



HUNT
An AECOM Company

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Bid Package Breakdown

SUPPLEMENTAL INFORMATION

For Specialty Contractor

BP # 6

Date: 9/26/14

BP Name: Fire Protection - General

Bid Package Description: Design /replacement /modifications of fire protection equipment and piping.

Bid Package Value: \$ 1,500,000.00

Specific Requirements and Scope:

Fire Protection (Sprinklers) is complex and firms bidding this work as a Prime must be a firm with experience in large industrial / commercial renovation projects.

Specific Skills Required:

Bidder must be familiar with the fast track performance of project and must understand that the Design is ongoing.

Bid package is a "Design Build" package and firm must have ability to design and stamp with an engineering certification.

Risks Associated with this Package:

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

Experience and Licenses Required:

Subcontractor must be a specialized trade contractor that has a license to do this type of work that is required per that budget line item.

Schedule/Performance and Manpower Requirements:

Bidder must be large enough to immediately accommodate any emergency situations that could arise during the performance of the work.

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

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)



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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 and Safety)

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

Programs:

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 firm located within Miami-Dade County.

Specifics to Line Items:

Equipment: The Fire Pumps and associated equipment will be purchased and installed by the Prime.

Piping: All the piping will be purchased and installed by the Prime.

Valves / Specialty Fittings: The valves and specialty fittings will be purchased and installed by the Prime.

Fire stopping: This work can be potentially assigned to CSBE Firms.

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1. ATTACHMENT II – SCOPE OF WORK

1. **SPECIFICATION REFERENCE:**

The organization of the specifications into divisions, sections and articles, and the arrangement of the drawings shall not control the Construction Manager in dividing the work among the Subcontractors or in establishing the extent of the Work to be performed by any Subcontractor.

Reference is made to the following Divisions of Work and Specification Sections which relate to this Scope of Work for coordination purposes, but is in no way intended to limit or alter the intent of the Contract Documents:

<u>SECTION NO.</u>	<u>TITLE and DESCRIPTION</u>		
Division 1	Project Manual Technical Specs [Front End]		
Division 21 spec 210500	Common Work Results for Fire Suppression		09/10/14
	210800 Commissioning of fire Suppression System		09/10/14
	211300 Fire Suppression Sprinkler System		09/10/14
	211319 Preaction Suppression Systems		09/10/14
	219000 Fire Suppression System Project Closeout		09/10/14

2. **INCLUSIONS:**

It is understood and agreed this **Work** includes all inclusions as described in the following subparagraphs regardless of whether or not they are in the above specifications or any other specification section or shown on the plans.

A. **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.

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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.

The Scope includes the following items. (The intent of listing scope items is for ease of major scope identification; it 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).

Subcontractor is responsible for all SEATING as indicated in the Contract Documents, including but not limited to;

B. General Fire Protection 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)
2. Provide designated/required personnel to participate in weekly and/ or as necessary MEP Coordination Meetings hosted by the Construction Manager.
3. Provide designated/required personnel to participate in generating and updating the Equipment / Commissioning Matrix.
4. 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.
5. 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.
6. Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
7. Coordinate and mark-up all openings required in masonry walls.
8. 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.
9. 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.
10. Provide coordination and physical layout for all required concrete housekeeping pads, bases and curbs.

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11. Provide and install all hangers, supports, clamps, rods, inserts, imbeds, slides, anchors, braces, platforms and clip angles for piping and equipment.
12. All hangers, supports, clamps, rods, braces, platforms and clip angles must be of a noncorrosive material and be compatible with the South Florida environment.
13. Coordinate the hanging of piping and equipment with subroof contractor and other trades for a combined support system. No equipment, piping or hangers will be installed between structure and subroof. All equipment and piping must be supported from Sub-roof supports. Provide submittal of NFPA approved hanger detail including combination of other MEP systems.
14. Provide and install all vibration isolation control devices and materials required for isolating equipment and piping 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.
15. 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.
16. Coordinate all electrical requirements with Electrical Contractor. Provide any electrical power (incl: conduit, wire, devices and connections) required if not reflected on Contract Documents.

C. Specific Fire Protection 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).
2. Provide Stamped Engineered Drawings for submittal per all Dade County requirements.
3. Furnish and install all system identification, tags, charts, color-coding, etc. per the Drawings and Specifications.
4. 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 and the HVAC Control Systems Contractor.
5. Furnish, as required and/or requested by construction manager and /or building officials, personnel to assist and manage the flow testing of the fire pump. This will include any "overtime" required and/or requested and any associated premium costs. Fire Pump representative will be available for required testing and include as many site visits as required.
6. Provide complete shop drawing reflecting all locations of flow switches and tamper devices for coordination with Electrical (Fire Alarm) Contractor.

