

LEE COUNTY BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

BLUE SHEET NO: 2003 0518

1. REQUESTED MOTION:

ACTION REQUESTED: Approve Supplemental Task Authorization No. 9 with Hazen and Sawyer, P.C. at an amount not to exceed \$533,300.00 for engineering, design, permitting, and construction consulting work required for the Lee/Hendry Regional Disposal Facility (landfill), Phase 2 expansion.

WHY ACTION IS NECESSARY: Board approval is required for services exceeding \$50,000.00.

WHAT ACTION ACCOMPLISHES: Provides engineering services for the Phase 2 expansion at the regional landfill. Existing bond funds will be utilized for portions of this project.

2. DEPARTMENTAL CATEGORY: SOLID WASTE
COMMISSION DISTRICT #: CW

C8A

3. MEETING DATE:

05-13-2003

4. AGENDA:

- CONSENT
- ADMINISTRATIVE
- APPEALS
- PUBLIC
- WALK ON
- TIME REQUIRED:

5. REQUIREMENT/PURPOSE:

- (Specify)
- STATUTE
 - ORDINANCE
 - ADMIN. CODE
 - OTHER STA

6. REQUESTOR OF INFORMATION:

- A. COMMISSIONER:
- B. DEPARTMENT: Lee County Public Works
- C. DIVISION/SECTION: Solid Waste Division
- BY: Lindsey Sampson, Solid Waste Director
- DATE:

Lindsey Sampson 4/26/03

7. BACKGROUND:

The Lee/Hendry County Regional Disposal Facility is a multi-phase facility intended to meet current and future County refuse disposal needs. Portions of the Landfill were constructed in 1996, 1997, and 2002, but due to sufficient capacity at Waste Management's Gulf Coast landfill; the facility was not opened until October, 2002. The initial fill area is approximately 12 acres and has capacity for up to three years. Construction phases will continue every 5 to 10 years.

The next construction phase will include a fill area of from 12 to 17 acres and should begin the third calendar quarter of 2004. Detail design drawings and specifications for construction, will be provided by the Consultant, along with (DEP) construction permit services. Construction will include a borrow pit, fill, roadways, liner, and leachate collection systems.

Funds will be available in CIP Project No. 20092440130
20092440130.506510
Lee/Hendry Landfill Ph II (CIP) - SW S95 Construction -Professional Services

8. MANAGEMENT RECOMMENDATIONS:

9. RECOMMENDED APPROVAL

A DEPARTMENT DIRECTOR	B PURCH. OR CONTRACTS	C HUMAN RESOURCES	D OTHER	E COUNTY ATTORNEY	F BUDGET SERVICES				G COUNTY MANAGER
					OA	OM	Risk	GC	
<i>Jamund</i> 4.28.03	<i>[Signature]</i> 4/28/03	N/A		<i>[Signature]</i> 4/29/03	<i>[Signature]</i> 4/30/03	<i>[Signature]</i> 4/30/03	<i>[Signature]</i> 4/30/03	<i>[Signature]</i> 4/30/03	<i>Jamund</i> 4/28/03

10. COMMISSION ACTION:

- APPROVED
- DENIED
- DEFERRED
- OTHER

Rec. by CoAtty
Date: 4/29/03
Time: 1:00 PM
Forwarded To: Budget
4/29/03 2:25pm

RECEIVED BY
COUNTY ADMIN. *EW*
4/29/03 1:00
COUNTY ADMIN.
FORWARDED TO:
5/1 11:00

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

Change Order
 Supplemental Task Authorization

NO.: 9

(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: Lee / Hendry County Landfill Phase II Expansion

CONSULTANT: Hazen & Sawyer

PROJECT NO.: _____

SOLICIT NO.: CN-92-04 CONTRACT NO.: 421

ACCOUNT NO.: _____

REQUESTED BY: Lee County

DATE OF REQUEST: 4/25/03

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: 4/25/03

EXHIBIT "CO/STA-B: COMPENSATION & METHOD OF PAYMENT: DATED: 4/25/03

EXHIBIT "CO/STA-C: TIME AND SCHEDULE OF PERFORMANCE: DATED: 4/25/03

EXHIBIT "CO/STA-D: CONSULTANT'S/PROVIDERS ASSOCIATED
SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: 4/25/03

EXHIBIT "CO/STA-E: PROJECT GUIDELINES AND CRITERIA: DATED: 4/25/03

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

RECOMMENDED:

