

**APPLICATION FOR A MINOR MODIFICATION  
OF THE OPERATION PERMIT  
AT THE TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA**

Submitted to:

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

2600 Blair Stone Road, MS #4565  
Tallahassee, Florida 32399

Submitted by:



**VOLUSIA COUNTY PUBLIC WORKS DEPARTMENT**

Solid Waste Division  
1990 Tomoka Farms Road  
Daytona Beach, Florida 32128  
Ph: 386-943-7891  
Fax: 386-947-2955

Prepared by:



**S2L, Incorporated**  
531 Versailles Drive, Suite 202  
Maitland, Florida 32751  
407-475-9163  
COA #7831

April 2014

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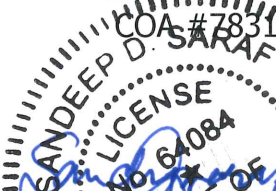
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COA #7831



Sandeep D. Saraf, P.E.

Florida Registration No. 64084

Date:

4-24-14



April 24, 2014

Mr. Cory Dewayne Dilmore, P.E.  
Solid Waste Section  
**Florida Department of Environmental Protection**  
2600 Blair Stone Road, MS #4565  
Tallahassee, Florida 32399-2400

**RE: Application for a Minor Modification of the Operation Permit  
at the Tomoka Farms Road Landfill  
Volusia County, Florida  
Existing FDEP Permit No. SO64-0078767-026**

Dear Mr. Dilmore:

On behalf of Volusia County Public Works Department Solid Waste Division (County), S2L, Incorporated (S2Li) is pleased to enclose an application for a minor modification to the Operations Permit for the Tomoka Farms Road Landfill (TRFL) located in Volusia County, Florida. The purpose of this request for the permit modification is to provide for the construction and operation of a Citizens Convenience Center (CCC) at the TRFL. The County is proposing the following:

- 1) The construction and operation of a CCC at the TRFL. The County will utilize this facility for the acceptance of Class III materials that are generated from household sources;
- 2) Reduce its tire storage and loading area to accommodate the proposed CCC; and
- 3) Tie-in to the existing stormwater collection pond, located to the east of the proposed CCC.

As directed by the Florida Department of Environmental Protection (Department) via an email dated January 27, 2014, this permit modification application also includes a completed Department Form 62-701.900(1), Part 'A' and Part 'S', in accordance with Chapter 62-701.320(5), Florida Administrative Code (FAC). This Form is provided in Section 1. An Engineering Report (Report), providing a brief narrative of the applicable Sections of Chapter 62-701, FAC is provided in Section 2. An Operation Plan of the proposed CCC is provided within Attachment A. This will be included as Appendix C to the TRFL Operation Plan. The table of contents for the TRFL Operation Plan has been updated to list the Operation Plan for the CCC, and is provided at the beginning of Attachment A. Drawings associated with the CCC are provided within Attachment B.

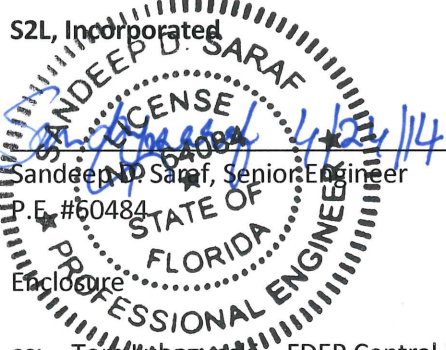
One (1) electronic copy of this application has been submitted for Department review. Additionally, based on the Department's January 27, 2014 email, the Department will handle the application as an *administrative modification with no fee required*.

Mr. Cory Dewayne Dilmore, P.E.  
Florida Department of Environmental Protection  
April 24, 2014  
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S2Li appreciates the Department's assistance in reviewing this permit modification application. If you have any questions or comments regarding the enclosed document, please contact Leonard Marion at (386) 943-7891 or me at 407-475-9163 or e-mail me at [ssaraf@s2li.com](mailto:ssaraf@s2li.com).

Sincerely,

S2L, Incorporated

  
Sandeep D. Saraf, Senior Engineer  
P.E. #60484

Enclosure

cc: Tom Lubczynski – FDEP Central District  
K. Rush – FDEP Central District  
Elizabeth Kromhout – FDEP Tallahassee  
Lenny Marion – Volusia County Solid Waste  
Junos Reed – Volusia County Solid Waste  
Jennifer Stirk – Volusia County Solid Waste  
Samuel Levin – S2L, Incorporated



## **SECTION 1**

**APPLICATION FORM 62-700.900(1)  
FLORIDA ADMINISTRATIVE CODE**



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(1), F.A.C.

Form Title: Application to Construct, Operate, Modify, or  
Close a Solid Waste Management Facility

Effective Date: August 12, 2012

Incorporated in Rule: 62-701.330(3), F.A.C.

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### APPLICATION TO CONSTRUCT, OPERATE, MODIFY, OR CLOSE A SOLID WASTE MANAGEMENT FACILITY

### APPLICATION INSTRUCTIONS AND FORMS

Northwest District  
160 Governmental Center  
Suite 308  
Pensacola, FL 32502-5794  
850-595-8300

Northeast District  
7777 Baymeadows Way West  
Suite 100  
Jacksonville, FL 32256-7590  
904-256-1700

Central District  
3319 Maguire Boulevard  
Suite 232  
Orlando, FL 32803-3767  
407-897-4100

Southwest District  
13051 North Telecom Pkwy  
Temple Terrace, FL 33637  
813-632-7600

South District  
2295 Victoria Ave, Suite 364  
P.O. Box 2549  
Fort Myers, FL 33901-3881  
239-344-5600

Southeast District  
400 North Congress Avenue  
Suite 200  
West Palm Beach, FL 33401  
561-681-6600

## INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

### I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of four copies of the application shall be submitted to the appropriate Department office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "Not Applicable" or "No Substantial Change". Information provided in support of the application shall be marked "Submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

### II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit Parts A through S
- B. Asbestos Monofills - Submit Parts A, B, C, D, E, F, I, K, M, O through S
- C. Industrial Solid Waste Disposal Facilities - Submit Parts A through S

**NOTE:** Portions of some Parts may not be applicable.

**NOTE:** For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A, B and C type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

### III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit Parts A, B, L, N through S
- B. Asbestos Monofills - Submit Parts A, B, M, O through S
- C. Industrial Solid Waste Disposal Facilities - Submit Parts A, B, L through S