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7. Provide final cleaning and wipe down of all Fire Protection Equipment including piping as per Contract Documents. Provide the final cleaning just prior to the Owners first event.
8. Furnish and install vibration isolation equipment for all equipment and piping furnished by the Contract in accordance with Drawings and Specifications.
9. Provide provisions for and supply testing materials to successfully perform all testing of all systems in accordance with the Specifications and local code requirements, to include, but not be limited to, documentation and record keeping as required to certify that tests have been successfully completed. Faulty work shall be repaired and retested at the Subcontractors own expense.
10. Provide and install new fire protection system for all areas on levels 100 and 400.
11. Provide and install new fire protection system on all other levels as required from testing to ensure complete certification of entire facility.
12. Provide and install two (2) new 100HP 140PSI 750GPM fire pumps with jockey pumps in separate rooms with a looped feed main located on the ground floor. This includes valves, flow/tamper/supervisory switches, controllers, panels, etc Existing sprinkler systems are connected to the feed main and standpipe risers. Cap and make ready for removal existing fire pumps and Jockey pumps.
13. Reroute existing main on level 000 and demo area under raker beams and cap existing sprinklers. Coordinate and provide temporary fire protection to all areas and provide fire watch when necessary to shut down existing system when transitioning/ connecting to existing systems. Fire hose valves to remain active. Temporary piping and additional accessible hose valves required. Provide new feed main as indicated. Refer to FP drawings level 000 and 100 demo.
14. Furnish and install all piping, heads, drops, hangers, supports, valves, switches, gauges, air compressors and all other equipment required to install a fully functional fire protection system as specified in the contract documents. This includes meeting all building expansion requirements referenced and not referenced in the Contract Documents. Subcontractor's price is based upon a dry pipe system, as Subcontractor stated is acceptable by code. If a wet pipe or pre-action system is required by code, Subcontractor shall be responsible to provide whatever system is required.
15. Furnish and install not less than one spare head cabinet per sprinkler system, or minimum amount required by the Contract Documents.
16. Provide labeling of sprinkler pipe.
17. Furnish and install all firestopping as required by Contract Documents and local code.
18. Furnish and install all sealant and caulking of all items required by the Contract Documents.
19. Furnish and install all fire protection drains to a floor drain or an acceptable drainpipe line. Routing of the drain is the Subcontractors responsibility and Subcontractor shall install the work in such a manner to allow proper drainage. Subcontractor shall coordinate this work with the Plumbing Subcontractor during the design and shop drawing phases to try to avoid creating tripping hazards and where able to, installing the pipe in an aesthetically acceptable

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- manner. Plumbing Subcontractor is ultimately responsible for locating the floor drains.
20. Furnish, install and coordinate locations of all wired devices with the building electrical subcontractor and fire alarm subcontractor. Provide detail drawing of all new locations required and verify existing locations.
 21. Provide temporary standpipes for fire protection during construction. Temporary systems shall comply with Dade County and local Building Department. Provide engineered drawings for structural permit if required.
 22. Furnish and install all hose valve / cabinets as required by code and Dade County Local Building Department.
 23. Provide coordination and cooperation with the Dade County in regards to all required testing of fire protection systems, pipes, pumps, etc.
 24. Provide compliance with all applicable NFPA regulations for the installation of all sprinkler systems on the project.
 25. The term "system" as used above is defined as all components furnished and installed by the Subcontractor that are required by both the Architect's intent and the Developer for a particular function that will achieve or exceed the desired results, which are defined in the Contract Documents.
 26. Provide Coordination of testing of fire protection lines with other Subcontractors
 27. All pendent sprinklers shall be installed in the center of ceiling tiles or aligned with the ceiling elements to provide for a consistent pattern.
 28. All core drilling, sleeving, packing, fireproofing, and firesafing is included in this scope of work.
 29. Subcontractor shall operate and maintain fire protection systems until substantial completion of the work.
 30. We are indicating replacement of the two existing fire pumps, jockey pumps, controllers (except for one that was recently replaced) pipe and fittings. Fire pumps to be sized to new flow test and new remote areas.
 31. Remove and replace all existing sprinkler system control shut off valves that are (non- pressure regulating) with new pressure regulating type where static pressures exceed 175 for sprinkler systems (typical all areas and floors)
 32. Remove and replace all existing fire department hose valves with pressure regulating type in areas where pressure is excessive.
 33. Relocate and or add sprinkler heads to new renovated areas as shown.
 34. Provide new sprinkler systems where shown on drawings. Provide new double interlock pre-action system as shown on drawings.
 35. Provide water supplies to kitchen hoods where shown on food service consultants drawings.

