

**REQUEST FOR PROPOSAL #11-1568BG
DESIGN / BUILD CONSTRUCTION SERVICES for
LENA ROAD GAS ELECTRIC GENERATORS**

Manatee County, a political subdivision of the State of Florida (hereinafter "Manatee County" or the "County") will receive proposals from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida, for the purpose to provide DESIGN / BUILD CONSTRUCTION SERVICES for LENA ROAD GAS ELECTRIC GENERATOR AND BUILDING.

To insure that all prospective Proposers have sufficient information and understanding of the County's needs, a **Non- Mandatory Site Visit and Information Conference** will be held **April 21, 2011 at 10:00A.M** at the **Public Works Department** 1022 26th Avenue East, Bradenton, Florida 34208. Site visit to immediately follow the Information Conference. All proposers are encouraged to attend this information conference and site visit.

DEADLINE FOR CLARIFICATION REQUESTS: April 28, 2011 at 5:00 PM shall be the deadline to submit all inquiries, suggestions, or requests concerning interpretation, clarification or additional information pertaining to this Request For Proposals to the Manatee County Purchasing Office. This deadline has been established to maintain fair treatment for all potential bidders or proposers, while ensuring an expeditious transition to a final agreement.

TIME AND DATE DUE: Proposals will be received until **May 10, 2011 at 1:00 P.M.** at which time they will be **publicly opened**. All interested parties are invited to attend this opening.

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Important note: A prohibition of Lobbying is in place. Please review paragraph A.17 carefully to avoid violation and possible sanctions.

FOR INFORMATION CONTACT:

Blair C. Getz, Purchasing Division Contracts Negotiator at (941) 749-3053, FAX(941)749-3034
Manatee County, Financial Management Department, Purchasing Division

AUTHORIZED FOR RELEASE 

SECTION A: INFORMATION TO PROPOSERS

PROPOSERS MUST COMPLY WITH THE FOLLOWING INSTRUCTIONS TO BE CONSIDERED FOR SELECTION.

A.01 OPENING LOCATION

These proposals will be publicly opened at Manatee County Purchasing, 1112 Manatee Avenue West, 8th Floor, Suite 803, Bradenton, Florida 34205, in the presence of County officials at the time and date stated on the cover sheet. All proposers or their representatives are invited to attend.

A.02 PROPOSAL INFORMATION AND PROPOSAL DOCUMENTS

Bids and Proposals on <http://www.mymanatee.org>

Bid or Proposal documents and the Notices of Source Selection related to those Bids or Proposals are available for download in a portable document format (.PDF) file on the Manatee County web page on the Purchasing tab under "Bids and Proposals". You may view and print these files using Adobe Acrobat software. You may download a free copy of this software (Adobe) from the County's web page if you do not have it.

Manatee County collaborates with the Manatee Chamber of Commerce on distributing solicitations using the RFP Tool web page on the Chambers website: <http://www.Manateechamber.com> to post Bid and Proposal documents in a portable document format (.PDF) file. This step is in addition to the posting on Manatee County Government web pages.

Manatee County may also use an internet service provider to distribute Bids and Proposals. A link to that service <http://www.DemandStar.com>, is provided on this website under the Tab "DemandStar". Participation in the DemandStar system is not a requirement for doing business with Manatee County.

Note: The County posts the **Notice of Source Selection** seven (7) calendar days prior to COMMENCING NEGOTIATIONS with the selected firms.

IT IS THE RESPONSIBILITY OF EACH PROPOSER, PRIOR TO SUBMITTING THEIR PROPOSAL, TO CONTACT THE MANATEE COUNTY PURCHASING OFFICE (see contact information on page one of this document) TO DETERMINE IF ADDENDA WERE ISSUED AND TO MAKE SUCH ADDENDA A PART OF THEIR PROPOSAL.

A.03 PROPOSAL FORM DELIVERY REQUIREMENTS

Any proposals received after the stated time and date will not be considered. It shall be the sole responsibility of the proposer to have their proposal delivered to the Manatee County Purchasing office for receipt on or before the stated time and date. If a proposal is sent by U.S. Mail, the proposer shall be responsible for its timely delivery to the Purchasing Office. Proposals delayed by mail shall not be considered, shall not be opened at the public opening, and arrangements shall be made for their return at the proposer's request and expense.

Proposals must be submitted in the format specified in Section B hereof. The contents of each proposal shall be **separated and arranged with tabs in the same order as listed in the Subsections within Section B** identifying the response to each specific item thereby facilitating expedient review of all responses.

A.04 CLARIFICATION & ADDENDA

Each proposer shall examine all Request For Proposal documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries, suggestions or requests concerning interpretation, clarification or additional information pertaining to the Request For Proposal shall be made in writing through the Manatee County Purchasing Office. The County shall not be responsible for oral interpretations given by any County employee, representative, or agent. The issuance of a written addendum by the Purchasing Official's Office is the only official method whereby interpretation, clarification or additional information can be given.

Addenda shall be posted on <http://www.mymanatee.org>

It shall be the responsibility of each proposer, prior to submitting their proposal, to contact the Manatee County Purchasing Office at (941)748-4501, ext. 3053 to determine if addenda were issued and to make such addenda a part of the proposal.

DEADLINE FOR CLARIFICATION REQUESTS

April 28, 2011 at 5:00 PM shall be the deadline to submit all inquiries, suggestions, or requests concerning interpretation, clarification or additional information pertaining to this Request For Proposals to the Manatee County Purchasing Office.

This deadline has been established to maintain fair treatment for all potential bidders or proposers, while ensuring an expeditious transition to a final agreement.

A.05 SEALED & MARKED

One signed Original (marked Original) and FOUR (4) Copies (marked Copy) of your proposal shall be submitted in one sealed package, clearly marked on the outside "**Sealed Proposal #11-1568BG**" and addressed to:

Manatee County Purchasing
1112 Manatee Avenue West, Suite 803
Bradenton, FL 34205

A.06 LEGAL NAME

Proposals shall clearly indicate the legal name, address and telephone number of the proposer (company, firm, partnership, individual). Proposals shall be signed above the typed or printed name and title of the signer. The signer shall have the authority to bind the proposer to the submitted proposal.

A.07 PROPOSAL EXPENSES

All expenses for making proposals to the County are to be borne by the proposer.

A.08 EXAMINATION OF OFFER

The examination of the proposal and the proposer generally requires a period of not less than ninety (90) calendar days from the date of the opening of the proposals.

A.09 DISCLOSURE

Proposals become "Public Records" ten (10) days after the proposal opening or if an award decision is made earlier than this time as provided by Florida Statute 119.071 (1) (b). **No review of the proposal documents shall be conducted at the public opening of the proposals.**

Manatee County will make public at the opening the names of the business entities of all that submitted an offer and any amount presented as offers by location without any verification of the mathematics or the completeness of the offer.

A.10 ERRORS OR OMISSIONS

Once a proposal is submitted, the County shall not accept any request by any proposer to correct errors or omissions in the proposal.

A.11 RESERVED RIGHTS

The County reserves the right to accept or reject any and/or all proposals, to waive irregularities and technicalities, and to request resubmission. Any sole response received by the first submission date may or may not be rejected by the County, depending on available competition and timely needs of the County. The County reserves the right to award the contract to a responsible proposer submitting a responsive proposal, with a resulting negotiated agreement which is most advantageous and in the best interests of the County. The County shall be the sole judge of the proposal, and the resulting negotiated agreement that is in its best interest and its decision shall be final.

A.11 RESERVED RIGHTS(CONTINUED)

Also, the County reserves the right to make such investigation as it deems necessary to determine the ability of any proposer to perform the work or service requested. Information the County deems necessary to make this determination shall be provided by the proposer. Such information may include, but shall not be limited to: current financial statements prepared by an independent CPA; verification of availability of equipment and personnel; and past performance records.

A.12 APPLICABLE LAWS

Proposer must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting agreement. Any involvement with any Manatee County procurement shall be in accordance with Manatee County Code of Laws 2-26, as amended. Procedures and deadlines concerning protests related to this Request For Proposals shall be those which are set forth in §2-26-61 of the County Code.

A.13 CODE OF ETHICS

With respect to this proposal, if any proposer violates or is a party to a violation of the Code of Ethics of Manatee County per Manatee County Code of Laws, Article III, Ethics in Public Contracting, and/or Florida criminal or civil laws related to public procurement including but not limited to Florida Statutes Chapter 112, Part II, Code of Ethics for Public Officers and Employees, such proposer may be disqualified from performing the work described in this proposal or from furnishing the goods or services for which the proposal is submitted and shall be further disqualified from submitting any future proposals for work or for goods or services for Manatee County.

The County presumes that all statements made and materials submitted in a proposal will be truthful. If a proposer is determined to be untruthful in its proposal or any related presentation, such proposer may be disqualified from further consideration regarding this Request for Proposals.

A.14 COLLUSION

By offering a submission to this Request For Proposal the proposer certifies the proposer has not divulged to, discussed or compared his proposal with other proposers and has not colluded with any other proposer or parties to this proposal whatsoever. Also, the proposer certifies, and in the case of a joint proposal, each party thereto certifies, as to their own organization that in connection with this proposal:

- a. any prices and/or data submitted have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other proposer or with any competitor;

A.14 COLLUSION(CONTINUED)

- b. any prices and/or cost data quoted for this proposal have not been knowingly disclosed by the proposer prior to the scheduled opening directly or indirectly to any competitor;
- c. no attempt has been made or will be made by the proposer to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition;
- d. the only person or persons interested in this proposal as principal or principals is/are named therein and that no person other than therein mentioned has any interest in this proposal or in the contract to be entered into; and
- e. no person or agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees.

A.15 PUBLIC ENTITY CRIMES

In accordance with Section 287.133, Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list.

In addition, Manatee Code of Laws Chapter 2-26 Article V prohibits the award of County contracts to any person or entity who/which has, within the past 5 years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the purchasing official, establishes reasonable grounds to believe the person or business entity will not conduct business in a reasonable manner.

To ensure compliance with the foregoing, the Code requires all persons or entities desiring to contract with the County to execute and file with the purchasing official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity, and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with the County.
Proposer is to complete Attachment "A"

A.16 DRUG FREE WORK PLACE

Drug Free Workplace Program: Manatee County has adopted a policy requiring Contractors to maintain a Drug Free Workplace (Resolution R-93-22). Proposers are asked to review the attached Resolution and provide either a certification of compliance with the program outlined in this Resolution or describe your firm's policy or program as it relates to maintaining a drug free workplace. This response will be considered with the other criteria described herein. **Proposer to complete Attachment "B"**

A.17 LOBBYING

After the issuance of any Request For Proposals, prospective proposers or any agent, representative or person acting at the request of such proposer shall not contact, communicate with or discuss any matter relating in any way to the Request For Proposals with any officer, agent or employee of Manatee County other than the Purchasing Official or as directed in the Request For Proposals. This prohibition begins with the issuance of any Request For Proposals and ends upon an award of the final contract, when all solicitations have been rejected, or when the request has been canceled. Violators of this prohibition shall be subject to sanctions as provided in the Manatee County Code of Law Chapter 2-26.

A.18 EQUAL EMPLOYMENT OPPORTUNITY

Manatee County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 and the Regulations of the Department of Commerce (15 CFR, Part 8) issued pursuant to such Act, hereby notifies all prospective proposers that they will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to participate in response to this advertisement and will not be discriminated against on the grounds of race, color, creed, sex, age or national origin in consideration for an award.

A.19 AMERICANS WITH DISABILITIES ACT

The Board of County Commissioners of Manatee County, Florida, does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of the County's functions including one's access to, participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for the **public meetings** specified herein (i.e. Information Conference or Proposal Opening), should contact the person named on the first page of this document at least twenty four (24) hours in advance of the activity to request accommodations.

END SECTION A

SECTION B: FORM OF PROPOSAL

This section identifies specific information which must be contained within each proposal. The contents of each proposal shall be **separated** and **arranged with tabs** in the same order as listed in **Sections B.01, through B.07**, identifying the response to each specific item.

The information that you provide shall be used to determine those Proposers with perceived ability to perform the Scope of Services as stated in this Request for Proposal which may overall best meet the needs of Manatee County. A review with those Proposers reasonably susceptible of being selected for award may be conducted for the purposes of clarification of both ability and benefit to Manatee County. See Section C. Selection.

B.01 MINIMUM QUALIFICATIONS (Licensing) TO BE CONSIDERED: To qualify for any consideration, the Proposer must present proof of certification and any current valid licensing that may be required in and by the State of Florida to provide the services required by this document.

Proposals may be presented by a single business entity, a joint venture, or partnership.

Prior to any consideration of the responses to the criteria in this Request For Proposals, Proposers are to document in their Proposals they have the following experience:

MINIMUM EXPERIENCE TO BE CONSIDERED: To qualify for consideration, the Proposer must present proof of certification and current valid licensing in the State of Florida as a General Contractor or registered building contractor as the qualifying agent; or certification and current valid licensing by the State of Florida under §471.023 to practice, or to offer to practice engineering or under §481.219 to practice.

If subcontractors are included in your proposal given to meet the minimum qualifications, detail the business entities, description of the service provided, and responses in the same level of detail and tabbed order as instructed in this Request For Proposal for the proposer.

Proposers shall have at least three (3) similar project of proven experience that are the same as or closely related to in the requirements of this RFP and currently held the required licenses under appropriate State and local laws related to this activity.

Statement on surety company letterhead of the **unencumbered bonding capacity** for your business entity and a statement that a 100% Performance and Payment Bond for this project will be issued to Manatee County upon request.

B.01 MINIMUM EXPERIENCE TO BE CONSIDERED(Continued)

To validate experience, expertise and capabilities, Proposers shall provide the following:

For each of the qualifying three (3) past performance projects, provide the following details:

- a. Name and location of the Client and the project, the year of performance and the date the project was fully operational and accepted. The specific details of the project including the components and sub- contractors utilized.

