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ASE

Bid Package Breakdown

SUPPLEMENTAL INFORMATION

For Specialty Contractor

BP #: 26

Date: March 30, 2015

BP Name: Structured Cabling Infrastructure

Bid Package Description: Furnish and install Structured Cabling Infrastructure

Bid Package Value: \$

Specific Requirements and Scope:

This scope includes the specialized trade of Furnishing and Installation of the Structured Cabling infrastructure. The firms bidding this work as a Prime will be a Highly Specialized Contractor with the necessary experience to provide this type work.

Specific Skills Required:

Bidder must have sufficient experience in this type of work as proven in comparable projects. Bidder must be familiar with fast track performance of project and understand that the design is ongoing. Bidder must have the financial capability to have the funds available to handle the project due to the fast track nature.

Risks Associated with this Package:

Work must be completed within the time frames established so as to not hold up the other trades.

Firms must have a good safety record.

Experience and Licenses Required:

Subcontractor must have 5 years of experience with successful fabrication/installation of projects of similar scale and complexity with a successful performance.

Schedule/Performance and Manpower Requirements:

Contractor must have the manpower capability to adhere to the fast track schedule while maintaining high quality work.

Subcontractor must have the manpower available to perform this work in the time frame allotted in this fast pace project.

Insurance Required:

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Subcontractor must be able to be enrolled in an OCIP program or be able to provide insurance limits of the project.

General Liability insurance will be required. (\$5M per occurrence)

Bonding required:

A 100% Payment and Performance Bond will be required (from an A rated size VIII or better).

Contracting Required:

Bidder must be able to execute the Hunt Subcontractor Agreement.

Bidder must have home office support that can maintain reporting requirements of the Construction Manager (SBD, CWP, Safety)

Bidder must have a clean record with regards to legal claims.

Programs Required:

SBD (CSBE) and CWP

The Stadium aspires to have at least 70% of the project's workers be residents of Miami-Dade County, 20% of which are from the County's Community Development Block Grant (CDBG) eligible areas.

The Stadium also aspires to hire a minimum of 10% of the project's workers from Miami -- Gardens. Labor residing in zip codes 33056, 33055, 33054, 33169 and 33014 should be given first preference for hire.

The project also aspires to utilize as many local firms as reasonably practical and aspires to have at least 35% of the firms hired as subcontractors be firms located within Miami-Dade County.

Hunt Construction Group, Inc

Job No. - 00103900
Subcontract No. -- 00103900-036
Business Partner -- ASETTE1

ATTACHMENT II

SUBCONTRACTOR'S SCOPE OF WORK

A. General Description of the Scope of Work:

Subcontractor shall perform the Subcontract Work generally described below (and as further described in the Contract Documents) to provide the following:

BP # 26 Communications (IT) Infrastructure:

The intent of this Attachment II is to describe and clarify the Work required under this Agreement. It is the responsibility of this Subcontractor to provide the Communications (IT) Infrastructure Work associated with the Miami Dolphins Stadium Renovations project in accordance with the Contract Documents and as described below.

B. Payment and Performance Bonds:

Bonds will be required: Yes No

Bonds will be furnished in accordance with the provisions of Attachment VI.

C. Specific Requirements:

1. Subcontractor shall provide (furnish and install) all Work described by the following specification sections necessary for the proper completion of this Scope of Work as further clarified by this Attachment II:

- Division 00 – All Sections
- Division 01 – All Sections
- Division 27 –
 - 27 05 00 COMMON WORK RESULTS FOR COMMUNICATIONS
 - 27 05 26 TELECOMMUNICATIONS GROUNDING AND BONDING
 - 27 05 33 COMMUNICATIONS RACEWAYS AND BOXES
 - 27 11 00 COMMUNICATIONS EQUIPMENT ROOM FITTINGS
 - 27 13 13 COMMUNICATIONS COPPER BACKBONE CABLING
 - 27 13 23 COMMUNICATIONS OPTICAL FIBER BACKBONE
 - 27 15 01 HORIZONTAL CABLING

2. Design Intent

1. It is the intent of the Scope of Work to convey to this Subcontractor the total responsibility for the Work. This Subcontractor understands that due to the "Fast Track" nature of this project, Construction Documents may not be 100 percent complete and will develop as the project progresses. However, the Subcontractor shall perform all work required or reasonably inferred under the best practices in the Construction Industry for a complete and fully functional and operational system(s) for the purpose intended.
2. This project will require the Subcontractor to work as a team member with the Construction Manager and other members of the project team through the completion of construction to assure that all work required by this Scope will be performed in such a manner that it is complete, fully functional, and in accordance with the contract documents within the contract price.
3. References to the term "Contractor" in the Drawings and Specifications shall be interpreted to mean work by this Subcontractor as they relate to this scope of work.

3. General Communications Infrastructure Scope

1. The Scope includes providing general items and services typical to the MEP / IT divisions. (The intent of listing scope items and services is for ease of general scope identification and is not intended to be a complete listing of all items and services that may be required to complete the scope of work as required by the Contract Documents)
 - a) Provide designated/required personnel to participate in weekly and/ or as necessary MEP / IT Coordination Meetings hosted by the Construction Manager.
 - b) Provide, as required and/or requested by Construction Manager, and /or Building Officials, and / or Owner's Commissioning Agent, personnel to assist the start-up of mechanical systems and the check out of all building controls, life safety systems, and building commissioning using the completed "Commissioning Matrix" resulting from the MEP coordination meetings. This will include any "overtime" required and/or requested and any associated premium costs. Coordinate this work with the Life Safety Systems Contractors and the HVAC Control Systems Contractor as required.
 - c) Provide, as required and/or requested by Construction Manager "stand-by" personnel for games and events (Maximum 5 Games / Events with 6 people).
 - d) Furnish and install all required block-outs, sleeves, inserts, anchors and openings. Coordinate with all other trades, structural documents and applicable standards prior to installation.
 - e) Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
 - f) Coordinate and mark-up all openings required in masonry walls.
 - g) Provide any required core drilling /saw cutting including engineering costs associated with omitted or mislocated block-outs, sleeves and openings. Coordinate with all other trades and structural documents prior to installation.

