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Bid Package Breakdown

SUPPLEMENTAL INFORMATION

For Specialty Contractor

BP #: 29

Date: March 25, 2015

BP Name: Video Boards

Bid Package Description: Furnish and install Video Boards

Bid Package Value:

Specific Requirements and Scope:

This scope includes the specialized trade of fabrication and installation of the Video Boards. 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.

BID PACKAGE SBD INFORMATION SHEET

Miami Dolphins
Hunt Construction Group
Date: March 25, 2015
Bid Package number: BP-29
BP Package Name: Video Boards



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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
Video Boards	Fabricate and Install Video Boards						\$0
Percentage of SBD: 0%			\$0	\$0	\$0	\$0	\$0

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 # 29 Videoboards:

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 Broadcast 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 X 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 23 – All Sections
- Division 26 – All Sections
- Division 11-68-43 EXTERIOR SCOREBOARDS

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 Videoboards Scope

1. The Scope includes providing general items and services typical to the A/V /MEP / IT/ Technology 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 designated/required personnel to participate in weekly and/ or as necessary Technology /Owner Coordination Meetings hosted by the Owner
 - c) Provide designated/required personnel to participate in generating and updating the Equipment / Commissioning Matrix.
 - d) 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.
 - e) Provide, as required and/or requested by Construction Manager "stand-by" personnel for games and events (Maximum 5 Games / Events with 6 people).
 - f) 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.
 - g) Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
 - h) Coordinate and mark-up all openings required in masonry walls.
 - i) 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.
 - j) Provide shop drawings for all block-outs, sleeves, inserts and openings in structural systems not reflected or referenced on structural documents prior to installation.
 - k) 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.

- l) 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.
- 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 cabling and equipment with sub roof contractor and other trades for a combined support system. No equipment or cabling will be installed between precast and sub roof.
- p) 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.
- q) 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.
- r) 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 Videoboards 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. This Subcontractor shall provide a **complete scope** including but not necessarily limited to all labor, material, insurance, taxes, bonds (performance and payment) shop drawings, coordination drawings, permits, certificates submittals, accessories, transportation, hoisting, scaffolding, tools, administration and all related work necessary to provide a fully functional system.
3. This Subcontractor understands, has planned for, and has provided for the **absolute project schedule requirements** including the November 22, 2014 event/opening. Subcontractor has included and shall make all efforts to expedite materials. Subcontractor understands, agrees, has planned for and has provided for/included the following project absolute deadlines:
 - a) All scoreboards and displays systems (and any/all other work under this scope) installed and ready for pre-testing no later than **July 6, 2016**.

- b) All scoreboards and display systems (and any/all other work under this scope) installed complete, pre-tested, and fully functioning no later than **July 18, 2016**.
 - c) All work of this scope final inspected by any/all authorities having jurisdiction and all inspections complete that may be required for occupancy certificate(s) no later than **August 1, 2016**.
4. This Subcontractor is responsible for field measurements and layout to ensure correct fabrication of materials. Benchmarks and control lines will be established by others.
 5. This Subcontractor shall provide a **complete scope** including but not necessarily limited to all labor, material, insurance, taxes, bonds (performance and payment) shop drawings, coordination drawings, permits, certificates, submittals, accessories, transportation, hoisting, scaffolding, tools, administration and all related work necessary to provide a fully functional system.
 6. Subcontractor shall provide all miscellaneous supports, hangers, fasteners, bolts, brackets, anchors, embeds, flashings, equipment racks, etc. for a complete and functional system.
 7. Subcontractor shall provide all miscellaneous supports, hangers, fasteners, bolts, brackets, anchors, embeds, flashings, equipment racks, etc. for a complete and functional system.
 8. Subcontractor shall provide all miscellaneous supports, hangers, fasteners, bolts, brackets, anchors, embeds, flashings, equipment racks, etc. for a complete and functional system.
 9. Subcontractor is responsible for field measurements and layout to ensure correct fabrication of materials. Benchmarks and control lines will be established by others.
 10. Subcontractor is responsible for all subsequent design and engineering drawings not included in the construction documents.
 11. Subcontractor agrees to use its best skill and judgment in pricing the Work and understands that contract documents are not intended to indicate every item of work. Subcontractor intends to provide all labor and materials to complete its work as intended.
 12. Subcontractor shall provide all commissioning, testing, demonstrations, attic stock and warranties.
 13. Subcontractor shall provide all shop drawings and design calculations signed and sealed by a Professional Engineer registered in the State of Florida. Subcontractor has included Professional Liability Insurance.