Specify the name, title and telephone number for the Clients contract manager for the project; and

- b. Provide the names of your firm's staff and their direct involvement in the project.
- c. The name and telephone numbers of the persons representing the individual agencies with which the identified key staff directly worked; and
- d. State agency, if any, which verified compliance with its requirements or standards, and the names and telephone numbers of the key persons with direct knowledge of this process to achieve compliance.
- e. Name and contact information of the Electric Company involved in the project.

After Manatee County staff validates the Minimum Qualifications have been met, those Proposals found to be in compliance will be considered.

B.02 ADMINISTRATIVE SUBMITTAL

- a. Proposal Signature Form.
- b. Public Contracting and Environmental Crimes Cert. (Attachment A).
- c. Drug Free Work Place Certification (Attachment B).

B.03 INFORMATION TO BE SUBMITTED REGARDING YOUR BUSINESS ENTITY

Tabs are required to identify each item defined in this Section

B.03.1. Provide a description of the proposer's **background and size**. Provide a general statement of qualifications that includes your firm's professional credentials, the legal status of your organization, and experience in providing the service enumerated in this Request For Proposal.

B.03.1.1 Submit a narrative **explaining the direct economic benefit to Manatee County to be realized by selecting your firm**. During the term of this engagement detail the employment, subcontracting, and support services contracting as economic stimulus that your entity may generate that would directly benefit Manatee County.

B.03.2. Provide an **explanation of the business entity which you represent**. Specify the business entity which would be bound by a contract, should your firm be selected: company or corporation; subcontractor roles; and if a joint venture, include the specific experience that the joint venture partners have working together on similar projects.

If the proposer is a joint venture, or partnership, the details of the responsibilities for provision of the required services must be clearly disclosed. Provide a narrative on how you anticipate the partnerships to manage the work and any prior experience that the individual entities may have had in working together on other projects. Disclose the lead firm of a joint venture.

B.03.3. Provide a list, with **references, of your business entity's Construction experience**. Specify which key personnel were responsible for the contracted services. References given must specify employees in senior level management positions with knowledge of the operations to confirm the claimed details. Include the name of the entity the work was completed for, a description of the services provided, the dates of service and the name(s) and telephone number(s) of the contact persons. This list shall be for both Governmental and Private clients for the past five (5) years.

B.03.4. Identify each **principal of the firm and other "key personnel"** who will be professionally associated with the County. Do not include personnel that will not have a key role in providing services. Describe their respective areas of expertise.

For each identified person, list:

- Full Name
- Professional credentials; Title;
- Area of expertise, individual's roles and duties in providing services
- Office address
- Email address

B.03 INFORMATION TO BE SUBMITTED REGARDING YOUR BUSINESS ENTITY
(Continued)

- Telephone number
 - Personalized resumes which identify the qualifications, training and experience of each key personnel.
- B.03.5. **Specify the office location of the business entity** explained in response to item B.03, 2 which is to be the primary location of the principal and key personnel. List the key personnel at that location. For the remaining key personnel detail at what location(s) they will work from and how they will provide management or service or supply support from the locations that they will work from.
- B.03.6 Disclose **any ownership interest in other entities** involved in design and/or construction services which may be a potential participant in this Request For Proposals. This ownership disclosure shall be included, whether such ownership occurs by the proposer through a parent, subsidiary or holding company or any other form of business entity. Submit entity names and the percent of ownership for each.
- B.03.7 **Provide authorization for a Manatee County auditor and/or financial analysts to have access to your financial records at the primary location of the business entity** explained in response to item B.03, 6, or such other location as may be agreed, for the purposes of verifying your financial representations, review and assessment of the historical and current financial capacity of your business entity and its expected ability to meet ongoing financial obligations to the County. as proposed in this proposal to Manatee County. The County's audit and /or financial analyst agents will report their findings in a summary report to the Manatee County Purchasing Official, which will be placed in the proposal files for subsequent use and review.

B.04 CONSTRUCTION SCHEDULE AND ESTIMATED PROJECT COSTS

Submit your firm's cost proposal; include the detail of design cost and construction cost with a total not to exceed proposed total cost to the County. The Cost Proposals shall be on a separate sheet Titled **Cost Proposals** and shall further include the information and / or costs as indicated in **B.04.1, B.04.2, B.05.1 and B.05.2**

- B.04.1 Provide separately a **Schedule of Values** of work to be performed and the **total number of calendar days required to complete simultaneously both project sites** after the issuance of a Notice to Proceed. Further include a narrative of how your entity will accomplish the staging and phasing required for the (1) **Generator for the Waste Water Treatment Plant** and (2) **Generator for the Biosolids Dryer Facility**.

B.04 CONSTRUCTION SCHEDULE AND ESTIMATED PROJECT COSTS(Continued)

B.04.2 Proposer shall provide separately an estimated cost proposal using the response to B.04.1 "schedule" for the project with a detailed schedule of values for the identified elements of work based on the information provided within this Request For Proposal for the (1) **Generator for the Waste Water Treatment Plant** and (2) **Generator for the Biosolids Dryer Facility**.

B.05 ESTIMATED COST OF A TEN YEAR OPERATIONS AND CORRECTIVE, PREVENTATIVE MAINTENANCE PLAN

B.05.1 Proposer shall show separately an estimated cost proposal to provide a ten year operations and corrective, preventative maintenance plan The Cost estimate shall be presented at a cost per year for each and every year one (1) through ten(10) for the (1) **Generator for the Waste Water Treatment Plant** and (2) **Generator for the Biosolids Dryer Facility**.

B.05.2 Proposer shall present for the same ten year period their activities included in the operations and corrective, preventative maintenance plan.

B.05.3 Proposer shall, in order to compare generator sets, include the total capital cost, design ekW for the generator set, the capital cost per ekW (total cost divided by design ekW); guaranteed number of kilowatt-hours generated per year.

B.05.4 Proposer shall submit:

- A. total number of kilowatt-hours generated
- B. total cost per kilowatt-hour for the O&M Plan
- C. total proposed rebate per kilowatt hour to the County if the annual number of kilowatt-hours generated is less than the guaranteed number.

B.05.5 Proposer shall provide an Emergency response plan in the event of a catastrophic weather event.

B.06 ADDITIONAL INFORMATION REQUESTED

B.06.1 Proposer to provide an estimated required quantity of landfill gas and the range of methane and oxygen concentration.

B.06.2 Proposer to provide a generator layout and specifications.

B.06.3 Proposer to provide the location of the service center.

B.07 ADDITIONAL INFORMATION NOT REQUESTED

Submit any other additional information which would assist the County in the evaluation of your proposal.

NOTE: The County reserves the right to make such investigation and solicit additional information or submittals as it deems necessary to determine the ability of any proposer to perform the Scope of Services stated in this Request For Proposal

END SECTION B

SECTION C: SELECTION

C.01 EVALUATION FACTORS

Evaluation factors are (1) the perceived ability of the Proposer to perform the Scope of Services as stated in this Request for Proposal in the most timely and efficient manner, and (2) the estimated cost proposed. These evaluation factors shall determine the proposal which will overall best meet the needs of Manatee County as determined from the responses to this Request for Proposal and subsequent investigation by the County.

C.02 RELATIVE IMPORTANCE OF EVALUATION FACTORS

No weight has been assigned to the Evaluation Factors stated above.

C.03 PRELIMINARY RANKING

A Selection Committee shall determine from the responses to this Request For Proposals and subsequent investigation as necessary, the proposer(s) most susceptible of being selected for award.

C.04 REVIEW OF PROPOSERS AND PROPOSALS

In-person reviews may be conducted with responsible proposers who are deemed reasonably susceptible of being selected for award, for the purposes of assuring full understanding of (a) conformance to the solicitation requirements, (b) the abilities of the proposer, and (c) the proposal submitted.

Proposers shall be available for presentations to and interviews with the Selection Committee, upon notification from the Purchasing Office. The date(s) and time(s) of any such presentations / interviews shall be determined solely by the County.

C.05 SELECTION FOR NEGOTIATION

The Proposer whose ability and proposal is determined to be the most advantageous to the County, taking into consideration the evaluation factors set forth in this Request for Proposal, shall be selected to negotiate an agreement for the stated Scope of Services.

C.06 AWARD

Award of an agreement is subject to the successful negotiations and the vote of the Board of County Commissioners to authorize execution of the agreement.

END SECTION C

SECTION D: NEGOTIATION OF THE AGREEMENT

D.01 GENERAL

The following general terms and conditions apply to the proposal submitted for consideration and the subsequent negotiations:

- a. The proposal will serve as a basis for negotiating an agreement, but not compel adherence to its terms or conditions.
- b. Upon submission, all proposals become the property of the County which has the right to use any or all ideas presented in any proposal submitted in response to this Request for Proposal whether or not the proposal is accepted.
- c. All products and papers produced in the course of this engagement become the property of the County upon termination or completion of the engagement.

D.02 AGREEMENT

The selected proposer shall be required to negotiate an agreement, in a form and with provisions acceptable to Manatee County.

Negotiated Agreements may or may not include all elements of this RFP or the resulting successful proposal where alternative terms or conditions become more desirable to the County, and the parties agree to such terms.

Unless renewed or extended as provided herein, the negotiated Agreement shall remain in full force and effect for a period of ten year (10) years from the date of its execution. However, the terms and conditions of this Agreement shall remain valid beyond the ten years until any required maintenance and/or repairs or reports have been successfully completed.

This Agreement may be amended for two (2) additional periods, each of five (5) years by mutual agreement of both parties.

The Manatee County Board of County Commissioners will be presented the negotiated agreement as the best and final offer for consideration of award and execution. The Board of County Commissioners shall determine whether to (a) accept the recommended award and approve the execution of an agreement, (b) reject the recommended award and direct further negotiations or (c) reject the recommended award and direct the termination of negotiations.

END SECTION D

SECTION E: SCOPE OF SERVICES

E.01 Background Information:

Manatee County has defined a need to select a Design/Build Contractor to provide an enclosed structure and generator sets to use Landfill gas from the Lena Road Landfill to produce electricity for the adjacent Southeast Water Reclamation Facility (aka Southeast Regional Wastewater Treatment Plant (WWTP) and for the Biosolids Dryer Facility. The Proposer will include with his proposal ten years of operation and maintenance (O&M) plan.

E.02 BACKGROUND INFORMATION / DESIGN CRITERIA / SITE PLAN

SEE Exhibit "A" Background information

SEE Exhibit "B" Design Criteria

EO.3 SCOPE OF SERVICES:

Proposal shall be all inclusive beginning with the assembly of a professional design team & support staff to work closely with the owners representatives on an as needed bases to insure the final design will function as desired by the end user.

Proposal shall provide all personnel, services, plans, & documents necessary during the pre-construction phase & as required to bring the agreed upon design to a permitted status. Upon the Design/Build team's receipt of all permits, it shall cause the Construction Phase to commence.

The Construction Phase shall be manned by a pre-selected team which prior to construction has attended, if not all, some of the later pre-construction meetings to familiarize themselves not only the project but the owner's representatives they will be closely working with to bring the project to a successful conclusion.

The Construction Phase shall be properly manned to insure that the construction schedule is maintained at all times and any potential delays shall be conveyed to the owner's representatives as soon as they are discovered.

During construction weekly on site project meetings will be conducted by the Design/ Build provider. These meetings shall have representatives from all entities involved in the Construction Phase and may including the owner's representatives, when required. The meetings shall be mandatory.

EO.3 SCOPE OF SERVICES (CONTINUED)

The Design/ Build team shall at the end of the Construction Phase bring to the project all the required resources to quickly & efficiently complete all punch list items, provide to the owner instruction as required for all supplied equipment & devices & submit all typical close out documents &/or those the owner may request.

Quality Assurance: All activities, actions, and procedures performed before and during execution of the Work shall guard against defects, deficiencies, and substantiate that proposed construction will comply with requirements.

Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

EO.4 Ownership and Use of Documents:

It is understood and agreed that the documents or reproducible copies, including reports, designs, specifications, other documents and data developed by the Proposer, the County, or the County Consultants in connection with this RFP and the Project shall be delivered to and shall become the property of the County as they are received by the County. The Proposer hereby assigns all its copyright and other proprietary interests in the products of the agreement to the County. Specific written authority is required by the County's Administrative Agent for the Proposer to use any of the work products of this REQUEST FOR PROPOSAL or any future agreement on any non-County project.

E.05 MEETING REQUIREMENTS

Proposer shall conduct and chair weekly project design meetings and during construction on-site, project meetings with all subcontractors, and provide the County a written summary of each weekly meeting. These reports shall be submitted to the County Project Manager within three calendar day of the occurrence of the latest meeting.

E.06 INSURANCE:

- 1) Insurance: Before performing any contract work, the Proposer shall procure and maintain, during the life of the agreement unless otherwise specified, insurance listed below. The policies of insurance shall be primary and written on forms acceptable to the County and placed with insurance carriers approved and licensed by the Insurance Department in the State of Florida.

