.02				

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>6</b>	<b><u>Formwork</u></b>	1	LS	
6.01	Foundation Formwork		SF	
6.02	Wall Formwork		SF	
6.03	Horizontal Formwork		SF	
6.04	Slab on Grade Edge Forms		SF	
6.05	Elevated Slab Edge Forms		SF	
6.06	Misc. Formwork Items	1	LS	
<b>7</b>	<b><u>Concrete Reinforcement</u></b>	1	LS	
7.01	Rebar		TN	
7.02	Wire Mesh		SF	
7.03	Reinforcing Supports	1	LS	
7.04	Misc. Concrete Reinforcement Items	1	LS	
<b>8</b>	<b><u>Ready-Mix Concrete Material</u></b>	1	LS	
8.01	3,000 psi Normal Weight Concrete		CY	
8.02	3,000 psi Light Weight Concrete		CY	
8.03	3,500 psi Normal Weight Concrete		CY	
8.04	3,500 psi Light Weight Concrete		CY	
8.05	4,000 psi Normal Weight Concrete		CY	
<b>9</b>	<b><u>Concrete Additives and Hoisting</u></b>	1	LS	
9.01	MVRA Reduction Admixture	1	LS	
9.02	Superplasticizer	1	LS	
9.03	Pump Concrete		CY	
9.04	Concrete Hoisting	1	LS	
<b>10</b>	<b><u>Concrete Placement</u></b>	1	LS	
10.01	Place Concrete Foundations		CY	
10.02	Place Concrete Walls		CY	
10.03	Place Concrete Columns		CY	
10.04	Place Metal Pan Stair Fill		CY	
10.05	Place Elevated Slabs		CY	
10.06				



**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>11</b>	<b><u>Place and Finish Concrete</u></b>	1	LS	
11.01	Place and Finish Slab on Grade to a tolerance of FL20 FF20 or to the Architect's specifications whichever is more stringent.		SF	
11.02	Place and Finish Slab on Deck to a tolerance of FF20 or to the Architect's specifications whichever is more stringent.		SF	
11.03	Place and Finish Curbs and Pads		SF	
11.04	Place Topping Slabs		SF	
11.05	Rub Concrete Walls		SF	
<b>12</b>	<b><u>Concrete Accessories</u></b>	1	LS	
12.01	Grout Base Plates		EA	
12.02	Form and Pour Column Blockouts		EA	
12.03	Dovetail Slots		EA	
12.04	Rigid Perimeter Insulation		SF	
12.05	Expansion Joint Material and Caulking of all Joints		LF	
12.06	Sawcut Control Joints		LF	
12.07	Waterstop / Keyway		LF	
12.08	Vapor Barrier		SF	
12.09	Other Misc. Concrete Accessories	1	LS	
<b>13</b>	<b><u>Unload, Store, Protect, and Install Items Furnished by Others</u></b>	1	LS	
13.01	Anchor Bolts and Leveling Nuts		EA	
13.02	Stair Nosings		EA	
13.03	Misc. Concrete Embeds	1	LS	
<b>14</b>	<b><u>Allowances</u></b>			
14.01	ALL-01 Not applicable to 03C		CY	
14.02	ALL-02 Not applicable to 03C		CY	
14.03	ALL-03 Not applicable to 03C		CY	
14.04	ALL-04 Not applicable to 03C		CY	
14.05	ALL-05 Not applicable to 03C	1	LS	
14.06	ALL-06 Waterproofing as specified per Item Z06.		SF	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 03C - Complete Concrete Structures**

<i>BID SUMMARY:</i>		<u>Amounts</u>
1	Subtotal	
2	Sales Tax on Materials Incorporated into the Site and Buildings	
3	Bond Amount as Required by Bid Documents	
4	Out of Town Living Expenses for Labor Crews (IF APPLICABLE)	
<b>TOTAL PRICE (Lines 1 + 2 + 3 + 4)</b>		

<b>SECOND TIER SUBCONTRACTORS</b>			
How much of the above scope of work do you plan to subcontract?			
<u>Second Tier Subcontractor</u>	<u>Scope of Work</u>	<u>MWSBE (Y/N)</u>	<u>Amounts</u>
1.			
2.			
3.			
4.			
5.			
6.			
<b>TOTAL SECOND TIER SUBCONTRACTORS:</b>			

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 05A - Steel Structures

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DIVISION OF WORK: Bid Package Subcontractor is exclusively responsible for work described in the following:

#### I. SPECIFICATION SECTIONS:

- A. Applicable in total to the work of this Bid Package:
  - Division Zero - Bidding Requirements and Contract Forms
  - Division One - General Requirements
  - 05 12 00 - Structural Steel Framing
  - 05 31 00 - Steel Decking
- B. Applicable only as required by the work of this Bid Package:
  - 03 30 00 - Cast-In-Place Concrete
  - 14 21 00 - Electric Traction Elevators

#### II. WORK DESCRIPTION: Provide all labor, materials, supervision, equipment, insurance, overhead and profit, necessary or incidental, as required to complete the scope of work identified in the construction drawings and applicable specification sections referenced above. Performance of the work must include, but is not necessarily limited to the following:

##### General Considerations

- GC01 Holes, clips, etc., for connection by other trades to steel fabrications (e.g. wood blocking).
- GC02 Framing members which receive fireproofing are to be finished per the specifications. Note: exterior members will be galvanized at all locations.
- GC03 Touch-up painting of all primed steel and painted deck.
- GC04 Verification of welder's certifications.
- GC05 Furnish and erection is included for this scope of work.
- GC06 The cost for specific clean up related to this Bid Package is included in the base bid. .
- GC07 MINORITY/HUB PARTICIPATION  
The aggregate goal for this project is thirty percent (30%) participation by minority, women-owned and small business.
- GC08 Sequence of erection should be planned so the tower crane can reach the entire footprint of the building. Location of the crane per C 2.11 and Contractor's Staging and Logistics Plan; refer to Section IV.C. Subcontractor Document Exhibits of this manual.
- GC09 Temporary supports required to complete the erection of the structure.
- GC10 Subcontractor must be capable of providing coordination information in the format so designated in a timely manner (complete updates prior to each weekly coordination meeting) to allow manipulation during the meeting. Subcontractor may use their own forces or a consulting firm to complete this work.
- GC11 Not Used.
- GC12 Produce coordination drawings in Revit Autodesk 2014 and attend coordination meetings. Coordination drawings will include locating systems, elevations of equipment and required work clearances. This Subcontractor will review other trades shop drawings and coordination drawings to ensure there are no conflicts with their work.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 05A - Steel Structures

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GC13 Steel Subcontractor must be a competent representative on site full time during the erection of the steel.

