

**RESOLUTION 09-04**

**A RESOLUTION TO ACCEPT THE PROPOSAL OF CONSOLIDATED TECHNOLOGIES INCORPORATED FOR PROFESSIONAL ENGINEERING SERVICES TO ASSIST IN THE DEVELOPMENT OF AN EXPANSION AND TECHNOLOGICAL UPGRADE FOR THE WASTEWATER TREATMENT PLANT**

**WHEREAS**, there is a critical need for improvement and expansion of the Spring Hill Wastewater Treatment Plant; and

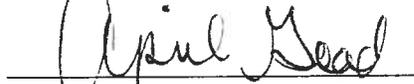
**WHEREAS**, the City of Spring Hill has advertised Requests for Proposals for this project from qualified professional engineering firms and were submitted, on or before 10:00 a.m., October 24, 2008; and

**NOW, THEREFORE BE IT RESOLVED**, that the Board of Mayor and Aldermen accept the recommendation of City Staff and begin negotiations with Consolidated Technologies, Inc. for professional engineering services. Such amount shall be brought back to the Board of Mayor and Aldermen for approval and ratification of that negotiated amount at a future public meeting.

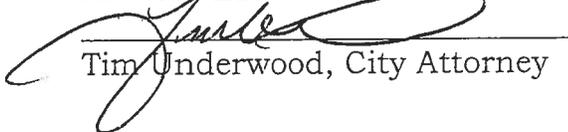
**Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, this 17th day of February, 2009.**

  
Danny M. Leverette, Mayor

ATTEST:

  
April Goad, City Recorder

APPROVED AS TO FORM:

  
Tim Underwood, City Attorney

CITY OF SPRING HILL WASTEWATER TREATMENT PLANT EXPANSION ENGINEERING PROPOSALS  
RECEIVED OCTOBER 24, 2008  
SUMMARY OF EVALUATIONS

| Engineering Firms                 | Max pts 10<br>Firm History and Resources |   |   |   |   | Max pts 25<br>Methodology |    |    |    |    | Max pts 25<br>Experience on Similar Contracts & Projects |    |    |    |    | Max pts 20<br>Specialized Expertise of Team Members |    |    |    |    | Max pts 20<br>Time to Complete & Construction Cost |    |    |    |    | Max pts 100<br>TOTAL | Interview Ranking |
|-----------------------------------|--|---|---|---|---|---------------------------|----|----|----|----|--|----|----|----|----|---|----|----|----|----|--|----|----|----|----|----------------------|-------------------|
|                                   | J  | S | M | G | D | J                         | S  | M  | G  | D  | J  | S  | M  | G  | D  | J   | S  | M  | G  | D  | J  | S  | M  | G  | D  |                      |                   |
| Black & Veatch                    | 9  | 8 | 9 | 6 | 9 | 22                        | 18 | 20 | 25 | 24 | 22   | 22 | 20 | 25 | 24 | 18  | 16 | 18 | 16 | 24 | 14   | 15 | 16 | 8  | 13 | 421                  |                   |
| Civil & Environmental Consultants | 8  | 6 | 7 | 8 | 7 | 18                        | 13 | 14 | 25 | 19 | 20   | 11 | 15 | 10 | 15 | 16  | 12 | 16 | 8  | 19 | 11   | 13 | 16 | 8  | 17 | 332                  |                   |
| Consolidated Technologies         | 9  | 9 | 9 | 8 | 8 | 23                        | 23 | 20 | 25 | 23 | 23   | 23 | 20 | 25 | 21 | 19  | 18 | 17 | 12 | 23 | 19   | 17 | 17 | 16 | 20 | 447                  |                   |
| Ensafe                            | 8  | 8 | 7 | 7 | 6 | 20                        | 18 | 16 | 20 | 20 | 19   | 19 | 18 | 20 | 17 | 18  | 16 | 16 | 16 | 18 | 17   | 16 | 16 | 16 | 16 | 388                  |                   |
| Fisher & Arnold                   | 4  | 7 | 7 | 6 | 6 | 15                        | 13 | 15 | 15 | 15 | 15   | 13 | 16 | 15 | 20 | 15  | 12 | 15 | 12 | 15 | 14   | 13 | 15 | 16 | 18 | 327                  |                   |
| Griggs & Maloney                  | 7  | 6 | 8 | 5 | 7 | 17                        | 12 | 16 | 15 | 20 | 17   | 13 | 18 | 10 | 18 | 16  | 12 | 14 | 8  | 20 | 15   | 13 | 17 | 12 | 19 | 335                  |                   |
| Hatch Mott MacDonald              | 5  | 7 | 9 | 5 | 7 | 17                        | 17 | 20 | 25 | 22 | 16   | 17 | 18 | 20 | 21 | 14  | 12 | 17 | 16 | 16 | 12   | 14 | 14 | 16 | 13 | 370                  |                   |
| Smith Seckman Reid                | 8  | 9 | 9 | 9 | 8 | 19                        | 23 | 20 | 25 | 20 | 19   | 23 | 20 | 25 | 21 | 17  | 17 | 17 | 20 | 16 | 10   | 16 | 16 | 16 | 12 | 415                  |                   |