E.06 INSURANCE(CONTINUED)

- 2) Workers' Compensation: Proposer shall provide Workers' Compensation Insurance, on behalf of all employees who are to provide a service under this agreement as required under Florida Law.
- 3) Commercial General Liability – including but not limited to bodily injury, property damage, contractual, products and completed operations, and personal injury with limits of not less than \$1,000,000 per occurrence, \$1,000,000 aggregate covering all work performed under this agreement.
- 4) Umbrella Liability – with limits not less than \$2,000,000 per occurrence covering all work performed under this agreement.
- 5) All policies required by this agreement, with the exception of Workers' Compensation, or unless specific approval is given by County Risk Management, are to be written on an occurrence basis, shall name the Board of County Commissioners, its officers, agents, employees and volunteers as additional insured as their interest may appear under this agreement. Insurer(s), with the exception Workers' Compensation, shall agree to waive all rights of subrogation against Manatee County, its Commissioners, officers, agents, employees or volunteers.
- 6) Each insurance policy required by this agreement shall:
 - a) Apply separately to each insured against whom claim is made and suit is brought, except with respect to limits of the insurer's liability.
 - b) Be endorsed to state that coverage shall not be suspended, voided or canceled by either party except after thirty (30) calendar days prior written notice by certified mail, return receipt requested, has been given to County Risk Management.
- 7) The procuring of required policies of insurance shall not be construed to limit the Proposer's liability nor to fulfill the indemnification provisions and requirements of this agreement.
- 8) Certificates of Insurance evidencing Claims Made or Occurrence form coverage and conditions of this agreement, as well as the contract number and description of work, are to be furnished to County Risk Management prior to commencement of work. All insurance certificates shall be received by County Risk Management before the Proposer will be allowed to commence or continue work.

END OF SECTION E

SECTION F

MANATEE COUNTY LOCAL PREFERENCE LAW AND VENDOR REGISTRATION**F.01 Vendor Registration**

All vendors are encouraged to register with Manatee County using the on-line "Vendor Registration" web page on www.mymanatee.org.

Enclosed is a copy of the current Manatee County law that details the County's Local Preference and definition of a Local Business.

If you assert that your firm meets the stated definition of a Local Business, we ask that in addition to registering on the County's Web page, you fill out the attached "**Affidavit As To Local Business Form**" that is the **last page** in this section of the proposal, have the completed document notarized, and mail the original to the following address: Manatee County Administration Center, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.

Your cooperation in registering your business with Manatee County will enhance our opportunities to identify sources for goods and services, plus identify Local Businesses. This information is used for soliciting quotations up to \$250,000.00 and for competitive solicitations of larger purchases.

You will note that Manatee County collaborates with the Manatee Chamber of Commerce, posting bids on www.manateechamber.com as well as using the same vendor categories for registration. Our staff can assist you with your registration as needed. Our office hours are 8:00 A.M. to 5:00 P.M., Monday through Friday on regular business days. Please call (941) 749-3014 if you wish to have a purchasing staff member assist you.

Quick steps to on line registration:**www.mymanatee.org**

A link to "Purchasing" is listed under the "Quick Links" on page one of this County Web Site. On the left hand side of the Purchasing Web page, click on "Vendor Registration."

This will bring up the Vendor Registration form for on-line input. Please note that the definition of a "Local Business" changed on March 17, 2009. The Web page will be updated to include the current Law which has been provided in this section of the **proposal**.

Thank you for reviewing this information and considering registering your business with Manatee County. Registration is not mandatory; however, by taking the time to register, you are helping the County to provide timely notifications of quotation, bid, and proposal opportunities to your business.

MANATEE COUNTY LOCAL PREFERENCE LAW AND VENDOR REGISTRATION

F.02 Section 2-26-6. Local preference, tie bids, local business defined.

(a) Whenever a responsible local business bidder and a responsible non-local business bidder are found, upon the opening of bids, to have both submitted the lowest responsive bid, the bid of the local bidder shall be awarded the contract. Should more than one responsible local business bidder match the responsible non-local business bidder's lowest responsive bid, or should no responsible local business bidder match the lowest responsive bid but two or more responsible non-local business bidders submit lowest responsive bids for equal amounts, then the award of the contract shall be determined by a chance drawing, coin toss, or similar tie-breaking method conducted by the purchasing office and open to the public. Any bidders seeking to be recognized as local businesses for purposes of this local business preference provision may be required by the terms of the bid announcement to certify they meet the definition of local business set forth in this section, and to register as a local business with the county in the manner prescribed by the county to facilitate the county's ability to track the award of contracts to local businesses and to allow the county to provide future notifications to its local businesses concerning other bidding opportunities.

(b) Nothing herein shall be deemed to prohibit the inclusion of requirements with respect to operating and maintaining a local place of business in any invitation for bids when the bidder's location materially affects the provisions of the services or supplies that are required by the invitation.

(c) Local business is defined as a business legally authorized to engage in the sale of the goods and/or services to be procured, and which certifies within its bid that for at least six (6) months prior to the announcement of the solicitation of bids it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employees at that location.

(d) Each solicitation for bids made by the county shall contain terms expressly describing the local business preference policies of the county, and shall provide that by electing to submit a bid pursuant to a request for bids, all bidders are deemed to understand and agree to those policies.

(e) For all contracts for architecture, professional engineering, or other professional services governed by Florida Statute § 287.055, the Consultants' Competitive Negotiation Act, the county shall include the local business status of a firm among the factors considered when selecting which firms are "most highly qualified." In determining which firm is the "most qualified" for purposes of negotiating a satisfactory contract, preference shall be given to a local business where all other relevant factors are equal.

(f) Local preference shall not apply to the following categories of contracts:

1. Goods or services provided under a cooperative purchasing agreement or similar "piggyback" contract;
2. Contracts for professional services subject to Florida Statute § 287.055, the Consultants' Competitive Negotiation Act, except as provided for in subsection (e) above;

F.02 Section 2-26-6. Local preference, (CONTINUED)

(f) Local preference shall not apply to the following categories of contracts continued)

3. Purchases or contracts which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions of receipt of the funds prohibit the preference;

4. Purchases or contracts made pursuant to a non-competitive award process, unless otherwise provided by this section;

5. Any bid announcement which specifically provides that the general local preference policies set forth in this section are suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the county commission or county administrator, or where such suspension is, in the opinion of the county attorney, required by law.

(g) To qualify for local preference under this section, **a local business must certify to the County that it:**

1. Has not within the five years prior to the bid announcement admitted guilt or been found guilty by any court or state or federal regulatory enforcement agency of violation of any criminal law, or a law or administrative regulation regarding fraud;

2. Is not currently subject to an unresolved citation or notice of violation of any Manatee County Code provision, except citations or notices which are the subject of a current legal appeal, as of the date of the bid announcement;

3. Is not delinquent in the payment of any fines, liens, assessments, fees or taxes to any governmental unit or taxing authority within Manatee County, except any such sums which are the subject of a current legal appeal.

Ref: Ordinance 09-21 and 09-23 **PASSED AND DULY ADOPTED** in open session, with a quorum present and voting, on the 17th day of March, 2009.

MANATEE COUNTY GOVERNMENT AFFIDAVIT AS TO LOCAL BUSINESS

(Complete and Initial Items B-F)

A. Authorized Representative

I, [name] _____, am the [title] _____

and the duly authorized representative of: [name of business] _____, and that I possess direct personal knowledge to make informed responses to these certifications and the legal authority to make this Affidavit on behalf of myself and the business for which I am acting; and by electing to submit a proposal pursuant to this Request For Proposals, shall be deemed to understand and agree to the local business preference policies of Manatee County; and that I have the direct knowledge to state that this firm complies with all of the following conditions to be considered to be a Local Business as required by the Manatee County Code of Law, Section 2-26-6.

B. Place of Business: I certify that the above business is legally authorized to engage in the sale of goods and/or services and has a physical place of business in Manatee, DeSoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one (1) fulltime employee at that location. The physical address of the location which meets the above criteria is:

_____ [Initial]_____

C. Business History: I certify that business operations began at the above physical address with at least one fulltime employee on [date] _____ [Initial]_____

D. Criminal Violations: I certify that within the past five years of the date of this proposal announcement, this business has not admitted guilt nor been found guilty by any court or local, state or federal regulatory enforcement agency of violation of any criminal law or administrative regulation regarding fraud. [Initial]_____

E. Citations or Code Violations: I certify that this business is not currently subject to any unresolved citation or notice of violation of any Manatee County Code provision, with the exception of citations or notices which are the subject of a legal current appeal within the date of this proposal announcement. [Initial] _____

F. Fees and Taxes: I certify that within this business is not delinquent in the payment of fines, liens, assessments, fees or taxes to any governmental unit or taxing authority within Manatee County, with the exception of those which are the subject of a legal current appeal. [Initial]_____

Each of the above certifications is required to meet the qualification of "Local Business" under Manatee County Code of Law, 2-26-6.

Signature of Affiant _____

STATE OF FLORIDA
COUNTY OF _____

Sworn to (or affirmed) and subscribed before me this ____ day of ____, 20__, by (name of person making statement).

(Notary Seal) Signature of Notary: _____

Name of Notary (Typed or Printed) _____

Personally Known ____ OR Produced Identification ____ Type of Identification Produced _____

Submit executed copy to Manatee County Purchasing, Suite 803, 1112 Manatee Avenue W., Bradenton, FL 34205

**PROPOSAL SIGNATURE FORM
RFP #11-1568BG**

Firm Name

() _____
Telephone Number

Mailing Address:

City, State, Zip Code

The undersigned attests to his (her, their) authority to submit this proposal and to bind the firm herein named to perform as per agreement. If the firm is selected by the County the undersigned certifies that he/she will negotiate in good faith to establish an agreement to provide DESIGN/BUILD CONSTRUCTION SERVICES for LENA ROAD GAS ELECTRIC GENERATOR AND BUILDING for Manatee County, according to the requirements of this **RFP #11-1568BG**.

Signature

Witness Signature

Name and Title of Above Signer

Name and Title of Above Signer

Date: _____

Date: _____

Address of any branch office
Proposed to service Manatee County other than above

Name and Title of Firm's Representative for Manatee County

Telephone Number of Firm's Representative for Manatee County

Email Address of Firm's Representative for Manatee County

Attachment "A"

PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION

SWORN STATEMENT PURSUANT TO ARTICLE 6, MANATEE COUNTY PURCHASING CODE

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by _____
[print individual's name and title]

_____ for _____
[print name of entity submitting sworn statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is _____. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of the County's Purchasing Director, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such and entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common ownership or a common Board of Directors. For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests among family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Attachment "A" (Cont'd.)

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction, shall prove the same with documentation satisfactory to the County's Purchasing Director. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with the County.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT **SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.**

[Signature]

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 20__ by _____

Personally known _____ OR Produced identification _____
[Type of identification]

_____ My commission expires _____

Notary Public Signature

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

ATTACHMENT "B"

Drug Free Work Place Certification

SWORN STATEMENT PURSUANT TO SECTION 6-101(7)(B),
MANATEE COUNTY PURCHASING CODE

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by _____
[print individual's name and title]

_____ for _____
[print name of entity submitting sworn statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is: _____ (If the entity has no FEIN,

include the Social Security Number of the individual signing this sworn statement: _____.)

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it will provide a drug free work place by:

(1) providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined by § 893.02(4), Florida Statutes, as the same may be amended from time to time, in the person's or entity's work place is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:

- (i) the dangers of drug abuse in the work place;
- (ii) the person's or entity's policy of maintaining a drug free environment at all its work places, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;
- (iii) any available drug counseling, rehabilitation, and employee assistance programs; and
- (iv) the penalties that may be imposed upon employees for drug abuse violations.

(2) Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its work places a written statement of its policy containing the foregoing elements (i) through (iv).

(3) Notifying the employee in the statement required by subsection (1) that as a condition of employment the employee will:

- (i) abide by the terms of the statement; and

ATTACHMENT "B" (Cont'd.)

(ii) notify the employer of any criminal drug statute conviction for a violation occurring in the work place no later than five (5) days after such a conviction.

(4) Notifying the County within ten (10) days after receiving notice under subsection (3) from an employee or otherwise receiving actual notice of such conviction.

(5) Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(6) Making a good faith effort to continue to maintain a drug free work place through implementation of sections (1) through (5) stated above.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT:

- (1) Such person or entity has made false certification.
- (2) Such person or entity violates such certification by failing to carry out the requirements of sections (1), (2), (3), (4), (5), or (6) or subsection 3-101(7)(B); or
- (3) Such a number of employees of such person or entity have been convicted of violations occurring in the work place as to indicate that such person or entity has failed to make a good faith effort to provide a drug free work place as required by subsection 3-101(7)(B).

[Signature]

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ___ day of _____, 200__ by _____

Personally known _____ OR Produced identification _____
[Type of identification]

Notary Public Signature My commission expires _____

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

EXHIBIT A
BACKGROUND INFORMATION
FOR
LENA ROAD GAS ELECTRIC GENERATORS



Prepared for:

**Manatee County
Project Number 6008202
Utilities Department
3331 Lena Road
Bradenton, Florida 34211**

Prepared by:



**482 South Keller Road
Orlando, Florida 32810**

March 18, 2011

Lena Road Gas Electric Generators

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Appendix D Estimated Landfill Gas Production Rates for

Manatee County Class I Landfill for Years 1979 through 2044

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Appendix F Landfill Gas Sampling Report August 2, 2010

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Lena Road Gas Electric Generators

- Appendix H** Florida Power & Light Company – Interconnection Agreement for Customer-Owned Renewable Generation – Tier3 – Greater than 100kw and Less than or Equal to 2 MW (Effective October 1, 2008)
- Appendix I** Generator Information Requested by FPL for Interconnection Study
- Appendix J** Title V Air Construction Permit for LFG Fired Electric Generation Engines (3) at the Manatee County Lena Road Landfill

Lena Road Gas Electric Generators

Background Information

This document provides background information for the Manatee County Net Metering Project request for proposals for design-build-operate.

Project Description

Two generator sets will use landfill gas from the Lena Road Landfill (Landfill) to generate electricity. One generator will produce electricity for the Southeast Water Reclamation Facility (aka Southeast Regional Wastewater Treatment Plant (WWTP)). The second generator will supply electricity for the Biosolids Dryer Facility (Dryer). Background figures for the project are included in Appendix A. The project location is shown on Figure 1. Figure 2 is an aerial photograph showing the Landfill, WWTP and Dryer. The project site plan on Figure 3 shows the proposed locations for the generator sets and landfill gas treatment. The location of the existing landfill gas wells and flare station are shown on Figure 4. Manatee County will continue to operate the landfill gas collection system and flare.