#### A. Steel Structures

- A01 OSHA-Approved perimeter cable railing at each elevated slab that is constructed of structural steel. Removal Included.
- A02 Structural Steel Fabricator Qualifications: Structural steel must be fabricated in a plant certified by the AISC as qualified to fabricate Category II "Complex Steel Buildings", AND this structural steel fabricator must demonstrate a consistent record of at least ten (10) successful projects over the preceding five (5) years each of a magnitude equal or greater than the total structural steel scope of this project. When requested to do so, this steel fabricator must submit evidence to the Contractor within 48 hours verifying the above required qualifications.
- A03 Structural Steel Erector Qualifications: Structural steel must be erected by an erector who must demonstrate a consistent record of at least ten (10) successful projects over the preceding five (5) years each of equal or greater magnitude than the total erection scope of this project. When requested to do so, this steel erector must submit evidence to the Contractor within 48 hours verifying the above required qualifications. Erector must be AISC Certified.
- A04 Moment connections.
- A05 Shear studs.
- A06 Not used.
- A07 Miscellaneous connections and anchoring systems.
- A08 Anchor bolts nuts and washers for this scope of work. Cast in place concrete trade to install embedded anchor bolts and leveling nuts. This package to included surveying anchor bolts prior to erection starting to identify to Contractor any non-compliant work.
- A09 Provide elevator hoist beams and associated steel required for elevator guide rail system.
- A10 Includes but is not limited to all structural steel, metal floor decking, and bar joists including all miscellaneous items to install a complete system. Dovetail decking associated with load bearing metal stud system will be furnished and installed by others.
- A11 Metal deck to receive concrete topping is to have hanger tabs at 6" on center.
- A12 Furnish and install deformed anchor bars (DBA's)/nelson studs including welding of such.
- A13 Not used.
- A14 Not used.
- A15 Not used.
- A16 Weld masonry ties to structure if required.
- A17 Overhead door jamb channel steel. Furnish and unload on site.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

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- A18 Furnish and install overhead support steel for folding partitions.
- A19 All miscellaneous embed items furnish only to Concrete Subcontractor.
- A20 All miscellaneous metals even if not specifically listed above, including all perimeter steel for brick, cast stone and curtain wall.
- A21 Not used.
- A22 Shall provide signed and sealed engineered drawings for all engineered structural steel components.
- A23 Not used.
- A24 Not used.
- A25 Necessary items to complete installation including but not limited to temporary protection and temporary bracing.
- A26 Furnish loose lintels and furnish and install all required hung brick supports, brick relief angle, shelving angle, brick support angle, rolled brick support, continuous arch angle and all associated embeds in edge of slab.
- A27 Provide corrosive resistant primer on exterior members where galvanized is not specified.
- A28 Responsible for layout of all structural and miscellaneous steel components.
- A29 Acknowledges and shall adhere to all required special inspections.
- A30 Structural steel supports for rooftop equipment or roof and floor openings required by the project documents.
- A31 Concrete embeds for items associated with this bid package.

**B. General Scope Provisions**

- B01 Payment and Performance Bond is included for this scope of work.
- B02 Sales tax is to be included. Sales tax is to be reported with each pay application per the State General Condition guidelines.
- B03 In compliance with Contractor's safety procedures and policies (this includes but is not limited to Site Specific Safety Plans, daily reports, JHA's, and Non-Injury reports). This includes this Subcontractor shall submit to the Contractor it's written company safety program prior to commencing work and shall address site specific safety concerns within program. This also includes the Subcontractor agreeing that they have visited and reviewed the existing jobsite condition(s) and has accounted for all provisions necessary to perform its scope of work within its submitted bid/pricing.
- B04 The onsite project Superintendent for the erection and installation company will have full access to email and be trained and fully capable to use it and will have the capabilities and knowledge to access and review all submittal documentation and contract documents on a web based project site. (This includes having an IPAD.)
- B05 Not Used.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

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- B06 This Subcontractor is in compliance with project hours consisting of Monday through Friday 8:00AM to 5:00 PM with Saturday as a make-up day, or as needed to maintain the project schedule. Additional hours will not be granted in the event that additional hours are needed as a result of lack of manpower during normal hours.
- B07 This Subcontractor has included costs for a competent PM and superintendent to attend all weekly subcontractor meetings. This subcontractor can't remove the foreman or superintendent from the project and must keep them for the entire project duration unless the Contractor's superintendent directs so otherwise.
- B08 This Subcontractor has included costs to accommodate for materials/equipment deliveries to take place after hours if need be.
- B09 This Subcontractor has included mobilizations as needed by steel fabricator / erector.
- B10 All deliveries will be coordinated with the Project Superintendent and will take place as needed for materials and equipment.
- B11 This Subcontractor will submit all submittals electronically unless otherwise noted.
- B12 No compensation will be paid by Contractor to this Subcontractor for any extra work performed that is not verified and signed off by a Contractor's Project Superintendent or a qualified Contractor's representative designated by the Contractor's Project Superintendent.
- B13 This Subcontractor will be responsible for attending a Steel Erection Pre-Start Meeting.
- B14 This Subcontractor has included welding protection of all adjacent areas as required. This includes providing before and after photo documentation of existing areas being protected.
- B15 Subcontractor to protect work at the end of each workday. Subcontractor shall be responsible for sealing (fire caulking, etc.) their penetrations per all North Carolina State Building Code requirements and Underwriters Laboratories, Inc. (UL) approved assemblies as called out in the North Carolina State Building Code and as approved by the Contractor prior to commencing work. Each Subcontractor will submit to the Contractor copies of each UL assembly used. Each Subcontractor will submit to the Contractor copies of Product Data for all products used. The cost to repair damaged fireproofing or fire caulking, etc. will be charged to the Subcontractor who caused the damage.
- B16 In the event of any discrepancies and or errors that are found in the Contract Documents or Specifications, this Subcontractor shall be required to immediately notify the Contractor of the discrepancies before proceeding with the work, and shall be deemed responsible to have estimated the highest quality means and methods of performing the Work while maintaining progress schedule.
- B17 Upon the completion and prior to the acceptance of the Work, this Subcontractor shall, if applicable, subject all the installed systems to all the applicable test(s) as may be required by the Architect, Contractor, and State / Local Inspectors to demonstrate satisfactory function, compliance to code, and design efficiency. All instruments, facilities, and labor required to conduct these test(s) will be provided by this Subcontractor at no additional cost to the Contractor.
- B18 It shall be the responsibility of this Subcontractor to submit all required closeout information including As-Built drawings, warranties, operation / maintenance manuals, product data, and all other required information pertinent to the maintenance and operation of the building as it applies to the Work requirements of this Subcontract Agreement. It is further understood that no final payments shall be released by the Contractor, prior to the receipt of said required information.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