ACCEPTED:

COUNTY APPROVAL:

By: [Signature] 4/24/03
Department Director Date

By: _____
Consultant/Provider

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

By: [Signature] 4/28/03
Contracts Mgmt Date

Date Accepted: _____

Date Approved: _____

Corporate Seal

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

APPROVED:

By: _____
*County Attorney's Office Date

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

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

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 9

EXHIBIT "CO/STA-A"

Date: 4/25/03

SCOPE OF PROFESSIONAL SERVICES

for - Lee / Hendry Landfill Phase II Expansion

SECTION 1.00 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, changed or authorized, so that the CONSULTANT or SERVICE PROVIDER, shall provide and perform the following professional services, tasks, or work as a supplement to, change to, or authorized to, the scope of services previously agreed to and authorized:

The Supplemental Scope of Services is included in Attachment No. 1 attached hereto.

~~DRAFT~~

ATTACHMENT NO. ~~XX~~¹ TO EXHIBIT ~~XXX~~^A
SCOPE OF ENGINEERING SERVICES
LEE/HENDRY COUNTY REGIONAL DISPOSAL FACILITY –
DESIGN OF PHASE 2 LANDFILL EXPANSION

Background

The Lee/Hendry County Regional Disposal Facility (Landfill) is a multi-phase facility intended to meet current and future County refuse disposal needs. The Phase 1A/1B disposal area (13-acres) was constructed in 1997, and was placed in service in late 2002. This initial phase is expected to provide as much as three years of disposal capacity at current and projected refuse generation rates. According to recent service life computations conducted by COUNTY staff, the Phase 1A/1B disposal area will be at capacity by March 2006. An expansion of the disposal area must be designed, permitted and constructed by early 2006.

The entire site was included in the original Florida Department of Environmental Protection (FDEP) Permit (submitted in 1993 and revised in 1999), but detailed design was completed only for the Phase 1A/1B area constructed in 1997. For purposes of this proposal it is assumed that the general lines and grades for disposal areas included in the 1993 Permit will be maintained for this expansion. In this way, the design for Phase 2 may be considered as a permit modification intended to reflect the inclusion of additional disposal area.

Therefore, Hazen and Sawyer (hereinafter referred to as CONSULTANT) shall provide engineering services to Lee County (hereinafter referred to as COUNTY) for the completion of the Phase 2 expansion design. The proposed scope of services for this project is based upon conversations with County staff, FDEP permit requirements, and our experience with the design, the project site and completed construction. The scope is broken into seven tasks, and each task is described in detail below:

Task 1 – General Site and Roadway Design

An aerial topographic survey of the entire Lee/Hendry Regional Disposal Facility was obtained prior to preparation of the 1993 Permit Application. The CONSULTANT does not anticipate that a new or updated aerial topographic survey is required for this project. However, according to FDEP regulations, a recent aerial photograph of the permit area (one-mile and five-mile vicinity maps) must be provided with the Application. The CONSULTANT assumes that the COUNTY will provide an updated aerial photograph similar to the one provided for the 1999 Operation Permit Application. CONSULTANT will include updated vicinity maps in the Application.

CONSULTANT will provide design services for temporary and permanent roadways needed to support the expansion. Road alignments for permanent roads will be those from the original Permit. Temporary roads will be designed to accommodate the

anticipated traffic levels and service life. Drainage and surface water management will be incorporated into the road design.

The current SFWMD Permit covers the construction of the entire facility. It is anticipated that the facility stormwater management devices will be designed in accordance with the current Permit, so modification of this permit is not required and is therefore not included in the proposed scope of services.

CONSULTANT will prepare layout and design required for any additional on site soil borrow/stormwater ponds that need to be developed to support construction and operation of Phase 2. This includes the proposed stormwater pond near the leachate ponds. CONSULTANT will conduct evaluations of existing stockpiles for use in construction of the expansion.

Task 2 – Preliminary Design of Expansion Options

The goal of this task is to identify and evaluate landfill expansion options and select the option that best meets the needs of Lee County. The COUNTY currently has three distinct Phase 2 expansion options to be considered. The first is construction of new disposal area to the north of the existing Phase 1A/1B disposal unit currently in operation. The expansion would essentially be a mirror image of the existing unit and would approximately double the total landfill footprint. The capacity of the Phase 2 expansion would represent more airspace than the Phase 1A/1B cell since an expansion would add considerable “overlay” volume over the existing unit.