Record Drawings

Appendix B includes record drawings for the WWTP that shows underground piping in the area of this proposed project. Appendix C includes the Manatee County Biosolids Dryer Facility Project Record Drawings. These drawings show the location of the underground landfill gas pipeline from the flare station to the Dryer. The Proposer's attention is called to the disclaimer on the record drawings. Manatee County makes no representation to the Proposer as to the accuracy of the provided record drawings, and the Proposer is responsible to field verify all necessary items prior to submitting his proposal.

Landfill Gas Quantity and Quality

Estimates of the landfill gas production rates for the Lena Road Landfill from 1979 through 2044 are included in Appendix D. The landfill is being filled in three stages in the following order: Stage I (which is full); Stage III (in operation), and Stage II (no waste). Table 1 is an estimate for all three stages. Table 2 is an estimate for Stage I Landfill only. Table 3 is for Stage III and Table 4 is for Stage II.

The amount of landfill gas collected is less than the estimated landfill gas production rate. The table in Appendix E is a summary of the landfill gas flow in SCFM and composition as measured at the flare station monthly from January 2009 through November 2010. Since the Stage III landfill gas collection system expansion was completed in June 2009, the flow of gas has ranged between 1,871 SCFM and 2,220 SCFM. Methane concentration has ranged between 45.4% and 54.7%. Oxygen concentration has ranged between 1.2% and 3.2%. By comparison, the estimated production rate for the Stage I and III landfill in 2010 from Table 1 in Appendix D is 2,641 SCFM at 50% methane. An expansion of the Stage III Landfill gas collection system is scheduled for 2011, and the 13 new wells will increase gas flow to the flare, and close the gap

Lena Road Gas Electric Generators

between the estimate and the actual amount of landfill gas collected. The Dryer uses 450 SCFM of landfill gas.

Appendix F includes laboratory test results of landfill gas samples.

Florida Power & Light Company (FPL) Net Metering Program

Manatee County has submitted an application to FPL for approval of the WWTP generator connection to the FPL grid through the FPL Net Metering Program. Manatee County will also submit an application for approval of the Dryer generator. Net metering is permitted under “Rule 25-6.065 Interconnection and Net Metering of Customer-Owned Renewable Generation”, which is included in Appendix G for reference. Appendix H includes the “FPL – Interconnection Agreement for Customer-Owned Renewable Generation – Tier 3 – Greater than 100 KW and less than or Equal to 2 MW (Effective October 1, 2008).”

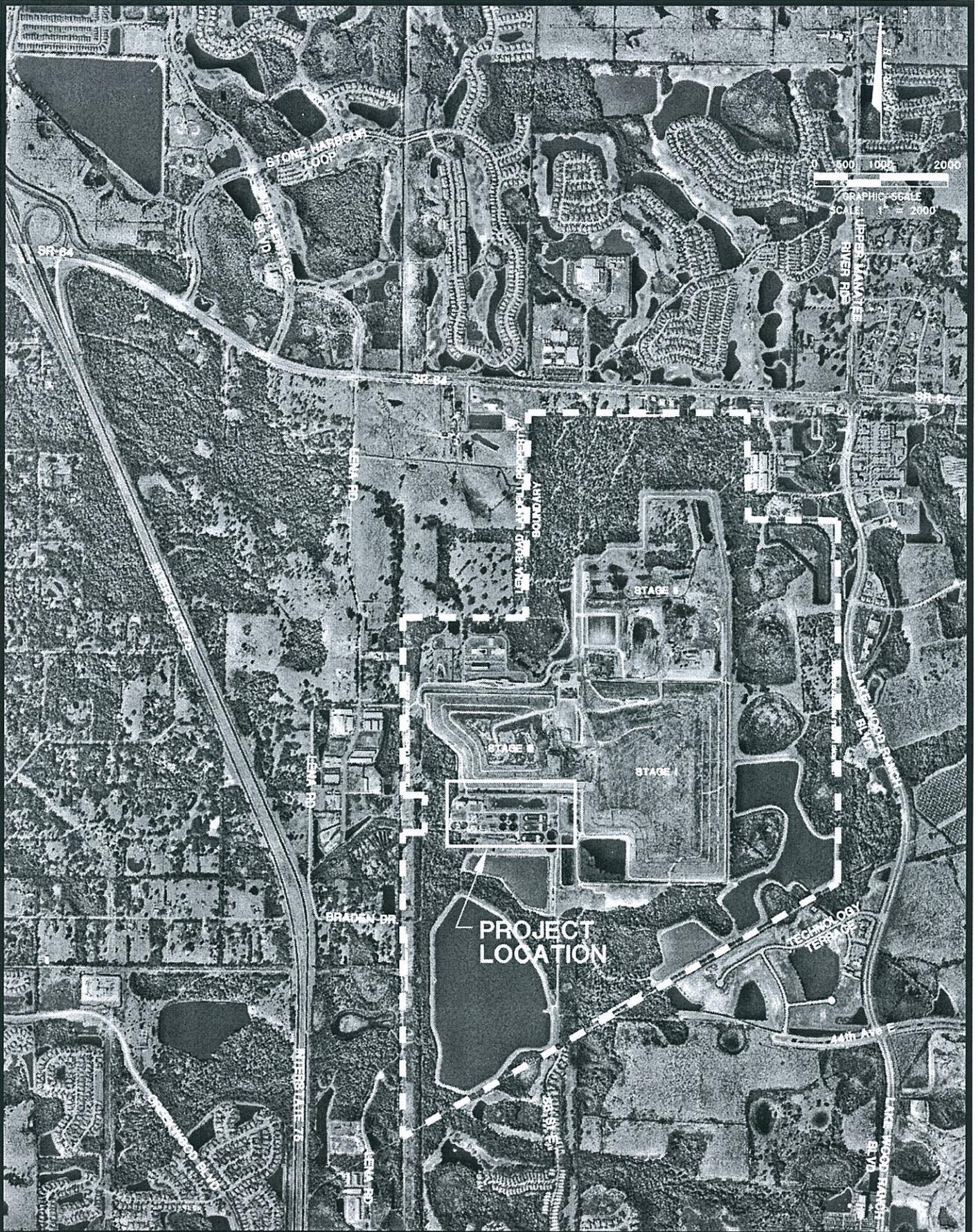
The selected Proposer will be responsible to coordinate the design and interconnection of the generators with the FPL system. FPL is conducting an Interconnection Study. In order to complete the Study, the selected Proposer will need to prepare and submit to FPL a one-line diagram for each generator and other specific information as listed in Appendix I. The Proposer will need to supply other information as requested by FPL to approve the interconnection.

Title V Air Construction Permit

Manatee County has a Title V Air Construction Permit for three landfill gas generators. A copy of the permit is included in Appendix J for reference.

Appendix A Figures

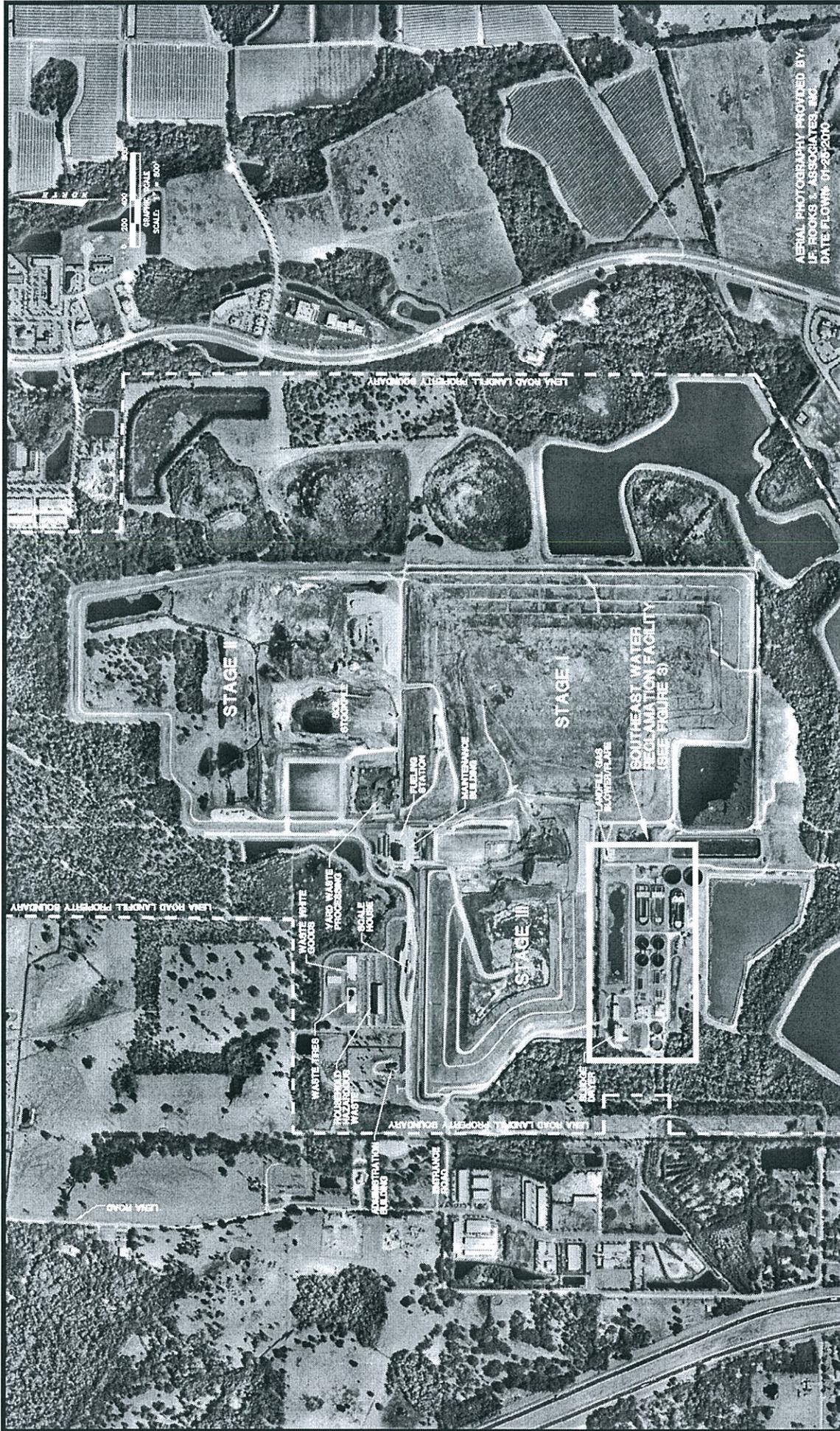
Figure 1	Location Map
Figure 2	Aerial Photograph
Figure 3	Site Plan
Figure 4	Stage I and Stage III Landfill Gas Collection System December 2010



**MANATEE COUNTY LENA ROAD LANDFILL AND
SOUTHEAST WATER RECLAMATION FACILITY
LENA ROAD GAS ELECTRIC GENERATORS
LOCATION MAP**

ADDRESS:
3331 LENA ROAD
BRADENTON, FL 34211
DATE: DEC. 2, 2010

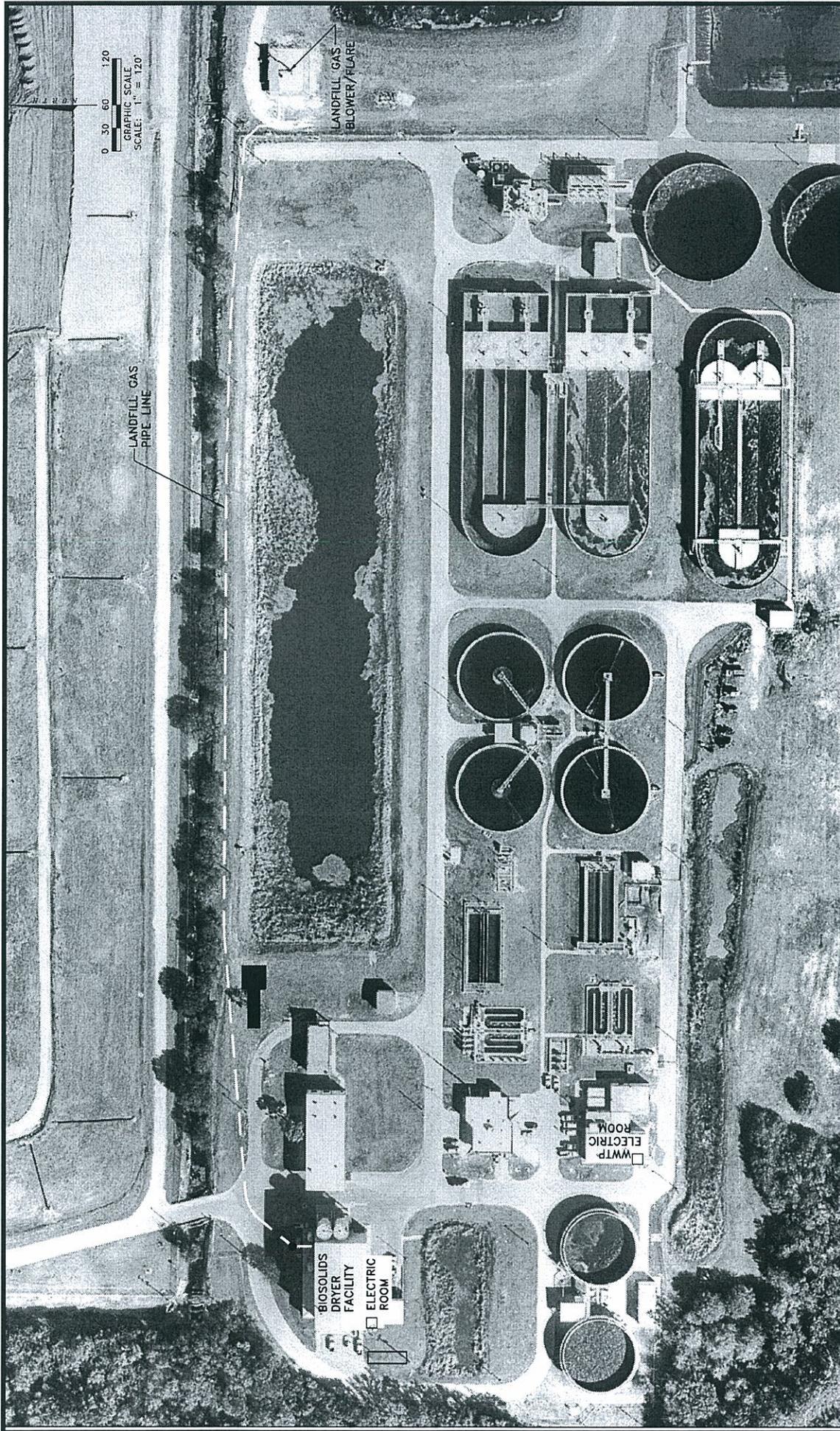
FIGURE 1



MANATEE COUNTY LENA ROAD LANDFILL AND
 SOUTHEAST WATER RECLAMATION FACILITY
 LENA ROAD GAS ELECTRIC GENERATORS
 AERIAL PHOTOGRAPH

