



FILE

**DEPARTMENT OF ENVIRONMENTAL  
PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Processing and  
Composting Facility**

**Solid Waste Management Facility Permit  
Operation of a Solid Waste Facility for the  
Production of Compost Permit  
Waste Tire Collection Center Permit**

PREPARED FOR:



**SUMTER COUNTY BOARD OF COUNTY  
COMMISSIONERS  
209 NORTH FLORIDA STREET  
BUSHNELL, FLORIDA 33513**

921100.008

August 1, 1997

**Springstead Engineering, inc.**

Consulting Engineers – Architects – Planners – Surveyors

727 South 14th Street

Leesburg, Florida 34748

Lake (352) 787-1414

Sumter (352) 793-3639

Fax (352) 787-7221



**Springstead  
Engineering, Inc.**

Consulting Engineers - Architects - Planners - Surveyors

EB - 0001723  
AA - 0002820  
LB - 0001723

727 South 14th Street  
Leesburg, Florida 34748

Lake (352) 787-1414  
Sumter (352) 793-3639  
Fax (352) 787-7221

August 1, 1997

Ms. Susan J. Pelz, P.E.  
Southwest District  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RE: Solid Waste Management Facility  
Application to Renew Permits for Composting, Materials Recovery,  
Long Term Care and Waste Tire Collector  
Sumter County Recycling, Processing and Composting Facility  
921100.008**

Dear Ms. Pelz:

Please find enclosed the applications for "Solid Waste Management Facility", "Production of Compost from Solid Waste (Operation)" and "Waste Tire Collection Center Permit Application" along with the attachments necessary to support these applications, a letter which authorizes Mr. Garry Breeden to sign as agent, a letter and resolution regarding fees for small counties and three checks in the amount of \$100.00.

Should you have any questions or require additional information, please contact me.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

David W. Springstead, P.E.  
Florida Registration No. 48229

DWS/jal

cc: Garry Breeden - Sumter County Public Works  
Terry Hurst - Sumter County Composting, Processing and Recycling Facility  
Mitch Kessler - TIA Solid Waste Consultants

(August 1, 1997 - a:cover.ltr)

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**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Composting and Processing Facility**

<b>SECTION 1</b>	<b>..... Introduction</b>
<b>SECTION 2</b>	<b>..... Solid Waste Management Facility Permit</b>
<b>SECTION 3</b>	<b>Operation of a Solid Waste Facility for the Production of Compost Permit</b>
<b>SECTION 4</b>	<b>..... Waste Tire Collection Center Permit</b>

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Composting and Processing Facility**

**SECTION 1 - INTRODUCTION**



ENGINEERING REPORT FOR RENEWAL OF OPERATING PERMITS  
SUMTER COUNTY RECYCLING, PROCESSING, AND COMPOSTING FACILITY  
SUMTERVILLE, SUMTER COUNTY, FLORIDA

## INTRODUCTION AND SCOPE

### Purpose

This document has been prepared under the direction of the Sumter County Board of County Commissioners - Department of Public Works for the purpose of submitting a completed permit application to the Florida Department of Environmental Protection (FDEP) in order to renew the operating permit for materials recovery and composting of solid waste, longterm care of a closed Class I cell, and a Waste Tire Collection permit at the Sumter County Recycling, Processing and Composting Facility in Sumterville, Sumter County, Florida.

### Site Location

The subject facility is located south of County Road 470 approximately 1 mile east of Interstate Highway 75 in Sumterville, Sumter County, Florida (Sections 15 and 22, Township 20 South, Range 22 East). The general site location is shown on the Site Location Map presented on Figure 1.

### Status of County

Sumter County is a small, rural west central Florida county with a population of approximately 39,000. Sumter County is currently at the 10 mil cap for ad valorem taxes and has been for the past seven years. The unemployment rate in the county is about 10% which is above the state average. Resources are extremely limited. It is the County's intent that the solid waste facilities provide an environmentally sound and cost effective method of solid waste disposal to County residents for an extended period of time.

### Site History

This solid waste facility site was originally permitted by FDER as a Class I landfill in 1975. As the landfill began to reach capacity and the State of Florida passed laws requiring recycling, the officials of Sumter County realized the need for a different approach to the County's methods of treatment of solid waste.

After reviewing the options which were available at the time for treating solid waste, Sumter County chose the process of MSW composting to provide solid waste management along with extensive resource recovery to separate out and retrieve recyclables. It was the County's intent to plan for the future by establishing

environmentally acceptable and economically feasible methods to process solid waste. As the site Class-I landfill was being closed, the County was constructing one of the first resource recovery/MSW solid waste composting facilities in the state. Sumter County began composting Class I solid waste in 1988. Since beginning operation, this facility has provided continuous processing of solid waste by composting, recovering recyclables and ultimately disposing of inert solid waste at FDEP approved facilities. Additional composting pad space, process areas and processing equipment have been systematically added to streamline the resource/recovery and composting process.

Sumter County has purchased 80 acres of property, 40 acres to the north and 40 acres to the south, adjacent to the original solid waste facility for expansion. Originally an application was submitted to FDEP on December 16, 1994 to construct a covered composting pad and finishing building to process compost after material had been through the existing materials recovery facility. Over the past 2½ years, the County has streamlined their approach to the handling and processing of solid waste through the process of reviewing the proposed design. The modifications were, in part, prompted by FDEP review comments through the course of permitting.

A materials recovery building consisting of a tipping floor, a recovery/sorting line and processing area, and a digester loading area was completed in 1996. A composting digester along with a loading system has just been completed to macerate the organic material and accelerate the composting process. A finish building where the compost will cure after exiting the digester is currently under design and permitting. This building should be completed by the end of 1997.

The County obtained a bond issue with which to accomplish design and construction of the new facility and has received a grant to complete the finish building for the facility. The County has attempted to insure that the facility being designed and constructed would be the most environmentally aggressive and technologically advanced it can be, within the limits of the funding available.

This application is for renewal of the composting permit, the materials recovery permit, the long term care permit and the waste tire collection center permit.

#### Current Facility Status

The Sumter County Solid Waste Management Facility is the only public collection center for solid waste in the County. The site is centrally located in the County at Sumterville to provide convenient access to all residents of the county. The facility is open six days a week (Monday through Saturday) between the hours of 8:00 AM and 4:00 PM.

Sumter County Composting, Processing and Recycling Facility  
Renewal of Facility Operating Permit

August 1, 1997

Operation and maintenance of the facility is provided by Sumter County Department of Public Works. The facility director is Mr. Terry Hurst.

# Sumter County Government



Board of Sumter County Commissioners

209 North Florida Street, Bushnell, Florida, 33513 Room 206 Telephone (352)793-0200 Suncom 665-0200 FAX (352)793-0207

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July 31, 1997

Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Re: Sumter County Solid Waste Management Facility  
Ref: Permit No. S060-211179 (Renewal)

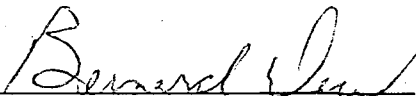
Dear Sir:

The Board of Sumter County Commissioners took action at their meeting of October 18, 1994, to authorize Mr. Garry Breeden, Director of Public Works to execute permit application as their authorized agent. A copy of the minutes of the Board Meeting are attached for your reference.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Very truly yours,

OFFICE OF COUNTY ADMINISTRATOR

BY   
BERNARD DEW  
COUNTY ADMINISTRATOR

BD:th

Karen S. Krauss, Chairman  
Distr. 4, (352)793-7704  
309 Center Street  
Bushnell, FL 33513

Joey A. Chandler, Distr. 2  
(352)793-9656  
143 CR 532 C  
Bushnell, FL 33513

Robin Cox  
Distr. 5, (352)793-6910  
P.O. Box 1482  
Webster, FL 33597-1482

Randall N. Thornton  
County Attorney  
(352)793-4040, P.O. Box 58  
Lake Panasoffkee, FL 33538

Benny G. Strickland, Vice Chairman  
Distr. 1, (352) 748-3110 or 748-2060  
5259 CR 125-C  
Wildwood, FL 34785

Billy "Tiny" Rutter, Distr. 3  
(352) 748-4220  
P. O. Box 37  
Coleman, Florida 33521-0037

Gloria R. Hayward, Clerk & Auditor  
(352)793-0215  
209 North Florida Street  
Bushnell, FL 33513

Bernard Dew, County Administrator  
(352)793-0200  
209 North Florida Street  
Bushnell, FL 33513

# Sumter County Government



Board of Sumter County Commissioners

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July 31, 1997

Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Sumter County Solid Waste Management Facility Permit No. S060-211179 (Renewal)

Dear Sir:

In compliance with Chapter 94-278, Florida Statutes, relating to permit fees for small counties, you will find attached herewith a resolution duly adopted by the Board of Sumter County Commissioners in open session.

I certify that the attached resolution specifically applies to the project listed above and request that the provisions of the statute be used to calculate the appropriate permit fee.

Please contact me at the telephone number of letterhead address if you need additional information or clarification of this request.

