

**Lee County Board Of County Commissioners
Agenda Item Summary**

Blue Sheet No. 20051773

1. ACTION REQUESTED/PURPOSE: Approve and authorize the Chairwoman to sign Change Order No. 3 to the Professional Service Agreement (PSA) with Burns and Roe Enterprises, Inc. (Lee Contract No. 2821) providing for additional design work required for the WTE expansion project as contemplated by the PSA. Total Change Order amount is \$51,883.00.

2. WHAT ACTION ACCOMPLISHES: Provides the required analysis and engineering design for reinforcing certain foundation and structural steel elements at the existing waste to energy facility.

3. MANAGEMENT RECOMMENDATION: Staff recommends approval of the requested motion.

4. Departmental Category: 8

C8E

5. Meeting Date: 12-20-2005

6. Agenda:
 Consent
 Administrative
 Appeals
 Public
 Walk-On

7. Requirement/Purpose: (specify)
 Statute
 Ordinance
 Admin. Code AC 4-4
 Other

8. Request Initiated:
 Commissioner _____
 Department Public Works
 Division Solid Waste
 By: Lindsey J. Sampson

Lindsey J. Sampson

9. Background:

The Professional Service Agreement with Burns and Roe Enterprises contemplated the need for structural analysis and engineering design for reinforcing of certain foundations and structural steel components at the existing facility. Particularly, these foundations, columns and beams are for the support of the new (additional) combustion unit. An estimate or allowance of the work required was not included in the original Service Agreement because it was not known at the time what the new (physical) loads would be that would require support by the existing structure. Now that information has been provided by the boiler vendor, this design work can be completed.

Funds are available in Account: 20092340102.506510, Solid Waste Processing Equip. – SW Mgmt – Professional Services

Attachments: Change Order No. 3 (Form)

10. Review for Scheduling:

| Department Director | Purchasing or Contracts | Human Resources | Other | County Attorney | Budget Services | | | | County Manager/P.W. Director |
|---------------------|-------------------------|-----------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------------------|
| | | | | | Analyst | Risk | Grants | Mgr. | |
| <i>[Signature]</i> | <i>[Signature]</i> | N.H. | | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |

11. Commission Action:

- Approved
- Deferred
- Denied
- Other

RECEIVED BY COUNTY ADMIN: *[Signature]*
 12-8-05
 11:28
 COUNTY ADMIN FORWARDED TO: *[Signature]*
 12/8/05

Rec. by CoAtty
 Date: 12/8/05
 Time: 10:40 AM
 Forwarded To: *[Signature]*
 12/8/05 11:25 AM

LEE COUNTY PROFESSIONAL SERVICE/SERVICE PROVIDER AGREEMENT
CHANGE ORDER/SUPPLEMENTAL TASK AUTHORIZATION

Change Order
 Supplemental Task Authorization

NO.: 3

(A Change Order or Supplemental Task Authorization Requires Approval by the Department Director for Expenditures Under \$25,000 or Approval by the County Manager for Expenditures Between \$25,000 and \$50,000 or Approval by the Board of County Commissioners for Expenditures over \$50,000)

CONTRACT/PROJECT NAME: Design, Engineering & Procurement Services for the WTE Expansion Project

CONSULTANT: Burns & Roe Enterprises, Inc.

PROJECT NO.: CIP 200923

SOLICIT NO.: CN 04-02

CONTRACT NO.: 2821

REQUESTED BY: Lee County

DATE OF REQUEST: October 1, 2005

Upon the completion and execution of this Change Order or Supplemental Task Authorization by both parties the Consultant/Provider is authorized to and shall proceed with the following:

EXHIBIT "CO/STA-A: SCOPE OF PROFESSIONAL SERVICE: DATED: 11/15/05
EXHIBIT "CO/STA-B: COMPENSATION & METHOD OF PAYMENT: DATED: 11/15/05
EXHIBIT "CO/STA-C: TIME AND SCHEDULE OF PERFORMANCE: DATED: No Change
EXHIBIT "CO/STA-D: CONSULTANT'S/PROVIDERS ASSOCIATED
SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: No Change
EXHIBIT "CO/STA-E: PROJECT GUIDELINES AND CRITERIA: DATED: No Change

It is understood and agreed that the acceptance of this modification by the CONSULTANT/PROVIDER constitutes an accord and satisfaction.

RECOMMENDED:

By: [Signature] 12/7/05
Date
Department Director

ACCEPTED:

By: _____
Consultant/Provider
(Print Name)

COUNTY APPROVAL:

By: _____
Department Director
(Print Name)
(Under \$25,000)

By: [Signature] 12/8/05
Date
Contracts Mgmt

Date Accepted: _____

Date Approved: _____

Corporate Seal

APPROVED:

By: _____
*County Attorney's Office Date

By: _____
County Manager (Between
\$25,000 and under \$50,000)
Date Approved: _____

*County Attorney signature needed
for over Board level expenditures only.