FIGURE 2





PBS&J

PROPOSED LOCATION FOR LANDFILL GAS TREATMENT FACILITY AND GAS ENGINE FOR WWTP
 PROPOSED LOCATION FOR GAS ENGINE FOR BIOSOLIDS DRYER FACILITY

MANATEE COUNTY LENA ROAD LANDFILL AND
 SOUTHEAST WATER RECLAMATION FACILITY
 LENA ROAD GAS ELECTRIC GENERATORS
 SITE PLAN

08-11-11

FIGURE 3

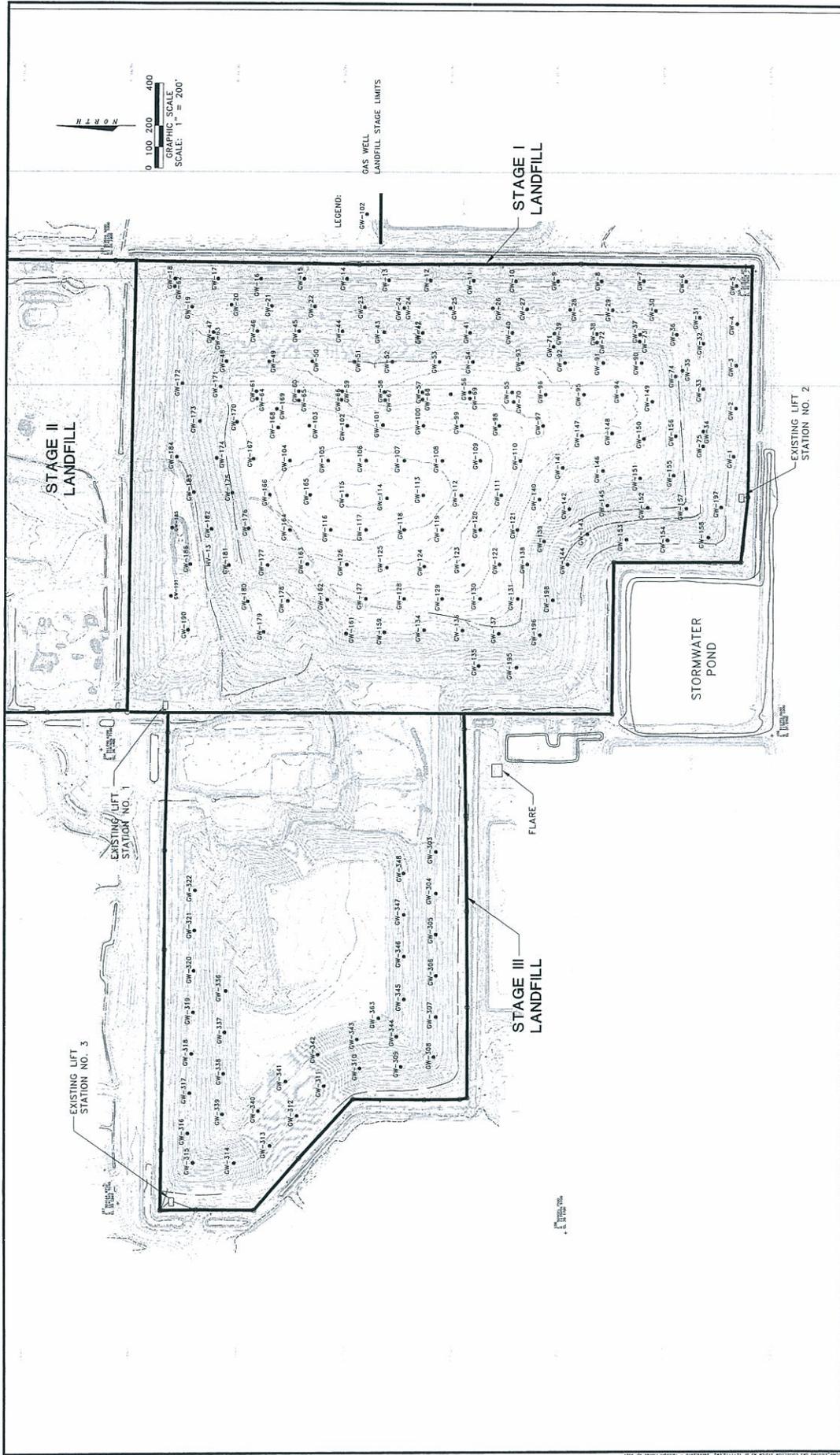
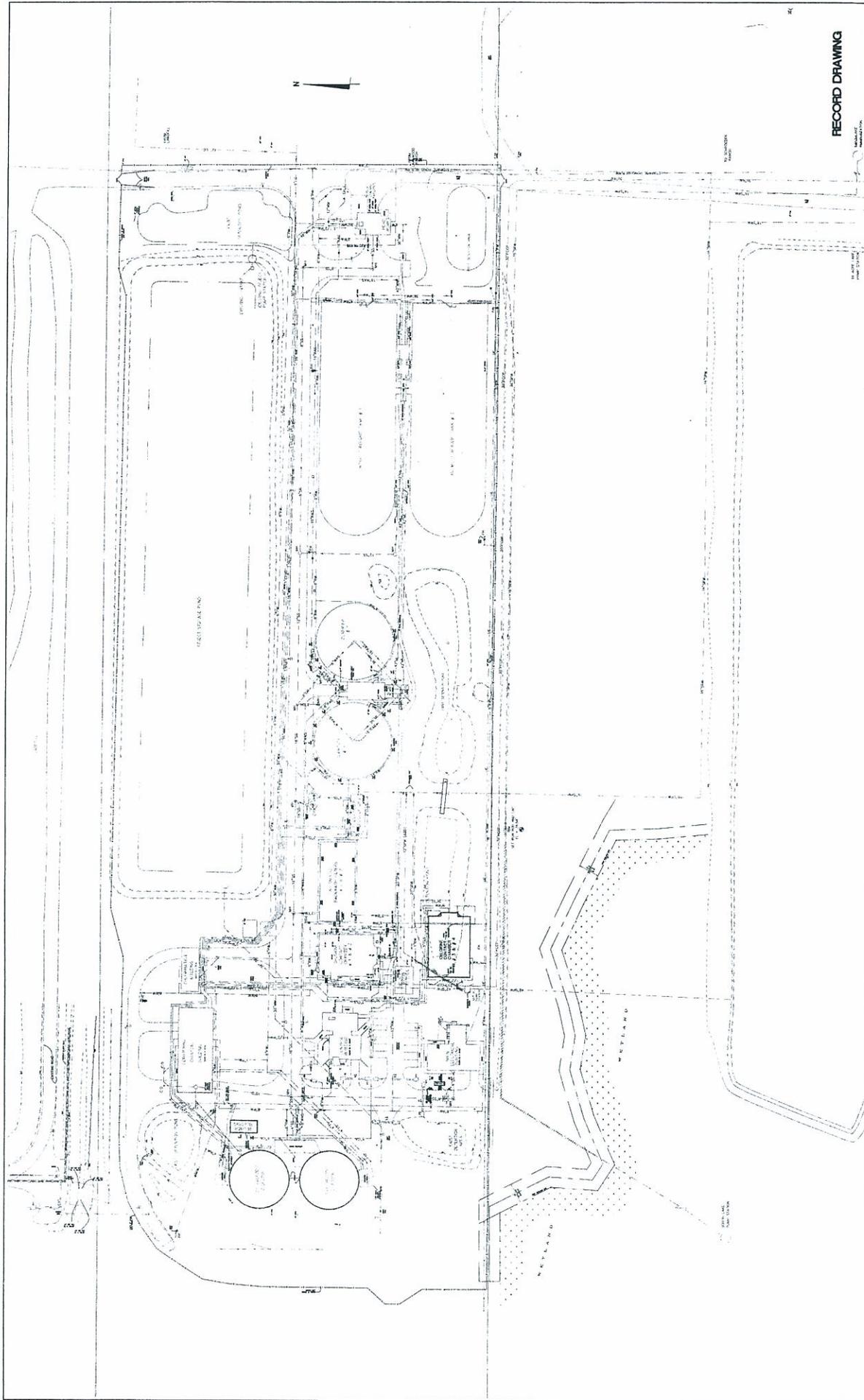


FIGURE 4

PBS&J 185 South US-90, Suite 201 Ocala, Florida 32668-4801 TEL: (352) 647-7775 FAX: (352) 647-7824 WWW.PBS&J.COM	CLIENT BOARD OF COUNTY COMMISSIONERS MANATEE COUNTY FLORIDA	PROJECT LENA ROAD CLASS I LANDFILL PERMIT RENEWAL 2009	TASK STAGE I AND STAGE III GAS COLLECTION SYSTEM DECEMBER 2010	ORIGINAL: <u>INDY_2009</u>	6. _____
				REVISIONS: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____	7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____
Name: <u>Jayna L. Miller</u> DRAWN: <u>RGC</u> Design: <u>JRG/JAM</u> 402 S. Miller Road Ocala, FL 32668-4801 Signature: _____ Title: _____				JOB NO. <u>100008517</u> CHECKED: <u>JLM</u> D.C.: _____ I.D.D. _____	SHEET

Appendix B Southeast Regional Wastewater Treatment Plant Expansion Record Drawings

- C-1 Existing Site Plan
- C-16 Yard piping Plan No. 1
- C-18 Yard Piping Plan No. 3



RECORD DRAWING

DATE	SCALE	DATE	SCALE
3/2003	AS SHOWN	3/2003	AS SHOWN
DATE PLOTTED	DATE PLOTTED	DATE PLOTTED	DATE PLOTTED
3/24/03	3/24/03	3/24/03	3/24/03
BY	BY	BY	BY
J. J. ...	J. J. ...	J. J. ...	J. J. ...
CHECKED	CHECKED	CHECKED	CHECKED
BY	BY	BY	BY
J. J. ...	J. J. ...	J. J. ...	J. J. ...

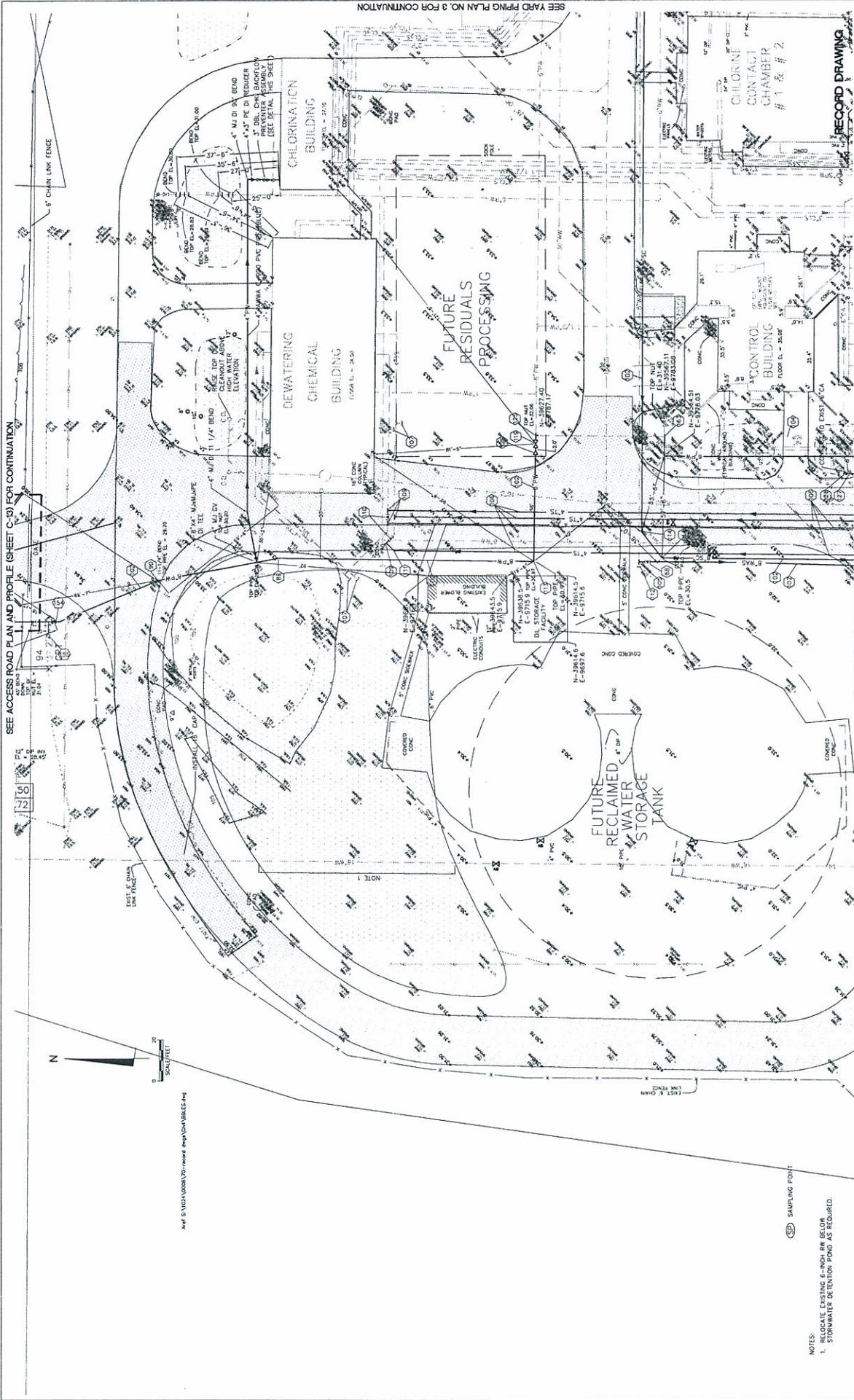
EXISTING SITE PLAN

**SOUTHEAST REGIONAL WASTEWATER
TREATMENT PLANT EXPANSION
MANATEE COUNTY**



DESIGNED	CHECKED	DATE
BY	BY	BY
J. J. ...	J. J. ...	J. J. ...

DATE	SCALE
3/24/03	AS SHOWN



SEE ACCESS ROAD PLAN AND PROFILE (SHEET C-30) FOR CONTINUATION

SEE YARD PIPING PLAN NO. 3 FOR CONTINUATION

SEE YARD PIPING PLAN NO. 2 FOR CONTINUATION



#44 S:\VICTA\0008\72--renew\mwp\CA\WBLLES.dwg

- NOTES:
1. RELOCATE EXISTING 6-INCH SW BELOW STORMWATER DETENTION POND AS REQUIRED

DATE	SCALE	LAYOUT NO.
7/20/07	HORIZONTAL 1" = 40'	
REV. NO. 1	VERTICAL 1" = 20'	
DATE	SCALE	LAYOUT NO.
10/24/08		
REV. NO. 2		
DATE	SCALE	LAYOUT NO.
05/20/11		
REV. NO. 3		

YARD PIPING PLAN
NO. 1

SOUTHEAST REGIONAL WASTEWATER
TREATMENT PLANT EXPANSION
MANATEE COUNTY

MCKIM & CREED
CLEARWATER
FLORIDA

DRAWN	DATE
DESIGNED	
CHECKED	
APPROVED	
PROJECT NO.	

NO.	DATE	BY	REVISION

RECORD DRAWING

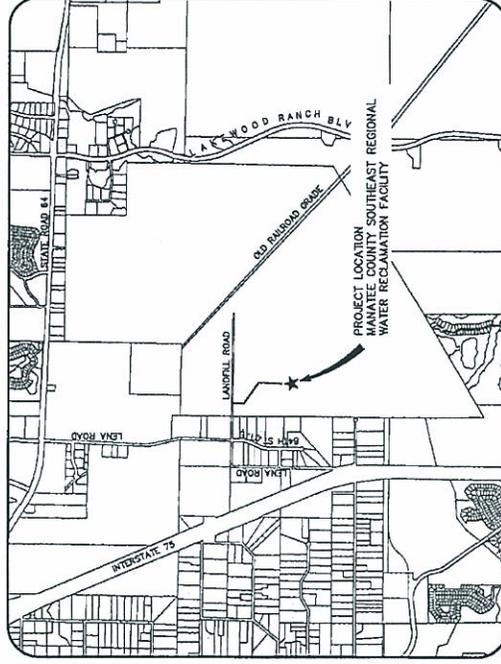
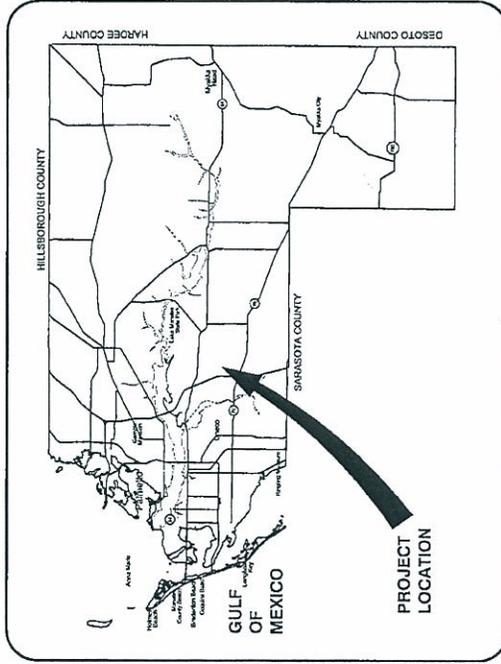
C-16

Appendix C Manatee County BDS – Biosolids Drying Project Record Drawings

G-001	Cover Sheet
C-200	Overall Utility Site Plan and Key Map
C-201	Utility Site Plan
C-202	Gas Line Installation Site Plan
C-301	Utility Conflict Sections and Profiles
C-302	Sanitary Sewer Profiles

MANATEE COUNTY BDS DESIGN/BUILD PROJECT

SECTION 1, TOWNSHIP 35 S, RANGE 18 E
MANATEE COUNTY, FLORIDA



MANATEE COUNTY GOVERNMENT
UTILITY OPERATIONS DEPARTMENT
4410 66TH STREET WEST
BRADENTON, FLORIDA 34210

ANDRITZ
ANDRITZ-RUTHER, INC.
1010 COMMERCIAL BLVD. SOUTH
ARLINGTON, TEXAS 76001
(817) 465-5611

2940 University Parkway
Sarasota, Florida 34243
Phone 941 358-6500
Fax 941 358-6540
www.kingengineering.com
Engineering License #2610

SURVEYED INDICATES THOSE CHANGES MADE DURING SURVEYOR'S FIELD WORK.

CONTRACTOR'S INDICATES THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON THE BEST AVAILABLE INFORMATION FURNISHED BY THE CONTRACTOR.

RECORD DRAWING

SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE INFORMATION PROVIDED BY THE CONTRACTOR AND OTHER SOURCES. I HAVE CONDUCTED A VISUAL GENERAL CHECK OF THE DRAWINGS AND BELIEVE THEM TO BE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE OF FIELD WORK: 08/08/06
DATE OF CERTIFICATION: 08/29/06

DATE OF FIELD WORK: 07/15/05
DATE OF CERTIFICATION: 07/29/05

COVER SHEET

MANATEE COUNTY, FLORIDA
SOLIDS DRYING PROJECT

RECORD SHEET

DATE: 08/29/06

PROJECT NO: 06-002

DRAWING NO: G-001

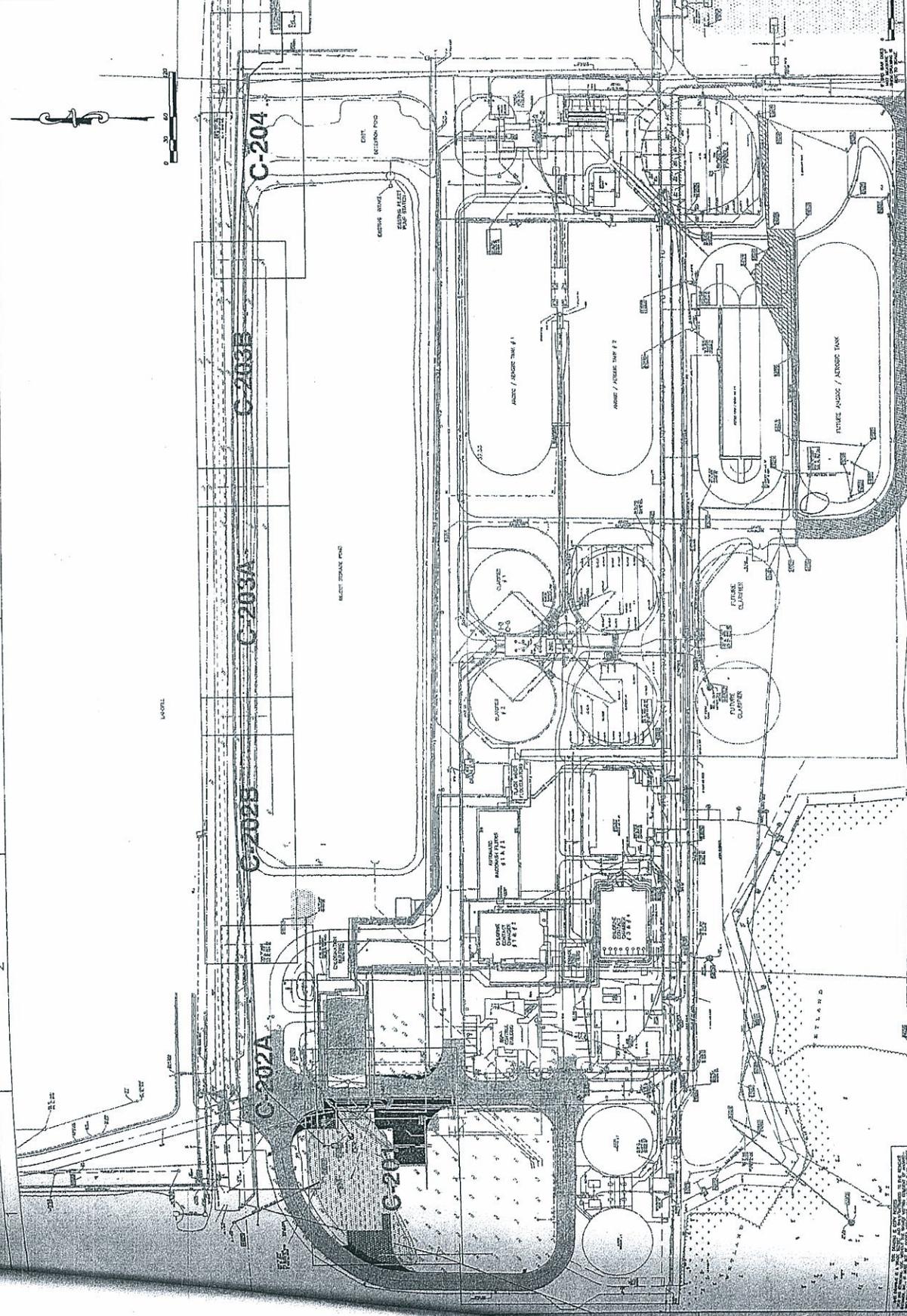
SHEET NO: 1 OF 1

REV	DATE	DESCRIPTION
1	12/15/05	90% SUBMITTAL
2	02/23/07	90% SUBMITTAL
3	02/23/07	90% SUBMITTAL
4	02/23/07	90% SUBMITTAL
5	02/23/07	90% SUBMITTAL
6	02/23/07	90% SUBMITTAL
7	02/23/07	90% SUBMITTAL
8	02/23/07	90% SUBMITTAL
9	02/23/07	90% SUBMITTAL
10	02/23/07	90% SUBMITTAL

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1010 COMMERCIAL BLVD. SOUTH
ARLINGTON, TEXAS 76001
(817) 465-5611

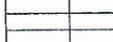
King
Professional Engineer
State of Florida
License No. 8658-002-000

AND KEY MAP OVERALL UTILITY SITE PLAN MAVATE COUNTY, FLORIDA SOLIDS DRYING PROJECT		SHEET NO. C-200 PROJECT NO. 8559-002-000 DATE 09/23/08
DATE 11/29/08 REVISION 8	DATE 08/29/08 REVISION 7	DATE 09/23/08 REVISION 6
DATE 08/29/08 REVISION 5	DATE 08/29/08 REVISION 4	DATE 08/29/08 REVISION 3
DATE 08/29/08 REVISION 2	DATE 08/29/08 REVISION 1	DATE 08/29/08 REVISION 0

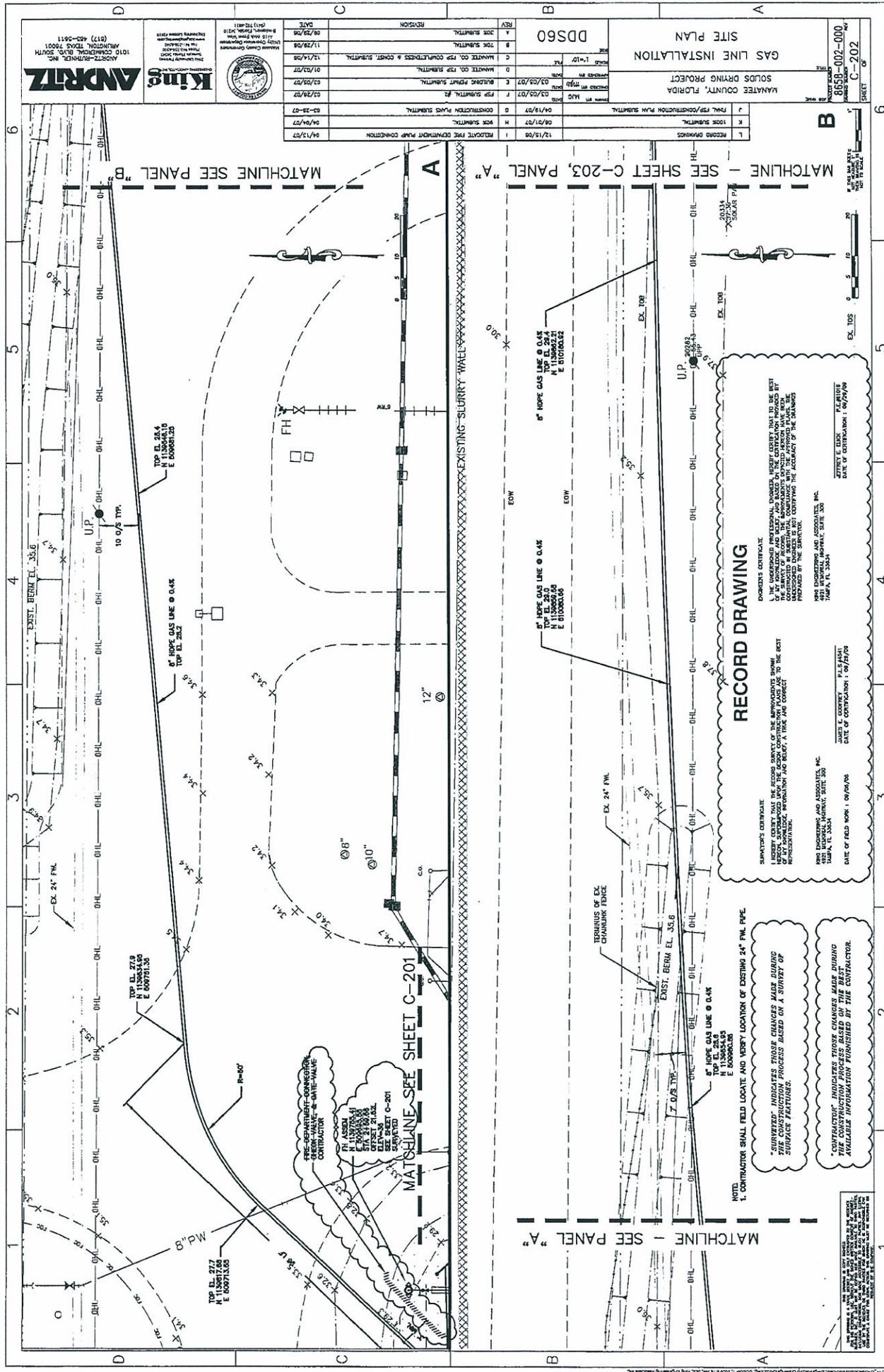


ANDRITZ
 1010 COMMERCIAL BLVD. SOUTH
 ARLINGTON, TEXAS 76010
 (817) 465-5811

KING
 1010 COMMERCIAL BLVD. SOUTH
 ARLINGTON, TEXAS 76010
 (817) 465-5811



NOT TO SCALE
 ALL DIMENSIONS TO BE SHOWN
 UNLESS OTHERWISE SPECIFIED
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MANNING MANUAL AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS AND BRIDGES, 2003 EDITION, AS AMENDED.



ANDRITZ
 1010 CONVENT ROAD, SUITE 100
 FORT WORTH, TEXAS 76104
 (817) 462-5611

Kings
 10000 Katy Road, Suite 100
 Houston, Texas 77058
 (281) 778-4111

REV	DATE	REVISION
1	12/14/08	ISSUE FOR PERMITS & CONSTRUCTION
2	01/02/07	REVISIONS TO PERMITS
3	02/28/07	REVISIONS TO PERMITS
4	03/05/07	REVISIONS TO PERMITS
5	04/19/07	REVISIONS TO PERMITS
6	04/19/07	REVISIONS TO PERMITS
7	04/19/07	REVISIONS TO PERMITS
8	04/19/07	REVISIONS TO PERMITS
9	04/19/07	REVISIONS TO PERMITS
10	04/19/07	REVISIONS TO PERMITS

MANATEE COUNTY, FLORIDA
 SOLIDS DRYING PROJECT
 GAS LINE INSTALLATION
 SITE PLAN
 DSS60

NO.	DESCRIPTION
1	RECORD DRAWING
2	CONSTRUCTION PLAN SUBMITTAL
3	PERMITS
4	PERMITS
5	PERMITS
6	PERMITS
7	PERMITS
8	PERMITS
9	PERMITS
10	PERMITS

RECORD DRAWING
 CONTRACTOR'S RESPONSIBILITY
 THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND STRUCTURES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

NOTES:
 1. CONTRACTOR SHALL FIELD LOCATE AND VERIFY LOCATION OF EXISTING 24" F.W. PIPE.
 2. CONTRACTOR SHALL FIELD LOCATE AND VERIFY LOCATION OF EXISTING 24" F.W. PIPE.
 3. CONTRACTOR SHALL FIELD LOCATE AND VERIFY LOCATION OF EXISTING 24" F.W. PIPE.

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ANDRITZ
 ANDRITZ-RIITNER, INC.
 1015 CANTONAL BLVD. SOUTH
 AUSTIN, TEXAS 78001
 (817) 462-5511

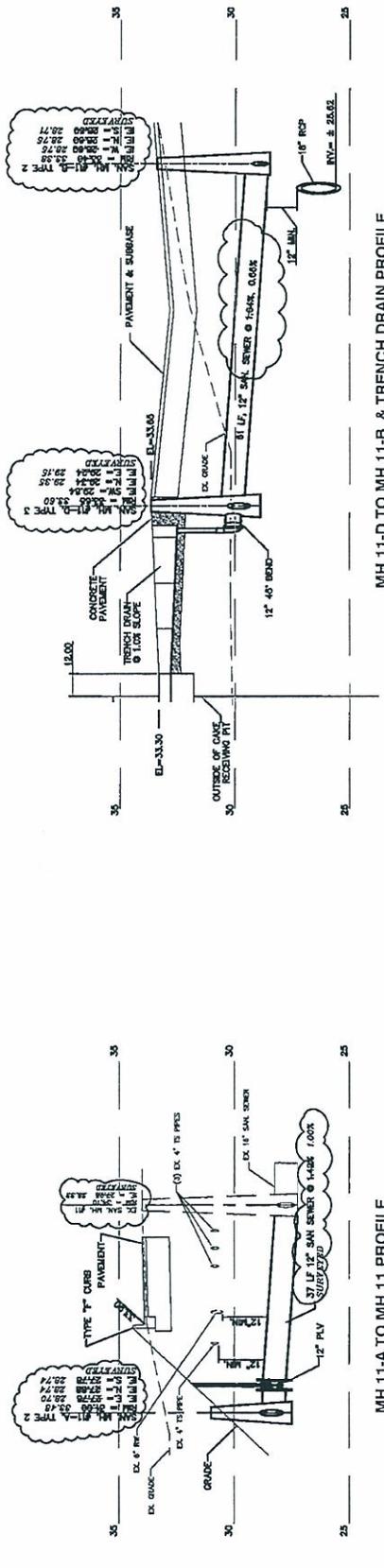
King
 King Construction
 12000 Highway 190
 Houston, Texas 77058
 (281) 792-8111



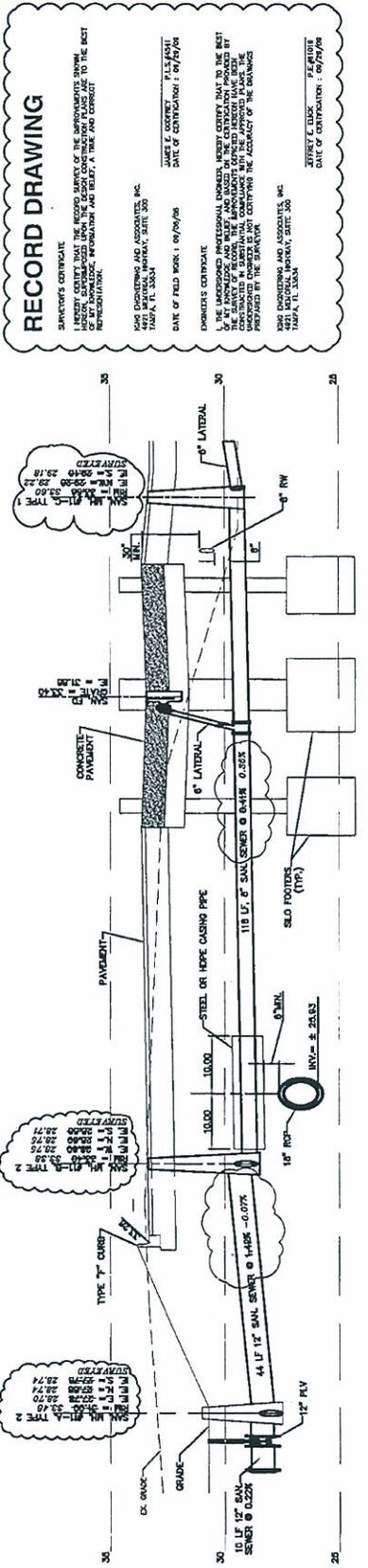
REV.	DATE	REVISION
H	12/13/04	RECORD CHANGES
G	09/01/07	100% SUBMITTAL
F	04/13/07	RELOCATE FIRE DEPARTMENT PUMP CONNECTION
E	04/24/07	90% SUBMITTAL
D	03/28/07	CONSTRUCTION PLANS SUBMITTAL
C	03/28/07	90% SUBMITTAL
B	03/28/07	CONSTRUCTION PLANS SUBMITTAL
A	03/28/07	CONSTRUCTION PLANS SUBMITTAL

MANATEE COUNTY, FLORIDA
 SOLIDS DRYING PROJECT
 SANITARY SEWER
 PROFILES

PROJECT NO. B6598-002-000
 SHEET NO. C-302
 OF 37



MH 11-D TO MH 11-B & TRENCH DRAIN PROFILE
 SCALE: 1" = 8' HORIZ.
 1" = 8' VERT.



MH 11-A TO MH 11-C PROFILE
 SCALE: 1" = 8' HORIZ.
 1" = 8' VERT.

RECORD DRAWING
 SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THE RECORD SURVEY OF THE IMPROVEMENTS SHOWN
 ON THESE PLANS WAS MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION
 AND THAT THE INFORMATION AND DATA HEREON ARE TRUE AND CORRECT
 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF AT THE TIME AND ACCORDING
 TO THE REQUIREMENTS OF THE STATUTES OF THE STATE OF FLORIDA.
 JAMES E. COONEY, P.L.S. 43411
 DATE OF CERTIFICATION: 06/25/04
 SURVEYOR'S OFFICE: J.E. COONEY & ASSOCIATES, INC.
 4425 INDUSTRIAL PARKWAY, SUITE 300
 TAMPA, FL 33604

"CONTRACTOR INDICATES THESE CHANGES WERE MADE
 TO THE PROJECT RECORD DURING THE CONSTRUCTION PROCESS BASED ON CURRENT OF
 AVAILABLE INFORMATION FURNISHED BY THE CONTRACTOR."

"SURVEYOR INDICATES THESE CHANGES WERE MADE
 TO THE PROJECT RECORD DURING THE CONSTRUCTION PROCESS BASED ON CURRENT OF
 AVAILABLE INFORMATION FURNISHED BY THE CONTRACTOR."

THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF ANDRITZ-RIITNER, INC. ANY CHANGES TO THIS DRAWING SHALL BE MADE BY A REGISTERED PROFESSIONAL ENGINEER OR SURVEYOR.

Appendix D Estimated Landfill Gas Production Rates for Manatee County Class I Landfill for Years 1979 through 2044

Table 1	Stage I, Stage II and Stage III Landfills Combined
Table 2	Stage I Landfill Only
Table 3	Stage III Landfill Only
Table 4	Stage II Landfill Only

TABLE 1
ESTIMATED LANDFILL GAS PRODUCTION RATES
FOR MANATEE COUNTY CLASS I LANDFILL
STAGE I, STAGE II AND STAGE III LANDFILLS COMBINED
DECEMBER 2010

Year	Annual Disposal tons	In Place Waste tons	Decomposed Waste tons	Landfill Gas SCFM
1979	96,921	96,921	2,159	37
1980	110,099	207,020	6,721	78
1981	123,420	330,440	13,931	123
1982	142,450	472,890	24,153	175
1983	161,810	634,700	37,751	232
1984	235,840	870,540	56,298	317
1985	238,260	1,108,800	79,739	400
1986	216,700	1,325,500	107,485	474
1987	245,300	1,570,800	140,075	557
1988	270,600	1,841,400	177,967	647
1989	292,600	2,134,000	221,531	744
1990	297,000	2,431,000	270,739	841
1991	295,900	2,726,900	325,442	935
1992	314,600	3,041,500	385,934	1034
1993	322,300	3,363,800	452,256	1133
1994	312,400	3,676,200	524,059	1227
1995	358,600	4,034,800	602,249	1336
1996	358,600	4,393,400	686,684	1443
1997	360,800	4,754,200	777,275	1548
1998	358,600	5,112,800	873,834	1650
1999	338,746	5,451,546	975,788	1742
2000	339,358	5,790,904	1,083,029	1832
2001	363,925	6,154,829	1,195,986	1930
2002	340,977	6,495,806	1,314,023	2017
2003	343,500	6,839,306	1,437,080	2102
2004	363,387	7,202,693	1,565,490	2194
2005	389,258	7,591,951	1,699,710	2293
2006	376,493	7,968,444	1,839,325	2385
2007	350,072	8,318,516	1,983,628	2465
2008	329,055	8,647,571	2,132,045	2536
2009	302,374	8,949,945	2,283,892	2594
2010	274,784	9,224,729	2,438,476	2641
2011	280,280	9,505,009	2,595,860	2689
2012	285,885	9,790,894	2,756,106	2738
2013	291,603	10,082,497	2,919,277	2788
2014	297,435	10,379,932	3,085,438	2839
2015	303,384	10,683,316	3,254,656	2891
2016	309,451	10,992,767	3,426,997	2944
2017	315,640	11,308,408	3,602,530	2999
2018	321,953	11,630,361	3,781,323	3055
2019	328,392	11,958,753	3,963,449	3112
2020	334,960	12,293,713	4,148,978	3170
2021	341,659	12,635,373	4,337,985	3229
2022	348,493	12,983,865	4,530,543	3290
2023	355,462	13,339,328	4,726,730	3352
2024	362,572	13,701,899	4,926,622	3415
2025	369,823	14,071,722	5,130,299	3480
2026	377,220	14,448,942	5,337,841	3546
2027	384,764	14,833,706	5,549,331	3613
2028	392,459	15,226,165	5,764,850	3682
2029	400,308	15,626,473	5,984,486	3753
2030	408,315	16,034,788	6,208,323	3824
2031	416,481	16,451,269	6,436,451	3898
2032	424,810	16,876,079	6,668,959	3972
2033	433,307	17,309,386	6,905,940	4049
2034	441,973	17,751,359	7,147,486	4127
2035	450,812	18,202,171	7,393,693	4207
2036	459,829	18,662,000	7,644,657	4288
2037	469,025	19,131,025	7,900,479	4371
2038	478,406	19,609,430	8,161,257	4455
2039	487,974	20,097,404	8,427,095	4542
2040	497,733	20,595,137	8,698,099	4630
2041	507,688	21,102,825	8,974,373	4720
2042	517,842	21,620,667	9,256,028	4812
2043	528,198	22,148,865	9,543,173	4906
2044	538,762	22,687,628	9,835,923	5002

Notes:

1. Landfill gas is produced at the rate of 0.1 cubic foot per pound of waste per year less decomposed waste.
2. Decomposed solid waste in pounds equals the previous years landfill gas / 4.49.
3. Solid waste landfilled after FY 2010 assumed to increase at the rate of 2% per year.
4. Estimated landfill design volume capacity is 32,636,600 cubic yards.
5. Estimated design capacity is 22,519,254 tons of solid waste at inplace density of 0.69 tons per cubic yard.

TABLE 2
ESTIMATED LANDFILL GAS PRODUCTION RATES
FOR MANATEE COUNTY CLASS I LANDFILL
STAGE I LANDFILL ONLY
DECEMBER 2010

Year	Annual Disposal tons	In Place Waste tons	Decomposed Waste tons	Landfill Gas SCFM
1979	96,921	96,921	2,159	37
1980	110,099	207,020	6,721	78
1981	123,420	330,440	13,931	123
1982	142,450	472,890	24,153	175
1983	161,810	634,700	37,751	232
1984	235,840	870,540	56,298	317
1985	238,260	1,108,800	79,739	400
1986	216,700	1,325,500	107,485	474
1987	245,300	1,570,800	140,075	557
1988	270,600	1,841,400	177,967	647
1989	292,600	2,134,000	221,531	744
1990	297,000	2,431,000	270,739	841
1991	295,900	2,726,900	325,442	935
1992	314,600	3,041,500	385,934	1034
1993	322,300	3,363,800	452,256	1133
1994	312,400	3,676,200	524,059	1227
1995	358,600	4,034,800	602,249	1336
1996	358,600	4,393,400	686,684	1443
1997	360,800	4,754,200	777,275	1548
1998	358,600	5,112,800	873,834	1650
1999	338,746	5,451,546	975,788	1742
2000	339,358	5,790,904	1,083,029	1832
2001	363,925	6,154,829	1,195,986	1930
2002	340,977	6,495,806	1,314,023	2017
2003	343,500	6,839,306	1,437,080	2102
2004	106,000	6,945,306	1,559,758	2096
2005		6,945,306	1,679,703	2049
2006		6,945,306	1,796,977	2004
2007		6,945,306	1,911,639	1959
2008		6,945,306	2,023,748	1915
2009		6,945,306	2,133,359	1873
2010		6,945,306	2,240,529	1831
2011		6,945,306	2,345,313	1790
2012		6,945,306	2,447,763	1750
2013		6,945,306	2,547,931	1711
2014		6,945,306	2,645,868	1673
2015		6,945,306	2,741,624	1636
2016		6,945,306	2,835,247	1600
2017		6,945,306	2,926,785	1564
2018		6,945,306	3,016,284	1529
2019		6,945,306	3,103,790	1495
2020		6,945,306	3,189,347	1462
2021		6,945,306	3,272,999	1429
2022		6,945,306	3,354,788	1397
2023		6,945,306	3,434,755	1366
2024		6,945,306	3,512,941	1336
2025		6,945,306	3,589,385	1306
2026		6,945,306	3,664,127	1277
2027		6,945,306	3,737,205	1249
2028		6,945,306	3,808,655	1221
2029		6,945,306	3,878,513	1194
2030		6,945,306	3,946,816	1167
2031		6,945,306	4,013,598	1141
2032		6,945,306	4,078,892	1116
2033		6,945,306	4,142,732	1091
2034		6,945,306	4,205,150	1066
2035		6,945,306	4,266,178	1043
2036		6,945,306	4,325,847	1019
2037		6,945,306	4,384,187	997
2038		6,945,306	4,441,227	975
2039		6,945,306	4,496,997	953
2040		6,945,306	4,551,525	932
2041		6,945,306	4,604,839	911
2042		6,945,306	4,656,965	891
2043		6,945,306	4,707,930	871
2044		6,945,306	4,757,761	851

Notes:

1. Landfill gas is produced at the rate of 0.1 cubic foot per pound of waste per year less decomposed waste.
2. Decomposed solid waste in pounds equals the previous years landfill gas / 4.49.
3. Solid waste landfilled after FY 2010 assumed to increase at the rate of 2% per year.
4. Estimated landfill design volume capacity is 32,636,600 cubic yards.
5. Estimated design capacity is 22,519,254 tons of solid waste at in place density of 0.69 tons per cubic yard.
6. Solid waste disposal moved from the Stage I Landfill to the Stage III Landfill on January 15, 2004

TABLE 3
ESTIMATED LANDFILL GAS PRODUCTION RATES
FOR MANATEE COUNTY CLASS I LANDFILL
STAGE III LANDFILL ONLY
DECEMBER 2010

Year	Annual Disposal tons	In Place Waste tons	Decomposed Waste tons	Landfill Gas SCFM
1979		-	-	0
1980		-	-	0
1981		-	-	0
1982		-	-	0
1983		-	-	0
1984		-	-	0
1985		-	-	0
1986		-	-	0
1987		-	-	0
1988		-	-	0
1989		-	-	0
1990		-	-	0
1991		-	-	0
1992		-	-	0
1993		-	-	0
1994		-	-	0
1995		-	-	0
1996		-	-	0
1997		-	-	0
1998		-	-	0
1999		-	-	0
2000		-	-	0
2001		-	-	0
2002		-	-	0
2003		-	-	0
2004	283,258	283,258	6,309	108
2005	389,258	672,516	21,146	254
2006	376,493	1,049,009	44,038	391
2007	350,072	1,399,081	74,218	516
2008	329,055	1,728,136	111,053	629
2009	302,374	2,030,510	153,803	730
2010	274,784	2,305,294	201,720	819
2011	280,280	2,585,574	254,813	907
2012	285,885	2,871,459	313,090	996
2013	291,603	3,163,062	376,564	1084
2014	297,435	3,460,497	445,248	1173
2015	303,384	3,763,881	519,160	1263
2016	309,451	4,073,332	598,317	1352
2017	315,640	4,388,973	682,742	1442
2018	321,953	4,710,926	772,456	1533
2019		4,710,926	860,173	1499
2020		4,710,926	945,936	1465
2021		4,710,926	1,029,788	1433
2022		4,710,926	1,111,774	1401
2023		4,710,926	1,191,933	1370
2024		4,710,926	1,270,307	1339
2025		4,710,926	1,346,935	1309
2026		4,710,926	1,421,857	1280
2027		4,710,926	1,495,110	1252
2028		4,710,926	1,566,732	1224
2029		4,710,926	1,636,759	1196
2030		4,710,926	1,705,226	1170
2031		4,710,926	1,772,168	1144
2032		4,710,926	1,837,619	1118
2033		4,710,926	1,901,612	1093
2034		4,710,926	1,964,181	1069
2035		4,710,926	2,025,355	1045
2036		4,710,926	2,085,168	1022
2037		4,710,926	2,143,648	999
2038		4,710,926	2,200,826	977
2039		4,710,926	2,256,730	955
2040		4,710,926	2,311,389	934
2041		4,710,926	2,364,831	913
2042		4,710,926	2,417,082	893
2043		4,710,926	2,468,170	873
2044		4,710,926	2,518,120	853

Notes

1. Landfill gas is produced at the rate of 0.1 cubic foot per pound of waste per year less decomposed waste.
2. Decomposed solid waste in pounds equals the previous years landfill gas / 4.49.
3. Solid waste landfilled after FY 2010 assumed to increase at the rate of 2% per year.
4. Estimated landfill design volume capacity is 32,636,600 cubic yards.
5. Estimated design capacity is 22,519,254 tons of solid waste at in place density of 0.69 tons per cubic yard.
6. Solid waste disposal moved from the Stage I Landfill to the Stage III Landfill on January 15, 2004
7. Solid Waste disposal moves from the Stage III Landfill to the Stage II Landfill in 2018.

TABLE 4
ESTIMATED LANDFILL GAS PRODUCTION RATES
FOR MANATEE COUNTY CLASS I LANDFILL
STAGE II LANDFILL ONLY
DECEMBER 2010

Year	Annual Disposal tons	In Place Waste tons	Decomposed Waste tons	Landfill Gas SCFM
1979		-	-	0
1980		-	-	0
1981		-	-	0
1982		-	-	0
1983		-	-	0
1984		-	-	0
1985		-	-	0
1986		-	-	0
1987		-	-	0
1988		-	-	0
1989		-	-	0
1990		-	-	0
1991		-	-	0
1992		-	-	0
1993		-	-	0
1994		-	-	0
1995		-	-	0
1996		-	-	0
1997		-	-	0
1998		-	-	0
1999		-	-	0
2000		-	-	0
2001		-	-	0
2002		-	-	0
2003		-	-	0
2004		-	-	0
2005		-	-	0
2006		-	-	0
2007		-	-	0
2008		-	-	0
2009		-	-	0
2010		-	-	0
2011		-	-	0
2012		-	-	0
2013		-	-	0
2014		-	-	0
2015		-	-	0
2016		-	-	0
2017		-	-	0
2018		-	-	0
2019	328,393	328,393	7,314	125
2020	334,961	663,354	21,925	250
2021	341,660	1,005,014	43,820	374
2022	348,493	1,353,507	72,989	498
2023	355,463	1,708,970	109,425	623
2024	362,572	2,071,543	153,125	747
2025	369,824	2,441,367	204,088	871
2026	377,220	2,818,587	262,317	995
2027	384,765	3,203,352	327,819	1119
2028	392,460	3,595,812	400,603	1244
2029	400,309	3,996,121	480,681	1368
2030	408,315	4,404,436	568,070	1493
2031	416,482	4,820,918	662,788	1618
2032	424,811	5,245,729	764,858	1744
2033	433,308	5,679,037	874,305	1870
2034	441,974	6,121,011	991,159	1996
2035	450,813	6,571,824	1,115,450	2124
2036	459,829	7,031,653	1,247,214	2251
2037	469,026	7,500,680	1,386,489	2380
2038	478,407	7,979,086	1,533,317	2509
2039	487,975	8,467,061	1,687,744	2638
2040	497,734	8,964,795	1,849,816	2769
2041	507,689	9,472,484	2,019,586	2901
2042	517,843	9,990,327	2,197,108	3033
2043	528,200	10,518,526	2,382,440	3166
2044	538,764	11,057,290	2,575,644	3301

Notes

1. Landfill gas is produced at the rate of 0.1 cubic foot per pound of waste per year less decomposed waste.
2. Decomposed solid waste in pounds equals the previous years landfill gas / 4.49.
3. Solid waste landfilled after 2010 assumed to increase at the rate of 2% per year.
4. Estimated landfill design volume capacity is 32,636,600 cubic yards.
5. Estimated design capacity is 22,519,254 tons of solid waste at in place density of 0.69 tons per cubic yard.
6. Solid Waste disposal moves from the Stage III Landfill to the Stage II Landfill in 2018.

**Appendix E Landfill Gas Composition and
Flow for January 2009 through
November 2010**

**MANATEE COUNTY
SOUTHEAST WATER RECLAMATION FACILITY
NET METERING PROJECT
LANDFILL GAS COMPOSITION AND FLOW
DECEMBER 2, 2010**

YEAR	MONTH	CH4 (%)	O2 (%)	FLOW (SCFM)
2009	JANUARY	45.4	2.9	1,443
	FEBRUARY	54.0	1.5	1,447
	MARCH	52.6	1.2	1,447
	APRIL	51.0	1.3	1,447
	MAY	51.0	1.5	1,447
	JUNE	51.3	1.2	1,990
	JULY	50.3	1.1	1,889
	AUGUST	49.4	1.6	1,976
	SEPTEMBER	51.8	1.5	2,029
	OCTOBER	NO READING ON THIS MONTH		
	NOVEMBER	50.9	1.8	1,910
	DECEMBER	53.0	2.2	1,995
2010	JANUARY	51.7	2.4	1,953
	FEBRUARY	50.0	3.2	1,991
	MARCH	52.7	1.9	1,995
	APRIL	50.0	1.5	1,843
	MAY	50.4	2.3	1,877
	JUNE	48.5	3.1	2,193
	JULY	48.6	2.3	2,117
	AUGUST	54.1	1.7	2,080
	SEPTEMBER	54.7	1.6	2,120
	OCTOBER	52.9	2.1	2,220
	NOVEMBER	53.4	1.9	1,871

NOTE: STAGE III LANDFILL GAS EXPANSION COMPLETED
JUNE 2009.