Very truly yours,

OFFICE OF COUNTY ADMINISTRATOR

BY Bernard Dew  
BERNARD DEW  
COUNTY ADMINISTRATOR

BD:th

Enclosure

Karen S. Krauss, Chairman  
Distr. 4, (352)793-7704  
309 Center Street  
Bushnell, FL 33513

Joey A. Chandler, Distr. 2  
(352)793-9656  
143 CR 532 C  
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Robin Cox  
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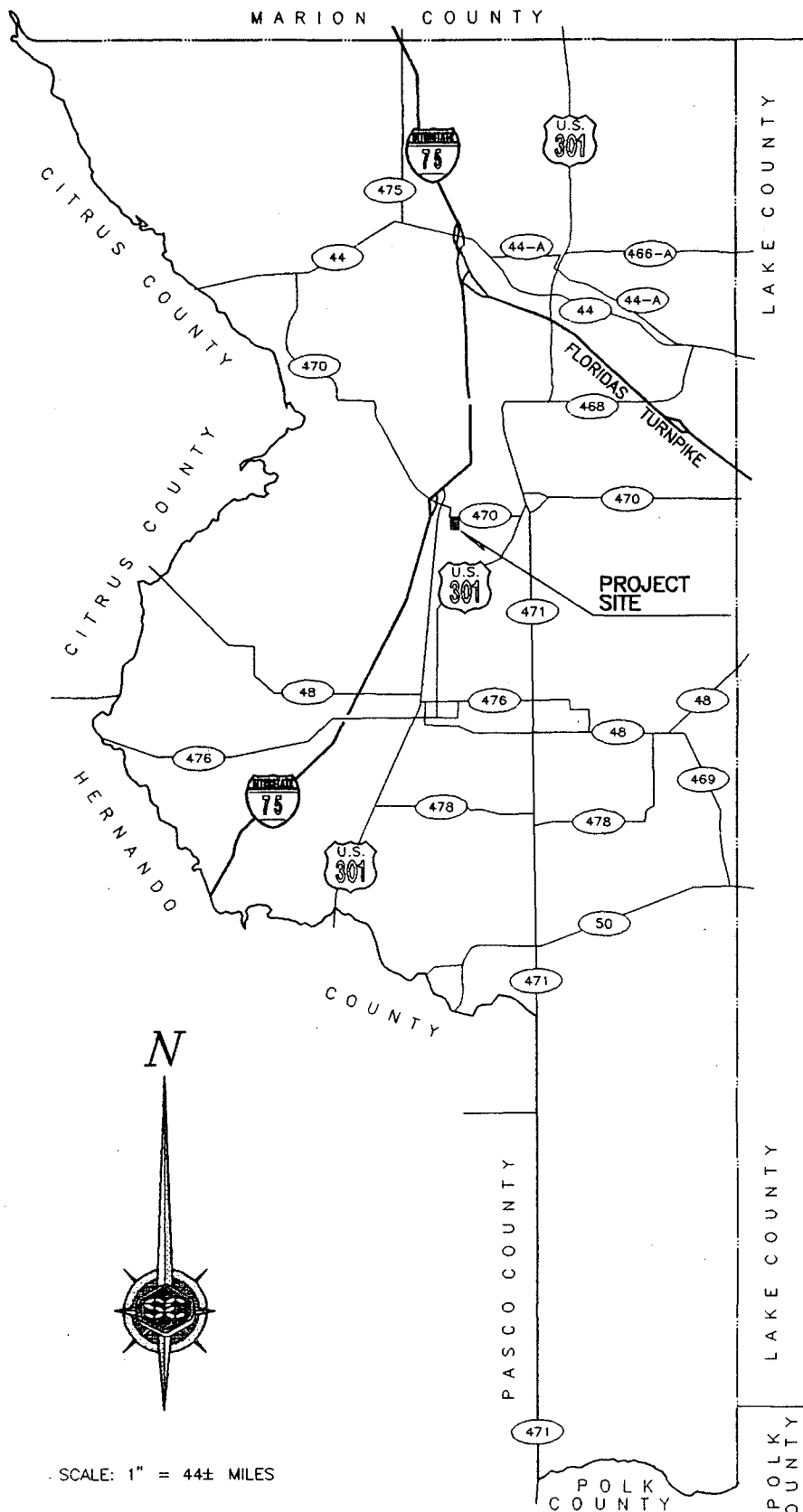
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Bernard Dew, County Administrator  
(352)793-0200  
209 North Florida Street  
Bushnell, FL 33513



SCALE: 1" = 44± MILES

**GENERAL HIGHWAY MAP  
SUMTER COUNTY  
FLORIDA**



**Springstead  
Engineering, Inc.**  
Consulting Engineers  
Planners  
Surveyors

FIGURE 1 N-COVER 921100.000

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Composting and Processing Facility**

**SECTION 2 - SOLID WASTE MANAGEMENT FACILITY PERMIT**



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DER Form # 17-701.900(1)
Form Title <u>Solid Waste Management Facility Permit</u>
Effective Date _____
DER Application No. _____ (Filled by DER)

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

### SOLID WASTE MANAGEMENT FACILITY PERMIT

### APPLICATION INSTRUCTIONS AND FORMS



## INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT 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) Rule 17-701. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Chapter 17-4, FAC, and Rule 17-701.320(5)(c), FAC, shall be submitted with the application by check made payable to the Department of Environmental Regulation (DER).

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,B, D through R, and T
- B. Asbestos Monofills - Submit parts A,B,D,E,F,I,K, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, D through Q, and T
- D. Volume Reduction Facilities - Submit parts A,C,D,S, and T
- E. Materials Recovery Facilities - Submit parts A,C,D,S, and T

**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,C,D, and E 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, N through R, and T
- B. Asbestos Monofills - Submit parts A,B, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, N through Q, and T
- D. Volume Reduction Facilities - Submit parts A,C,S, and T
- E. Materials Recovery Facilities - Submit parts A,C,S, and T

**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	-	MATERIALS RECOVERY / VOLUME REDUCTION FACILITY GENERAL INFORMATION
PART D	-	SOLID WASTE MANAGEMENT FACILITY PERMIT GENERAL REQUIREMENTS
PART E	-	LANDFILL PERMIT GENERAL 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	-	LANDFILL CLOSURE REQUIREMENTS
PART O	-	CLOSURE PROCEDURES
PART P	-	LONG TERM CARE REQUIREMENTS
PART Q	-	FINANCIAL RESPONSIBILITY REQUIREMENTS
PART R	-	CLOSURE OF EXISTING LANDFILL REQUIREMENTS
PART S	-	MATERIALS RECOVERY FACILITY REQUIREMENTS
PART T	-	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility:

Disposal ☐

Class I Landfill	<input type="checkbox"/>	Ash Monofill	<input type="checkbox"/>
Class II Landfill	<input type="checkbox"/>	Asbestos Monofill	<input type="checkbox"/>
Class III Landfill	<input type="checkbox"/>	Industrial Solid Waste	<input type="checkbox"/>
Other	<input type="checkbox"/>		

Volume Reduction ☒

Incinerator	<input type="checkbox"/>	Pulverizer / Shredder	<input type="checkbox"/>
Composting	<input checked="" type="checkbox"/>	Compactor/Baling Plant	<input type="checkbox"/>
Materials Recovery	<input checked="" type="checkbox"/>	Energy Recovery	<input type="checkbox"/>
Other	<input type="checkbox"/>		

2. Type of application:

Construction	<input type="checkbox"/>	Construction/Operation	<input type="checkbox"/>
Operation	<input checked="" type="checkbox"/>	Closure	<input type="checkbox"/>

3. Classification of application:

New	<input type="checkbox"/>	Substantial Modification	<input type="checkbox"/>
Renewal	<input checked="" type="checkbox"/>	Minor Modification	<input type="checkbox"/>

4. Facility name: Sumter County Composting, Processing and Recycling Facility

5. DER ID number: 4060C00092 County: Sumter

6. Facility location (main entrance): 835 CR 529, Sumterville, Florida

Approximately 1 mile east of I-75 at C.R. 470 interchange.

7. Location coordinates:

Section: 15 & 22 Township: 20S Range: 22E

UTMs: Zone \_\_\_\_\_ km E \_\_\_\_\_ km N

Latitude: 28 ° 44 ' 30 " Longitude: 82 ° 05 ' 20 "

8. Applicant name (operating authority): Sumter County Public Works

Mailing address: 319 East Anderson Avenue Bushnell Florida 33513  
Street or P.O. Box City State Zip

Contact person: Garry Breeden Telephone: (352) 793-0240

Title: Director of Public Works

9. ~~Authorized agent~~/Consultant: Springstead Engineering, Inc.  
Mailing address: 727 S. 14th Street Leesburg Florida 34748  
Street or P.O. Box City State Zip  
Contact person: David W. Springstead, P.E. Telephone: (352) 787-1414  
Title: Vice-President
10. Landowner(if different than applicant): Same as applicant  
Mailing address: \_\_\_\_\_  
Street or P.O. Box City State Zip  
Contact person: \_\_\_\_\_ Telephone: ( )
11. Cities, towns and areas to be served: All areas within the boundaries of  
Sumter County.
12. Population to be served:  
Current: 39,200 Five-Year Projection: 45,000
13. Volume of solid waste to be received: 100 ~~mbd/day~~ tons/day ~~gallons/day~~
14. Date site will be ready to be inspected for completion: N/A
15. Estimated life of facility: 50+ years
6. Estimated costs: N/A  
Total Construction: \$ N/A Closing Costs: \$ \_\_\_\_\_
17. Anticipated construction starting and completion dates: N/A  
From: \_\_\_\_\_ To: \_\_\_\_\_

**B. DISPOSAL FACILITY GENERAL INFORMATION**

1. Provide brief description of disposal facility design and operations planned by this application:

Project consists of a materials recovery, processing and composting facility able to process, store, and recover all recyclables present in the waste stream.