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- B19 This Subcontractor acknowledges that its Work must be coordinated with work of other trades and further agrees to coordinate its shop drawings, details, and submittals with those of the affected trades to ensure proper fit and coordination with such Work. It is the responsibility of this Subcontractor to ensure proper fit and coordination of its work with other trades.
- B20 Subcontractor is responsible for having an interpreter (or interpreters) on the work site at all times for non-English speaking employees to insure that all safety and work instructions can be communicated. The interpreter(s) must be fluent in English and the language of the non-English speaking employee(s).
- B21 Subcontractor shall provide all material and equipment (lulls, forklifts, etc.) staging pads necessary to facilitate scope of work. Sequencing of steel and steel staging areas for erection must be approved by the Contractor prior to start of work. Subcontractor to review and approve crane location as shown on C 2.11 and Contractor's Staging and Logistics Plan; refer to Section IV.C. Subcontractor Document Exhibits of this manual.
- B22 Owner Requested Changes; Should Owner or Architect request changes affecting the contract sum or contract completion time, a proposal request shall be issued through the Contractor to the affected Subcontractors. Unless otherwise noted, a period of one week will be allowed for a review and response to the request. Should a response not be received from Subcontractor in this time, it shall be assumed that any changes reflected in the request shall be performed at no additional cost.
- B23 It shall be the responsibility of the Subcontractor to certify that their employees, their Suppliers and Subcontractors operating equipment are qualified to operate said equipment in a professional manner so as not to endanger other people or property.
- B24 Contractor reserves the right to make joint check payments to Subcontractor and any or all of the Subcontractor's Tier Subcontractors or Suppliers.
- B25 Work being installed over the work of others, existing conditions, etc. must be reviewed and found to be acceptable or documented to and received by Contractor if not acceptable, prior to commencing work. Failure to comply with this provision will be construed as acceptance of substrate by Subcontractor.
- B26 This Subcontractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless this Subcontractor has specifically informed the Architect and Contractor in writing of such deviation at the time of submission and the Architect has given written approval to the specific deviation. Subcontractor shall not be relieved from responsibility for errors and omissions of details, dimensions or otherwise in the shop drawings, product data, samples or similar submittals by the Architect's approval thereof. The review of submittals will be general and shall not be construed as approval of departures from additional details or instruction previously provided by the Architect, Engineers or Contractor.
- B27 This Subcontractor shall be responsible for performing all necessary field measurements to ensure proper installation of this scope of work.
- B28 Any specific penalty of liquidated damage imposed on the Contractor by the Owner as a result of faulty, unacceptable, incomplete, untimely, or delayed work, or any other reasons, shall be imposed on the Subcontractor by the Contractor to the extent that the penalty or liquidated damage is a result of the Subcontractors performance
- B29 Subcontractor shall be responsible for obtaining their own set of Contract Documents (i.e. drawings, specifications, etc.) at their own expense. Contract documents will be available through Contractor's internet plan room, NextPlans at Sharpe Images. Up-to-date record drawings are to be maintained on site by each Subcontractor. The Contractor may request to review these drawings with Subcontractor at least on a monthly basis.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

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- B30 Each Subcontractor/Supplier/Vendor is responsible for obtaining all project documents and revised project documents through the duration of this project. The Contractor will be responsible for notifying this Subcontractor of any changes that will require Subcontractor to obtain revisions and confirm any scope changes. Subcontractor must order or view all required documents through Contractor's internet plan room, NextPlans at Sharpe Images, which will require setting up an account for this Subcontractor.
- B31 All Subcontractors are responsible for review/coordination of their work prior to installation. Coordination includes review of all drawing disciplines (Architectural, Structural, Mechanical, Electrical, Plumbing and Civil). Any conflicts between disciplines must be brought to the Contractors attention for proper consideration. Any change order requests for re-work due to non-coordination between disciplines will not be considered.
- B32 Subcontractor is responsible for advising in writing any changes to their work, which affects their contract amount and/or schedule and obtaining written approval from Contractor prior to proceeding with work, unless directed otherwise. Failure to adhere to the procedure for changes and field orders as detailed in Article 4 of this Subcontract may result in nonpayment for the work.
- B33 Subcontractor shall provide all provisions for Design Build systems to deliver a complete working system at no extra cost to Subcontract.
- B34 Subcontractors and vendors must prepare all submittals to the Contractor as required by and noted in the contract Documents. Submittals must begin within seven (7) calendar days after receipt of a Contract or Letter of Intent from the Contractor. Submittals must be completed in time to allow for a minimum of four (4) weeks for Contractor and Architect review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. Delays in shop drawing submittals, as well as continuous resubmittals, will constitute a tacit acceptance by the Subcontractor or vendor to perform, at no additional expense to the Owner, Architect or the Contractor any and all overtime work in the shop and/or field to make up for lost time in the construction schedule.
- B35 Subcontractors or Vendors with detailed shop drawings requiring more than two (2) shop drawings or requiring staggered submittals must meet with the Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by the Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- B36 BIM software will be utilized for coordination purposes and all Subcontractors shall participate in weekly meetings to coordinate applicable work. Subcontractor shall provide Revit files for this coordination if Subcontractor completed the initial BIM. If initial BIM was performed by the Contractor per Section 30.10 of the General Summary of Work, then the initial Revit files will be provided by the Contractor. Other formats will be reviewed for compatibility if Revit is unavailable.
- B37 Subcontractor is required to submit Daily Reports of Subcontractor's Work to Contractor on a daily basis. Failure to meet this requirement may delay Subcontractor's payment. Additional forms required to be used by the Subcontractor are Jobsite Safety Analysis Reports, Harness/Lanyard Forms, Lifting Cables Forms, Pre-Trench Checklists, Forklift Checklist, Non-Injury Reports, and any and all other reports as required.
- B38 The Subcontractor shall be responsible for the safe and suitable storage of his equipment and material onsite. Materials are to be stored or staged in a location acceptable to Contractor, and shall be relocated as necessary to facilitate the Work.
- B39 Subcontractor shall abide by, coordinate and correct any and all code compliance deficiencies, pertaining to local and state building inspections and officials, as well as third party Special Inspections, testing organization(s)



