



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 #42

Date: February 18, 2015

BP Name: Mechanical(Food Service & Restrooms)

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

Bid Package Value:

Specific Requirements and Scope:

This scope includes furnish and install Mechanical 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.



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

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: 42
 BP Package Name: Mechanical(Food Service and Restrooms)



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

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
Hood Exhaust	Material and Installation	None					\$0
Scrubbers	Install Only	None					\$0
Toilet Exhaust	Material and Installation						
New Ductwork	Material and Installation						
Ductwork Removal	Install						
Fire Stopping	Material and Installation						
Percentage of SBD: 20%							
				\$0	\$0	\$0	\$0

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-42 Mechanical Food Service/Restrooms

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 Mechanical 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 23 – 230500 COMMON WORK RESULTS FOR HVAC
 - 230513 COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT
 - 230516 EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING
 - 230519 METERS AND GAGES FOR HVAC PIPING
 - 230523 GENERAL DUTY VALVES FOR HVAC PIPING
 - 230529 HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
 - 230548 VIBRATION CONTROLS FOR HVAC PIPING AND EQUIPMENT
 - 230553 IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
 - 230593 TESTING, ADJUSTING AND BALANCING FOR HVAC
 - 230700 HVAC INSULATION
 - 230900 INSTRUMENTATION AND CONTROL FOR HVAC
 - 230993 SEQUENCE OF OPERATION FOR HVAC CONTROLS
 - 231123 FACILITY NATURAL GAS PIPING
 - 232113 HYDRONIC PIPING
 - 232300 REFRIGERENT PIPING
 - 233113 METAL DUCTS
 - 233116 NON-METAL DUCTS
 - 233119 HVAC CASINGS
 - 233300 AIR DUCT ACCESSORIES
 - 233600 AIR TERMINAL UNITS
 - 233713 DIFFUSERS, REGISTERS AND GRILLES

237313 MODULAR INDOOR CENTRAL STATIONS AIR HANDLER
UNITS
238126 SPLIT SYSTEM AIR CONDITIONERS
238219 BLOWER FAN COIL UNITS
232913 ENCLOSED CONTROLLERS
232923 VARIABLE FREQUENCY MOTOR CONTROLLERS

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 HVAC 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 weekly and/ or as necessary MEP /BIM Coordination Meetings hosted by the Construction Manager and as defined in the BIM Execution Plan.
 - c) Provide accurate Building Information Model (BIM) for their scope of work as part of the shop drawing submissions and as specified in the BIM Execution Plan prepared by the Construction Manager. A Building Information Model (BIM) is a three-dimensional digital representation of the physical and functional characteristics of the Project which term may be referred as the "Model (s)". The BIM may include additional information or data. Subcontractor's Models shall be inclusive but not limited to Equipment, Fixtures and Piping, etc. The BIM created by the Architect, Engineers, or Construction Manager does not constitute Contract Documents. The Building Information Model can be used for reference only and all dimensions,

Miami Dolphins Stadium Renovations

BP-42 Mechanical Food Service/ Restroom

Published: 02-16-2015

details, and the like must be retrieved from the Contract Drawings defined in "Attachment III".

- d) Provide designated/required personnel to participate in generating and updating the Equipment / Commissioning Matrix.
- e) 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 (if separate contractor).
- f) Provide all hoisting, lifting, rigging (with flag personnel) of all materials, tools and equipment during normal working hours. Coordinate and schedule with Construction Manager.
- g) Provide all required lifts, scaffolding, staging etc for personnel and materials for installation of this work. Coordinate loads with structural documents and Construction Manager.
- h) 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.
- i) Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
- j) Coordinate and mark-up all openings required in masonry walls.
- k) 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.
- l) Provide shop drawings for all block-outs, sleeves, inserts and openings in structural systems not reflected or referenced on structural documents prior to installation.
- m) 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. Provide and install all required flashing and curbs associated with this work.
- n) 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. Subcontractor understands that Hunt has the option to direct subcontractors to utilize similar or same products, and has included all applicable costs for all major manufacturer or brand name fireproofing and firesafing products in the contract sum.
- o) Provide coordination and physical layout for all required concrete housekeeping pads, bases and curbs.
- p) Provide and install all hangers, supports, clamps, rods, inserts, imbeds, slides, anchors, braces, platforms and clip angles for ductwork, piping, and equipment.
- q) All hangers, supports, clamps, rods, braces, platforms and clip angles must be of a noncorrosive material and be compatible with the South Florida environment.
- r) 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.
- s) Provide and install all vibration isolation control devices and materials required for isolating equipment, ductwork and piping from the building structure. This includes

Miami Dolphins Stadium Renovations

BP-42 Mechanical Food Service/ Restroom

Published: 02-16-2015

- all building expansion and noise requirements referenced by the Contract Documents, code and industry standards of similar type projects.
- t) 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.
 - u) Provide protection at all times of "open ended" ductwork and piping to prevent vandalism, negligent damages, water/moisture intrusion and dust/debris intrusion. In addition, all ductwork is to be kept off the ground by the use of cribbing or blocking to protect the ductwork from standing water. All ductwork is to be kept under cover or stored in a dry location prior to installation.
 - v) Coordinate all electrical requirements with Electrical Contractor. Provide any electrical power (incl: conduit, wire, devices and connections) required if not reflected on Contract Documents.
 - w) 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 Marshal and / or the Building Officials.