A second option is to expand the landfill to the west. The size of the expansion would be predicated upon the additional volume and service life desired by the COUNTY. The COUNTY has considerable flexibility in considering a westward expansion. During construction of Phase 1A/1B, preliminary grading was completed on an approximately five acre cell west of the current operating unit. Construction of this portion of the expansion can be completely relatively quickly, especially since no external leachate piping must be installed. This may be a significant advantage to the COUNTY if the current cell is nearly filled to capacity and additional airspace is needed quickly.

Because of the geometry of the existing cell, the “overlay” volume would be considerably less that for a northward expansion (the first option). This means that, for the same expansion area, construction costs are expected to be lower for a northward expansion.

Depending on volume requirements, the COUNTY may also consider a third option, constructing both the five-acre cell to the west of Phase 1 and a horizontal expansion to the north.

As a first step, the CONSULTANT will prepare conceptual designs for expansions to the north and west of Phase 1A/1B. Grading plans for the base and top of refuse will be prepared for both expansion scenarios. From these plans, CONSULTANT will prepare estimates of available airspace, service life and construction cost. The preliminary design

will also include conceptual road layouts, leachate management piping layouts and estimates of soil quantities required for construction. Based upon this information, the CONSULTANT will assist COUNTY in selecting the preferred expansion scenario.

During the preliminary design process, the CONSULTANT will review available groundwater data to verify that the proposed base grading of the expansions meet permit criteria for separation from the groundwater elevation. COUNTY will provide water level readings obtained from existing groundwater monitoring wells.

Task 3 – Detailed Design of Landfill Expansion

The detailed design for the expansion scenario selected by the COUNTY is included in this task. CONSULTANT anticipates that the design of the Phase 2 expansion will resemble the design for Phase 1A/1B which is currently being filled. The barrier layer will be composed of a double-geosynthetic liner constructed over a 6-inch thick buffer layer in accordance with FDEP regulations. Leachate will be collected in independent sumps and conveyed by gravity to the Master Leachate Pump Station. Additional external piping will be required based upon the location and the size of the Phase 2 expansion. Leak Detection Systems will be provided for each cell.

The design of the Phase 2 expansion will be completed on the basis of the following functional components.

- *General Facility Plans* – general site location plans, existing conditions, stormwater plan, monitoring well location plans.
- *Site Preparation* – including excavation, separation from groundwater, and slope stability.
- *Liner/Containment System* – including soil and geosynthetic liner components, leak detection system performance criteria, and details for materials and connections.
- *Leachate Management System* – Leachate collection system within the cell, sump area, and leachate/stormwater separation details.
- *Surface Water Control* – including water conveyance devices (e.g., ditches, culverts, etc.), and erosion control structures such as channel lining and silt fence.
- *Operations Phasing* – includes progression of operation of Phase 2 and tie into Phase 1A/1B. Phasing plans will include leachate and stormwater management and access.
- *Final Cover* – including slopes, grades, access, erosion control, etc. These plans and details are for permitting purposes only and will not be included in construction drawings.

The design will be conducted under the guidelines contained in the Design Criteria Memorandum and in accordance with applicable FDEP regulations. The design will be presented in approximately 35 to 40 (24" x 36") AutoCAD generated drawings. If the COUNTY determines that a combined northward and westward expansion will be included in the Application, additional 3 to 5 drawings are anticipated. The contents and format of the original permit drawings will be maintained to the extent practical. CONSULTANT does not anticipate that drawings associated with structures completed in Phase 1A/1B and previously submitted to FDEP (e.g. Leachate Ponds, pump stations, treatment or operations buildings, etc.) will be included in the drawings submitted for the Phase 2 Application other than to provide location.

CONSULTANT will submit drawings to the COUNTY at the 60 and 90% design levels for review and comment. Design elements for the entire expansion will be presented on construction-ready drawings.

CONSULTANT will prepare detailed technical specifications for elements included in the Phase 2 expansion. Technical specifications will be submitted to the COUNTY for inclusion into Bid Documents. CONSULTANT will submit technical specifications for COUNTY review at the 60 and 90% completion levels. CONSULTANT will prepare a schedule of quantities and Construction Cost Opinion for review in conjunction with COUNTY drawing review.