## SPECIFIC SUMMARY OF WORK

### Bid Package No. 05A - Steel Structures

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- B40 Subcontractor is responsible for its own layout from benchmarks provided by Site Subcontractor as described within General Provisions. Subcontractor is responsible for taking and verifying all field dimensions for areas affecting their work. Subcontractor shall verify the established control points and benchmarks and notify the Contractor of all discrepancies prior to the commencement of this scope of work. Subcontractor is to provide a complete As-Built of all anchor bolts and walls in advance of the trade connecting to these locations mobilizing.
- B41 Subcontractor is responsible for replacing any existing guardrail, safety rail, barricade, fencing, etc. If Subcontractor removes to perform work. Subcontractor is responsible for placing uprights and cable at all elevated slabs with openings 12" or greater.
- B42 Subcontractor who requires cutting and patching is responsible for all cutting and patching, including finishes. All cutting and patching must have the approval of the Contractor.
- B43 No cutting of floor slabs will be allowed. All major floor penetrations will be boxed out (formed); all minor floor penetrations may be sleeved or cored. The Contractor will provide control lines on each floor. Subcontractors will be responsible for locating and installing their own box-outs or sleeves. Box-outs/forms may be removable wood forms or cast-in-place metal. Sleeves may be removable cores or cast-in-place metal. All shall be set square, plumb, and true to finish floor level, stuffed or capped to be kept clean.
- B44 Unless noted otherwise, each Subcontractor will be responsible for furnishing and installing the blocking, backing and grounds necessary for the installation of their work. Each Subcontractor must make suitable preparations for the installation of their work, including all piping, conduit, hangers, inserts, anchors, grounds, and supports that are to be embedded in concrete, masonry, walls, floors, partitions or structural members, or that pass through or be attached thereto. Each Subcontractor must provide and install proper sleeves, boxes, receptacles or chases for all openings or recesses to receive his work occurring in or passing through any such members, all of which must be located accurately and secured firmly in place before any such masonry has been erected or concrete poured.
- B45 Any Subcontractor required to work on a finished roof area will be required to furnish adequate protection to avoid any damage to the finished roof area. Any damage that occurs as a failure to protect the roof area will be repaired by the Contractor. All costs incurred by the Contractor, will be paid by the Subcontractor responsible for failing to protect the finished roof area. Method of protection must be approved by the Contractor.
- B46 Each Subcontractor is responsible in preparing, executing and upon completion, submitting their punch list for use in creating punch list generated by the Contractor.

#### D. PROJECT MILESTONES AND DURATIONS

- D01 Subcontractor hereby agrees to assist in preparing Project Schedule utilizing a 14-week duration for procurement of steel to be on site from the time of award. Additional construction activities will be included within this Project Schedule so as to properly coordinate work within this Agreement with that of Work outside of this Agreement so as to assure completion of all Work within the overall Project Schedule. Upon creation of this Project Schedule, document will be incorporated into the Subcontract Agreement by Change Order. This Subcontractor is obligated to work with the engineer and Project Team and design/assist to meet the dates listed above. This Subcontractor shall meet all required submittal and shop drawing submissions to meet the installation dates and shall allow for a (2) week duration for approval from the engineer.
- D02 Subcontractor understands that multiple mobilizations maybe required as needed by the steel fabricator / erector to complete this scope of work and has allocated the means for an undetermined quantity at time of contract execution.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

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D03 The schedule will include one mobilization and due to all activities being installed at specific points in the schedule additional mobilizations are to be provided only as needed by the steel fabricator / erector. The Contractor's superintendent will coordinate in advance of the work area being ready to begin installation. Each detailed portion of work listed in the contract will be installed at a specific time.

**ALTERNATES**

The Form of Proposal contains a list of all Alternates for this project. If an Alternate does not affect the scope of this Bid Package it is to be marked as "No Change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will interpreted as no change to the "Base Bid Amount" on the Form of Proposal.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. The price breakdown is for information and evaluation purposes only. The **BID AMOUNT** quoted shall be the full compensation for each Bid Package as defined by the Scope of Work. Bid Amounts shall be broken down as identified below.

**ENTER COMPANY NAME HERE:**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>1</b>	<b><u>Staging and Logistics</u></b>			
1.01	Mobilization(s)			
1.02	Layout / Staking			
1.03	Engineering / Design Services			
1.04	Misc. Staging and Logistics Items			
<b>2</b>	<b><u>Structural Steel</u></b>			
2.01	Structural Steel Material - Building		TN	
2.02	Structural Steel Erection - Building		TN	
2.03	Shear Studs			
2.04	Perimeter, Stair and Slab Opening Safety Cabling			
2.05	Brick Relief Angles (Attached) - Material		LF	
2.06	Brick Relief Angles (Attached) - Labor	1	LS	
2.07	Cast Stone Support Angles - Material		LF	
2.08	Cast Stone Support Angles - Labor	1	LS	
2.09	Curtain Wall Supports - Material		LF	
2.10	Curtain Wall Supports - Labor	1	LS	
<b>3</b>	<b><u>Composite Metal Deck</u></b>			
<b>4</b>	<b><u>Metal Fabrications</u></b>			
4.01	Elevator Sill Angles		EA	
4.02	Elevator Separator and Hoist Beams		EA	
4.03	Misc. Metal Fabrications Items	1	LS	
4.04	Anchor Bolts and Leveling Nuts	1	LS	
4.05	Misc. Concrete Embeds	1	LS	
4.06	Loose Masonry Lintels		LF	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 05A - Steel Structures**

<i>BID SUMMARY:</i>		<u>Amounts</u>
1	Subtotal	
2	Sales Tax on Materials Incorporated into the Site and Buildings	
3	Bond Amount as Required by Bid Documents	
4	Out of Town Living Expenses for Labor Crews (IF APPLICABLE)	
<b>TOTAL PRICE (Lines 1 + 2 + 3 + 4)</b>		

<b>SECOND TIER SUBCONTRACTORS</b>			
How much of the above scope of work do you plan to subcontract?			
<u>Second Tier Subcontractor</u>	<u>Scope of Work</u>	<u>MWSBE (Y/N)</u>	<u>Amounts</u>
1.			
2.			
3.			
4.			
5.			
6.			
<b>TOTAL SECOND TIER SUBCONTRACTORS:</b>			

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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DIVISION OF WORK: Bid Package Subcontractor is exclusively responsible for work described in the following:

#### I. SPECIFICATION SECTIONS:

- A. Applicable in total to the work of this Bid Package:
  - Division Zero - Bidding Requirements and Contract Forms
  - Division One - General Requirements
  - 14 21 00 - Electric Traction Elevators
- B. Applicable only as required by the work of this Bid Package:
  - 05 12 00 - Structural Steel Framing

#### II. WORK DESCRIPTION: Provide all labor, materials, supervision, equipment, insurance, overhead and profit, necessary or incidental, as required to complete the scope of work identified in the construction drawings and applicable specification sections referenced above. Performance of the work must include, but is not necessarily limited to the following:

##### General Considerations

- GC01 Coordinate all conveying system items with Architect prior to installation and provide all necessary information to facilitate a proper functioning product.
- GC02 Coordinate all conveying system items with associated MEP trades prior to installation and provide all necessary information to facilitate a proper functioning product.
- GC03 The cost for specific clean up related to this Bid Package is included in the base bid.
- GC04 The aggregate goal for this project in thirty percent (30%) participation by minority, women-owned and small business. This applies to this Bid Package.

