



HUNT Construction Group, Inc. - An AECOM Company
2 Oakwood Blvd., Suite 125
Hollywood, Florida 33020
Phone: (305) 325-0577 Fax: (305) 325-0765
www.aecom.com
www.huntconstructiongroup.com

Bid Package Breakdown

SUPPLEMENTAL INFORMATION

For Specialty Contractor

BP #43

Date: February 18, 2015

BP Name: Electrical(Food Service & Restrooms)

Bid Package Description: Furnish and Install Electrical for Food Service and Restrooms

Bid Package Value:

Specific Requirements and Scope:

This scope includes furnish and install Electrical for Food Service and Restrooms. The firms bidding this work as a Prime will need to have experience in large commercial renovation projects.

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 five(5) years of experience performing this type of work including the magnitude and schedule conformance.

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.

Participants in this package must be responsive to the direction and schedule needs and must be flexible to provide manpower as needed and when needed.



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Insurance Required:

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.

Due to the complexity of the bid package, contractor must have experience in managing and contracting lower tier subcontractors.

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.

BID PACKAGE SBD INFORMATION SHEET

Miami Dolphins
 Hunt Construction Group

Date: February 18, 2015

Bid Package number: 43

BP Package Name: Electrical (Food Service and Restrooms)



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Preliminary Outline of Work Scope	Estimate Detail and Scope	CSBE Possible Opportunities	BID PACKAGE \$ Totals	Specialty Contractor Dollars (not included in SBD Program)	Single Source Dollars (not included in SBD Program)	Non Specialty Dollars	Potential CSBE Participation Dollars
Light Fixtures	Material & Install	None					\$0
Conduit & Wire	Material & Install						
Equipment Hook-up	Material & Install	none					\$0
Fire Stopping	Material & Install						
Percentage of SBD: 20%			\$0				\$0

Miami Dolphins Stadium Renovations
BP-43 Electrical Food Service and Restrooms
Published: 02-16-2015

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-43 Electrical Food Service and Restrooms

Electrical 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 Electrical Infrastructure 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 X No _____

If Bonds are required, the 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 26 – 260500 COMMON WORK RESULTS FOR ELECTRICAL
 - 260519 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS
 - 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
 - 260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
 - 260536 CABLE TRAYS FOR ELECTRICAL SYSTEMS
 - 260548 VIBRATION CONTROLS FOR ELECTRICAL SYSTEMS
 - 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
 - 262200 LOW-VOLTAGE TRANSFORMERS
 - 262413 SWITCHBOARDS
 - 262416 PANELBOARDS
 - 262550 DOCKING STATIONS
 - 262726 WIRING DEVICES
 - 262813 FUSES
 - 262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
 - 263353 UNINTERRUPTIBLE POWER SUPPLY
 - 263600 TRANSFER SWITCHES
 - 264113 ENHANCED LIGHTNING PROTECTION SYSTEM SPECIFICATION

Miami Dolphins Stadium Renovations

BP-43 Electrical Food Service and Restrooms

Published: 02-16-2015

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 Electrical Scope

1. The Scope includes providing general items and services typical to the MEP 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 Coordination Meetings hosted by the Construction Manager.
 - b) Provide designated/required personnel to participate in generating and updating the Equipment / Commissioning Matrix.
 - c) 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.
 - d) Provide, as required and/or requested by Construction Manager "stand-by" personnel for games and events (Maximum 5 Games / Events with 6 people).
 - e) 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.
 - f) Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
 - g) Coordinate and mark-up all openings required in masonry walls.

Miami Dolphins Stadium Renovations

BP-43 Electrical Food Service and Restrooms

Published: 02-16-2015

- h) 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.
- i) Provide shop drawings for all block-outs, sleeves, inserts and openings in structural systems not reflected or referenced on structural documents prior to installation.
- j) 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.
- k) 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.
- l) Provide coordination and physical layout for all required concrete housekeeping pads, bases and curbs.
- m) Provide and install all hangers, supports, clamps, rods, inserts, imbeds, slides, anchors, braces, platforms and clip angles for ductwork, piping, and equipment.
- n) All hangers, supports, clamps, rods, braces, platforms and clip angles must be of a noncorrosive material and be compatible with the South Florida environment.
- o) Coordinate the hanging of ductwork, piping and equipment with subroof contractor and other trades for a combined support system. No equipment or piping will be installed between precast and subroof.
- p) Provide and install all vibration isolation control devices and materials required for isolating equipment, light fixtures and conduits from the building structure. This includes all building expansion and noise requirements referenced by the Contract Documents, code and industry standards of similar type projects.
- q) 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.
- r) 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.
- s) 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 Electrical 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, as required and/or requested by construction manager and /or building officials, personnel to assist the start-up of added mechanical systems and the checkout of all added building controls, life safety systems, and building