The CONSULTANT will prepare final cover plans and details for the Phase 2 expansion. Modifications to the Final Cover design submitted to and approved by FDEP in 2002 will be incorporated into the Phase 2 design and further developed as necessary.

Task 4 – Permitting

The scope of engineering services included in this task is related to the preparation of the updated Operation Permit Application as well as meetings and correspondence with FDEP regulatory staff. CONSULTANT will prepare the "Application for a Permit To Construct, Operate, Modify or Close A Solid Waste Facility" ("The Application"), FDEP Form # 62-701.900(1). The Application will reflect the facility construction to date as well as the proposed expansion. Updated vicinity maps and population data (provided by the COUNTY) as well as new and revised engineering calculations and analyses will be included. Permit fees will be the responsibility of the COUNTY.

The 1993 Application data and information updated in 1999 will be used or revised where applicable, including the following items:

- Engineering Report (Construction requirements, Subsurface Investigation, etc.)
- Operation Plan (last updated in 1999)
- Contingency Plan
- Water Quality and Leachate Quality Monitoring

- Landfill Closure
- Long Term Care
- Financial Assurance

CONSULTANT assumes that the hydrogeological and geotechnical investigations prepared for the 1993 Application will be suitable for the Phase 2 expansion. For this reason, no subsurface investigation is included in the scope of services.

The CONSULTANT will meet with FDEP staff at the start of the design process to discuss the project schedule, regulatory requirements and Application contents for the proposed Phase 2 expansion. Additional meetings and written correspondence necessary to confirm submittal requirements or to request additional information will be scheduled as needed throughout the design process. CONSULTANT and COUNTY staff will meet on a monthly basis for coordination and review.

A draft of the complete Application will be submitted to the COUNTY for review. CONSULTANT will provide additional information as needed and incorporate COUNTY comments. Once completed, the COUNTY will submit the Application to the FDEP for review and approval. The CONSULTANT, in conjunction with COUNTY staff, will address FDEP review comments and update Application information as required.

Task 5 – Bidding Assistance

Bid Documents include the Technical Specifications and Construction Drawings for the Phase 2 landfill expansion. For purposes of this proposal, CONSULTANT assumes that Waste Management, Inc. will be responsible for preparation of the “front end” of the construction documents and serve as the Construction Manager, as was the case for the original construction of the facility.

CONSULTANT will provide the COUNTY with reproducible copies of the drawings and Technical Specifications for inclusion in the Bid Documents.

During Bidding, CONSULTANT will assist the COUNTY and COUNTY’S Construction Manager in establishment of the construction schedule and identifying qualified potential bidders. COUNTY will advertise and establish bid requirements. CONSULTANT will provide a total of twenty-five sets of Construction Drawings and Technical Specifications to the COUNTY for distribution to potential Bidders.

CONSULTANT will attend pre-bid meeting and assist COUNTY and Construction Manager in answering Bidder questions, and preparing addenda as required. Once Bids are opened, CONSULTANT will assist the COUNTY and the Construction Manager in review of the Bids. CONSULTANT assumes Construction Manager will prepare final Bid award recommendation to COUNTY and will assist COUNTY in obtaining signed Contract.

Task 6 – Services During Landfill Construction

Due to the design and layout, the COUNTY has some flexibility in the construction of the proposed expansion. Depending on the time available for construction, the volume of refuse to be disposed, and cost considerations, the COUNTY may choose to expand to the north, to the west, or a combination of the two scenarios. All of the expansion may be awarded under a single construction contract, or multiple contracts may be awarded over a period of one to two years.

The size of the expansion, the number of contracts to be awarded, and the time elapsed between contracts significantly influence the cost of engineering services during construction. CONSULTANT proposes to be responsible for Construction Quality Assurance (CQA) during cell construction. COUNTY'S Construction Manager will be responsible for Construction Management during construction. The engineering effort is proportional to the size and complexity of the landfill construction. The scope of services during construction will be consistent for any of the expansion scenarios outlined above. The proposed scope of engineering services during construction and in preparation of the Record Documentation Report is described in this section.