#### A. ELEVATORS

- A01 Provide labor, materials, equipment as necessary to furnish and install elevators including accessories, controls and auxiliary features including, all hoistway equipment, guide rails, buffers, sheaves, sill angles, counter weights, cables, door operation systems, electronic sensing devices, safety interlocks, emergency stop switches in elevator pits, automatic leveling for all elevator cabs, wire and cable systems, signal systems, car operating signage panels, call stations, hall lanterns, emergency and automatic fire operation, Fire Command Control Panels, and all other appurtenances necessary for a complete and fully operational elevator system in accordance with applicable Local, State and Seismic Codes and requirements.
- A02 Schedule Department of Labor inspections.
- A03 Temporary use of one (1) elevator as directed and scheduled by the Contractor. This must acquire all permits, inspections, and licenses necessary to operate temporary elevator. Include all maintenance, emergency service, and clean up required to provide elevator in like-new condition at completion of the project. Temporary elevator use is for a five (5) month duration.
- A04 Allow the Contractor to provide competent elevator operator during temporary use. The Subcontractor will not be responsible and will be held harmless for any accident injury, breakage or damage to the elevator or to the machinery, appliance, or connected property except those resulting from negligent acts or omissions in service, materials or equipment provided by the Subcontractor.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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- A05 Full warranty provisions and commencement at date of substantial completion must be maintained. Necessary provisions for maintenance and services during construction utilization are the responsibility of this Subcontractor. This is exclusive only of physical damage to the elevator cab or hoist way entries caused by construction activities. Protection of these will be the responsibility of others.
- A06 Protective measures necessary to maintain life safety at the hoistways and to prevent damage to elevator materials, equipment, and finishes.
- A07 Engineering services (by an engineer registered in the project state) related to installation of any of the work of this Bid Package that is necessary to satisfy the requirements of the specifications, testing agencies, and prevailing jurisdictional authorities.
- A08 Refer to specification sections regarding general maintenance. The Elevator Subcontractor is to provide all technical specifications, drawings/diagrams, access codes and any other applicable requirements to the Owner at the time of substantial completion of the project that are necessary to the performance of all service and maintenance other than that which can be performed only by the manufacturer due to proprietary restrictions. Identify as an attachment to the bid proposal form on the Subcontractor's letterhead what these entail.
- A09 Elevators are to be complete with cab enclosure (walls, floors, and ceilings) as specified. Provide all items indicated, described or reasonably implied by the bid documents and necessary to make elevator systems 100% operable and functional. Set of protection blankets to be furnished for each cab as part of the base bid.
- A10 Furnish and install sill angles (including grouting) if required by the elevator system.
- A11 Machine beams and hoist beams as required and only if unique to elevator system; the Steel Subcontractor provides all machine and hoist beams shown on the structural drawings only (additional beams are a part of this Bid Package).
- A12 Support framing for guide rails beyond that which is provided as part of the building structure.
- A13 Not Used
- A14 Furnish embeds and inserts required for anchors and supports necessary to the elevator work. Furnish Only. Installation by others. 14A to provide lay-out information and locate.
- A15 Not used.
- A16 Grouting (watertight) of cylinder casings to elevator pit concrete bottoms.
- A17 Accommodation within the elevator cabs to receive flooring finishes equal to those applied to the adjacent elevator lobbies.
- A18 Supports including housekeeping pads necessary to mounting of equipment and machinery for elevator operation.
- A19 Review and acceptance of the design and construction of the following as adequate for proper installation of work: elevator pits, elevator hoistways, elevator machine and/or equipment rooms, fire sprinkler, HVAC provisions, electrical provisions.

Note: This applies to sizing, materials, environmental atmosphere, and any other considerations as appropriate.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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- A20 Costs to modify the elevator design and installation resulting from the Subcontractor's failure to perform these coordinating responsibilities will be borne by this Subcontractor.
- A21 Grouting of hoistway doorjamb.
- A22 Coordination with other trades and the Owner's operational considerations regarding the following: Intercom system, Fire alarm system, Emergency call system, Miscellaneous requirements of the specifications.
- A23 To facilitate Owner occupancy of early turnover areas, some elevators may be required to be in service prior to the completion of the entire project. Included are any provisions necessary for public use of elevators in the early turnover areas. This includes programming as necessary to restrict use of some elevators to certain floors.
- A24 Patch penetrations in walls and floors made by the work of this bid package.
- A25 Furnish and install all wiring in the elevator traveling cable for hook-up of in-cab phone and also for communication system speakers. Subcontractor shall provide a telephone box and jack in the elevator cab. The telephones shall be provided and installed by this Subcontractor.
- A26 Furnish and install the exterior finishes including, but not limited to, the following: exterior cab mounted hall lanterns, car doors, sills and entrance columns including hangers, operators, and interlocks, front returns; fascia and trim, door panels and everything to finish the exteriors of the elevators.
- A27 Furnish and install protective pads for the interior of all cabs which will remain installed throughout the duration of construction.
- A28 Provide protection of the hoistway jamps and entrances.
- A29 Provide temporary barricades and housekeeping pads as required for this scope of work.