**NOTE:** Portions of some Parts may not be applicable.

### IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

**V. Application Codes**

S	-	Submitted
LOCATION	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

**VI. Listing of Application Parts**

PART A:	GENERAL INFORMATION
PART B:	DISPOSAL FACILITY GENERAL INFORMATION
PART C:	PROHIBITIONS
PART D:	SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL
PART E:	LANDFILL PERMIT REQUIREMENTS
PART F:	GENERAL CRITERIA FOR LANDFILLS
PART G:	LANDFILL CONSTRUCTION REQUIREMENTS
PART H:	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS
PART I:	GEOTECHNICAL INVESTIGATION REQUIREMENTS
PART J:	VERTICAL EXPANSION OF LANDFILLS
PART K:	LANDFILL OPERATION REQUIREMENTS
PART L:	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS
PART M:	SPECIAL WASTE HANDLING REQUIREMENTS
PART N:	GAS MANAGEMENT SYSTEM REQUIREMENTS
PART O:	LANDFILL CLOSURE REQUIREMENTS
PART P:	OTHER CLOSURE PROCEDURES
PART Q:	LONG-TERM CARE
PART R:	FINANCIAL ASSURANCE
PART S:	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

**STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A  
SOLID WASTE MANAGEMENT FACILITY**

Please Type or Print

**PART A. GENERAL INFORMATION**

1. Type of disposal facility (check all that apply):

- |   |  |
|---|--|
| <input type="checkbox"/> Class I Landfill       | <input type="checkbox"/> Ash Monofill      |
| <input type="checkbox"/> Class III Landfill     | <input type="checkbox"/> Asbestos Monofill |
| <input type="checkbox"/> Industrial Solid Waste |  |
| <input type="checkbox"/> Other (describe):      |  |

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**NOTE:** Waste Processing Facilities should apply on Form 62-701.900(4), FAC;  
Yard Trash Disposal Facilities should notify on Form 62-701.900(3), FAC;  
Compost Facilities should apply on Form 62-709.901(1), FAC; and  
C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:

- ☐ Construction  
☐ Operation  
☐ Construction/Operation  
☐ Closure  
☐ Long-term Care Only

3. Classification of application:

- |                                  |  |
|----------------------------------|--|
| <input type="checkbox"/> New     | <input type="checkbox"/> Substantial Modification  |
| <input type="checkbox"/> Renewal | <input type="checkbox"/> Intermediate Modification |
|                                  | <input type="checkbox"/> Minor Modification        |

4. Facility name: \_\_\_\_\_

5. DEP ID number: \_\_\_\_\_ County: \_\_\_\_\_

6. Facility location (main entrance):

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7. Location coordinates:

Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_

Latitude: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " Longitude: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "

Datum: \_\_\_\_\_ Coordinate method: \_\_\_\_\_

Collected by: \_\_\_\_\_ Company/Affiliation: \_\_\_\_\_



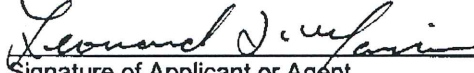


**PART 5. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER**

1. Applicant:

The undersigned applicant or authorized representative of Volusia County Solid Waste  
Division is aware that statements made in this form and attached information

are an application for a Minor Modification permit from the Florida Department of Environmental Protection, and certifies that the information in this application is true, correct, and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

  
Signature of Applicant or Agent

Leonard Marion  
Name and Title (please type)

lmarion@volusia.org  
E-Mail Address (if available)

1990 Tomoka Farms Road  
Mailing Address

Daytona Beach, Florida 32128  
City, State, Zip Code

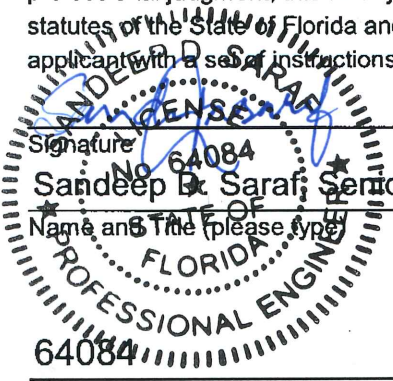
(386) 943-7891  
Telephone Number

Date: 4-24-14

Attach letter of authorization if agent is not a government official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this solid waste management facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

  
Signature

Sandeep B. Saraf, Senior Engineer  
Name and Title (please type)

64084  
Florida Registration Number (please affix seal)

531 Versailles Drive, Suite 202  
Mailing Address

Maitland, Florida 32751  
City, State, Zip Code

ssaraf@s2li.com  
E-Mail Address (if available)

(407) 475-9163  
Telephone Number

Date: 4-24-14

## **SECTION 2**

### **ENGINEERING REPORT**

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Section 1 Operation Plan for the CCC

Section 2 Engineering Drawings

## ENGINEERING REPORT

### 1. **EXECUTIVE SUMMARY**

The Tomoka Farms Road Landfill is owned and operated by the Volusia County Solid Waste Division and is located approximately three miles south of US 92 on Tomoka Farms Road in Section 10, Township 16 South, Range 32 East.

The County is proposing to construct and operate a Citizen's Convenience Center (CCC) at TRFL, to be located east of the household hazardous waste (HHW) facility, and south of the G.E.L. Materials Recovery Facility (MRF). An overall facility site plan is provided at the end of the Engineering Report on Figure 1-1. The CCC will provide a location for County residents to unload Class III waste material away from the landfill working face for safety purposes. A permit application for a minor modification of the operation permit # SO64-0078767-026 is being submitted to allow for the construction and operation of the CCC.

This Report complies with the requirements of Chapter 62-701, Florida Administrative Code (FAC), and includes Part "A" and Part "S" of the Florida Department of Environmental Protection (FDEP or Department) Application Form (62-701.900(1)). The rest of the sections of the Application Form (pages 6 through 35) were not required and, therefore, are not included with this Report. A description of the operations at the CCC is provided in Attachment A. Drawings, showing the facility location, site topography and site layout are provided in Attachment B.

Based on a January 27, 2014 email from the Department, this permit application will be handled as an administrative modification and is exempt from the requirements of a processing fee. Additionally, the County will notify the FDEP prior to the commencement of any construction/operation activity at the CCC.

### 2. **INTENT (Rule 62-701.100)**

This permit application conforms to the intent of Rule 62-701.710 (1)(c), FAC by documenting compliance with the established standards for the operation of waste processing facilities.

### 3. **GENERAL APPLICABILITY (Rule 62-701.710(1)(c))**

The CCC will serve as a drop off point for residents of Volusia County. Therefore, the facility is not subject to the requirements of Rule 62-701.710 for Waste Processing Facilities as per Rule 62-701.710 (1)(c)(2) provided:

- a. The CCC only accepts household waste, which may include yard trash;
- b. All waste which may produce leachate is containerized, and
- c. The facility only accepts waste from individual residential generators, while denying access to commercial waste haulers that collect municipal solid waste from multiple generators.