- h) Provide shop drawings for all block-outs, sleeves, inserts and openings in structural systems not reflected or referenced on structural documents prior to installation.
- i) Provide any required metal deck openings for roof mounted equipment, ductwork and piping. Coordinate with all other trades, structural documents and Hunt prior to installation.
- j) Provide UL rated fireproofing assemblies for all penetrations associated with this scope of work. Provide complete submittal of all anticipated applications prior to start of work.
- k) Provide coordination and physical layout for all required concrete housekeeping pads, bases and curbs.
- l) Provide and install all hangers, supports, clamps, rods, inserts, imbeds, slides, anchors, braces, platforms and clip angles for ductwork, piping, and equipment.
- m) All hangers, supports, clamps, rods, braces, platforms and clip angles must be of a noncorrosive material and be compatible with the South Florida environment.
- n) Coordinate the hanging of cabling and equipment with subroof contractor and other trades for a combined support system. No equipment or cabling will be installed between precast and subroof.
- o) Provide and coordinate (lay-out) installation of all access doors required by code, specifications or as reflected on the contract documents. Provide and coordinate (lay-out) as necessary for proper and reasonable access to equipment, piping, valves, etc.. Access doors will match associated finishes and fire ratings. Access doors will be minimized by combined usage with associated contractors determining cost allocation.
- p) Provide protection at all times of finished and/or exposed equipment, light fixtures, conduit, devices, etc. Provide replacement and/or repair of damaged and/or defective work at no cost to Construction Manager. Construction Manager will not be responsible for pursuing compensation from other trades for damaged and/or defective work.
- q) Review, understand and coordinate the "Sequence of Operations" as it relates to all Life Safety Systems and provide necessary components and / or options for a fully functional system as required by the Contract Documents and / or the Fire Marshall and / or the Building Officials.

4. Specific Communications (IT) Infrastructure Scope

- 1. The Scope includes furnishing and installing the following items. (The intent of listing scope items is for ease of major scope identification and is not intended to be a complete listing of all items that may be required to complete the scope of work as required by the Contract Documents)
 - a) Furnish and install all Communications Optical Fiber Backbone Cabling as indicated in Division 27 Specifications and the Exhibit "A" Spreadsheet dated 3-2-15.
 - b) Furnish and install all Communications Horizontal Cabling to all Tele/Data drops as indicated in Division 27 Specifications and the Exhibit "A" Spreadsheet dated 3-2-15.

- c) Coordinate installation with all Cabletray as identified in the Technology "ET" Drawings.
- d) Coordinate installation with all associated conduit and raceway systems as identified in the Technology "ET" Drawings.
- e) Install all required (owner furnished) racks, cabinets, brackets, shelves, doors, power strips and equipment required for a fully functional system and as required by the contract documents.
- f) Install all required (owner furnished) all station cabling between the telecommunications closets and the outlets.
- g) Install all required (owner furnished) all backbone cabling, including cabling between the building intermediate cross-connect in the Main Telecommunications Room (Data Center) and the telecommunications closets (IDFs).
- h) Install all required (owner furnished) termination blocks, outlets/jacks, patch panels, patch cords, cabinets, equipment racks, etc., required to support, terminate and/or cross connect cabling at the main cross connect, telecommunications rooms and/or other designated equipment locations.
- i) Install all required (owner furnished) ladder rack and cable runway as shown in the Contract Documents
- j) Install all required (owner furnished) cabling for point-of-sale/revenue systems as indicated in the drawings and specifications. Point-of-sale equipment will be provided under a separate contract; therefore this subcontractor must coordinate locations and wiring requirements before beginning installation.
- k) Provide Grounding/bonding of each rack, cabinet or frame installed under this work to the nearest Telecommunications Grounding Bus Bar (provided by others). Subcontractor is responsible for grounding wire and bars for all telephone/data equipment (where necessary subcontractor is responsible for repair of damaged fireproofing, paint, walls, etc. as a result of grounding installation).
- l) Furnish and install all physical cable management hardware including, but not limited to: "J-hooks" in accessible ceiling areas and "D-rings" on backboards and equipment racks.
- m) Install all required (owner furnished) termination, cross connect and patching of all fibers and cable pairs as indicated in the contract documents.
- n) Coordinate with fire alarm subcontractor, access control and any other subcontractor requiring telephone and data outlets/connections necessary for their equipment and systems to become fully operational.
- o) Coordinate installation of all backboards (provided by others) for mounting all "low voltage" equipment as shown on the contract documents and located in the telephone/AV (IDF) rooms. Subcontractor is responsible for conforming to the PLA for the installation of this plywood.
- p) Provide all Testing, labeling and documentation of all cables and hardware installed under this subcontract.
- q) Provide firestopping for work of this subcontract.
- r) Coordinate, furnish, and install all interface with elevators including providing temporary phone system for TCO and inspection purposes.
- s) Furnish and install all of the following as it relates to the concessions, clubs and kitchen food service equipment:
 - (a) Rough-in and trim of POS outlets per final approved food service shop drawings. (Per attached exhibit A)
 - (b) Data /Phone outlets in walls, floors and ceiling. (Per attached exhibit A)
 - (c) Confirm locations of all POS outlets with Food Service Drawings.