4. Specific HVAC 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. Provide and install final connections to all mechanical equipment, e.g., but not limited to, smoke exhaust fans, toilet exhaust fans, exhaust fans, variable speed drives, vibration isolation, cooper piping systems, instrumentation, insulation, and packaged air handlers per the Contract Documents.
 - b. Provide and install exhaust fan, dampers, and ductwork for the Beer Cooler, 100 and 400 level areas restroom exhaust .
 - c. Provide and install all branch ductwork, VAV boxes, dampers, air distribution devices, piping, supports and controls for associated work per design documents.
 - d. Provide all access panel for associated equipment, valves, and etc.. installation of panel to be installed by others.
 - e. Provide and install all work and materials required to provide insulation of all hydronic systems furnished and installed as work of this Subcontract all in accordance with Contract Documents.
 - f. Provide and install all hydronic and piping specialties, e.g., but not limited to, air separators, expansion tanks, air vents, strainers, flow meters, relief valves, pressure reducing valves, suction diffusers, balance valves, constant flow valves, and drain valves as per the Contract Documents.
 - g. Coordinate all condensate drainage with plumbing infrastructure contractors.
 - h. Provide and install all system identification, tags, charts, color-coding, etc. per the Drawings and Specifications.
 - i. Provide and install all required loose starters, disconnects, control panels, VFDs and associated fuses/heaters to the Electrical Subcontractor for installation.

Miami Dolphins Stadium Renovations

BP-42 Mechanical Food Service/ Restroom

Published: 02-16-2015

- j. Provide and install instrumentation, e.g., but not limited to, pressure gauges, gauge taps, test plugs, thermometers, and thermometer wells per the Contract Documents.
- k. Provide and install all weld-o-lets, thread-o-lets, etc. required for the HVAC Controls Systems.
- l. Provide and install packaged, central station, air handlers complete with economizers, fans, vibration isolation, filters, cooling coils, heating coils and accessories per Contract Documents.
- m. Provide and install all engineered supports, equipment supports, equipment stands, miscellaneous iron, knee bracing, hanger steel, intermediate steel required to span open spaces within the structure, pipe legs, etc., as may be required to meet the intent of the Contract Documents.
- n. Furnish, as required and/or requested by construction manager and /or building officials, personnel to assist the start-up of mechanical systems and the check out of all building controls, life safety systems, and building commissioning. This will include any "overtime" required and/or requested and any associated premium costs. Coordinate this work with the Life Safety Systems Contractors.
- o. Provide final cleaning and wipe down of all HVAC equipment including sheet metal as per Contract Documents. Provide the final cleaning just prior to the Owners first event.
- p. Coordinate and schedule installation of all equipment with architectural walls, ceilings etc. Provide and install all required supports for associated piping, ductwork, enclosures, devices, etc.
- q. Coordinate with build-out contractors a complete airside balancing for sheet metal and ventilation systems. Furnish the necessary manpower as required and / or requested by Construction Manager to assist a complete System Balance as required.
- r. Provide and install all required sheave and belt changes required to successfully accomplish the air side balance as specified for all equipment furnished under this scope of work.
- s. Provide and install all built up plenums, housings and casings for the ventilation systems as indicated by the Contract Documents.
- t. Provide and install all structural support of housings, plenums and casings to fully support and brace field erected housings and plenums per Manufacturers recommendations and the Contract Documents.
- u. Provide and install supply air fans, return air fans, filter sections with frame work, vibration isolators equipment, sound traps, automatic dampers installation, air blenders, and drain pans as required per the Contract Documents.
- v. Provide and install auxiliary drain pans to include condensate drain lines where required by local codes, Drawings and Specifications or as required and recommended by equipment manufacturers.
- w. Provide and install louver blank off panels on all unused louver areas, include double-wall insulation of blank off panel as required.
- x. Provide and install fire damper sleeves, angles and access doors as required per the Contract Documents, local code and SMACNA.
- y. Provide and install galvanized angle iron safe off of openings around duct perimeters where penetrations through walls or floors are made. Closure metal shall be provided for both sides of wall penetrations. Provide firesafing behind angle iron in rated walls where fire dampers are not installed. Also provide firesafing around the angle to the wall as well as any space between the wall and the duct.
- z. Coordinate and/or install duct mounted smoke detectors provided by Electrical Contractor.