The CCC is also subject to Rule 62-701.710(1)(c), which requires the facility to be operated in a manner that will minimize the discharge of leachate to the environment and control objectionable odors, litter, dust, and other fugitive particulates.



**4. PERMIT FEES FOR SOLID WASTE MANAGEMENT FACILITIES  
(Rule 62-701.315)**

This facility is exempt from the requirements of a processing fee, per a January 27, 2014 email from the Department.

**5. SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL (Rule 62-701.320)**

The County is proposing to construct and operate a CCC at the TRFL, as discussed in Attachment A. One (1) electronic copy of this operation permit modification application has been submitted for Department review.

A Letter of Transmittal to the Department as well as Part 'A' and Part 'S' of Application Form (62-701.900(1), FAC) dated and signed by the applicant are enclosed. Pages 6 through 35 of the Application Form have not been included with this submittal, as per the Department's emailed instructions received January 27, 2014.

An Engineering Report (Report) addressing the requirement of Rule 62-701.710(1)(c), FAC is provided herein.

An Operation Plan for the proposed CCC is provided in Attachment A. Drawings for the proposed CCC are provided in Attachment B.

All engineering plans, reports, and supporting information for the application have been compiled by the engineer of record who shall be responsible for assurance that all technical components have been prepared under the direction and supervision of, and signed and sealed by, the professional registered in Florida in each contributing technical discipline. The engineer of record's signature and seal on the application affirms that the appropriate technical professional disciplines have been employed in development of the application.

As determined by the FDEP in the January 27, 2014 email, a Certificate of Construction Completion is not required for this facility. However, as requested, the FDEP will be notified prior to the commencement of construction and operation of the facility.

**5. OPERATIONAL REQUIREMENTS (Rule 62-701.710(1)(c))**

An Operation Plan is provided in Attachment A.

A discussion of leachate management, odor, litter, dust, and other fugitive particles is provided in the Operation Plan.

The County has an existing stormwater pond, located to the east of the proposed CCC that is currently collecting runoff from the surrounding area including the G.E.L. MRF, the tire storage and loading area, and the HHW facility. The County will be submitting documentation to the FDEP to demonstrate that this facility is exempt from the need for an ERP Permit or an ERP Permit modification. This documentation will be submitted under a separate cover.

## FIGURES

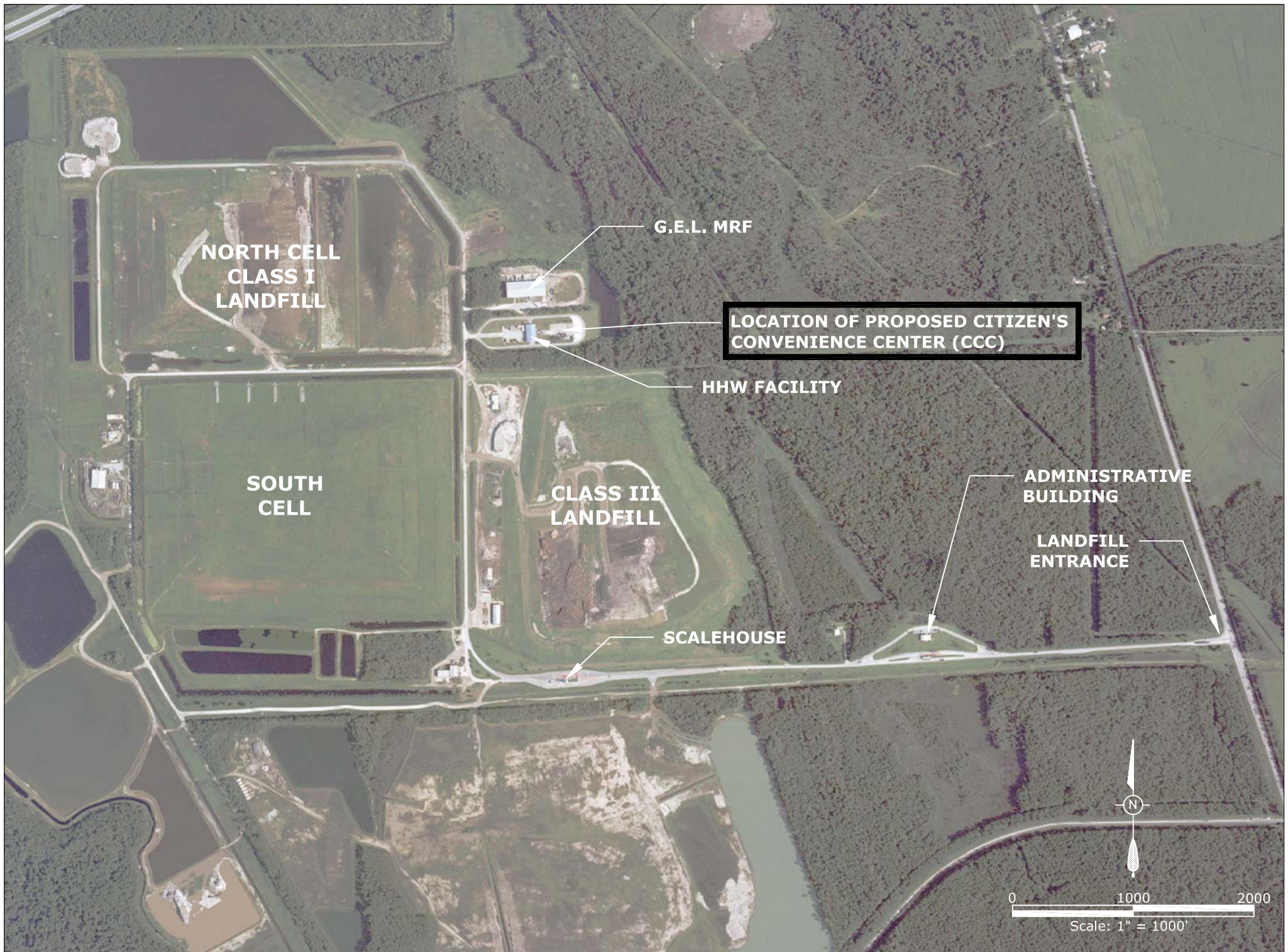


FIGURE 1-1 TOMOKA FARMS ROAD LANDFILL SITE PLAN

## **ATTACHMENT A**

**UPDATED TABLE OF CONTENTS FOR THE TRLF  
OPERATION PLAN TO ADD APPENDIX C – THE CITIZEN’S  
CONVENIENCE CENTER OPERATION PLAN**

**OPERATION PLAN FOR THE CITIZEN’S CONVENIENCE  
CENTER**

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**APPENDIX C**

**OPERATIONS PLAN**

**FOR THE**

**CITIZEN’S CONVENIENCE CENTER**

**1. Introduction**

This Operation Plan has been prepared for the Citizen’s Convenience Center (CCC) at the Tomoka Farms Road Landfill (TRFL). The CCC serves as a drop off point at the TRFL for residents of Volusia County seeking to dispose of their Class III materials such as yard waste, construction and demolition debris (C&D), carpet, cardboard, paper, glass, plastic, furniture other than appliances. Although not a Class III material, the County will accept white goods for recycling at the CCC. This facility will not accept waste from commercial waste haulers that collect municipal solid waste from multiple generators, Class I waste (e.g. garbage), nor unacceptable waste such as Household Hazardous Waste (HHW), whole tires, gas cylinders, white goods, batteries, etc. for disposal to the landfill.

**2. Facility Description**

The CCC is located east of the existing HHW facility, west of the existing tire storage and loading area, and south of the G.E.L. Materials Recovery Facility (MRF). The CCC occupies 0.7-acres and consists of an elevated reinforced concrete pad that measures approximately 130-feet x 75-feet. The total height of the pad on the west side is 4.5-feet above the existing ground surface, sloping slightly down towards the east to collect stormwater runoff. There is an entrance ramp from the local perimeter access road on the south side and exit ramp on the north side of the elevated pad to maintain one directional traffic flow. On the west side of the pad is a 6 foot high retaining wall, which then allows, on the elevated pad side, for an 18-inch curb serving as a back stop to prevent vehicles from driving into the storage containers. Additionally, 2-foot high removable wire mesh fence sections are placed on top of the 18-inch curb for safety purposes. There are 5 concrete paved spaces for 30-ft x 10-ft x 6 ft roll-off containers for storing various residential Class III materials. The containers are placed by the County adjacent to the retaining wall at 5 designated loading areas. When in position, the top of the containers are at the same elevation as the top of the retaining wall and 18-inch curb. County access to the loading areas for loading and unloading the roll off containers is by a concrete paved road that ties into an existing perimeter asphalt road. Stormwater inlets and piping are being improved for this location. Stormwater is collected and conveyed to an existing stormwater basin to the east of the CCC.

### 3. Operations

#### a) Load Checking, Unloading, and Materials Management

Residents first enter the TRFL and stop at the scale house where loads are visually inspected and weighed. If the scale house attendant classifies the load as residential Class III material, they direct the customer to the CCC. Signage will be in place to provide the residents directions to the CCC entrance. Vehicles enter the CCC from the south, up an inclined ramp and then are directed by a trained spotter to the appropriate waste container bay containing an empty or partially full container. Residents then back up their vehicle, at the appropriate waste container bay, unload their waste, into a storage container, and exit the facility. Signage will be in place to provide the residents directions to exit the landfill.

The County will maintain containers at all 5 loading bays except during the time a full container is being swapped out with an empty one. Once a container is observed to be full with Class III materials, a County vehicle will back-up to the full container, hook up and load the container, and haul the full container to the on-site Class III landfill. Materials, such as white goods and scrap metal are hauled to the local scrap yard for recycling; whereas, other recyclables, such as cardboard, are hauled to the onsite G.E.L. MRF for recycling. It is expected that loaded containers will be hauled away from the CCC 5-7 times a day, or more frequently, if needed. All hauling operations for the disposal of Class III materials are being conducted within the landfill property. No waste will be left within the containers for more than 24 hours, with the exception of scrap metal and cardboard. Due to the bulky nature of the material, the County may occasionally tamp down the load within the container to provide for additional space or to keep the load within the dimensions of the box. During this time of waste compaction, a customer may be directed to unload the waste into another container.

#### b) Trained Spotter

The County will have a spotter, trained in accordance with Rule 62-701.320(15), FAC, on site at all times to: a) direct unloading activities, b) monitor for unauthorized waste deliveries, and c) keep customers near their vehicles during unloading activities. On occasion, the spotter may be responsible for monitoring deliveries at both the HHW and the CCC, depending on the waste volume, staffing level, vacations, etc.

#### c) Unauthorized Wastes

A trained spotter is on site to direct unloading activities and monitor for unauthorized waste deliveries. The CCC will not accept waste from commercial waste haulers that collect municipal solid waste from multiple generators, Class I waste (e.g. garbage), nor unacceptable waste such as HHW, whole tires, gas cylinders, white goods, batteries, etc. for disposal in the



landfill. Customers with any of these waste streams will be directed to the appropriate location within landfill operations for proper disposal.

If a de-minimus quantity of Class I waste is found, this material will be pulled out of the container or segregated from the waste load and taken to the Class I landfill working face for disposal. Occasionally, whole tires that are delivered by a resident to the CCC will be segregated and relocated to the tire storage and loading area. HHW and other unauthorized waste such as propane tanks, used oil/gas, batteries, etc. are to be pulled and managed at the HHW or as according to Section 6.1 of the Landfill Operation Plan.

If a resident delivers a load that contains electronic-waste (e-waste), the customer will be directed to the HHW Center for proper sorting and temporary storage. If e-waste is brought to the CCC from a commercial business, the County will provide them with necessary information for means of disposal.

A list of unauthorized waste that is provided in Section 6.1 of the Landfill Operation Plan is provided below:

- Restricted materials.
- Regulated hazardous waste.
- Biomedical waste.
- Used oil filters.
- Compressed gas cylinders.
- PCB wastes.
- Household hazardous waste.

d) Operating Hours

The CCC will be open during normal landfill hours of 7:00 AM to 5:30 PM Monday through Saturday.

e) Dust and Other Fugitive Particles Control

Any dust generation from residential and County vehicles will be minimal since the CCC is completely paved with concrete and access to the CCC is via paved roads. However, if needed, the County will use a water wagon to minimize the potential for dust and other fugitive particle generation.

f) Leachate and Odor Control

The County will accept only Class III materials that are not putrescible in nature and are not expected to produce leachate that poses a threat to public health or the environment at the

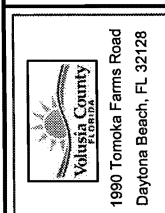
CCC. If needed, the County will have roll-off liners readily available to minimize leachate generation within the containers. However, de-minimus quantities of leachate, if generated as a result of incident precipitation, will be retained inside the containers. The County will empty the waste containers several times a day to minimize and odor generation. No waste will be left within the containers for more than 24 hours, with the exception of scrap metal and cardboard.

g) Litter Control

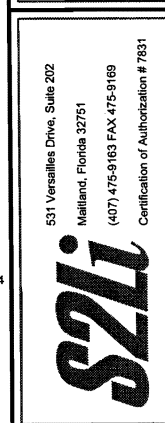
Litter is not expected to be generated as a result of the CCC Operations. However, occasionally, de-minimus quantity of litter may fall in between the container and push wall when residents unload waste into a container or fly out of the container when being hauled within the landfill. When needed, the County will pick up this litter by hand or by using a shovel or other litter collection device.

# **ATTACHMENT B**

## **DRAWINGS**

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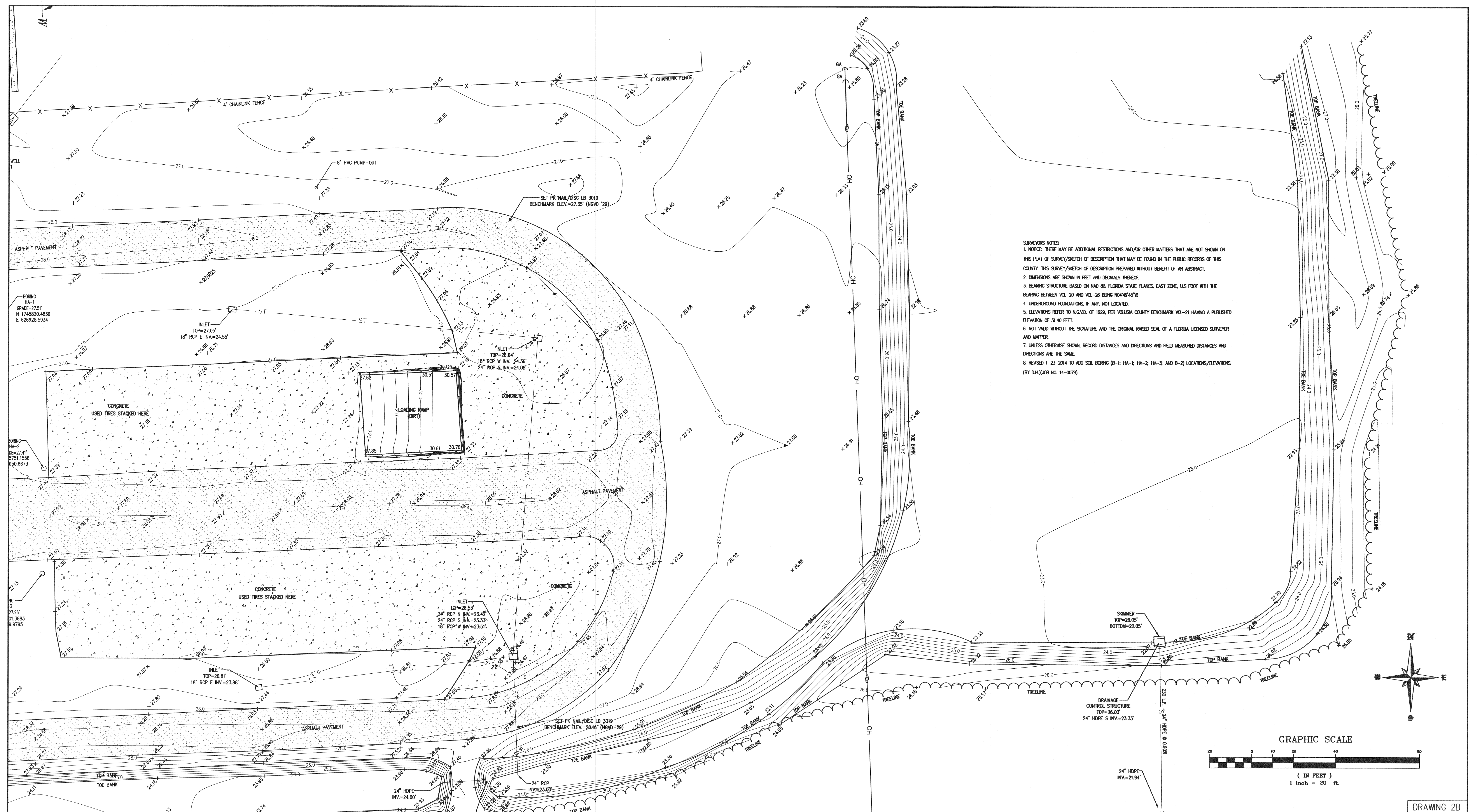
COVERSHEET  
CITIZEN'S CONVENIENCE CENTER  
TOMOKA FARMS ROAD LANDFILL



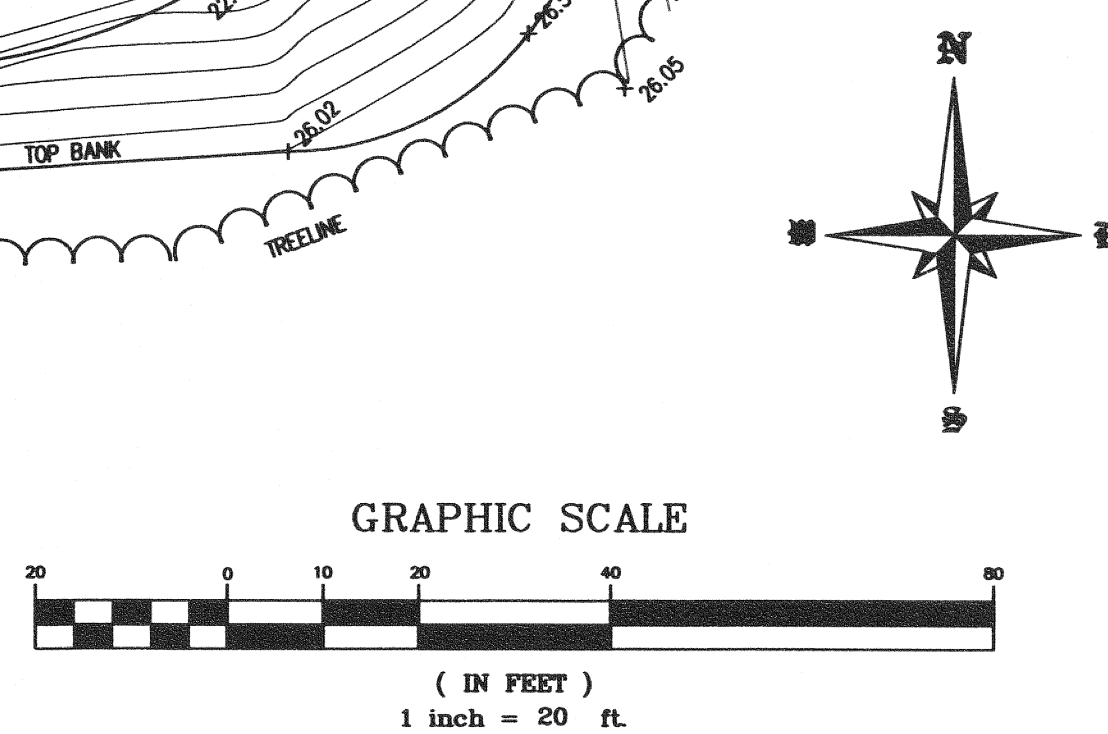
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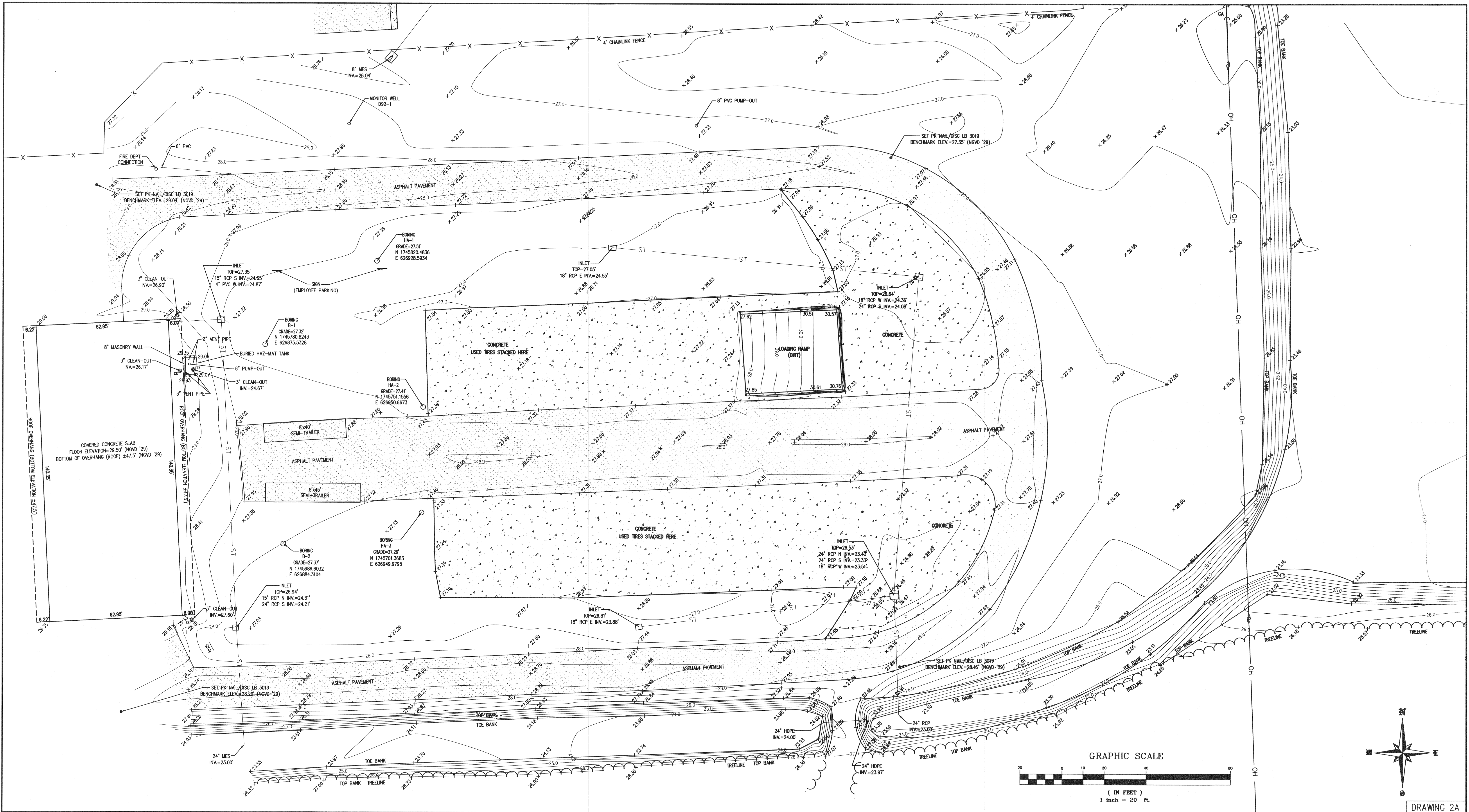
SURVEYOR'S NOTES:  
1. NOTICE: THERE MAY BE ADDITIONAL RESTRICTIONS AND/OR OTHER MATTERS THAT ARE NOT SHOWN ON THIS PLAT OF SURVEY/SKETCH OF DESCRIPTION THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. THIS SURVEY/SKETCH OF DESCRIPTION PREPARED WITHOUT BENEFIT OF AN ABSTRACT.  
2. DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.  
3. BEARING STRUCTURE BASED ON NAD 83, FLORIDA STATE PLANES, EAST ZONE, U.S. FOOT WITH THE BEARING BETWEEN VOL-20 AND VOL-26 BEING N04°48'45"W.  
4. UNDERGROUND FOUNDATIONS, IF ANY, NOT LOCATED.  
5. ELEVATIONS REFER TO N.G.V.D. OF 1929, PER VOLUSIA COUNTY BENCHMARK VOL-21 HAVING A PUBLISHED ELEVATION OF 31.40 FEET.  
6. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.  
7. UNLESS OTHERWISE SHOWN, RECORD DISTANCES AND DIRECTIONS AND FIELD MEASURED DISTANCES AND DIRECTIONS ARE THE SAME.  
8. REVISED 1-23-2014 TO ADD SOIL BORING (B-1; HA-1; HA-2; HA-3; AND B-2) LOCATIONS/ELEVATIONS.  
(BY D.H.) (JOB NO. 14-0079)



DRAWING 2B

<b>ABBREVIATIONS</b> W/ WITH CM CONCRETE MONUMENT TOB TOP OF BANK TOE TOE OF SLOPE CLS CENTERLINE OF SWALE STA STATION SAN SANITARY ES ELECTRIC SERVICE HDP HIGH DENSITY POLYETHYLENE PIPE VCP VITREOUS CLAY PIPE CV CHECK VALVE TC TOP COVER WV WATER VALVE TSB TRAFFIC SIGNAL BOX FH FIRE HYDRANT WM WATER METER LP LIGHT POLE IRV IRRIGATION VALVE GA GUY ANCHOR CPP CORRUGATED PLASTIC PIPE DIP DUCTILE IRON PIPE PVC POLYVINYL CHLORIDE DW DRIVEWAY D CENTRAL ANGLE R RADIUS L ARC LENGTH CS CHORD BEARING CH CHORD DISTANCE R/W RIGHT OF WAY FPLD CO FLORIDA POWER & LIGHT COMPANY NGVD NATIONAL GEODETIC VERTICAL DATUM USC & GS UNITED STATES COAST AND GEODETIC SURVEY CENTERLINE INV INVERT SEC SECTION TWP TOWNSHIP RGE RANGE R/W RIGHT OF WAY CONC CONCRETE EL ELEVATION (NR) NON RADIAL (R) RADIAL NAD NAD AND DISK RV REUSE VALVE RES RESIDENCE FIB FIBER OPTIC CABLE T BURIED TELEPHONE LINE W BURIED WATER LINE E BURIED ELECTRIC LINE B BURIED GAS LINE TV BURIED TELEVISION LINE FW BURIED FORCE MAIN OH OVERHEAD UTILITY LINE HAD HAD NAIL AND DISK (M) MEASURED DIMENSION (C) CALCULATED DIMENSION IRC IRON ROD & CAP MES MITERED END SECTION RCP REINFORCED CONCRETE PIPE CMP CORRUGATED METAL PIPE MH MANHOLE MB MAP BOOK ORB OFFICIAL RECORDS BOOK PG PAGE ID IDENTIFICATION (TYP) TYPICAL REC RECOVERED EB ELECTRIC BOX CMB CEMENT BOX SIGN SIGN TREE TREE FHY FIRE HYDRANT WM WATER METER GUY GUY ANCHOR UTILITY UTILITY POLE IRON ROD WITH CAP IRON PIPE TELEPHONE BOX TSB TRAFFIC SIGNAL BOX C/O CLEAN OUT CONCRETE MONUMENT PERMANENT REFERENCE MONUMENT LIGHT POLE LIGHT POLE WATER VALVE EXISTING ELEVATION CABLE TELEVISION BOX										<b>ADDITIONAL ABBREVIATIONS- TREE LEGEND</b> CP CAMPHOR TREE MP MAPLE TREE SC SYCAMORE TREE OK OAK TREE SG SWEET GUM TREE HK HICKORY TREE BH BIRCH TREE MG MAGNOLIA BY BAY TREE EM ELM TREE CT CHERRY TREE PN PINE TREE PM PALM TREE MU MULBERRY TREE TREE SIZE (INCHES) DIAMETER AT BREAST HEIGHT TREE TYPE OK24" 8 TREE SYMBOL MULTIPLE TRUNKS										<b>TOMOKA FARMS ROAD LANDFILL VOLUSIA COUNTY, FLORIDA</b>  <b>FOR: VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS</b>  <b>JOB NO. 13-0845</b>										<b>SURVEYOR'S CERTIFICATE</b> I HEREBY CERTIFY THAT THIS PLAT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G7-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.  J.E. ZAPERT, P.L.S. NO. 4066 CLYDE O. VAN KLEEK, JR., P.S.M. NO. 6149 STEVEN T. KRUGER, P.L.S. NO. 4722 MICHAEL S. MURPHY, P.S.M. NO. 6208 VALID WITH SIGNATURE & EMBOSSED SEAL ONLY																																							
<b>LEGEND</b> TSP TRAFFIC SIGNAL BOX C/O CLEAN OUT CONCRETE MONUMENT PERMANENT REFERENCE MONUMENT LIGHT POLE LIGHT POLE WATER VALVE EXISTING ELEVATION CABLE TELEVISION BOX										<b>SLIGER &amp; ASSOCIATES, INC.</b> PROFESSIONAL LAND SURVEYORS 3921 NOVA ROAD PORT ORANGE, FL. 32127 (386) 761-5385 www.sligerassociates.com LICENSED BUSINESS CERTIFICATION NUMBER 3019 Copyright © 2013 Sliger & Associates, Inc.										<b>SPECIFIC PURPOSE SURVEY</b>																																																	
<b>FOR: VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS</b> SCALE: 1" = 20' FIELD DATA FILE: 130845.RAW, 130845.TXT FIELD BOOK: 1335 PAGE(S): 40-41 SHEET 2 OF 2										<b>TYPE OF SURVEY</b> SPECIFIC PURPOSE : 10/30/2013 BOUNDARY SURVEY : TOPOGRAPHIC SURVEY : AS-BUILT SURVEY : FINAL IMPROVEMENTS : RE-CERTIFICATION :										<b>SURVEY DATE</b> 10/30/2013										<b>JOB NUMBER</b> 13-0845										<b>PARTY CHIEF</b> L. HOFFMAN										<b>DRAWN BY</b> D. HITCHCOCK										<b>CHECKED BY</b> J. ZAPERT									





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8. REVISED 1-23-2014 TO ADD SOIL BORING (B-1; HA-2; HA-3; AND B-2) LOCATIONS/ELEVATIONS. (BY D.H.) (JOB NO. 14-0079)

ABBREVIATIONS			
W/ WITH	TC TOP COVER	D RADIUS	RES RESIDENCE
CM CONCRETE MONUMENT	WV WATER VALVE	R ARC LENGTH	—FC— BURIED FIBER OPTIC CABLE
TGB TOP OF BANK	TSB TRAFFIC SIGNAL BOX	CL CHORD BEARING	—T— BURIED TELEPHONE LINE
TOE TOE OF SLOPE	FH FIRE HYDRANT	CB CHORD DISTANCE	—W— BURIED WATER LINE
SLS CENTERLINE OF SWALE	WM WATER METER	CONC CONCRETE	—E— BURIED ELECTRIC LINE
STA STATION	LP LIGHT POLE	FLRM FLORIDA POWER & LIGHT COMPANY	—G— BURIED GAS LINE
CO CLEANOUT	IV IRRIGATION VALVE	NSC NATIONAL SCIENTIFIC CENTER	—TV— BURIED TELEVISION LINE
SAN SANITARY	GA GUY ANCHOR	USC & GS UNITED STATES COAST AND GEODETIC SURVEY	—FM— BURIED FORCE MAIN
ES ELECTRIC SERVICE	CPP CORRUGATED PLASTIC PIPE	© CENTERLINE	—OH— OVERHEAD UTILITY LINE
HDP HIGH DENSITY POLYETHYLENE PIPE	DRIP DUCTILE IRON PIPE		(P) PLATED DIMENSION
VCP VITREOUS CLAY PIPE	PVC POLYVINYL CHLORIDE		(TYP) TYPICAL
CV CHECK VALVE	DW DRAINWAY		(M) MEASURED DIMENSION
			(C) CALCULATED DIMENSION

LEGEND	
TSB TRAFFIC SIGNAL BOX	CO CLEAN OUT
CM CONCRETE MONUMENT	PM PERMANENT REFERENCE MONUMENT
LP LIGHT POLE	PC PERMANENT CONTROL POINT
WM WATER METER	UP OUT ANCHOR
IV IRRIGATION VALVE	WV WATER VALVE
IR IRON ROD WITH CAP	IP IRON PIPE
IR IRON ROD	OR OR
IP IRON PIPE	PC PAGE
OR OR	ID IDENTIFICATION
PC PAGE	(TYP) TYPICAL
ID IDENTIFICATION	(M) MEASURED DIMENSION
(TYP) TYPICAL	(C) CALCULATED DIMENSION
(M) MEASURED DIMENSION	REC RECOVERED
(C) CALCULATED DIMENSION	

FOR: VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS					
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TYPE OF SURVEY	SURVEY DATE	JOB NUMBER	PARTY CHIEF	DRAWN BY	CHECKED BY
SPECIFIC PURPOSE	10/30/2013	13-0845	L. HOFFMAN	D. HITCHCOCK	J. ZAPERT
BOUNDARY SURVEY					
TOPOGRAPHIC SURVEY					
AS-BUILT SURVEY					
FINAL IMPROVEMENTS					
RECERTIFICATION					

**SLIGER & ASSOCIATES, INC.**  
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PORT ORANGE, FL 32127  
(386) 781-5385  
www.sligerassociates.com  
LICENSED BUSINESS CERTIFICATION NUMBER 3019  
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**TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA**

**FOR: VOLUSIA COUNTY DEPARTMENT  
OF PUBLIC WORKS**

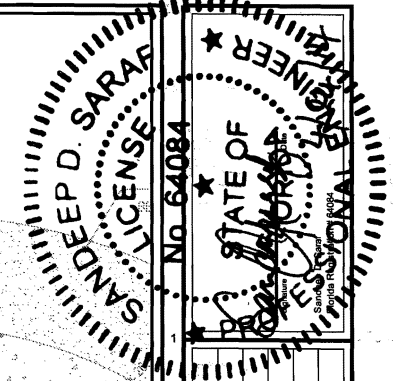
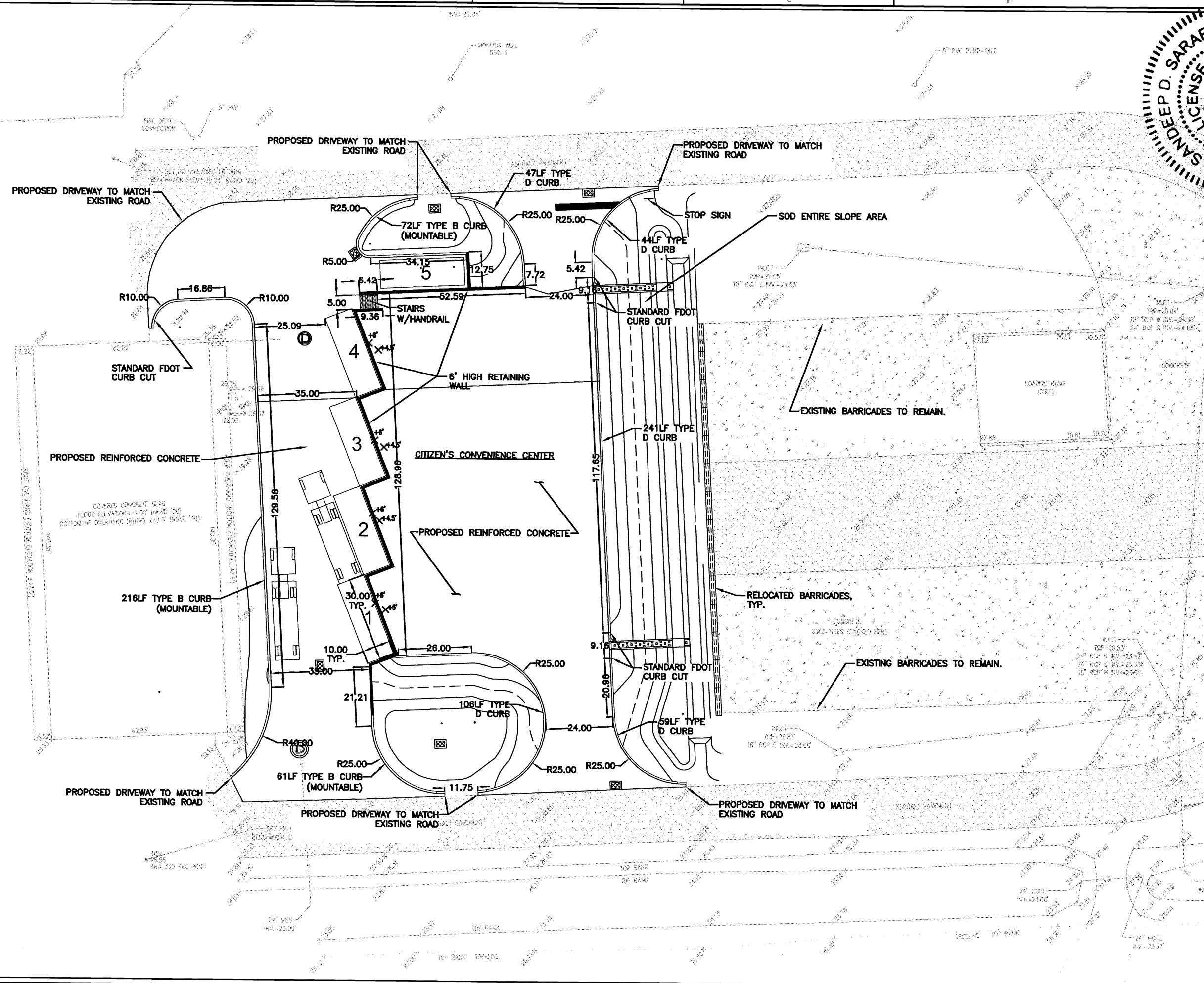
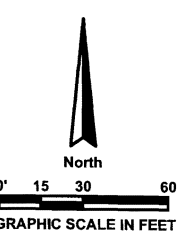
**JOB NO.  
13-0845**

**SPECIFIC  
PURPOSE  
SURVEY**

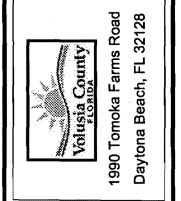
I HEREBY CERTIFY THAT THIS PLAT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 55-17.05, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

J.E. ZAPERT, P.L.S. NO. 4046  
STEVEN J. KRUGER, P.L.S. NO. 4722  
C.O. VAN KLEECK, JR., P.S.M. NO. 6149  
MICHAEL S. MURPHY, P.S.M. NO. 6208





REV.	DATE	BY	CHKD.	REMARKS
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**SITE LAYOUT**  
**CITIZEN'S CONVENIENCE CENTER**  
**TOMOKA FARMS ROAD LANDFILL**

531 Versailles Drive, Suite 202  
Maitland, Florida 32751  
(407) 475-9163 FAX 475-9169  
Certification of Authorization # 7831



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**3**

Z:\DRAWING FILES\Volusia County\13-004 Citizens Convenience Center Design\Permit application\Revised Site Plan.dwg Apr 24, 2014 - 11:33 am