During construction, CONSULTANT will conduct full time comprehensive CQA services. CONSULTANT will work closely with Construction Manager and landfill operations staff throughout construction. CQA testing, monitoring and reporting will be the responsibility of CONSULTANT. During construction, CONSULTANT will provide a Resident Engineer on a full time basis during critical elements of cell construction. This Resident Engineer will coordinate CQA activities and provide the main communications link between COUNTY, Construction Manager and CONSULTANT CQA staff. The Resident Engineer will schedule CQA activities, direct CQA testing and documentation and report nonconforming areas to the Construction Manager. The COUNTY'S Construction Manager will be responsible for verifying payment quantities and reviewing payment requests, negotiating change orders where necessary and monitoring construction progress and needs.

CONSULTANT will subcontract with a local Registered Professional Surveyor to verify landfill and support structure footprints established by the contractor. The contractor will be responsible for day-to-day location and level surveys, but CONSULTANT will use its subcontract surveyor to periodically check the contractor's results and perform CQA verification for Record Documentation.

CONSULTANT will conduct CQA activities to assure that the landfill construction is completed in accordance with the approved plans and specifications. CONSULTANT will provide CQA testing and monitoring personnel on a full time basis during construction of critical landfill elements. CQA personnel will report to the CONSULTANT'S Resident Engineer and will monitor construction of critical landfill elements, including:

- Structural Fill for Landfill Support, including subgrade preparation, classification and density testing,
- Buffer Soil, including classification, hydraulic conductivity, moisture content, density, and thickness,
- Geomembranes and Leak Detection System, including geosynthetic conformance testing, detailed subgrade, sheet and seam monitoring, seam testing, and repairs,
- Leachate Collection System, including classification testing of natural drainage media, geosynthetic drainage media evaluation and monitoring and testing of piping
- Operational Cover, including testing for classification and thickness
- Piping and Connections, and
- Monitoring Wells (installed by contractor).

CONSULTANT'S CQA personnel will test and evaluate construction materials, monitor and test in place soils and geosynthetics as outlined in the CQA Plan. They will record conditions to be reported in the Construction Certification and Record Drawings.

Where practical, CQA laboratory testing will be completed at on-site laboratory in order to increase efficiency. Other testing will be conducted at an experienced laboratory contracted by the CONSULTANT. Construction Manager and CQA staff will be located in a trailer near the construction area provided by the Contractor as part of the construction Contract. CONSULTANT'S Resident Engineer will stay in close contact with COUNTY staff and landfill operations staff to coordinate CQA activities in order to minimize impact on landfill operations.

For budget purposes, CONSULTANT assumes that the Phase 2 expansion will be 12 to 15-acres in area and take 20 to 25 weeks to construct once the contractor mobilizes to the site. CONSULTANT assumes that the Resident Engineer will be on site for a total of 18 weeks during Phase 2 construction. In addition to the Resident Engineer, up to two CQA personnel will be on-site on a full time basis during construction of structural fill and Buffer Soil (6 weeks). An additional CQA monitor is anticipated during geosynthetic construction, which is expected to take 6 weeks to complete. One CQA monitor is needed during construction of the Operational Cover, leachate piping and monitoring wells, which are assumed to take 5 weeks to complete.

CONSULTANT assumes that the CQA personnel will work five 10-hour workdays per week. Actual costs will reflect actual construction duration and hours worked by the contractor as well as the number of coincident construction activities. While

CONSULTANT will staff this project as efficiently as possible, the overriding goal is to assure that Phase 2 landfill construction is properly completed. The task budget has been established on the basis of assumed construction periods described above. If the actual construction period exceeds the assumed timeframe, and CONSULTANT'S field staff is required to be on-site, additional fee may be required.

State regulations require that a Construction Certification be prepared by a Registered Professional Engineer prior to issuance of the facility operation permit. CONSULTANT will prepare the Record Drawings and Record Documentation Report.

CONSULTANT will prepare Record Drawings to present the lines and grades of the landfill as actually constructed. Data recorded as part of the CQA activity, as well as As-Built information provided by the contractor will be incorporated into Record Documentation. As-built details of geomembrane installation, piping construction, groundwater monitoring wells, and surface water control facilities will be provided.

The Record Documentation Report will include a narrative description of construction of the main facility elements. Any changes in design, field revisions or nonconformance areas will be described. Test data will be provided, including soils test results, geosynthetics conformance and construction test data and daily construction activity reports. The document, including Record Drawings, will be submitted to FDEP for review and approval. CONSULTANT will submit Record Documents to COUNTY and Construction Manager for review prior to submittal to FDEP. CONSULTANT will prepare the required "Certification of Construction Completion of a Solid Waste Management Facility" form to be included with the Record Documentation Report.