#### **B. GENERAL SCOPE PROVISIONS**

- B01 Payment and Performance Bond as required in the Instructions to Bidders is to be included for this scope of work.
- B02 Sales tax is included in the base bid, to be reported each month per State Construction guidelines with pay applications.
- B03 In compliance with Contractor's safety procedures and policies (this includes but is not limited to Site Specific Safety Plans, daily reports, JHA's, and Non-Injury reports). This Subcontractor shall submit to Contractor its written company safety program prior to commencing work and shall address site specific safety concerns within program. This also includes the Subcontractor agreeing that they have visited and reviewed the existing jobsite condition(s) and has accounted for all provisions necessary to perform its scope of work within its submitted bid/pricing.
- B04 An onsite project Superintendent is included. The Superintendent shall remain on site while any work is being performed and attend meetings while work is being performed.
- B05 The onsite project Superintendent will have full access to email and be trained and fully capable to use it and will have the capabilities and knowledge to access and review all submittal documentation and contract documents on a web based project site (this includes having an IPAD).
- B06 Not Used.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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- B07 This Subcontractor is in compliance with project hours consisting of Monday through Friday 8:00AM to 5:00PM with Saturday as a make-up day, or as needed to maintain the project schedule. Additional hours will not be granted in the event that additional hours are needed as a result of lack of manpower during normal hours.
- B08 This Subcontractor has included costs for a competent PM and superintendent to attend all weekly subcontractor meetings. This Subcontractor can't remove the foreman or superintendent from the project and must keep them for the entire project duration unless the Contractor's superintendent directs so otherwise.
- B09 This Subcontractor has included costs to accommodate for materials/equipment deliveries to take place after hours if need be. 14A Subcontractor to coordinate deliveries with the project schedule. If the schedule changes this trade contractor must modify delivery dates and coordinate with Contractor's project team. If elevator material is to be stored on site prior to installation, this trade contractor is required to unload it, protect it (if stored inside or outside). Contractor will not sign any acceptance paperwork.
- B10 This Subcontractor has included multiple mobilizations if required for this scope of work.
- B11 This Subcontractor will submit all submittals electronically unless otherwise noted.
- B12 No compensation will be paid by Contractor to this Subcontractor for any extra work performed that is not verified and signed off by Contractor's Superintendent or a qualified Contractor representative designated by Contractor's Project Superintendent.
- B13 Subcontractor to protect work at the end of each workday. This includes any and all weather protection from rain, cold or heat as well as barricades to prevent others from entering area.
- B14 This Subcontractor will be responsible for Setting up, providing an agenda as well as having all applicable parties on hand for an Elevator Pre-Start Meeting.
- B15 In the event of any discrepancies and or errors that are found in the Contract Documents or Specifications, this Subcontractor shall be required to immediately notify the Contractor of the discrepancies before proceeding with the work, and shall be deemed responsible to have estimated the highest quality means and methods of performing the Work while maintaining progress schedule.
- B16 Upon the completion and prior to the acceptance of the Work, this Subcontractor shall, if applicable, subject all the installed systems to all the applicable test(s) as may be required by the Architect, Contactor, and State / Local Inspectors to demonstrate satisfactory function, compliance to code, and design efficiency. All instruments, facilities, and labor required to conduct these test(s) will be provided by this Subcontractor at no additional cost to the Contractor.
- B17 It shall be the responsibility of this Subcontractor to submit all required closeout information including As-Built drawings, warranties, operation / maintenance manuals, product data, and all other required information pertinent to the maintenance and operation of the building as it applies to the Work requirements of this Subcontract Agreement. It is further understood that no final payments shall be released by the Contractor, prior to the receipt of said required information. As-Builts to be provided electronically in Auto Cad 2014 and submitted monthly with pay application.
- B18 This Subcontractor acknowledges that its Work must be coordinated with work of other trades and further agrees to coordinate its shop drawings, details, and submittals with those of the affected trades to ensure proper fit and coordination with such Work. It is the responsibility of this Subcontractor to ensure proper fit and coordination of its work with other trades.



## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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- B19 Subcontractor is responsible for having an interpreter (or interpreters) on the work site at all times for non-English speaking employees to insure that all safety and work instructions can be communicated. The interpreter(s) must be fluent in English and the language of the non-English speaking employee(s).
- B20 Subcontractor shall provide all material and equipment (lulls, forklifts, cranes, etc.) staging pads necessary to facilitate scope of work.
- B21 Owner Requested Changes; Should Owner or Architect request changes affecting the contract sum or contract completion time, a proposal request shall be issued through Contractor to the affected Subcontractors. Unless otherwise noted, a period of one week will be allowed for a review and response to the request. Should a response not be received from Subcontractor in this time, it shall be assumed that any changes reflected in the request shall be performed at no additional cost.
- B22 It shall be the responsibility of the Subcontractor to certify that their employees, their Suppliers and Subcontractors operating equipment are qualified to operate said equipment in a professional manner so as not to endanger other people or property.
- B23 Contractor reserves the right to make joint check payments to Subcontractor and any or all of the Subcontractor's Tier Subcontractors or Suppliers.
- B24 Work being installed over the work of others, existing conditions, etc. must be reviewed and found to be acceptable or documented to and received by Contractor if not acceptable, prior to commencing work. Failure to comply with this provision will be construed as acceptance of substrate by Subcontractor.
- B25 This Subcontractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless this Subcontractor has specifically informed the Architect and Contractor in writing of such deviation at the time of submission and the Architect has given written approval to the specific deviation. Subcontractor shall not be relieved from responsibility for errors and omissions of details, dimensions or otherwise in the shop drawings, product data, samples or similar submittals by the Architect's approval thereof. The review of submittals will be general and shall not be construed as approval of departures from additional details or instruction previously provided by the Architect, Engineers or Contractor.
- B26 This Subcontractor shall be responsible for performing all necessary field measurements to ensure proper installation of this scope of work.
- B27 Any specific penalty of liquidated damage imposed on the Contractor by the Owner as a result of faulty, unacceptable, incomplete, untimely, or delayed work, or any other reasons, shall be imposed on the Subcontractor by the Contractor to the extent that the penalty or liquidated damage is a result of the Subcontractors performance.
- B28 Subcontractor shall be responsible for obtaining their own set of Contract Documents (i.e. drawings, specifications, etc.) at their own expense. Contract documents will be available at the Sharpe Images online plan room. Up-to-date record drawings are to be maintained on site by each Subcontractor. Contractor may request to review these drawings with Subcontractor at least on a monthly basis.
- B29 Each Subcontractor/Supplier/Vendor is responsible for obtaining all project documents and revised project documents through the duration of this project. Contractor will be responsible for notifying this Subcontractor of any changes that will require Subcontractor to obtain revisions and confirm any scope changes. Subcontractor must order or view all required documents through Contractor's internet plan room, NextPlans at Sharpe Images, which will require setting up an account for this Subcontractor.

## SPECIFIC SUMMARY OF WORK

### Bid Package No. 14A - Elevators

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- B30 All Subcontractors are responsible for review/coordination of their work prior to installation. Coordination includes review of all drawing disciplines (Architectural, Structural, Mechanical, Electrical, Plumbing and Civil). Any conflicts between disciplines must be brought to Contractor's attention for proper consideration. Any change order requests for re-work due to non-coordination between disciplines will not be considered.
- B31 Subcontractor is responsible for advising in writing any changes to their work, which affects their contract amount and/or schedule and obtaining written approval from Contractor prior to proceeding with work, unless directed otherwise. Failure to adhere to the procedure for changes and field orders as detailed in Article 4 of this Subcontract may result in nonpayment for the work.
- B32 Subcontractors and vendors must prepare all submittals to Contractor as required by and noted in the contract Documents. Submittals must begin within seven (7) calendar days after receipt of a Contract or Letter of Intent from Contractor. Submittals must be completed in time to allow for a minimum of four (4) weeks for Contractor and Architect review and return to the Subcontractor or Vendor without affecting the construction schedule for the project. Delays in shop drawing submittals, as well as continuous resubmittals, will constitute a tacit acceptance by the Subcontractor or vendor to perform, at no additional expense to the Owner, Architect or Contractor any and all overtime work in the shop and/or field to make up for lost time in the construction schedule.
- B33 Subcontractors or Vendors with detailed shop drawings requiring more than two (2) shop drawings or requiring staggered submittals must meet with Contractor's Project Manager and submit a written schedule, the sequence of drawing preparation, and a plan showing the sequence of installation. Acceptance of the above three (3) items by Contractor and Subcontractor or Vendor must be obtained prior to the beginning of shop drawings or any fabrications.
- B34 BIM software will be utilized for coordination purposes and all Subcontractors shall participate in weekly meetings to coordinate applicable work. Subcontractor shall provide Revit files for this coordination if Subcontractor completed the initial BIM. If initial BIM was performed by the Contractor per Section 30.10 of the General Summary of Work, then the initial Revit files will be provided by the Contractor. Other formats will be reviewed for compatibility if Revit is unavailable.
- B35 Subcontractor is required to submit Daily Reports of Subcontractor's Work to Contractor on a daily basis. Failure to meet this requirement may delay Subcontractor's payment. Additional forms required to be used by the Subcontractor are Jobsite Safety Analysis Reports, Harness/Lanyard Forms, Lifting Cables Forms, Pre-Trench Checklists, Forklift Checklist, Non-Injury Reports, and any and all other reports as required.
- B36 The Subcontractor shall be responsible for the safe and suitable storage of his equipment and material on site. Materials are to be stored or staged in a location acceptable to Contractor, and shall be relocated as necessary to facilitate the Work.
- B37 Subcontractor shall abide by, coordinate and correct any and all code compliance deficiencies, pertaining to local and state building inspections and officials, as well as third party Special Inspections, testing organization(s).
- B38 Subcontractor is responsible for its own layout from benchmarks provided by Site Subcontractor as described within General Provisions. Subcontractor is responsible for taking and verifying all field dimensions for areas affecting their work. Subcontractor shall verify the established control points and benchmarks and notify the Contractor of all discrepancies prior to the commencement of this scope of work. Subcontractor is to provide a complete As-Built of all anchor bolts and walls in advance of the trade connecting to these locations mobilizing.
- B39 Subcontractor is responsible for replacing any existing guardrail, safety rail, barricade, fencing, etc. if Subcontractor removes to perform Work.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 14A - Elevators**

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- B40 Subcontractor who requires cutting and patching is responsible for all cutting and patching, including finishes. All cutting and patching must have the approval of Contractor.
- B41 No cutting of floor slabs will be allowed. All major floor penetrations will be boxed out (formed); all minor floor penetrations may be sleeved or cored. The Contractor will provide control lines on each floor. Subcontractors will be responsible for locating and installing their own box-outs or sleeves. Box-outs/forms may be removable wood forms or cast-in-place metal. Sleeves may be removable cores or cast-in-place metal. All shall be set square, plumb, and true to finish floor level, stuffed or capped to be kept clean.
- B42 Unless noted otherwise, each Subcontractor will be responsible for furnishing and installing the blocking, backing and grounds necessary for the installation of their work. Each Subcontractor must make suitable preparations for the installation of their work, including all piping, conduit, hangers, inserts, anchors, grounds, and supports that are to be embedded in concrete, masonry, walls, floors, partitions or structural members, or that pass through or be attached thereto. Each Subcontractor must provide and install proper sleeves, boxes, receptacles or chases for all openings or recesses to receive his work occurring in or passing through any such members, all of which must be located accurately and secured firmly in place before any such masonry has been erected or concrete poured.
- B43 Any Subcontractor required to work on a finished roof area will be required to furnish adequate protection to avoid any damage to the finished roof area. Any damage that occurs as a failure to protect the roof area will be repaired by Contractor . All costs incurred by Contractor, will be paid by the Subcontractor responsible for failing to protect the finished roof area. Method of protection must be approved by Contractor.
- B44 Each Subcontractor is responsible in preparing, executing and upon completion, submitting their punch list for use in creating punch list generated by Contractor.

**ALTERNATES**

The Form of Proposal contains a list of all Alternates for this project. If an Alternate does not affect the scope of this Bid Package it is to be marked as "No Change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will interpreted as no change to the "Base Bid Amount" on the Form of Proposal.

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 14A - Elevators**

Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. The price breakdown is for information and evaluation purposes only. The BID AMOUNT quoted shall be the full compensation for each Bid Package as defined by the Scope of Work. Bid Amounts shall be broken down as identified below.

**ENTER COMPANY NAME HERE:**

<u>Item No.</u>	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amounts</u>
<b>1</b>	<b><u>Staging and Logistics</u></b>			
1.01	Engineering / Design Services	1	LS	
<b>2</b>	<b><u>Elevators</u></b>			
2.01	Passenger Elevator No. 1 - Complete with Cab Finishes		EA	
2.02	Passenger Elevator No. 2 - Complete with Cab Finishes		EA	
2.03	Passenger Elevator No. 3 - Complete with Cab Finishes		EA	
<b>3</b>	<b><u>Elevator Operator</u></b>			
3.01	(5) Months Temp Use (6) Stop Elevator #2 (Central)	1	LS	

**SPECIFIC SUMMARY OF WORK**  
**Bid Package No. 14A - Elevators**

<i>BID SUMMARY:</i>		<u>Amounts</u>
1	Subtotal	
2	Sales Tax on Materials Incorporated into the Site and Buildings	
3	Bond Amount as Required by Bid Documents	
4	Out of Town Living Expenses for Labor Crews (IF APPLICABLE)	
<b>TOTAL PRICE (Lines 1 + 2 + 3 + 4)</b>		

<b>SECOND TIER SUBCONTRACTORS</b>			
How much of the above scope of work do you plan to subcontract?			
<u>Second Tier Subcontractor</u>	<u>Scope of Work</u>	<u>MWSBE (Y/N)</u>	<u>Amounts</u>
1.			
2.			
3.			
4.			
5.			
6.			
<b>TOTAL SECOND TIER SUBCONTRACTORS:</b>			

# BID PROPOSAL CHECKLIST

*At Subcontractor's Option, This Checklist May be Attached to the Bid Envelope*

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**Project Name:**                     UNC Charlotte  
                    UNC Charlotte Residence Hall Phase XIV                          **Your Company Name:** \_\_\_\_\_

**Bid Package Number:** \_\_\_\_\_      **Your Company Address:** \_\_\_\_\_

**Bid Package Description:** \_\_\_\_\_      **Your Company License Number:** \_\_\_\_\_

## ATTENTION

**This Bid Package Must Contain the Following Forms and Information Or It Will Not Be Read And Will Be Rejected**

- The "Form of Proposal" is included
- 5% Certified Check or 5% Bid Bond of the Maximum Potential Amount of the Proposal is included
- State Form "Identification of Minority Business Participation" is included
  - AFFIDAVIT A - "Listing of the Good Faith Effort" is included

**OR**

- AFFIDAVIT B - "Intent to Perform Contract with Own Workforce" is included
- Have you acknowledged all addenda
- Original Corporate Seal on Form of Proposal

**NOTE: No written clarifications/qualifications can or will be accepted and will result in rejection of the bid.**

**FORM OF PROPOSAL**

BIDDER'S NAME: \_\_\_\_\_

BIDDER'S ADDRESS, CITY, STATE, ZIP: \_\_\_\_\_

BIDDER'S PHONE AND FAX NUMBER: \_\_\_\_\_

CONTACT NAME AND EMAIL ADDRESS: \_\_\_\_\_

LICENSE NO.: \_\_\_\_\_

Project Name:                   UNC Charlotte  
  UNC Charlotte Residence Hall Phase XIV

Project Location:             Charlotte, NC

Construction Manager:     Rodgers Builders, Inc.