2. Facility site supervisor: Terry Hurst

Title: Director of Solid Waste Telephone: (352) 793-3368

3. Disposal area: Total 110 acres; Used 60 acres; Available 50 acres

4. Weighing scales used: Yes ☒ No ☐

5. Security to prevent unauthorized use: Yes ☒ No ☐

6. Charge for waste received: \_\_\_\_\_ \$/yds<sup>3</sup> 45-49 \$/ton

7. Surrounding land use, zoning:

Residential	<input type="checkbox"/>	Industrial	<input checked="" type="checkbox"/>
Agricultural	<input checked="" type="checkbox"/>	None	<input type="checkbox"/>
Commercial	<input type="checkbox"/>	Other	<input type="checkbox"/>

8. Types of waste received:

Residential	<input checked="" type="checkbox"/>	C & D debris	<input type="checkbox"/>
Commercial	<input checked="" type="checkbox"/>	Shredded/cut tires	<input type="checkbox"/>
Incinerator / WTE ash	<input type="checkbox"/>	Yard trash	<input type="checkbox"/>
Treated biohazardous	<input type="checkbox"/>	Septic tank	<input type="checkbox"/>
Water treatment sludge	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Air treatment sludge	<input type="checkbox"/>	Industrial sludge	<input type="checkbox"/>
Agricultural	<input type="checkbox"/>	Domestic sludge	<input checked="" type="checkbox"/>
Asbestos	<input type="checkbox"/>		
Other	<input type="checkbox"/>		

9. Salvaging permitted: Yes ☐ No ☒

10. Attendant: Yes ☒ No ☐ Trained operator: Yes ☒ No ☐

11. Spotters: Yes ☒ No ☐ Number of spotters used: 1 on tipping floor

12. Site located in: Floodplain ☐ Wetlands ☐ Other ☒ uplands

13. Property recorded as a Disposal Site in County Land Records: Yes ☒ No ☐

14. Days of operation: Monday - Saturday

15. Hours of operation: 7 a.m. - 4 p.m.

16. Days Working Face covered: N/A

17. Elevation of water table: 49 Ft. NGVD

18. Number of monitoring wells: 7

19. Number of surface monitoring points: None

20. Gas controls used: Yes ☒ No ☐ Type controls: Active ☐ Passive ☒

Gas flaring: Yes ☐ No ☒ Gas recovery: Yes ☐ No ☒

21. Landfill Unit - liner type: N/A

Natural soils	<input type="checkbox"/>	Double geomembrane	<input type="checkbox"/>
Single clay liner	<input type="checkbox"/>	Geomembrane & composite	<input type="checkbox"/>
Single geomembrane	<input type="checkbox"/>	Double composite	<input type="checkbox"/>
Single composite	<input type="checkbox"/>	None	<input type="checkbox"/>
Slurry wall	<input type="checkbox"/>		
Other	<input type="checkbox"/>		

22. Leachate collection method: N/A

Collection pipes	<input type="checkbox"/>	Sand layer	<input type="checkbox"/>
Geonets	<input type="checkbox"/>	Gravel layer	<input type="checkbox"/>
Well points	<input type="checkbox"/>	Interceptor trench	<input type="checkbox"/>
Perimeter ditch	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input type="checkbox"/>		

23. Leachate storage method: N/A

Tanks	<input type="checkbox"/>	Surface impoundments	<input type="checkbox"/>
Other	<input type="checkbox"/>		

24. Leachate treatment method: N/A

Oxidation	<input type="checkbox"/>	Chemical treatment	<input type="checkbox"/>
Secondary	<input type="checkbox"/>	Settling	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input type="checkbox"/>		

25. Leachate disposal method: N/A

Recirculated	<input type="checkbox"/>	Pumped to WWTP	<input type="checkbox"/>
Transported to WWTP	<input type="checkbox"/>	Discharged to surface water	<input type="checkbox"/>
Injection well	<input type="checkbox"/>	Evaporation (ie: Perc Pond)	<input type="checkbox"/>
Other	<input type="checkbox"/>		

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: Yes ☒ No ☐ Type of treatment: Infiltration

Name and Class of receiving water: N/A

28. Management and Storage of Surface Waters ( MSSW ) Permit number or status: \_\_\_\_\_

C. MATERIALS RECOVERY / VOLUME REDUCTION FACILITY GENERAL INFORMATION

1. Provide brief description of materials recovery / volume reduction facility design and operations planned by this application:

Operation consists of material on conveyor from tip floor; sort station where card board and bulky waste are required; pass through bag breaker; sort to remove film plastic; magnet; disc screen; sort for paper, glass, plastic; pulley magnets; eddy current for aluminum

2. Facility site supervisor: Terry Hurst  
Title: Director of Solid Waste Telephone: (352) 793-3368
3. Disposal area: Total 110 acres; Used 60 acres; Available 50 acres
4. Security to prevent unauthorized use: Yes ☒ No ☐
5. Site located in: Floodplain ☐ Wetlands ☐ Other ☒ uplands
6. Days of operation: Monday - Saturday
7. Hours of operation: 7 a.m. - 4 p.m.
8. Number of operating staff: 19
9. Expected useful life: 50+ Years
10. Weighing scales used: Yes ☒ No ☐
11. Normal processing rate:        yd<sup>3</sup>/day 100 tons/day        gal/day
12. Maximum processing rate:        yd<sup>3</sup>/day 200 tons/day        gal/day
13. Charge for waste received: \$49/Ton
14. Type of facility (check one or more):

Incinerator	<input type="checkbox"/>	Composting	<input checked="" type="checkbox"/>
Pulverizer / shredder	<input type="checkbox"/>	Materials recovery	<input checked="" type="checkbox"/>
Compactor/baling	<input type="checkbox"/>	Energy recovery	<input type="checkbox"/>
Sludge concentration	<input type="checkbox"/>	Pyrolysis	<input type="checkbox"/>
Other	<input type="checkbox"/>		

15. Material recovered, tons/week:

<u>      </u> Paper	<u>      </u> Glass
<u>      </u> Ferrous metals	<u>      </u> Non-ferrous metals
<u>      </u> Aluminum	<u>      </u> Plastics
<u>      </u> Other:	

16. Energy recovery, in units shown: N/A

<u>      </u> High pressure steam, lb/hr	<u>      </u> Chilled water, gal/hr
<u>      </u> Low pressure steam, lb/hr	<u>      </u> Oil, gal/hr
<u>      </u> Electricity, kw/hr	<u>      </u> Oil, BTU/hr
<u>      </u> Gas, ft <sup>3</sup> /hr	<u>      </u> Gas, BTU/hr
<u>      </u> Other:	

17. Process water management: N/A

Recycled: Yes ☐ No ☐

Treatment method used: \_\_\_\_\_

Discharged to: Surface waters ☐ Underground ☐ Other ☐

Name and Class of receiving water: \_\_\_\_\_

18. Storm Water:

Collected: Yes ☒ No ☐ Type of treatment: Infiltration

Name and Class of receiving water: N/A

19. MSSW Permit number or status: ERP for Materials Recovery Facility

20. Final residue produced:

30 % of normal processing rate

30 % of maximum processing rate

Disposed of at (Site name): Lake County Incinerator

21. Supplemental fuel used:

Type: N/A Quantity used/hour: \_\_\_\_\_

22. Costs:

Estimated operating costs (material-energy revenue): \$ N/A

Total cost/ton: \$ \_\_\_\_\_ Net cost/ton: \$ \_\_\_\_\_

23. State pollution control bond financing amount: \$ \_\_\_\_\_

24. Estimated amount of tax exemptions that will be requested: \$ \_\_\_\_\_



**D. SOLID WASTE MANAGEMENT FACILITY PERMIT GENERAL REQUIREMENTS (17-701.320, FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u>X</u>	_____	_____	_____	1. Six copies, at minimum, of the completed application form, all supporting data and reports; (17-701.320(5)(a), FAC)
<u>X</u>	_____	_____	_____	2. Engineering and/or professional certification (signature, date and seal) provided on the applications and all engineering plans, reports and supporting information for the application; (17-701.320(6), FAC)
<u>X</u>	_____	_____	_____	3. A letter of transmittal to the Department; (17-701.320(7)(a), FAC)
<u>X</u>	_____	_____	_____	4. A completed application form dated and signed by the applicant; (17-701.320(7)(b), FAC)
<u>X</u>	_____	_____	_____	5. Permit fee specified in Rule 17-4.050, FAC and Rule 17-7-1.320(5)(c), FAC in check or money order, payable to the Department; (17-701.320(7)(c), FAC)
<u>X</u>	_____	_____	_____	6. An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 1/2 inch by 11 inch consecutively numbered pages, a table of contents or index, the body of the report and all appendices including an operation plan, contingency plan, illustrative charts and graphs, records or logs of tests and investigations, engineering calculations; (17-701.320(7)(d), FAC)
<u>X</u>	_____	_____	_____	7. Operation Plan; (17-701.320(7)(e)1, FAC)
<u>X</u>	_____	_____	_____	8. Contingency Plan; (17-701.320(7)(e)2, FAC)
				9. Plans or drawings for the solid waste management facilities in appropriate format (including sheet size restrictions, cover sheet, legends, north arrow, horizontal and vertical scales, elevations referenced to NGVD) showing; (17-702.320(7)(f), FAC)
<u>X</u>	_____	_____	_____	a. A regional map or plan with the project location;
<u>X</u>	_____	_____	_____	b. A vicinity map or aerial photograph no more than 1 year old;
<u>X</u>	_____	_____	_____	c. A site plan showing all property boundaries certified by a registered Florida land surveyor;
<u>X</u>	_____	_____	_____	d. Other necessary details to support the engineering report.
<u>X</u>	_____	_____	_____	10. Proof of property ownership or a copy of appropriate agreements between the facility operator and property owner authorizing use of property; (17-701.320(7)(g), FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u>X</u>	<u>                    </u>	<u>      </u>	<u>      </u>	11. For facilities owned or operated by a county, provide a description of how, if any, the facilities covered in this application will contribute to the county's achievement of recycling goals contained in Section 403.706,FS; (17-701.320(7)(h),FAC)
<u>X</u>	<u>                    </u>	<u>      </u>	<u>      </u>	12. Provide a history and description of any enforcement actions taken by the Department against the applicant for violations of applicable statutes, rules, orders or permit conditions relating to the operation of any solid waste management facility in this state; (17-701.320(7)(i),FAC)
<u>      </u>	<u>                    </u>	<u>      X      </u>	<u>      </u>	13. Proof of publication in a newspaper of general circulation of notice of application for a permit to construct or substantially modify a solid waste management facility; (17-702.320(8),FAC)
<u>      </u>	<u>                    </u>	<u>      X      </u>	<u>      </u>	14. Provide a description of how the requirements for airport safety will be achieved including proof of required notices if applicable; (17-701.320(12),FAC)

E. LANDFILL PERMIT GENERAL REQUIREMENTS (17-701.330, FAC)

N/A

- |       |       |       |    |   |
|-------|-------|-------|----|---|
| _____ | _____ | _____ | 1. | Vicinity map or aerial photograph no more than 1 year old and of appropriate scale showing land use and local zoning within one mile of the landfill and of sufficient scale to show all homes or other structures, water bodies, and roads other significant features of the vicinity. All significant features shall be labeled; (17-701.330(4)(a),FAC) |
| _____ | _____ | _____ | 2. | Vicinity map or aerial photograph no more than 1 year old showing all airports that are located within five miles of the proposed landfill; (17-701.330(4)(b),FAC)  |
| _____ | _____ | _____ | 3. | Plot plan with a scale not greater than 200 feet to the inch showing; (17-701.330(4)(c),FAC)  |
| _____ | _____ | _____ | a. | Dimensions;   |
| _____ | _____ | _____ | b. | Locations of proposed and existing water quality monitoring wells;  |
| _____ | _____ | _____ | c. | Locations of soil borings;  |
| _____ | _____ | _____ | d. | Proposed plan of trenching or disposal areas;   |
| _____ | _____ | _____ | e. | Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets;   |
| _____ | _____ | _____ | f. | Any previously filled waste disposal areas;   |
| _____ | _____ | _____ | g. | Fencing or other measures to restrict access.   |
| _____ | _____ | _____ | 4. | Topographic maps with a scale not greater than 200 feet to the inch with 5-foot contour intervals showing; (17-701.330(4)(d),FAC):  |
| _____ | _____ | _____ | a. | Proposed fill areas;  |
| _____ | _____ | _____ | b. | Borrow areas;   |
| _____ | _____ | _____ | c. | Access roads;   |
| _____ | _____ | _____ | d. | Grades required for proper drainage;  |
| _____ | _____ | _____ | e. | Cross sections of lifts;  |
| _____ | _____ | _____ | f. | Special drainage devices if necessary;  |
| _____ | _____ | _____ | g. | Fencing;  |
| _____ | _____ | _____ | h. | Equipment facilities.   |

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	<u>X</u>	—	12. Provide a description of all-weather access road, inside perimeter road and other roads necessary for access which shall be provided at the landfill; (17-701.500(12),FAC)
				13. Additional record keeping and reporting requirements; (17-701.500(13),FAC)
—	—	<u>X</u>	—	a. Records used for developing permit applications and supplemental information maintained for the design period of the landfill;
—	—	<u>X</u>	—	b. Monitoring information, calibration and maintenance records, copies of reports required by permit maintained for at least 10 years;
—	—	<u>X</u>	—	c. Background water quality records shall be maintained for the design period of the landfill;
—	—	<u>X</u>	—	d. Maintain annual estimates of the remaining life of constructed landfills and of other permitted areas not yet constructed and submit this estimate annually to the Department.

L. WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS (17-701.510, FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
_____	_____	_____	<u>X</u>	1. Water quality and leachate monitoring plan shall be submitted describing the proposed ground water, surface water and leachate monitoring systems and shall meet at least the following requirements;
_____	_____	_____	<u>X</u>	a. Based on the information obtained in the hydrogeological investigation and signed, dated and sealed by the PG or PE who prepared it; (17-701.510(2)(a), FAC)
_____	_____	_____	<u>X</u>	b. All sampling and analysis performed by organizations having Department approved Comprehensive Quality Assurance Plans; (17-701.510(2)(b), FAC)
_____	_____	_____		c. Ground water monitoring requirements; (17-701.510(3), FAC)
_____	_____	_____	<u>X</u>	(1) Detection wells located downgradient from and within 50 feet of disposal units;
_____	_____	_____	<u>X</u>	(2) Downgradient compliance wells as required;
_____	_____	_____	<u>X</u>	(3) Background wells screened in all aquifers below the landfill that may be affected by the landfill;
_____	_____	_____	<u>X</u>	(4) Location information for each monitoring well;
_____	_____	_____	<u>X</u>	(5) Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;
_____	_____	_____	<u>X</u>	(6) Well screen locations properly selected;
_____	_____	_____	<u>X</u>	(7) Procedures for properly abandoning monitoring wells;
_____	_____	_____	<u>X</u>	(8) Detailed description of detection sensors if proposed.
_____	_____	_____		d. Surface water monitoring requirements; (17-701.510(4), FAC)
_____	_____	<u>X</u>	_____	(1) Location of and justification for all proposed surface water monitoring points;
_____	_____	<u>X</u>	_____	(2) Each monitoring location to be marked and its position determined by a registered Florida land surveyor;
_____	_____	_____	<u>X</u>	e. Leachate sampling locations proposed; (17-701.510(5), FAC)

S	LOCATION	N/A	N/C
---	----------	-----	-----

—	—	—	<u>X</u>
—	—	—	<u>X</u>
—	—	—	<u>X</u>
—	—	—	<u>X</u>
—	—	<u>X</u>	—
—	—	—	<u>X</u>
—	—	—	<u>X</u>
—	—	—	<u>X</u>
—	—	—	<u>X</u>

f. Routine sampling frequency and requirements;  
(17-701.510(6), FAC)

- (1) Background ground water and surface water sampling and analysis requirements;
- (2) Leachate semi-annual and annual sampling and analysis requirements;
- (3) Detection well semi-annual sampling and analysis requirements;
- (4) Compliance well sampling and analysis requirements;
- (5) Surface water sampling and analysis requirements.

g. Describe procedures for implementing assessment monitoring and corrective action as required;  
(17-701.510(7), FAC)

h. Water quality monitoring report requirements;  
(17-701.510(9), FAC)

- (1) Semi-annual report requirements;
- (2) Bi-annual report requirements signed, dated and sealed by PG or PE.

**CLOSURE PROCEDURES (17-701.610,FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	1. Survey monuments; (17-701.610(2),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	2. Final survey report; (17-701.610(3),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	3. Certification of closure construction completion; (17-701.610(4),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	4. Declaration to the public; (17-701.610(5),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	5. Official date of closing; (17-701.610(6),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	6. Use of closed landfill areas; (17-701.610(7),FAC)

**P. LONG TERM CARE REQUIREMENTS (17-701.620,FAC)**

<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	1. Right of property access requirements; (17-701.620(4),FAC)
<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	2. Successors of interest requirements; (17-701.620(5),FAC)
<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	3. Requirements for replacement of monitoring devices; (17-701.620(7),FAC)
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	4. Completion of long term care signed and sealed by professional engineer (17-701.620(8), FAC).

**Q. FINANCIAL RESPONSIBILITY REQUIREMENTS (17-701.630,FAC)**

<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	1. Provide cost estimates for closing, long term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (17-701.630(3)&(7), FAC).
<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	2. Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; (17-701.630(4)&(8), FAC).
<u>      </u>	<u>                    </u>	<u>      </u>	<u>  X  </u>	3. Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; (17-701.630(5), (6), & (9), FAC).

**R. CLOSURE OF EXISTING LANDFILLS (17-701.640, FAC)**

<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	1. Demonstration that facility does not pose a bird hazard to aircraft as specified in Rule 17-701.320(12)(b), FAC.
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	2. Demonstration that facility does not restrict the flow of the 100-year flood, reduce water storage capacity or result in wash-out of solid waste as specified in Rule 17-701.340(4)(b), FAC.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	3. Demonstration that facility is not located in a fault area, seismic zone or unstable area as specified in Rule 17-701.420(1)(c), FAC.
<u>      </u>	<u>                    </u>	<u>      </u>	<u>      </u>	4. Request for extension of closure criteria as specified in Rule 17-701.640(2)(a) & (2)(b), FAC.
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	a. Demonstration of no alternative disposal capacity.
<u>      </u>	<u>                    </u>	<u>  X  </u>	<u>      </u>	b. Demonstration of no threat to human health or the environment.

**S. MATERIALS RECOVERY FACILITY REQUIREMENTS (17-701.700,FAC)**

<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	1. Proof of posting a performance bond payable to the Department to cover closing costs, if required; (17-701.700(4),FAC)
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	2. Materials recovery facility requirements; (17-701.700,FAC)
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	a. Submit information required in Rule 17-701.320,FAC
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	b. Submit an engineering report including the following:
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(1) Description of the solid waste proposed to be collected, stored, processed or disposed;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(2) Projection with assumptions for waste types and quantities expected in future years;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(3) Description of operation and functions of all processing equipment with design criteria and expected performance;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(4) Description of flow of solid waste, expected regular facility operations, procedures for start up and shut down, potential safety hazards and control methods including fire protection;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(5) Description of loading, unloading, and processing areas;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(6) Identification and capacity of temporary on-site storage areas for materials handled and provisions for solid waste and leachate containment;
<u>  X  </u>	<u>                    </u>	<u>      </u>	<u>      </u>	(7) Identification of potential ground water and surface water contamination;



<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>  </u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>  </u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>  </u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>X</u>	<u>                    </u>	<u>    </u>	<u>    </u>
<u>  </u>	<u>                    </u>	<u>    </u>	<u>    </u>

(8) Plan for disposal of unmarketable recyclables and residue and contingencies for waste handling during breakdowns.

c. Submit the following operational information:

- (1) Operation and maintenance manual;
- (2) Waste control plan to manage unauthorized wastes;
- (3) Contingency plan for emergencies;
- (4) Closure plan including the following:
  - (a) Notification to Department 180 days prior to closure;
  - (b) Procedures for removal of all waste within 30 days of receipt of final waste;
  - (c) Completion of closure activities within 180 days of receipt of final waste and notification to the Department that closure is complete.

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

A. Applicant

The undersigned applicant or authorized representative of Sumter County, Florida is aware that statements made in this form and attached information are an application for a Solid Waste Management Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his 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]  
Signature of Applicant or Agent

Garry Breeden, Director of Public Works  
Name and Title

Date: 8/1/97

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

B. Professional Engineer Registered in Florida or Public Officer as required in Section 403.707 and 403.707(5), 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 principals applicable to such facilities. In my professional judgement, 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]  
Signature

DAVID SPRINGSTEAD - P.E.  
Name and Title (please type)

98329  
Florida Registration Number  
(please affix seal)

8/1/97

Springstead Engineering, Inc.  
727 S. 14th Street

Mailing Address

Leesburg, Florida 34748

City, State, Zip Code

(352) 787-1414

Telephone Number

Date: \_\_\_\_\_

SOLID WASTE MANAGEMENT FACILITY PERMIT APPLICATION

REQUIREMENTS OF SECTION D:

Operation Plan

This section presents the detailed operational plan for processing material at the facility.

An attendant is on duty during all operating hours at the scale house located at the entrance to the facility. The facility director, Mr. Terry Hurst, is also on duty at the facility during all hours of operation. Tipping floor personnel are on duty during operating hours to help with unloading operations and inspect the solid waste stream. Personnel involved with processing are on duty during operating hours.

The entire facility is surrounded by fencing, with entry being controlled by locking gates.

A sign indicating the name of the facility and operator is located at the entrance on CR 470. Instructional signs pertaining to traffic flow are placed around the facility. Signs specifying rates and acceptable wastes are placed to inform patrons approaching the scale. Signs are posted directing traffic back to the scales after tipping material and out of the facility. Signs are posted indicating the hours of daily operation, that the facility is closed on Sundays and/or holidays, and that hazardous materials are not accepted.

All material enters the facility on CR 529. This is a paved all-weather road which leads from CR 470 to the scale house/office building. Every vehicle which enters the facility must stop at this building to weigh or sign-in. An alternative access road for county vehicles is located east of the facility. This road leads to the South 40 acre parcel and is constructed of recycled asphalt over an improved subgrade and road base. The gates for this access are kept locked.

State approved weigh scales are provided at the entrance to the facility. Measurement of all material received at the facility provides data for fees, planning and forecasting. The only materials which are not weighed when entering the site are clean recyclables which can be dropped off in recycling bins prior to crossing the scale.

Signs direct commercial and non-commercial patrons to the proper location for tipping. Commercial haulers are directed to the north west end of the new materials recovery building and private citizens are directed to the northeast end of the new materials recovery building. Separate entrances are provided for commercial and private patrons

so that the vehicles do not have to conflict with each other at the tipping floor. A push-wall separates the tipping areas for the two types of patrons.

Signs are also posted directing haulers of construction and demolition debris, white goods, separated special materials such as paper rolls, limbs/trees/stumps etc., to the proper location east of the old MRF building on the paved asphalt pad. Assistance is provided for unloading at this location. This assistance is to insure proper placement and to inspect the material so that non-acceptable materials are not left at the facility.

#### Operations Plan

After incoming material is placed on the tipping floor, the material is observed for large and bulky items which are removed and set aside. The material is then pushed into a hopper using loaders and onto a belt conveyor. The material on the conveyor passes by pick/sorting stations where corrugated cardboard and other bulky items are removed and dropped into hoppers. The material on the conveyor then drops through a mechanical bag-breaker where plastic garbage bags are torn open and the contents of the bags and the remaining material fall onto another conveyor. The material on the conveyor passes a second pick/sorting station where pickers remove film plastic and drop the removed material into a chute which leads to a hopper on a baler. The baler is dedicated to the film plastic station. Material which remains on the conveyor passes under a belt magnet which removes ferrous items and drops them into a hopper. The material on the conveyor then passes over a disc-screen where material less than 2 inches in size drops through and lands on another belt conveyor which leads to the end of the sorting line. The material passing over the disc-screen proceeds to a conveyor where pickers remove recyclables and drop them through chutes into hoppers. At the end of the sorting conveyor, all of the material left on the conveyors passes over magnetic head-pulleys to remove any remaining ferrous items. The material is re-combined and then passes through an eddy-current separator which removes aluminum and drops it into a hopper.

The equipment and processing rates for the equipment are provided in Table 1.

The material not removed on the recycling line passes to a conveyor which leads to the digester loading ram-pit. As this material falls into the hopper, the ram cycles and loads the first compartment of the digester. Based on the volume of material entering the facility, the material will spend from 72 to 120 hours in the digester. The temperature, moisture content and level of material in each digester compartment will be measured at least daily.

After the compost is discharged from the digester, the compost is placed into windrows in the finish building. The material is manually monitored for moisture content and temperature in the windrows. The material is turned one time every two to three days, based on the temperature readings.

The compost from the digester is currently being placed on the north composting pad in the center of the facility.

The recyclable materials in hoppers on the working floor are removed from beneath the sorting platform when they are full and set on the floor out of the way of the work in process. At shut down of the sorting line operation, the bins are taken to the large baler and baled. The baled materials are placed under roof in the old MRF building. Three loaders and three transfer trucks are dedicated to moving material around the facility and to disposal.

A schematic of the materials recovery system is presented on Sheet 2.

The materials to be collected, stored, processed and disposed of are presented in the attached Table 2. This table also presents the maximum storage quantity, average and maximum storage time, storage method and location.

The projection of the waste types and quantities to be expected in future years are presented in Table 3, Municipal Solid Waste to be Collected and Recycled. These projections were taken from the County's 1995-1996 Solid and Recycling Grant.

Leachate in the all three sections of the MRF building is collected in floor drop inlets which gravity flow to a lift station wet-well located at the digester end of the building. The leachate in the wet well is pumped into the mixing basin to supply moisture for the material in the first chamber of the digester.

#### Contingency Plan

The contingency plan which provides for waste handling in the event of equipment failure consists of loading all material from the tipping floor into trucks and transporting to an FDEP approved facility. Sumter County has an agreement in place with the Lake County Ogden-Martin facility to accept material. Downtime for critical pieces of materials recovery processing equipment will not exceed 24 hours. Spare parts for the materials recovery equipment will be available on-site. Any unmarketable recyclables, unauthorized wastes and residues will be transported to the Lake County facility for

disposal. In the event of an operations interruption or emergency, the material will be transported directly to Lake County or an approved FDEP facility for disposal.

#### Unauthorized Wastes

Sumter County Composting, Processing and Recycling Facility does not accept hazardous waste. It is recognized that items may be included in the normal waste stream that should not be processed through the facility. If these wastes are identified, they are segregated from acceptable wastes. Bins are provided for storage of unacceptable items until proper disposal is accomplished. Sumter County will not accept easily identifiable hazardous waste and will remove any which may be inadvertently delivered. Personnel are provided with and become familiar with the Hazardous Waste Information for Sumter County Landfill.

Incoming solid waste is inspected at four check points as follows:

1. The attendant at the scale house looks at all incoming waste loads. The scale house attendant takes the following actions in the event that hazardous waste is identified:
  - a. Tells the person hauling the waste that the waste is hazardous and that it will not be accepted by the facility;
  - b. Insures that the waste leaves the facility with the hauler.
2. Tipping floor personnel are notified by the scale house attendant of the presence of hazardous waste. The notified personnel will observe the dumping of the load and insure that the hazardous waste is not dumped. Tipping floor personnel will insure that the hazardous waste is on the vehicle when it leaves the tipping floor and insure that the vehicle precedes directly to the scale house.
3. The scale house attendant will insure that the hazardous waste is on the vehicle when it leaves the site.
4. The attendant responsible for inspecting solid waste as it falls onto the tipping floor will visually inspect for hazardous waste. If the source of the hazardous waste can be identified, responsible parties will be notified and required to remove the hazardous waste from the facility. If the source of the hazardous waste cannot be identified, it will be separated and placed in bins located inside the building. Sumter County will contract with a commercial enterprise to provide pickup and removal of any hazardous waste within 72 hours or transport the material to a hazardous waste disposal facility.

A 250-gallon tank located at the facility is provided for the collection of used motor oil. The oil is picked up by an approved vendor. Lead-Acid batteries are palletized and stored under roof for collection by an approved vendor.

#### Closure Plan for the Facility

In the event that the facility needs to be closed, the following steps will be taken:

1. The County will notify the Department in writing 180 days before the date the facility is expected to close. No waste will be received by the facility after the expected closing date.
2. Within 30 days after receiving the final solid waste shipment, the County shall remove or otherwise dispose of all solid waste or residue in accordance with the approved closure plan.
3. The County will put up signs at the facility and notify the public of the end of acceptance of material at this facility and inform public of an alternative location where material can be legally disposed.
4. The County will remove and dispose of all material on the tipping floor (max 3 days of material). The tipping floor material will be loaded in trucks and hauled to an FDEP approved disposal facility.
5. The County will remove all processed material from recovery equipment and hoppers; bale, load and transport to an FDEP approved facility.
6. The County will shut down power to processing equipment and buildings.
7. The County will secure all entrances to the facility.
8. Closure will be completed within 180 days after receiving the final waste quantity. Closure will include removal of all recovered materials from site. When closure is completed, the County shall certify in writing to the Department that closure is complete. The Department will make an inspection within 30 days to verify the closure and advise the owner or operator of the closure status.

Cost Estimate for Closing Facility

The Cost Estimate for closing the facility is as follows:

Assumptions: Maximum material for disposal on tipping floor is 300 tons

Loading, hauling and disposing 300 tons tipped material @ \$57.35/ton	\$17,205
Loading, hauling and disposing of material in Digester - 300 tons @ \$57.35/ton	\$17,205
Loading, hauling, disposing recovered materials	<u>\$9,426</u>
Total Cost to Remove All Materials From Site	\$43,836

Additional Pertinent Information

Litter at the facility is contained by the sides of the MRF building and screens over the open portions of the MRF building. The facility is patrolled daily to minimize any litter which may escape the screens.

Several measures are taken to prevent and control fires. A fire protection system is being designed to provide fire flow protection for the entire facility. The source has been permitted through SWFWMD (Water Use Permit No. 2011259.00). Fire hydrants will be located around the new and the existing buildings. An FDEP dry-line permit has been approved for construction of the water lines (FDEP Permit No. DS60-262528). Suitable fire extinguishers, maintained in working order, are located at several strategic locations in and around the facility. The Lake Panasoffkee Fire Department is located approximately three (3) miles from the site.

Odor control is provided by design of the buildings. The buildings have open and partially-open sides and open roll-up doorways. Natural air flow is allowed to circulate throughout the building. This provides sufficient air volume to dilute any negative odor effects.

Communication is provided at the facility by two-way radios and direct voice communication. A telephone and facsimile machine are located in the office.



The responsible persons for the facility are:

Mr. Garry Breeden - Director  
Sumter County Public Works  
319 E. Anderson Avenue  
Bushnell, Florida 33513  
Phone (352) 793-0240  
Fax (352) 793-0247

Terry Hurst - Facility Director  
Sumter County Composting, Processing and Recycling Facility  
835 CR 529  
Sumterville, Florida 33585  
(352) 793-3368  
(352) 568-0166

#### REQUIREMENTS OF SECTION L

#### WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS

Hydrogeological Report - The hydrogeological aspects of the facility are unchanged from previously submitted information. No additional information is included regarding hydrogeological information for the site.

The water quality monitoring and leachate plan have not changed from the one originally permitted. All sampling has been performed in accordance with Springstead Engineering, Inc.'s FDEP approved Comprehensive Quality Assurance Plan and all testing has been performed in accordance with Flowers Chemical Laboratory's FDEP approved Comprehensive Quality Assurance Plan. The respective companies will continue to perform the sampling and testing at the facility until the Department is notified otherwise.

Quarterly groundwater sampling as been performed throughout the course of the current permit in addition to semi-annual leachate tests when compost material has been on the composting pads.

The stormwater/leachate collection ponds have been inspected annually and the results have been submitted to the Department.

No changes have been made to the existing leachate recirculation system.

REQUIREMENTS OF SECTION P  
LONG TERM CARE REQUIREMENTS

No changes have been made to the closed landfill.

Sumter County owns the property where the closed landfill is located and a portion of the closed landfill is used to store recovered materials so access to the closed landfill is available during normal operation hours.

All monitoring and sampling devices are in good condition and currently working properly.

Annual Methane Gas Migration Reports have been performed as required by the current permit.

REQUIREMENTS OF SECTION Q  
FINANCIAL RESPONSIBILITY REQUIREMENTS

The County established an escrow account to be maintained for the sole purpose of long term care of the closed landfill on September 29, 1992 based on the financial responsibility checklist submitted to the Department on October 2, 1992. This account remains unaltered.

Financial responsibility for long term care has been provided to the Tallahassee FDEP office.

REQUIREMENTS OF SECTION S  
MATERIALS RECOVERY FACILITY REQUIREMENTS

An update of the Closure Cost Estimate was submitted to the Department in June 1997.

Operational information relative to the materials recovery facility is presented in "Requirements of Section D" above.

REQUIREMENTS OF SECTION T  
CERTIFICATION BY APPLICANT AND ENGINEER

Certifications by the owner and Engineer are presented on the attached application.

**TABLE 1**

	MANUFACTURERS RATED MAXIMUM OPERATING CAPACITY (TONS/DAY)	NORMAL OPERATING CAPACITY (TONS/DAY)
CONVEYOR SYSTEM	125	100
DEBAGGING SYSTEM	125	100
RESIDUE DISC SCREEN	125	100
MAGNET SYSTEM	125	100
EDDY CURRENT SYSTEM	75	60
BALER	40-60*	32-48*

\* DEPENDING ON MATERIAL BALED

NOTE: NORMAL OPERATING CAPACITY IS ASSUMED TO  
BE INDUSTRY STANDARD OF 80% OF MANUFACTURERS  
MAXIMUM RATED CAPACITY.

TABLE 2

SUMTER COUNTY, FLORIDA								
MATERIAL QUANTITIES FOR RECYCLING, PROCESSING, AND COMPOSTING FACILITY								
MATERIALS	TRANSFERRED TO DISPOSAL FACILITY	STORAGE FOR PICKUP OR TRANSFER TO RECYCLER	MAXIMUM STORAGE QUANTITY	AVERAGE STORAGE TIME	MAXIMUM STORAGE TIME	STORAGE METHOD	REQUIRED AREA	STORAGE AREA LOCATION
<i>Processables (1)</i>								
Aluminum Cans		X	40 yd3	6-8 weeks	1 year	Hoppers (3 or 5 yd3)	180 SF	Outside
Steel Cans		X	70 bales	6-8 weeks	1 year	Baled (approx. 5' x 2' x 2')	440 SF	Outside
Plastic Bottles		X	60 bales	2-4 months	1 year	Baled (approx. 5' x 3' x 3')	600 SF	Under Roof
Film Plastic	X	X	50 bales	6-8 weeks	1 year	Baled (approx. 5' x 3' x 3')	300 SF	Under Roof
OCC		X	40 bales	6-8 weeks	1 year	Baled (approx. 5' x 3' x 3')	400 SF	Under Roof
Mixed Paper		X	100 yd3	4-6 weeks	1 year	Trailer (100 yd3)	100 yd3	Under Roof
Glass Containers		X	30 yd3	2-4 months	1 year	Roll-off	20 yd3	Outside
Textiles		X	40 yd3	6-8 weeks	1 year	Hoppers (3 or 5 yd3)	100 SF	Under Roof
Residuals from Compost	X		100 yd3	1 week	1 week	Trailer (100 yd3)	100 yd3	Under Roof
<i>Non-Processables (2)</i>								
White Goods		X	100 units	6-8 weeks	1 year	Loose on asphalt with bin	600 SF	Outside
Other Ferrous Metals		X	40 yd3	6-8 weeks	1 year	Loose on asphalt with bin	200 SF	Outside
Scrap Aluminum		X	40 yd3	6-8 weeks	1 year	Loose on asphalt with bin	180 SF	Outside
Other Non-Ferrous Metals		X	10 yd3	6-8 weeks	1 year	Loose on asphalt with bin	180 SF	Outside
Class III Materials	X		100 yd3	30 days	30 days	Loose on asphalt with bin	600 SF	Outside
C&D Materials	X		100 yd3	30 days	30 days	Loose on asphalt with bin	600 SF	Outside
Tires		X	1000 units	3-4 months	1 year	Loose in trailer	500 SF	Under Roof
Lead-Acid Batteries		X	100 units	4-6 weeks	90 days	Palletized (5' x 5')	125 SF	Under Roof
Used Oil		X	250 gallons	4-6 weeks	90 days	Drum	25 SF	Outside

**Notes:**

(1) Processables: Processables are defined as recovered materials that have been diverted, recovered, or source separated from the solid waste stream for recycling purposes.

(2) Non-Processables: Non-processables are defined as recyclable materials which have been source separated for recycling and delivered to a designated area at the County's facility separate from the MRF.

TABLE 3  
MUNICIPAL SOLID WASTE TO BE  
COLLECTED AND RECYCLED  
(July 1, 1995 - June 30, 1996 and July 1, 2014 - June 30, 2015)

OPEN DATA FILE before pushing button, do not alter any formats, do not enter information in shaded areas.

COUNTY:	Sumter	1995 POPULATION:		36,700	2014 POPULATION:		67,400		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Materials		To Be Collected and Recycled July 1, 1995 - June 30, 1996					To Be Collected July 1, 2014 - June 30, 2015		
		Collected Tons(a)	Percent Total Tons(b)	Pounds per Capita per Day(c)	Recycled Tons	Percent Recycled(d)	Collected Tons(e)	Percent Total Tons(b)	Pounds per Capita per Day(f)
1. Minimum 5 Materials(g)									
a. Newspaper		3,039	7	0.45	1,094	36	5,581	7	0.45
b. Glass		1,636	4	0.24	491	30	3,005	4	0.24
c. Aluminum cans		117	0	0.02	16	14	215	0	0.02
d. Plastic bottles		1,169	3	0.17	140	12	2,146	3	0.17
e. Steel cans		1,403	3	0.21	182	13	2,576	3	0.21
2. Special Waste Materials(h)									
a. C&D debris		14,025	30	2.09	1,519	11	21,464	25	1.75
b. Yard trash		5,844	13	0.87	3,282	56	11,591	14	0.94
c. White goods		140	0	0.02	140	100	258	0	0.02
d. Tires		94	0	0.01	94	100	172	0	0.01
e. Process fuel(i)		NA	NA	NA		100	NA	NA	NA
3. Other Waste Materials									
a. Other plastics		1,865	4	0.28	261	14	3,426	4	0.28
b. Ferrous metals		2,805	6	0.42	1,964	70	5,151	6	0.42
c. Non-ferrous metals		1,403	3	0.21	1,150	82	2,576	3	0.21
d. Corrugated paper		3,740	8	0.56	1,309	35	6,869	8	0.56
e. Office paper		1,169	3	0.17	479	41	2,148	3	0.17
f. Other paper		3,273	7	0.49	1,211	37	6,010	7	0.49
g. Food		2,338	5	0.35	608	26	4,293	5	0.35
h. Textiles		701	2	0.10	7	1	1,288	2	0.10
i. Miscellaneous		1,989	4	0.30	1,843	93	7,090	8	0.58
4. County Totals		46,750	100.00	6.98	15,791	34	85,857	100.00	6.98
Must Equal Figure Reported In Table 3:		46,750	Must = 100%	6.98	15,791	34	85,857	Must = 100%	6.98

(a) Collected Tons = column 2, line 4 (total tons collected) times column 3 (percent total tons) divided by 100.

(b) Percent Total Tons as reported in County's Waste Composition study. County Total must = 100%.

(c) Pounds/Capita/Day = column 2 (material type tons) times 2,000 pound/ton divided by the 1995 county population divided by 365 days.

(d) Percent Recycled = column 5 (recycled tons) divided by column 2 (material type tons) times 100. No recycling rates can be greater than 100%.

(e) Collected Tons = column 7, line 4 (total tons collected) times column 8 (percent total tons) divided by 100.

(f) Pounds/Capita/Day = column 7 (material type tons) times 2,000 pound/ton divided by the 2014 county population divided by 365 days.

(g) The Legislature established a goal of 50 percent for each material by the end of 1994 for each county with a population over 50,000.

(h) The total of these materials can count towards no more than one half of the 30 percent recycling goal for each county.

(i) Process fuel (yard, wood and paper waste used in process boilers) should not be included in line 4, column 2 (total county tons collected), as they are accounted for in other material categories. They should be counted in line 4, column 5 (total county tons recycled).

## APPENDIX

HAZARDOUS WASTE

INFORMATION

FOR

SUMTER COUNTY LANDFILL ~~TER~~ SUMTER COUNTY LANDFILL

OPERATIONS PERSONNEL

C-103

## SUMTER COUNTY LANDFILL SOLID WASTE FACILITY

### EMPLOYEE HAZARDOUS WASTE HANDOUT

Gasoline and a source of ignition do not mix well. Neither do some types of waste, waste by-products, workers, and the environment.

#### WASTE ACCEPTANCE

The types of waste that can be accepted for processing or disposal are restricted by State rules and permit regulations.

~~Federal Guidelines and State Rules limit and/or control disposal of the following types of waste:~~

following types of waste:

liquids

solid waste containing free moisture\*

hazardous waste

raw sewage sludge

animal manure

dead animals

septic tank pumpings

tires

\*free moisture is defined as the liquid that will freely drain by gravity from a solid material.



The following wastes require special handling and when possible prior approval from supervisory personnel should be obtained when loads of these wastes are anticipated:

- liquids
- animal manure
- dead animals
- septic tank pumpings
- tires (when in volume loads)

#### Hazardous Waste

The solid waste facility cannot accept hazardous waste.

A waste is hazardous if it exhibits a characteristic listed below:

- ignitability (flash point less than 140° C)
- oxidizer
- corrosivity (ph less than 2 or greater than 12.5)
- reactive
- explosive
- toxic
- infectious
- radioactive

Wastes which have one or more of the above characteristics cannot be disposed of in a solid waste facility.

Some specific hazardous wastes which you may encounter that also cannot be accepted are as follows:

paint wastes (filters and sludges - may be ignitable or E.P. toxic)

glass grindings (typically from eyeglass manufacturing - may be E.P. toxic)

foundary sands (may be E.P. toxic)

cured or uncured resins and epoxies (may be flammable or toxic)

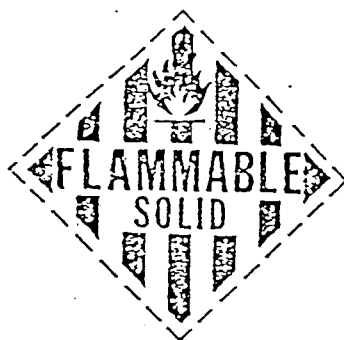
sludges (may be from gas and oil bottom cleaning or from electroplating operations, may be E.P. toxic)

Hazardous materials are often labeled. Operators should look for a label on containers indicating that the contained material was, or is, hazardous.

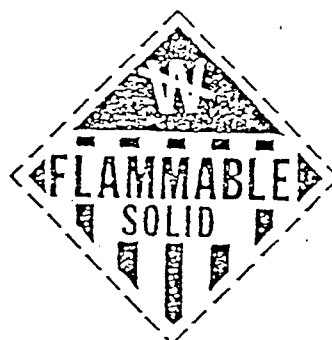
The following are diagrams of the placards which the Department of Transportation requires on all hazardous materials shipments. Any item in a container identified by these signs must be inspected and identified for hazardous content prior to acceptance:

# TABLE OF PLACARDS AND APPLICABLE RESPONSE GUIDE PAGES

USE ONLY IF MATERIALS CANNOT BE SPECIFICALLY IDENTIFIED  
THROUGH SHIPPING PAPERS OR MARKINGS.