14. Subcontractor shall leave all equipment in a clean condition with stickers, tags, marks, etc. removed. Subcontractor shall provide a final clean of the scoreboards prior to the 1st scheduled event.
15. Subcontractor shall provide equipment that is new and meets the latest published specifications for the product. In the event the product is enhanced or improved, Subcontractor shall supply the newer product at no additional cost.
16. Subcontractor is responsible for all maintenance from the time of installation until final acceptance from the Owner. Subcontractor shall provide alternate pricing for extended maintenance periods of one, two and three years.
17. Subcontractor shall be prepared for and has included multiple mobilizations throughout the course of the project.
18. Subcontractor shall provide a full-time on-site supervision throughout installation. Onsite supervision shall be capable of making day to day decisions and have authority necessary in order to keep proper flow of the work.
19. All components shall be weather tight and capable of withstanding local weather conditions without adverse affect on functionality or warranty.
20. Subcontractor shall provide a competent technician on-site for a minimum of 3 events. Events to be determined by the Owner and will be through to Project Substantial Completion.
21. The Subcontractor shall provide support steel, enclosures, miscellaneous supports, anchors and attachment of all materials and equipment supplied by this Subcontractor. Structural (Roof) to be provided by others.
22. This Subcontractor shall coordinate with other trades which are providing the structural steel. This Subcontractor is responsible for all catwalks, secondary steel and exterior cladding. This Subcontractor is responsible should it be necessary to modify the framing details to accommodate the modules with catwalk locations and other members shown on the contract documents.
23. Subcontractor should be prepared to provide independently powered welding equipment necessary to complete its work. Subcontractor is responsible for protection of surrounding work, touch up, repairs, painting, etc. associated with welded connections.
24. Subcontractor shall provide all grounding and bonding as required by NEC and local code officials.
25. Subcontractor shall provide all communication and control wiring for work from the systems to the control room. Subcontractor shall provide conduit, raceways, ladder racks, cable trays, equipment racks within the Control Room. It is understood that all these components may not be specified on

the contract drawings, but are required to complete the Work.

26. All power requirements for this Subcontractors equipment are to be coordinated with the Construction Manager and Electrical Subcontractor. Any additional power required by this Subcontractor and not indicated on the contract drawings will be the responsibility of this Subcontractor. Subcontractor shall make final connections to equipment. Subcontractor shall specify/confirm power requirements (by others) below:
27. Subcontractor has thoroughly reviewed the contract documents to ensure any/all provisions by others are sufficient. Any additional work required by this Subcontractor and not indicated on the contract drawings will be the responsibility of this Subcontractor.
28. Subcontractor was provided, is responsible for, and has included all necessary provisions for all contract documents (plans and specifications) indicated on the "Master Drawing Index" dated 3/13/15 and specifically ASI # 043 drawings.
29. Subcontractor shall provide all racks, cable supports, hardware, panels, backboards, and sleeves within the equipment room. All panels shall be in weatherproof enclosures were applicable.
30. Subcontractor shall participate in MEPF, Technology and A/V coordination meetings as requested.
31. Subcontractor shall verify that the mechanical design is sufficient for requirements for equipment within the control room. Any additional mechanical work required by this Subcontractor and not indicated on the contract drawings will be the responsibility of this Subcontractor.
32. Subcontractor shall provide connection to video replay system and scoreboard control room.
33. Subcontractor shall provide video display signal cablings
34. Subcontractor shall provide final connection for all electrical and communications associated with its Work.
35. Subcontractor shall provide all equipment required for proper installation, operation and control of the Systems. This includes all necessary software, hardware, computers, controllers, peripherals, power cables, data cables, signal boosters and signal cabling within its work and control room.
36. Subcontractor shall furnish materials that are smooth and free of surface blemishes, including but not limited to pitting, rusting, mill scale, roller marks, oil canning, oil, grease, dirt and all other foreign materials.
37. Subcontractor shall coordinate "clearances" with the fire alarm system installer.

38. Subcontractor shall perform the final power/data termination and interconnect of the video modules in order to provide a complete Scoreboard & Display Systems.
39. Subcontractor shall provide all submittals as specified within the Contract Documents. All items that are performance specified are to be performed under the direct supervision and bear the seal of a Professional Engineer registered in the State of Florida.
40. Subcontractor is required to provide all general warranties (minimum one year) and special warranties as noted within the Contract Documents.
41. Subcontractor shall be responsible for any damage as a result of the Work of this Subcontractor.
42. Subcontractor shall provide maintenance lighting within scoreboard structure. Lighting shall be designed to provide sufficient light levels to meet Code requirement for a maintenance situation.
43. Subcontractor shall be responsible to provide proper internal temperature and moisture control to keep all LED displays operating within the manufacturers recommended temperature range. Contractor shall consider the highest ambient air temperature anticipated at the project location when designing internal cooling system. Contractor shall supply stamped engineered drawings for its proposed cooling system that shall include calculations that illustrate adequate cooling is provided under the most severe conditions.
44. Subcontractor shall provide integration of new scoring system and new primary video display Control / Processing / Operating system(s).
45. Subcontractor shall provide integration with existing video replay system and new scoring system.
46. Subcontractor may utilize conduits or raceways currently installed in the Stadium for low voltage, video signal, and/or data communication for new system(s). If existing conduits or raceways are utilized for new wire pulls, all fill ratios and code compliance is required, however the Subcontractor is required to remove the existing signal cable to the display that is being removed. All additional conduit and raceways required to complete a path to each display shall be furnished and installed by Subcontractor. Subcontractor shall be responsible to furnish, install, and terminate all required cabling needed to make new system(s) complete and fully operational. A rendering package is provided as part of this bid package. The illustrations are to be construed as conceptual and not for construction purposes.
47. Subcontractor shall be responsible for final engineering of structural and electrical components required for new system(s), including professional engineering stamp by a licensed/registered engineer in the State of Florida.
48. Subcontractor is responsible for supplying a complete and fully operational

system as intended by the bid package documents and any subsequent addendums.

49. Subcontractor shall field verify all work site conditions, including dimensions and sightlines prior to submitting shop drawings.
50. Subcontractor shall grant Owner a license to use all proprietary software provided with this bid package for the life of the system.