Committee

J=J.McCord, J. Vrdoljak, J.Foster  
S=Jim Smith  
M=Travis Massey  
G= Caryl Giles  
D=Jerome Dempsey

Engineering Fee for Design

(PER/Design/Bld/Constr Adm)

Black & Veatch Alternative 1: \$2,168,300.00 Alternative 2: \$2,391,700.00  
Civil & Environmental Consultants \$1,070,190.00  
Consolidated Technologies \$1,108,000 (based on construction cost of \$13,000,000.00) Design fee will vary up or down dependent on actual construction cost  
Ensafe (teaming with J.R. Wauford) \$923,000.00  
Fisher & Arnold \$1,750,000.00 - \$2,250,000.00  
Griggs & Maloney \$1,367,500.00 + an additional of \$245,000.00 for O & M Manuals, Start-up, Facilities plan for SRLF and Expenses for travel  
Hatch Mott MacDonald PER \$151,250.00 with design of the WWTP in accordance with ASCE Manual 45 \$1,387,200 to \$1,722,000 for \$24,000,000 to \$30,000,000 construction cost  
Smith Seckman Reid \$1,566,075.00 for engineering plus \$365,925 for construction representative

Time to Complete Project

(Pre Engr Rpt/Design/Bld)

Black & Veatch 286 days design+ 463 days for construction and construction administration  
Civil & Environmental Consultants 328 days design + 220 days for construction and closeout documents  
Consolidated Technologies 18 months (182 days) design + 19 months (396 days) for construction administration and resident project representation  
Ensafe (teaming with J.R. Wauford) 395 days (includes advertise for bids and evaluation of bids) + 570 days for construction phase + 180 days for operation phase= 1,140 days (38 months)  
Fisher & Arnold 3.0 years - 3.5 years  
Griggs & Maloney 22 months  
Hatch Mott MacDonald 21 months (Preliminary Engineering Report/Design/Permitting/Bidding) + 22 months for Construction and Project Closeout = Total 43 months  
Smith Seckman Reid 18 months

Construction Administration Services  
(Included in the above Lump Sum Fee)

Black & Veatch

Civil & Environmental Consultants

Consolidated Technologies

Ensafe (teaming with J.R. Wauford)

Fisher & Arnold

Griggs & Maloney

Hatch Mott MacDonald

Smith Seckman Reid

Alternative 1: \$505,000.00 Alternative 2: \$606,000.00

\$496,580.00 (includes Construction Services and Project Closeout)

\$372,440.00 (based on 18 month project construction time) will increase if a 24-month construction time is determined to be allowed

\$325,000.00 (includes \$25,000 for start-up and Operations and Maintenance)

cost not itemized or broken out from the total engineering fee cost

\$525,000.00 (includes Construction Phase Services and Resident Inspection) + \$135,000 for O&M Manual and Start-up Assistance/Training