Bid Date:                        Wednesday February 11, 2015 2:00 PM

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals are named herein, and that no other person has any interest in this Form of Proposal or in the contract to be entered into; that this Proposal is made without connection with any other person, company, or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done, that he has examined all bid documents and has read all special provisions furnished prior to the opening of Bids; and he has satisfied himself relative to the work to be performed. The Bidder proposes and agrees if this Proposal is accepted to contract with Rodgers Builders, Inc., in the form of contract specified, to furnish all necessary materials, equipment, machinery tools, apparatus, means of transportation and labor necessary to complete the work as outlined in the Bid Documents, to the full and entire satisfaction of the Owner and/or Architect-Engineer.

Base Bid Amount - Package No. _____ - _____	
(Number)	(Description)
Enter Base Bid Amount in Words Here	
<b>Dollars</b>	<b>(\$ _____ )</b>

**FORM OF PROPOSAL**

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**ALTERNATES**

The undersigned further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a signed Subcontract, the Bidder will adjust their Contract by the amount indicated opposite the Alternate listed. The Bidder acknowledges that they have reviewed the requirements for each Alternate as it affects their Scope of Work and that the quoted amount represents the total amount to either delete or add, as indicated, all work relative to each Alternate.

If the noted Alternate does not affect the scope of this Bid Package it is to be marked as "no change" in the "AMOUNT" column. Amounts left blank or containing anything other than a numerical value will be interpreted as no change to the "Base Bid Amount" above.

<u>Alt No.</u>	<u>Description</u>	<u>Add</u>	<u>Deduct</u>	<u>Amount</u>
ALT-01	Furnish and install slab on grade (just concrete) per note 12 on S101-S.	<input type="checkbox"/>	<input type="checkbox"/>	
ALT-14	Furnish and install the Bike Shelter and Archway Bench Foundations per S103, S201-S, and details 8 & 10/S305.	<input type="checkbox"/>	<input type="checkbox"/>	
ALT-18	Elevator #1 (North) and Elevator #2 (Central) to have a 4,000 lb. service style cab at 200 fpm.	<input type="checkbox"/>	<input type="checkbox"/>	
ALT-19	Elevator #3 (South) to be a machine room-less (MRL) hydraulic elevator with hydraulic fluid that is vegetable-base, non-petroleum. Size, capacity, speed, finishes, operating systems, security features, hoistway entrance, car enclosure, signal equipment, etc. to be similar to base bid.	<input type="checkbox"/>	<input type="checkbox"/>	



**FORM OF PROPOSAL**

**UNIT PRICES**

The undersigned further agrees that if any or all of the unit prices listed and described below are found to be applicable to changes in the Scope of Work of this Bid Package throughout the duration of the work of this Bid Package, the Bidder will adjust their contract by the amount indicated for the unit price listed, multiplied by the additive or deductive quantity of work required. The Bidder acknowledges that they have reviewed the requirements for each unit price as it affects their Scope of Work and that the quoted amount represents the total amount to either delete or add, as indicated, all work relative to each unit price.

<u>Bid Package</u>	<u>Unit Price No.</u>	<u>Description</u>	<u>Amount</u>	<u>Unit of Measure</u>
02A	UP-01	Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.		Cubic Yard
02A	UP-02	Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.		Cubic Yard
02A	UP-03	Trench rock excavation and replacement with satisfactory soil material.		Cubic Yard
02A	UP-04	Mass rock excavation and replacement with satisfactory soil material.		Cubic Yard
02A	UP-05	Removal of Contaminated Material.		Linear FT
02A	UP-07	Lean Concrete.		Cubic Yard
02H	UP-01	Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.		Cubic Yard
02H	UP-02	Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.		Cubic Yard
02H	UP-03	Trench rock excavation and replacement with satisfactory soil material.		Cubic Yard
02H	UP-04	Mass rock excavation and replacement with satisfactory soil material.		Cubic Yard
02H	UP-07	Lean Concrete.		Cubic Yard
03C	UP-01	Removal of unsatisfactory soil above subgrade elevations and replacement with satisfactory soil material.		Cubic Yard
03C	UP-02	Removal of unsatisfactory soil below subgrade elevations an replacement with satisfactory soil material.		Cubic Yard
03C	UP-03	Trench rock excavation and replacement with satisfactory soil material.		Cubic Yard
03C	UP-04	Mass rock excavation and replacement with satisfactory soil material.		Cubic Yard
03C	UP-06	Waterproofing at Sanford Hall		Sq. Feet
03C	UP-07	Lean Concrete.		Cubic Yard

## FORM OF PROPOSAL

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NOTE: The Owner and the Contractor reserve the right to request further clarification or information as required to enable complete and fair comparison of all Bids.

The undersigned further agrees that this proposal will be valid for a period of sixty (60) days from the date of receipt of bids, and that if this proposal is accepted by the Contractor and the Owner within this period, the Bidder will execute the Contract form and provide surety bonds as described in the bid documents.

The undersigned hereby certifies that he will comply with the provision of the Owner's and the Contractor's Drug Free Work Place Policy.

The undersigned hereby certifies that he / she will comply with the requirements of all bid documents that were made available to the undersigned via the internet plan room or any other media. The Contractor does not accept responsibility for the undersigned's failure to review all bid documents made available.

The undersigned, as Bidder, acknowledges that he has received and reviewed the below enumerated addenda and has taken them into account in the preparation of this proposal.

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

**IMPORTANT NOTE: Each Bid Package is required to provide a price breakdown of their lump sum bid within twenty-four (24) hours of the bid time. This price breakdown is CRITICAL for the proper evaluation of ALL lump sum quotes; therefore, all quotes will be considered incomplete until this information is received. The breakdown forms can be viewed at the end of each specific scope of work. This price breakdown is for information and evaluation purposes only. The BID AMOUNT quoted shall be the full compensation for each Bid Package as defined by the Scope of Work.**

**FORM OF PROPOSAL**

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Name: \_\_\_\_\_  
(Firm or Corporation Making Bid)

By: \_\_\_\_\_

Title: \_\_\_\_\_  
(Owner, Partner, or Corp. President, Vice Presidents Only)

WITNESS:

\_\_\_\_\_  
Proprietorship or Partnership

ATTEST

By: \_\_\_\_\_

Title: \_\_\_\_\_  
(Corp. Secretary or Assist. Secretary Only)

**(CORPORATE SEAL)**

After Hours Contact:

Name: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

This is to allow notification to attend the Bid Proposal Interview as designated in the Instructions to Bidders.