By: _____
Chairman
Board of County Commissioners
Date Approved: _____

____ SUPPLEMENTAL AGREEMENT No. ____ (continued)
or
X CHANGE ORDER AGREEMENT No. 3 (continued)

EXHIBIT "S/COA-A"
Date: Nov. 15, 2005

SCOPE OF SERVICES for Design, Engineering & Procurement Services for the WTE
Expansion Project

SECTION 1.00 SUPPLEMENT(S) TO, OR CHANGE(S) TO
PROFESSIONAL SERVICES

The "Scope of Professional Services" as set forth in Exhibit "A" of the Professional Services Agreement, or Service Provider Agreement, referred to hereinbefore is hereby supplemented, or changed, so that the CONSULTANT, or SERVICE PROVIDER, shall provide and perform the following professional services, tasks, or work as a supplement to, or change to, the scope of services previously agreed to and authorized:

Task CO3-1. Provide detailed engineering and design services related to the analysis and reinforcing of various foundations and structural steel members along column line G at the County's waste to energy facility. (See B&R Letter dated 11/1/05 and PCN No. 2, attached).

CHANGE ORDER AGREEMENT No. 3
or
 SUPPLEMENTAL TASK AUTHORIZATION No. _____

EXHIBIT "CO/STA-B"

Date: 11/15/05

COMPENSATION AND METHOD OF PAYMENT

For Design, Engineering & Procurement Services for the WTE Expansion Project

SECTION 1.00 CHANGE(S) IN COMPENSATION

The compensation the CONSULTANT, or SERVICE PROVIDER, shall be entitled to receive for providing and performing the supplemented, changed or authorized services, tasks, or work as set forth and enumerated in the Scope of Services set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto shall be as follows:

NOTE: A Lump Sum (L.S.) or Not-to-Exceed (N.T.E.) amount of compensation to be paid the CONSULTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "S/COA-A". In accordance with Professional Services Agreement Article 5.03(2) "Method of Payment", tasks to be paid on a Work-in-Progress payment basis should be identified (WIPP).

| Task Number | Task Title | Amount of Compensation | Indicate Basis of Compensation LS or NTE | If Applicable Indicate (W.I.P.P.) |
|-------------|---|------------------------|---|--------------------------------------|
| CO3-1 | Add'l. engineering, analysis, and design for foundations and structural elements along and near column line G of the WTE facility | \$51,883.00 | LS | WIPP |
| TOTAL | | \$51,883.00 | LS | |

(Unless list is continued on next page)



Burns and Roe Enterprises, Inc.

600 Kinderkamack Road, Oradell, New Jersey 07649
Tel: (201) 261-2000 NY 211 563 7797

November 1, 2005
BREI/LC LTR-009

VIA FED EX

Mr. Lindsey J. Sampson
Director, Solid Waste Division
Lee County
Board of County Commissioners
10500 Buckingham Road
Fort Meyers, FL 33905

**Subject: Lee County Waste to Energy Facility
Proposal: Design Reinforcement of Columns and Foundations @ Col. Line G**

Dear Mr. Sampson:

In accordance with our Professional Service Agreement, we offer the attached additional work to reinforce the columns and foundations at Column Line G to accept the additional loads imposed thereon by the Unit 3 boiler, for the firm lump sum price indicated thereon.

Please note this additional Work is excluded from our current scope (Reference PSA Exhibit A, Articles 1A, page A-5 and 2B, page A-13; copies attached for reference). Our analysis of the additional imposed loads on the existing columns at G indicates those columns and their associated foundations will require reinforcement. Please also note that we have provided preliminary sketches of the reinforcement scheme to the General Contract bidders, to ensure their pricing encompasses this additional Work (see attached sketches).

The total price for the above-described work is \$51,883.00 (please refer to attached Pricing Sheet). The work can be completed within 30 days of approval.

Should you wish to discuss this matter, or require additional information, please let me know.

Sincerely,

Burns and Roe Enterprises, Inc.
Glenn A. Fontana
Project Manager

GF:ps

Enclosures

Lee County WTE Expansion Project
 Project Change Notice (PCN) # **2**
 Reinforcement of Existing Column Line G

PROPOSAL PRICING

| Discipline | Rate (\$/Mhr) | Man-hours | Cost |
|----------------------------------|------------------|-----------|--------|
| Civil/Structural Engrg | 106.15 | 315 | 33,437 |
| Civil/Structural Design/Drafting | 81.50 | 172 | 14,018 |
| Subtotal | | 487 | 47,455 |
| CADD @ \$2.25/E&D Hr. | 2.25 | 487 | 1,096 |
| Reproductions @ \$1.05/MHr | 1.05 | 487 | 511 |
| Communications @ \$0.87/MHr | 0.87 | 487 | 448 |
| Contingency @ 5% | | | 2,373 |
| Total | | 487 | 51,883 |

- ! Review and analyze contractor/vendor change orders and claims related to Engineer's drawings and specifications in order to determine validity of scope, quantities, cost, etc., and in order to evaluate impact, if any, on the balance of the Expansion Project.
- ! Interpretation, review and checking of drawings, specifications, test reports, inspection data, and technical data prepared by the County's other consultants (i.e., geotechnical consultant, water chemistry specialists, acoustical engineer, site surveyor, etc.) and by County Contractor(s) and their Subcontractors.
- ! Review all vendor drawings (including County-Furnished equipment and County Contracts, if any) for design intent, design coordination, interfaces, compliance with specifications, etc.
- ! Assist the County in development of documents for procuring local building permits and certifications for existing State and/or Federal permits required for the Expansion Project. Engineer shall not contact officials of permitting agencies without the prior written approval of the County.
- ! Prepare any additional descriptions, calculations, drawings, specifications, flow sheets, etc., as may be periodically required by various permitting and regulatory agencies, or, the County's or Covanta's insurance carrier(s).
- ! Develop responses to County or Covanta questions and requests for clarifications associated with Engineer's technical Scope.
- ! Engineer shall not assign or pass along any Services or engineering activities of any kind to consultants, subcontractors, equipment suppliers, County Contractor(s) or any other organization without being directed to do so or without having prior written approval from the County or Covanta.
- ! The Engineer shall perform all necessary field measurements and studies to confirm the existing Facility drawings and perform the required development of complete plans, drawings, specifications, installation instructions, operating procedures showing all necessary details as to how the Facility's building, equipment, piping, conduit, ducts, electrical trays, instrumentation, etc. will be demolished, brace and supported (both temporary and permanent), modified (including tie-ins), weather proofed, relocated to ensure operation of the Facility at full capacity at all times during the Expansion.
- ! Engineer shall perform all necessary studies of steel framing and foundations of existing works to determine adequacy of newly imposed loading conditions. Modifications to suit new construction including temporary bracing/structures to sustain construction loads and erection sequencing shall be subject to a change order.
- ! Design Engineer shall provide all necessary studies and support to optimize the Expansion Project layout relative to impacts on the existing Facility.

By others:

h:\data\lpacheco\Vol 2\EXHF.doc

2. CIVIL/STRUCTURAL DESIGN

2A. Civil Design

Engineer is responsible for the full development of the civil design and integration of the Expansion Project into the existing Facility including the preparation of design calculations, construction drawings & specifications for the geotechnical investigation program, demolition (including considerations for hazardous material (e.g., asbestos) removal, as identified by the County), site preparation, finished grading, roads, P.C. concrete and/or asphaltic concrete paving, surface and underground drainage systems, preliminary erosion and sediment control plan for permit application, cooling tower basin, diversion boxes, oil/water separators, weirs, outfalls, transformer area fences and gates, retaining walls, beams, dikes, oil spill containment for outdoor electrical equipment containing oil, sewage system, lift station, underground fire protection loop, hydrants, duct banks, electrical manholes, relocation/protection of existing facilities/utilities. Site layout drawings shall be developed in accordance with the general arrangements.

Engineer shall specify and County will provide all required subsurface investigations, topographical and boundary surveys and hazardous waste material survey and abatement.

Engineer shall specify and County will provide for the final subsurface investigation, all required laboratory analyses, and all recommendations for foundation design in addition to those which may already have been provided by the County or Covanta.

Engineer shall be responsible for the design of final grading of non-paved areas on the site. Final grading topography and areas for seeding shall be indicated on the civil drawings. Specifications on grading operations and seeding shall be provided for use by County Contractor(s) to prevent erosion during construction.

2B. Concrete Design

Engineer is responsible for the full development of the concrete design for the Expansion Project including the preparation of design calculations, construction drawings and specifications for building and equipment foundations, switchyard foundations, piling and pile caps (if required), substructures, elevated structures and slabs, grade beams, basins, walls, pits, manholes, slabs-on-grade, pads and foundations for electrical and piping, trenches, precast concrete, sidewalks, culvert head walls, roadways, grout and other miscellaneous concrete, embedments and related accessories as well as integration of the Expansion Project into the existing Facility. Work associated with reinforcing/modifying existing foundations/concrete design, if required, shall be subject to a change order.

*

2C. Steel Design

Engineer is responsible for the full development of steel design for the Expansion Project including preparation of calculations, specifications and drawings for steel fabrication and erection and for establishing design criteria, engineering standards and use of computer analyses to determine the most economical column/beam framing arrangement. Analysis shall address vibration, fatigue, thermal, seismic, wind and other forces influencing supporting steel and equipment. Steelwork