Not Listed

\$365,925.00

Construction Cost Estimate/Time

Black & Veatch

Civil & Environmental Consultants

Consolidated Technologies

Ensafe (teaming with J.R. Wauford)

Fisher & Arnold

Griggs & Maloney

Hatch Mott MacDonald

Smith Seckman Reid

Alternative 1: \$20,496,000.00 Alternative 2: \$25,075,000.00 (463 days)

\$25,674,038.00 (listed 160 days for construction and 60 days for construction documents)

\$13,000,000.00 (engineer has indicated this cost could vary)/(19 months/(396 days)

\$10,530,000.00

\$15,000,000.00 - \$20,000,000.00/construction time not itemized or broken out separately

\$14,000,000.00- \$18,000,000.00/21 months with an additional 2 month start-up time

\$24,000,000 to \$30,000,000 highlighted in ASCE Compensation Schedule

\$27,315,200.00

# WASTEWATER PLANT EXPANSION BID SUBMITTALS

## COMPANIES SELECTED FOR INTERVIEW:

BLACK & VEATCH CORPORATION (SHANNON LAMBERT)  
CONSOLIDATED TECHNOLOGIES INC (JOSEPH BISHOP & DUDNEY FOX)  
ENSAFE INC (THOMAS GREEN, JR)  
SMITH SECKMAN REID INC (MICHAEL BERNARD)

## COMPANIES NOT SELECTED:

CIVIL & ENVIRONMENTAL CONSULTANTS INC (WES ROBINSON & DENNIS PURSCHWITZ)  
FISHER & ARNOLD INC (JAMES COX)  
GRIGGS & MALONEY INC (WILLIAM GRIGGS)  
HATCH MOTT MACDONALD (FRAZIER CHRISTY)



## PROPOSED COST OF SERVICES

CTI proposes the following fees for the Spring Hill Wastewater Treatment Plant Project, based upon the detailed budget breakdown on the previous page:

|                                 |             |
|---------------------------------|-------------|
| Project Management              | \$71,320    |
| Design Development Report       | \$50,160    |
| Detailed Design                 | \$540,300   |
| Bidding Assistance              | \$28,780    |
| Construction Administration     | \$204,440   |
| Subtotal                        | \$895,000   |
| Other Subconsultants            | \$45,000    |
| Subtotal                        | \$940,000   |
| Resident Project Representation | \$168,000   |
| Total Fee Proposal              | \$1,108,000 |

This is based on a complete project with an estimated construction cost of \$13 million at the completion of the design development phase. CTI reserves the right to propose an adjustment to the engineering fee, up or down, as a result of the final scope of work indicated at completion of the design development report. For example, a \$12 million project would result in a reduction in design fees of approximately \$40,000. A \$15 million project would result in an increase in design fees of approximately \$80,000. We propose that the detailed design component of the overall project fees be "re-negotiated" at the completion of the design development phase.

In addition, the resident project representation services indicated above are based on an 18-month construction period. Should it be jointly decided to extend the construction period to 24 months, an equitable adjustment would be requested.

Our proposed project schedule follows. It is task specific and consistent with the project cost estimate breakdown. CTI's hourly rate schedule for 2008 is also attached.

**CITY OF SPRING HILL  
WASTEWATER TREATMENT PLANT  
EXPANSION AND UPGRADE**

**PROJECT SCHEDULE**

| TASKS                              | 2008 |   |   | 2009 |   |   |   |   | 2010 |   |   |   |   | 2011 |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|------|---|---|------|---|---|---|---|------|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                    | O    | N | D | J    | F | M | A | M | J    | J | A | S | O | N    | D | J | F | M | A | M | J | J | A | S | O | N |
| 1. Project Management              |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| 2. Design Development Report       |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| 3. Detailed Design                 |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| 4. Bidding Assistance              |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| 5. Construction Administration     |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| 6. Resident Project Representation |      |   |   |      |   |   |   |   |      |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |