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**Solicitation Information
April 23, 2013**

ADDENDUM # 2

**RFQ# 7461369
Title: REPLACEMENT OF GENERATORS LINCOLN CAMPUS, CCRI
Submission deadline: MAY 1, 2013 AT 11:30 AM (Local Prevailing Time)**

Notice to Vendors:

- Attached are the questions with the state's responses. No further questions will be answered.
- Attached is Additional Scope of Work required

**Thomas Bovis
Interdepartmental Project Manager**

Interested parties should monitor this website, on a regular basis, for any additional information that may be posted.

RFO # 7461369

TITLE: REPLACE GENERATORS CCRI LINCOLN CAMPUS

Questions:

1.) The warranty period and what is included needs to be clarified for the base bid and the alternate. Also, the maintenance and extended servicing needs to be clarified in the base bid and the alternate. Please clarify the warranty period and what should be included in the base bid and also clarify where the warranty in the alternate would take over, if accepted. The warranty is mentioned in the specification in more than one location and they contradict each other. Section 26 05 05 Part 1 - 1.11 states period is one year and it states to provide maintenance and emergency service? Section 26 32 13 Part 1 - 1.8 states the period is two years? Also, 1.9 states the period is one year and that two inspections are required? Again provide clarification on both these items for what we should include in the base bid and what we should include in the alternates. The ATS specification also has a statement regarding warranty.

Change specification 26 05 05 1.11 A. to read: Reference AIA 202 3.4.3, 9.8.4 and 12.2.2 for warranty requirements.

Clarification for Specification 26 05 05 1.11 A 1&2 – the intent is that any correction of failures during the warranty period is at no cost to the owner and shall be provided in an expedited time frame.

Change specification 26 32 13 1.8 to read as follows:

1.8 Equipment Warranty

A. The generator manufacturer shall provide a comprehensive warranty for the generator for two-years or 3,000 hours, whichever occurs first, from the date of substantial completion. Optional warranties shall be available upon request.

Change specification 26 32 13 1.9 to read as follows:

1.9 Maintenance Service

A. The Contractor shall provide a minimum of two inspections during the warranty period specified in AIA 202 3.4.3, 9.8.4 and 12.2.2. The first inspection shall be a six months before the warranty period ends. The second inspection shall be one month before the warranty period ends and include a full servicing of the generator including but not limited to changing all fluids and filters.

Change specification 26 36 00 1.8 to read as follows:

1.8 Equipment Warranty

A. The transfer switch manufacturer shall provide a comprehensive warranty for the transfer switch for two-years from the date of substantial completion. Optional warranties shall be available upon request.

Clarification: Alternate #1: This alternate shall be equal to the equipment warranty provided in 26 32 13, 1.8 and 26 36 00, 1.8. This equipment warranty shall start at the end of the equipment warranty provided in 26 32 13, 1.8 and 26 36 00, 1.8.

Clarification: Alternate #2: This alternate shall be equal to the maintenance service provided in 26 32 13, 1.9. This maintenance service shall start at the end of the maintenance service provided in 26 32 13, 1.9.

2) Please clarify who is responsible for filling the fuel tanks, before and after testing?

Add to specifications: 26 32 13 2.4 C: The contractor shall provide 100% of tank capacity of low sulfur diesel fuel for each generator prior to testing and shall fill the tanks to 100% capacity once testing is complete and prior to turning over generators to CCRI.

3) The Bid Form in Article 6 - Time of Completion, 6.1 states we would agree to the number of calendar days for completion as stated. 90 days is not enough time to complete this project. This was discussed at the pre-bid meeting. Please advise what the duration of the project will be. Also, 6.2 states we would agree to Liquidated Damages if the contract time isn't met. Please advise the amount of the damages. Can't find it in the specification.

The calendar days for substantial completion of this project shall be three hundred sixty-five (365) from the date of the issuance of the CCRI purchase order.

Liquidated damages shall be twenty thousand dollars (\$20,000) per calendar day.

4) Please clarify Article 7 - Attachments to this Bid, D, E & G; we have been advised on many previous state bids that this information is not to be included with the bid, but it would be required to be submitted by the successful contractor. Please advise.

All items of Article 7 must be provided with the BID submission.

5) Drawing E-102.1: More detailed explanation and more information is required for the notes 6 & 7, in regards to interface with building automation, time delay and load shedding. Some of the information required is as follows;

A) Where is the building automation control panel? (Is the data rack that location?) What type of wiring is required to the panel? Do spare relays exist in the panel? Is there a company that services this equipment? Who is responsible to pay for re-programming/testing of the system? Are any new components required to add the new added functions?

- 1. The building automation control panel for the field house is located within the field house electrical room.***
- 2. The type of wiring will be coordinated with the building automation vendor. The generator contractor shall be responsible for all work through the building automation vendor.***
- 3. The generator contractor shall provide through the building automation vendor all necessary equipment and/or accessories.***
- 4. The company and contact person that services the building automation system is: Jim Weeden, Huntington Controls, Inc., 781-535-6857***
- 5. The generator contractor shall provide through the building automation vendor re-programming/testing of the system. The generator contractor will coordinate with the building automation vendor so that testing of the generator and load shedding is accomplished at the time of generator testing.***
- 6. Same as #3.***
- 7. Add: Provide generator running status to building automation system for all generators.***

B) There are (8) loads being controlled by building automation. Where are they all fed from? What size are the breakers/fuses? What size are the feeders?

The intent of the loads to be controlled is that the building automation through a generator running sub-routine will prevent the equipment from running and/or provide delayed startup.

Delete: On drawing E102.1, notes 6d and 7a, the two hot water heaters have been converted to gas powered recently by the owner and will not be included in load shedding or delayed controls for the generator project.

C) Contactors for the (4) loads that are to be time delayed are not called for. Are they existing? If so, where are they located? If they are to be new, where should they be located? (Sizes have been asked for above.)

The intent of the loads to be controlled is that the building automation through a "generator running" sub-routine will enable/disable the equipment from running and/or provide delayed startup. The programming associated with time delay and load shed shall be provided by the generator contractor through the building automation system vendor. See answers to #5A.

D) There are (4) loads that call to be load shed. Can this be accomplished with shunt trip breakers? None are called for on the drawings. Should they be installed in separate enclosures? Where should they be located? (Sizes have been asked for above.)

Shunt trip circuit breakers are not a means for load shedding in this project. The intent is that all equipment load shed upon loss of power (generator running) will come back online automatically once utility power is restored. See response to 5C above.

6) We have one question. In the general Notes Item 1.b it says "custom bus shall be provided to rise up to the top of the equipment to connect to a bus tap box...." Do they mean connect to a bus duct flange, or will they be cabling up to a tap box. Let me know. Thanks

The custom bus and connections are all new and part of contract. The requirement is to provide custom bus that will exit the enclosure, connect to external busway that then feeds the ATS. The means and methods required to do this is the contractor's responsibility.

END OF QUESTIONS

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1. The corridor ceiling in the Field House where the generator conduits will run above shall be removed and replaced. Contractor shall be responsible to temporarily support all ceiling mounted equipment including but not limited to lighting fixtures, exit signs, occupancy sensor, security sensors and fire alarm devices. Time frame from removal of ceiling to replacement shall not exceed 30 days.
 - a. Ceiling shall be 24" x 24" Armstrong DUNE Beveled Tegular style ACT.
 - b. Ceiling replacement shall include ceiling tiles and grid.
 - c. Contractor responsible for covering all Fire alarm devices and sensors.
 - d. Contractor responsible for providing dust protection during the removal of the ceiling and for all cleanup and disposal off site of all ceiling debris.
2. Contractor shall provide temporary emergency power to all generators non-operational within 30 days of award of contract.
3. All clean fill, loam, gravel, sand and asphalt patching shall meet RIDOT Specifications for Road and Bridge Construction 2004 with all supplements.
4. Clarification: Generator and transfer switches shall be from one manufacturer.
5. Clarification: Contractor is responsible for all damage to existing site conditions including but not limited to pavement, sidewalks, curbing, grass areas and landscaping. Owner is very concerned about damage to apron area at Mod 1 that is brand new. Contractor shall provide protection from vehicle access to Mod 1 apron and underground utilities at Mod 1 that cross in front of the access to the new generator location.
6. Provide 6' high galvanized chain link fence around Mod 2/3 generator. Fencing shall be a minimum of 5' from face of generator on three sides. No fencing required on side of retaining wall. Fencing shall be installed according to state standards.
 - a. Provide pair of 36" wide galvanized chain link gates with hardware on long side of fence to provide a 6' opening.
 - b. Per the following SECTION:

CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Galvanized chain link fencing and hardware
- B. Swing gates and hardware

1.02 REFERENCES

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- A. ASTM - A153 - Zinc coating on iron and steel hardware
- B. ASTM - A392 - Zinc coated steel chain link fence fabric
- C. ASTM - F1083 - Zinc coatings on products

1.03 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Project Manual.

1.04 QUALIFICATIONS

- A. The manufacturer and installer shall specialize in performing the work of this section with minimum of three years documented experience.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Cyclone fence
- B. Substitutions under provisions of Project Manual.

2.02 MATERIALS

- A. Fabric: Chain link fabric shall be zinc coated per ASTM-392 Class 2. Fabric shall be woven from 9 gauge (coated size) wire in 2" mech. Fabric 60" high and under shall be knuckled at both selvages. Fabric 72" high and over shall be knuckled at one selvage and twisted and barbed at the other selvage.
- B. Line Posts: Line posts shall be 2.375" O.D. standard weight Schedule 40 galvanized pipe with minimum bending strength of 201 pounds under a 6' cantilever load coated with 1.8 ounces of hot dipped zinc in accordance with ASTM-F1083.
- C. Top and Brace Rail: Top and brace rails shall be 1.66" O.D., standard weight Schedule 40 galvanized pipe with minimum vertical bending strength of 202 pounds on 10' span coated with 1.8 ounces of hot dipped zinc in accordance with ASTM-F1083. Top rail couplings 6" minimum in length shall be spaced at maximum 21' centers. Fabric tie wire shall be spaced at 24" maximum centers.
- D. Terminal Posts: All end, corner, and pull posts shall be 2.875" O.D. galvanized standard weight pipe with minimum bending strength of 381 pounds on 6'

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cantilever load coated with 1.8 ounces of hot dipped zinc in accordance with ASTM-F1083. Gate posts shall be of the following sizes for single swing gates or one leaf of double gates:

<u>Leaf Width</u>	<u>Gate Post</u>	<u>Lbs. /Lin Ft.</u>
Up to 6'	2.875" O.D. Pipe	5.79

- E. Gate Frames: Gate frames shall be tubular shaped, 1.90" outside diameter with welded or steel fitted corners. Braces and trusses shall be furnished when necessary.
- F. Stretcher Bars: One piece lengths equal to full height of fabric with a minimum cross-section of 3/16 inch by 3/4 inch. Provide stretcher bars for each gate, end, corner and pull posts.
 - 1. Stretcher bar bands and clips: Heavy pressed steel or malleable iron.

2.03 GATES

- A. Fabrication: Assemble gate frame by welding connections. Use same fabric as for fence. Install fabric with stretcher bars at edges. Attach stretcher bars to gate frame at not more than 15 inch o.c. Attach hardware with rivets or by other means that will provide security against removal or breakdown.
 - 1. Bracing: Provide diagonal cross-bracing consisting of 3/8 inch diameter adjustable length truss rods on gates where 4 sided tension rods are not used. Provide frame rigidly without sag or twist.
- B. Gate Hardware: Galvanize per ASTM A153.
 - 1. Hinges: Pressed steel or malleable iron to suit gate size, non-lift-type, offset to permit 180 degree gate opening. Provide one pair of hinges for each leaf. (Up to 12 ft. ht.)
 - 2. Latch: Forked type to permit operation from either side of gate; provide padlocked eye as integral part of latch.
 - 3. Keeper: Provide keeper for gates, which automatically engages the gate leaf and holds it in the open position until manually released.