Task 7 – Additional Services

With a project of this nature and complexity, design, permitting or construction issues may arise that could not have been anticipated when the scope of services was developed. Such issues may impact project schedule or Facility operations and may require CONSULTANT to undertake specific assignments requested by the COUNTY that have not been assigned in the scope of services, but are consistent with the CONSULTANT'S role and expertise. Such tasks would be considered as Additional Services. If such services are required, the CONSULTANT will prepare a specific scope of services and will proceed with such services upon written direction by the Solid Waste Division Director.

To address the situations when CONSULTANT is needed to provide professional engineering and consultant services related to the COUNTY Solid Waste Management System, including the landfill, but not specifically identified in the CONSULTANT'S scope of work, this Additional Services task would be utilized. The Additional Services budget would only be accessible through a written work order signed by the Solid Waste Division Director or his/her designee.

When the COUNTY identifies an assignment, the CONSULTANT will prepare a work scope and budget to complete the assignment. The Solid Waste Division Director would then determine if the scope of work and budget is warranted. If the Director agrees, the work order would be signed and would provide the CONSULTANT with authorization to proceed and to expend funds from the Additional Services budget up to the specified amount contained in the work order.

Schedule and Budget

Schedule

For convenience, a proposed project schedule is provided below. The schedule is based upon the assumption that the currently operating Phase 1A/1B disposal area will be at capacity by March 2006. Construction of the Phase 2 expansion is scheduled to be completed by January 2006. To allow FDEP a full year for review and comment and to allow for resulting modifications to the drawings and Application, CONSULTANT assumes that the Application will be submitted on December 1, 2003. For purposes of this proposal, CONSULTANT assumes authorization to proceed will be provided by COUNTY on or before ~~April 30, 2003~~. Should authorization not be provided by this date, the schedule will be adjusted accordingly.

MAY 30, 2003

CONSULTANT is prepared to commence with design Tasks 1 and 2 (Site Design and Preliminary Design of Expansion Options) as soon as authorized by the COUNTY. These tasks will take approximately 60 days to complete. CONSULTANT will work closely with COUNTY staff to select the location and size of the planned expansion. For purposes of this proposal, it is assumed that the expansion footprint will be determined within 60 days after authorization. Task 3, Detailed Design of the selection expansion option will commence at this time. Permitting (Task 4) will begin approximately six weeks after Task 3 and coincide with Task 3 completion assuming Application submission to FDEP on December 1, 2003. Work under the Permitting task will continue during FDEP review to respond to comments and to modify the Application as required.

The 60% Design Submittal for the Phase 2 expansion will be completed within ⁹⁰~~120~~ days of authorization. A project team meeting to review the design and discuss COUNTY comments will be scheduled at COUNTY'S earliest convenience after the COUNTY review period.

The 90% Design Submittal will be presented for COUNTY review 60 days after the 60% review meeting. A meeting between COUNTY, CONSULTANT and Construction Manager will follow COUNTY review. It is anticipated by the CONSULTANT that the Application will be submitted for FDEP shortly after this 90% review meeting.

Work on Construction Drawings and Technical Specifications will continue during the assumed 12 month FDEP review period. Tasks related to identifying potential bidders and establishing a construction schedule will continue as well.

CONSTRUCTION DRAWINGS & TECH. SPECS WILL TAKE APPROXIMATELY 60 DAYS TO COMPLETE.

CONSULTANT will keep in close contact with FDEP to address comments or issues that may arise during review. CONSULTANT will submit updated permit documents as needed. Once FDEP approval is received, construction bidding can commence in accordance with the established COUNTY schedule.

Task	Description	Start Date	Calendar Days to Completion	Completion Date
1	General Site and Roadway Design	April 30, 2003 MAY 15	60	August 1, 2003
2	Preliminary Design of Expansion Options	April 30, 2003 MAY 15	60	July 15, 2003
3	Detailed Design of Landfill Expansion	June 1, 2003	210	January 1, 2004
4	Permitting	July 15, 2003 June 1	365 625	March, 2005 June 2004
5	Bidding Assistance	June March, 2004 June	90	Sept May, 2004
6	Services During Landfill Construction	June, 2005 OCT 2004	180	January, 2006 APRIL 2005
7	Additional Services	As Required	970	As Required

Key Benchmarks:

1. Project Start Date: ^{MAY} April 30, 2003
2. Application Submittal Date: December 1, 2003
3. FDEP Review Period (Assumed): December 1, 2003 to ~~March 2005~~
4. Landfill Construction: ~~June 2005~~ to January 2006
5. Phase 1A/1B Filled to Capacity: March 2006

Oct 2004 to MAY 2005

Budget

A breakdown of fees for each task described herein is provided in the table below:

TASK	DESCRIPTION	LABOR	SUB- CONTRACTOR COST	EXPENSES	TOTAL
1	General Site and Roadway Design	\$16,300	\$1,700	\$1,500	\$19,500
2	Preliminary Design of Expansion Options	\$28,600	\$8,500	\$2,300	\$39,400
3	Detailed Design of Landfill Expansion	\$80,200	\$2,500	\$2,900	\$85,600
4	Permitting	\$26,500	\$2,500	\$3,200	\$32,200
5	Bidding Assistance	\$14,900	\$0	\$3,500	\$18,400
6	Services During Landfill Construction	\$148,400	\$81,000	\$58,800	\$288,200
7	Additional Services	\$50,000	\$0	\$0	\$50,000
Total		\$364,900	\$96,200	\$72,200	\$533,300

Key Assumptions

1. It is assumed that Waste Management, as Construction Manager, will be responsible for distribution of Bid Documents and bidding.
2. Single Construction contract is assumed for expansion
3. Full time Resident Engineer for Phase 2 expansion construction assumed for eighteen weeks. CQA technicians (soils and geosynthetics) needed for assumed seventeen weeks.
4. Construction Services includes Certification Report and Record Documentation for landfill expansion.

CHANGE ORDER AGREEMENT No. _____
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 9

EXHIBIT "CO/STA-B"

Date: 4/25/03

COMPENSATION AND METHOD OF PAYMENT

for - Lee / Hendry Landfill Phase II Expansion

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.)
1	General Site and Roadway Design	\$19,500.00	NTE	WIPP
2	Preliminary Design of Expansion Options	\$39,400.00	NTE	WIPP
3	Detailed Design of Landfill Options	\$85,600.00	NTE	WIPP
4	Permitting	\$26,500.00	NTE	WIPP
5	Bidding Assistance	\$18,400.00	NTE	WIPP
6	Services During Landfill Construction	\$288,200.00	NTE	WIPP
7	Additional Services	\$50,000.00	NTE	WIPP
Note: The Solid Waste Division Director May reallocate compensation among the Several tasks if project demands require Such adjustment.				
TOTAL (Unless list is continued on next page)		\$533,300.00	NTE	WIPP

CHANGE ORDER AGREEMENT No. _____

SUPPLEMENTAL ^{or} TASK AUTHORIZATION No. 9

EXHIBIT "CO/STA-D"

Date: 4/25/03

CONSULTANT'S, OR SERVICE PROVIDER'S, ASSOCIATED SUB-CONSULTANT(S) AND SUBCONTRACTOR(S)

For - Lee / Hendry Landfill Phase II Expansion

CONSULTANT, or SERVICE PROVIDER, intends to engage the following sub-consultant(s) and/or sub-contractor(s) to assist the CONSULTANT, or SERVICE PROVIDER, in providing and performing the services, tasks, or work required under this CHANGE ORDER, or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT.

(If none, enter the word "none" in the space below.)

Service and/or Work to be Provided or Performed	Name and Address of Individual or Firm	Disadvantaged, Minority or Women Business Enterprise (If Yes, Indicate Type)			Sub-Consultant Services are Exempted from Prime Consultant=s Insurance Coverage	
		Yes	No	Type	Yes	No
	To Be Determined					

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 9

EXHIBIT "CO/STA-E"

Date: 4/25/03

PROJECT GUIDELINES AND CRITERIA

for - Lee / Hendry Landfill Phase II Expansion

As a supplement, or change, to the Project Guidelines and Criteria set forth in the Professional Services Agreement, or Service Provider Agreement, Exhibit "E", the COUNTY has established the following Guidelines, Criteria, Goals, Objectives, Constraints, Schedule, Budget, and/or Requirements which shall serve as a guide to the CONSULTANT, or SERVICE PROVIDER, in performing the professional services, tasks, or work to be provided pursuant to the professional services set forth hereinbefore in CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto:

(If none, enter the word "None" in the space below.)

ITEM No. 1

None