Miami Dolphins Stadium Renovations

BP-42 Mechanical Food Service/ Restroom

Published: 02-16-2015

- aa. Subcontractor acknowledges and agrees that all motorized dampers that do not interface with the fire alarm system shall be controlled by this subcontractor.
- bb. Subcontractor shall operate and maintain mechanical systems until substantial completion of the work.
- cc. Provide submittal and obtain approval from the engineer, a complete duct construction systems manual with details for fabrication prior to any duct fabrication. Duct fabricated without this approval will be rejected.
- dd. Furnish and install all duct sealants as required by the Specifications. Perform all pressure testing of ductwork and systems in accordance with Drawings and Specifications.
- ee. Furnish and install all outside air, exhaust air, supply air, return air, back draft and balancing dampers for all air handling units under this scope of work unless the dampers are supplied with the equipment.
- ff. Furnish and install flex connections as required between duct systems and equipment. Flex connections between duct collar and diffusers shall have duct tape installed on the inner flex before installing the retaining strap, replace the insulation, then the outer jacket and duct tape the outer jacket to the duct insulation to form a vapor barrier seal. All flex connections shall meet manufacturer recommendations and the Contract Documents.
- gg. Install all exhaust hood scrubbers, kitchen hood exhaust ductwork, and smoke detectors at concessions as shown on design drawings.
- hh. Provide and install roof mounted kitchen hood make up air fans mounted in same location as present. Reconnect to existing ductwork below and provide new smoke detector in existing supply duct.
- ii. Install all exhaust fan and exhaust ductwork from hood discharge collar and exhaust duct down to concession roof in prefab roof curb to discharge and terminate with wire mesh screen as shown on design drawings.
- jj. Install supply and return ductwork, fire dampers, and diffusers for 100 and 400 level concessions to include new restrooms, bar areas, specialty, and novelty areas.
- kk. Provide the testing of all kitchen exhaust ductwork. Duct to be tested under positive pressure to less than 0.01% loss.
- ll. Furnish all emergency shut-off switches for equipment being furnished by this Subcontract where shown or necessary by code requirements.
- mm. Furnish and install all low voltage "integral" wiring for HVAC equipment.
- nn. Provide "galvanized" wire mesh screens for protection as required by design documents.
- oo. Furnish and install all rough in work and make final connections to the food service equipment as required by the food service equipment and in accordance with the Contract Documents. Contractor will become familiar with all associated food service equipment requirements by participating in actual sample examinations.
- pp. Furnish and install sheet metal and ventilation systems and equipment, including but not limited to, built up air handlers, ducted sheet metal systems, grease exhaust duct, variable speed drives, exhaust systems, sheet metal and ventilation specialties, vibration isolation, sheet metal and ventilation accessories, dampers, air devices, insulation, drain pans, terminal units and specialties per Contract Documents.
- qq. Furnish and install all final sheet metal transitions and flex connectors to all air moving equipment, e.g., hot water reheat coils, duct mounted coils, fan coils, hot water coils mounted in air terminal units, smoke exhaust fans and all packaged air handler units per Drawings and Specifications.
- rr. Furnish and install Sheet metal and ventilation specialties as specified.

- ss. Furnish and install new inline smoke exhaust fans with vibration isolators, back draft dampers, and starters per contract documents at field corridor in Quads A, B, C, and D.
- tt. Furnish and install Flamebar duct, turning veins, fire wrapped exhaust plenum, and associated accessories at field corridor in Quads A, B, C, and D.
 - a. Furnish, cut opening and install exhaust louver for smoke exhaust fans at field corridor in Quads A, B, C, and D.
 - b. Furnish, cut opening and install exhaust louver for exhaust fans in Beer Coolers.
 - c. Provide control wiring for integration to interlock with fire control panel and building automation system.
 - d. All exhaust, kitchen smoke, smoke exhaust fans units when installed shall be provided with controls compatible with the existing buildings BAS. All new fans shall be connected to the BAS system.
 - e. New inline smoke exhaust fans shall be provided with controls compatible with the existing buildings BAS.
 - f. New inline smoke exhaust fan shall be connected to the BAS system and interlocked with fire control panel.
 - g. Provide and install new bathroom exhaust fans, and ductwork servicing serving the restrooms on the 100 and 400 level Quads A-D.
 - h. Provide and install ductwork, air distribution devices, controls, damper, plenums, VAV boxes, smoke detectors to existing unit for a complete system at the 100 level command center and broadcast areas as per design documents.
 - i. Provide and install new split system for new IDF rooms at 100 level.
 - j. Provide and install new roof mounted exhaust fans and controls for levels 100 and 400 support/electrical/janitor rooms.
 - k. Provide and install exhaust fans on roof above and associated ductwork for the new restroom on 100 and 400 level for Quad A-D as shown on design documents.