2.04 SETTING MATERIALS

- A. Pipe Sleeves: Galvanized "Schedule 40" pipe with I.D. 1/2 inch larger than the O.D. of post, and closed at the bottom with cap or welded plate.

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- B. Grout: Quick set POR-ROK expanding concrete as manufactured by Hallemite Manufacturing Company, Cleveland, Ohio or equal.

PART 3 - EXECUTION

3.01 POST INSTALLATION

- A. Layout:
1. End, Corner and Pull Post: Provide at termination and change in horizontal or vertical direction of 30 degrees or more.
 2. Line Posts: Space uniformly at approximately 8 feet on center.
- B. Concrete Set Posts: (Corner, End, and Pull Posts) Drill holes (after final grading) in firm, undisturbed or compacted soil. Holes shall have a diameter equal to 4 times the diameter of the post, and depths approximately 6 inches deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads.
1. Set post not less than 36 inches below when in firm, undisturbed soil.
 2. Place concrete around posts in a continuous pour, tamp for consolidation. Trowel finish tops of footings, and slope or dome to direct water away from posts, except at tennis courts, backstops and walks.
 3. Gate posts and hardware: Set keepers, stops, sleeves and other accessories into concrete.
- C. Wall-Set Posts: Vertical posts shall be set into built-in steel pipe sleeves extending into concrete or masonry walls at least 16 inches deep. Fill joint between vertical posts and sleeve.
- D. Check each post for vertical and top alignment and hold in position during placement and finishing operations.

3.02 BRACING AND FRAMING

- A. Top Rails:
1. Random length, averaging not less than 18 feet.
 2. Pressed steel sleeve joints, for rigid connections and expansion/contraction.

3.03 FABRIC INSTALLATION

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- A. Tension Wire: Provide tension line at bottom of fabric. Install tension wires before stretching fabric and tie to each post with ties or clips. Attach to fabric with hog rings 24 inches o.c.

- B. Fabric: Install fabric on security side of fence, and attach to framework so that fabric remains in tension after pulling force is released. Pull fabric taut and tie to posts, rails, and tension wires. Leave approximately 2 inches between finish grade and bottom selvage, except where bottom of fabric extends into concrete.
 - 1. Ties: Fabric to rails and braces at 24 inches o.c. and line posts at 14 inches o.c.
 - 2. Hot Rings: Attach fabric to tension lines at 24 inches o.c.

- C. Stretcher Bars: Extend through fabric and secure to end, corner, pull and gate posts with bands or clips spaced not over 15 inches o.c.

3.04 ACCESSORIES

- A. Tie Wires: Use U-shaped clip or wire, securely fastened around pipe clasp pipe and fabric firmly. Bend ends of wire to minimize to persons or clothing.

- B. Fasteners: Install nuts for tension band and hardware bolts on side of fence opposite fabric side.

- C. Bolts: Used in the construction of fence shall be thoroughly peened.

3.05 GATES

- A. Install gates plumb, level and secure for full opening without interference.

- B. Adjust hardware for smooth operation and lubricate where necessary.

3.06 CLEANING

- A. Clean work area under provisions of BID document "ADDITIONAL REQUIREMENTS"

END OF SECTION

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7. Provide forty (40) 6'- 8' high large emerald green arborvitaes on front and side of Mod 1 as well the fenced MOD 2/3 generators. Planting shall be a minimum of 4' from face of generator or fence. Plantings shall comply with the following:
 - a. Planting shall follow the detail specifications in attached DIAGRAM 7(a)
 - b. Planting season shall be no later than October 1st and no earlier than May 1st.
 - c. Plantings to include bed application of three (3") inches of pine mulch.
 - d. All plantings will be guaranteed for a period of one (1) year from the date of substantial completion.