Miami Dolphins Stadium Renovations

BP-43 Electrical Food Service and Restrooms

Published: 02-16-2015

- commissioning. 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 (if separate contractor).
- b) Coordinate and provide demolition/ rerouting of all electrical systems to be replaced with new per the contract documents.
 - c) Coordinate, disconnect and the make safe of all electrical systems to be removed by demolition contractors.
 - d) Provide extensive safety lock and tag-out programs to ensure safety of all contractors.
 - e) Furnish and install all electrical devices, fuses, conduits, raceways, wiring, termination, testing and commissioning, as required, to provide complete and functioning electrical power and lighting systems as described in the Contract Documents.
 - f) Provide all testing, labeling and documentation of all cables and hardware.
 - g) Furnish and install all distribution equipment; including but not limited to panels, switchgears, transformers, breakers, wire, conduit, boxes, etc. Subcontractor is responsible for distribution throughout the building in accordance with the one-line diagrams shown in the contract documents.
 - h) Provide all gear at AIC ratings required by specifications.
 - i) Furnish and install all required primary power from the emergency panel designated on the contract drawings to the new and existing Fire Alarm System panels.
 - j) Coordinate, receive and install all VFD's, "loose" starters, disconnects and enclosed breakers. This subcontractor is responsible for installing and wiring all of these devices on both the load and line sides. Furnish and Install all associated supports.
 - k) Coordinate layout of large feeder conduits / racks concourses and non-build out spaces with Bid Package 19 Technology/Low Voltage/Raceway Infrastructure contractor and Dolphins cabling contractor for locations.
 - l) Construction Manager to review and approve all typical conduit routing prior to installation. Provide "mock-up" for every "typical" installation.
 - m) Furnish all required duct smoke detectors for installation by Mechanical Contractor.
 - n) Coordinate with BAS system to provide override VFD/Starter for Smoke/Fire Alarm control.
 - o) Coordinate, furnish and install all 120 volt circuiting for all DDC controls including BAS and Fire Alarm.
 - p) The existing stadium is served by 4 Florida Power and Light vault rooms and 4 main electrical switch gear rooms located in Quadrants A, B, C & D and there are also 2 emergency power generators in located Quadrants B & D. Coordinate all work based on these locations.
 - q) Coordinate additions of new GE circuit breakers with existing GE brand main switchgear to serve various new panels throughout the stadium and at the new roof.
 - r) Refer to electrical riser diagrams and panel schedules for more detailed information.
 - s) Provide and install three (3) phase 480 volt circuits to all new smoke evac. Fans (if required) as indicated on the mechanical drawing.
 - t) Supply power to new exhaust fans in Beer Cooler and as required by contract documents..
 - u) Install wiring for card readers Card readers
 - v) Provide electrical power and interface to new Smoke Exhaust Fans to smoke control panel and BAS system

Miami Dolphins Stadium Renovations

BP-43 Electrical Food Service and Restrooms

Published: 02-16-2015

- w) Provide and install all electrical services for the concessions, restrooms, and kitchen food service equipment as per design drawings.
- x) Provide rough-in and trim of electrical service per final approved food service shop drawings.
- y) Provide isolated ground receptacles at counters at concessions for POS equipment.
- z) Provide GFI receptacles as required in all Food Service areas.
- aa) Contractor will become familiar with all associated food service equipment requirements by participating in actual sample examinations.
- bb) Interface and tie-ins of food service equipment to the base building fire alarm system and BAS.
- cc) Provide electrical power new 24KW insta-hot electric water heaters for all new concession stand, tailgate, and bars at 100 and 400 level specialties to match existing specification as required by the Contract Documents.
- dd) Provide electrical power for new chromomite tankless water heater at janitor sink at 100 and 400 level as per design documents.
- ee) The hood installation is by Food Service Contractor
- ff) Provide and install interface (wiring) of hoods with grease exhaust fans.
- gg) Provide and install electrical outlets in walls, floors and ceiling.
- hh) All junction boxes, cover plates, switches, etc., at the walls and ceiling by this Subcontractor. All outlets, junction boxes, cover plates, etc. in dish rooms and other high moisture areas, or as indicated in schedules, shall be gasketed.
- ii) Required circuiting to Ansul Cabinets. Provide conduit with pull string for remote ansul trip device.
- jj) Shunt trip breakers are to be provided under this scope and as required by the Food Service Contractor in conformance with the Contract Documents and applicable code.
- kk) All conduit, wire and terminations for any remote temperature alarms within food service area.
- ll) Includes complete integration to the HVAC subcontractor provided pressurization / evacuation systems for the Corridors and others areas as the code minimum requirements.
- mm) Include hardwiring to food service equipment
- nn) Includes all motor control centers, disconnects, thermostats, sensors, starters, heaters, fuses, interconnecting wiring, control devices, transfer switches, transmitters, control and display panels, transformers, etc., required to support the equipment provided by this subcontractor.
- oo) Furnish all wiring diagrams for the use of others for equipment provided by this contractor. This also includes all control diagrams coordinated with Fire Protection prepurchased equipment for electrical and Life Safety interface.
- pp) This subcontractor shall furnish, if necessary for access to his equipment only, all access panels and access doors for the project to be coordinated with design characteristics of the spaces and installed as required by the contract documents and specifications. (Indicate Quantity) Installation of access doors shall be by others. Subcontractor to quantify counts, sizes, and values.
- qq) Systems, Equipment, and Areas under this scope to be integrated to Fire Alarm System and BAS as required include the following: Lighting control panels. (confirm override and control).