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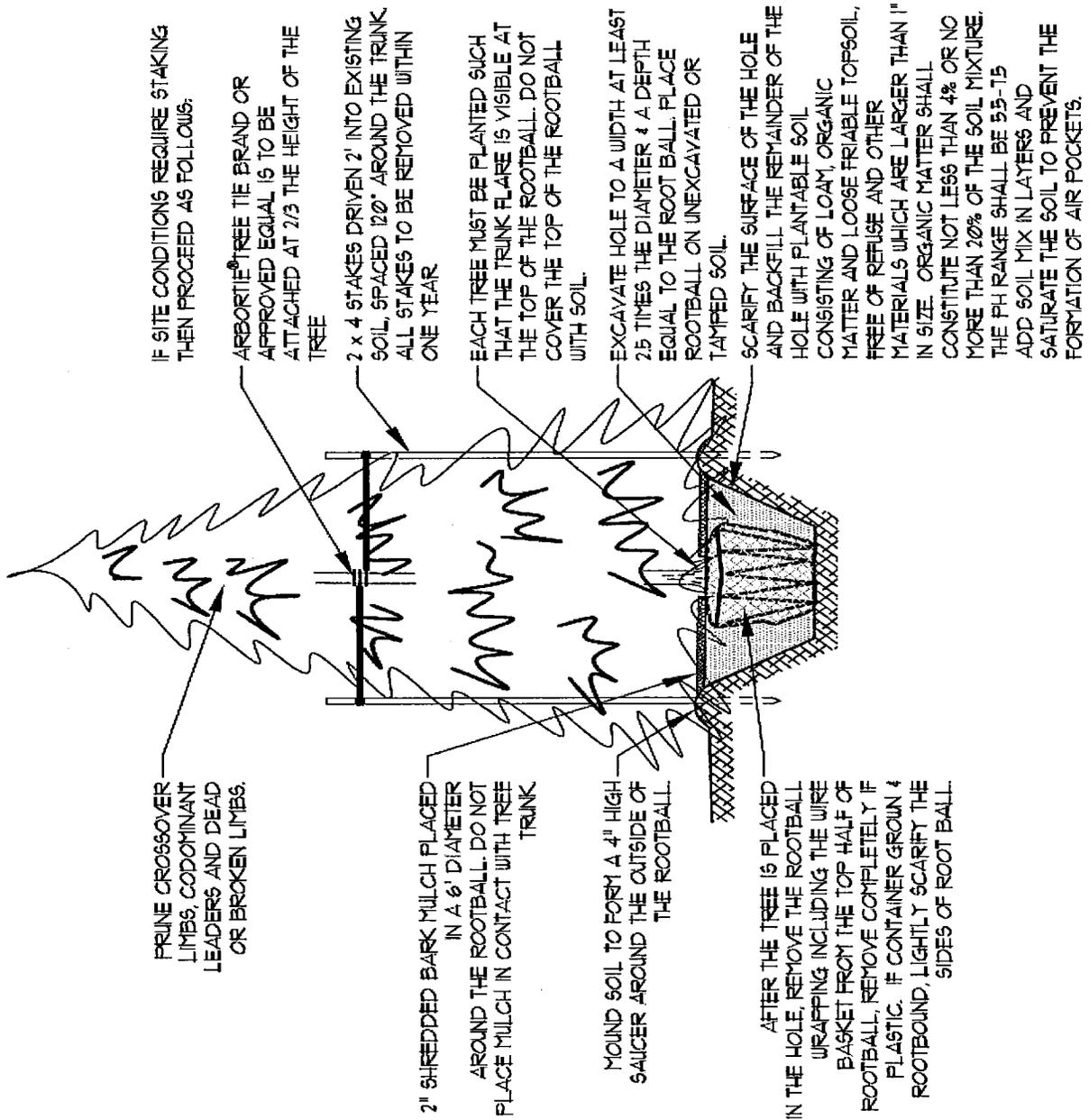


DIAGRAM 7 (a)