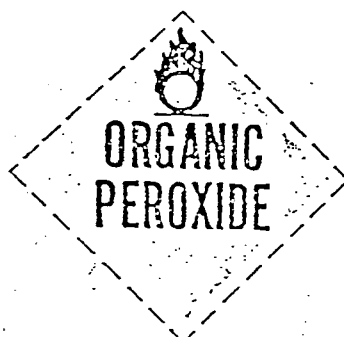
Guide 38



Guide 41



Guide 47



Guide 52



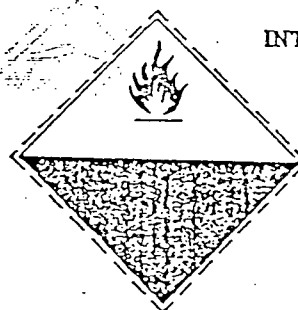
Guide 55



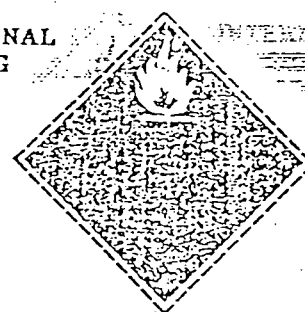
Guide 63



Guide 59



Guide 37



Guide 41

# TABLE OF PLACARDS AND APPLICABLE RESPONSE GUIDE PAGES

## TABLE OF

USE ONLY IF MATERIALS CANNOT BE SPECIFICALLY IDENTIFIED  
THROUGH SHIPPING PAPERS OR MARKINGS.



Guide 11



Guide 46



Guide 46



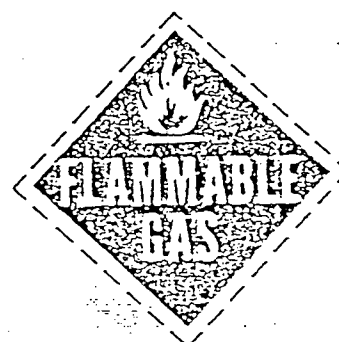
Guide



Guide 46



Guide 16



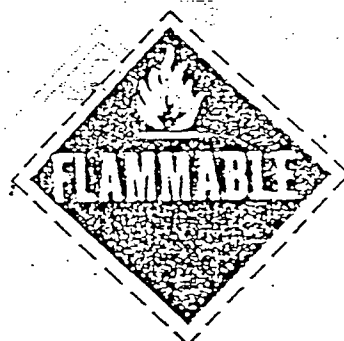
Guide 19



Guide 16



Guide 15



Guide 26



Guide 26



## HAZARDOUS WASTE

**Definition:** Waste that cannot be handled by routine management techniques due to the potential harm to man or the environment.

**Catagories:** Flammables and explosives - can be set on fire, will flash to combustion, will support fire or flame.

Oxidizers - an element when combined with oxygen from open air or water will react. Once reaction begins, it is difficult to stop.

Corrosives and irritants - the destruction of materials or body parts by chemical action.

Poisons and toxics - having a destructive effect on humans or animals usually caused by chemicals or fumes and gases from ~~chemicals~~ and chemicals.

Infectious - capable of injury by disease, to cause infection of a disease, to spread a disease.

Radioactives - emitting invisible nuclear rays usually from a radioactive chemical element.

Nonhazardous Industrial Wastes - is defined as wastes from an industrial process, waste or off-spec chemicals, residuals from water and wastewater treatment, incineration residues, and other residuals from pollution control devices.

These materials must have a determination by the State of Florida, Department of Environmental Regulation as to hazardous or nonhazardous status prior to acceptance. Experience has taught solid waste professionals to insure the disposer is actually bringing in the material he says he is. Some method of positive identification of these wastes must be developed within

the regulator, disposer, and solid waste facility circle prior to acceptance of this type of waste.

Examples of materials which may be nonhazardous in certain instances are:

paint sludge

lime sludge

organic resins

ash

wood and paper mill wastes

foundry sand

food waste

#### Hazardous Waste Identification

The attendant must perform a thorough inspection of all incoming waste to prevent a potentially hazardous situation from developing at the solid waste facility building.

A few minutes of additional time may be needed to adequately perform a complete inspection of the load. Sometimes a supervisor will have to be called for assistance. The few minutes involved is well worth the extra time when the possible consequences of a hazardous event are considered.

The following items are the most common types of hazardous or potentially hazardous wastes the attendant and tipping floor operators will encounter.

PRODUCT TYPEPOTENTIAL HAZARD

Air fresheners and deodorizers

toxic, irritant

Bleach

corrosive, irritant

Car wax, polish

toxic, irritant

Disinfectants

corrosive, flammable, toxic, irritant

Drain cleaner

reactive, corrosive, irritant

Flea powder

toxic irritant

Floor cleaner/wax

toxic, flammable, irritant

Furniture polish

toxic, reactive, irritant

Oven cleaner

reactive, irritant

Paint thinner

toxic, flammable, irritant

Paints

flammable, irritant

Spot removers

corrosive, irritant

Toilet bowl cleaner

toxic, flammable, corrosive, irritant

Window cleaner

toxic, irritant

Wood stains/varnish

flammable, irritant

The above items will usually be thrown out in household trash and most containers you see will be empty and loose in the trash. Should these items be found on the tipping floor in shipping boxes, loose in the trash but in a small quantity of numbers, or many loose items in similar containers (boxes, bags, etc.) it is a matter of concern. Items grouped as described above should not be accepted.

The following items should be handled with extreme caution and should under no circumstances be accepted:

<u>PRODUCT</u>	<u>INGREDIENTS</u> (may/may not be on label)	<u>POTENTIAL HAZARD</u>
Ammunition	blackpowder, primer	explosive
Antifreeze	Ethylene glycol, methanol	toxic
Auto batteries	sulphuric acid, lead	toxic, reactive & corrosive
Concentrated windshield washer solution	methyl alcohol	toxic
Carburetor cleaner, engine degreaser	petroleum distillates	flammable
Insulation, pipe wrappings	asbestos	carcinogen
Herbicides (see label for: 2, 4, D; 2, 4, 5-T; 2, 4, 5-TP; Silvex, MCPA; MCPB)	chlorinated phenoxy	toxic, irritant
Lighter fluid, lamp oil	petroleum, hydrocarbons (benzene)	flammable
Motor oil, gasoline	petroleum, hydrocarbons (benzene)	flammable
Pesticides (see label for: Aldocarb, Oxamyl, Carbofuran, Methyomyl, Sectran, Propoxur, Carbaryl, Sevin)	lead	flammable
Pesticides (see label for: Edrin, Aldrin, Dieldrin, Toxaphene, Lindane, Benzene, Hexachloride, DDT, Heptachlor, Chlordane, Mirex, Methoxychlor)	carbamates group	toxic
Pesticides (see label for: Phorate, Mevinphos, Demeton, Disulfotam, Parathion, Diazinon, Trichlorfon, Ronnel, Azinphosmethyl)	chlorinated hydrocarbons group	toxic
Propane cylinders, butane lighters, cylinders	Organophosphates group	toxic
Swimming pool acid	petroleum distillates	flammable
Swimming pool chlorine	muratic acid	reactive, corrosive
Infectious waste	sodium hypochlorite	reactive, corrosive
Radioactive waste	pathogens	infectious
	radioactive isotopes	carcenogenic



## Hazardous Waste Separation

Hazardous wastes which may be disposed of with domestic or light industrial solid waste can be separated into five (5) major categories for identification purposes:

- |                            |  |
|----------------------------|--|
| 1. explosives:             | organic solvents, ammunition, oil, gasoline, propane                         |
| 2. corrosive and reactive: | acids and bases  |
| 3. toxic:                  | asbestos, toxic metals, organic solvents, pesticides and poisons, herbicides |
| 4. infectious:             | pathogenic   |
| 5. radioactive             | radio isotopes   |

When hazardous materials are discovered in the waste stream at solid waste facilities, operators should separate the following general groups of substances from one another and insure temporary storage facilities adequately achieve separation:

Asbestos - do not crush bag or container

Toxic metals - i.e. mercury (switches and thermometers)

arsenic

lead

cadmium

most batteries

Organic solvents (i.e.)

cleaning fluids

polishes

rust remover

dyes

contact and other cements

glues

fingernail polish and remover

paints, including wood preservatives

thinners

degreasers

antifreeze, coolants

propane tanks

butane tanks

methyl alcohol

auto body filler

fluorescent lamp ballast (PCB)

Acids (i.e.)

- drain cleaners
- tub and tile cleaners
- toilet bowl cleaners
- muratic acid (swimming pool and masonry work)
- used auto batteries
- hydrofluoric acid
- sulfuric acid
- phosphoric acid
- chlorine - bleaches - never mix with ammonia

Bases (i.e.)

- lye (sodium hydroxide)
- oven cleaners
- drain cleaners
- ammonia - never mix with chlorine or bleaches
- ammonium nitrate

Pesticides and Poisons (i.e.)

- soil fumigants
- nematicides
- farm, garden, and agricultural insecticides
- fungicides

Herbicides (i.e.)

- weed killers
- vegetative control products
- water weed killers

Infectious wastes (i.e.)

- hospital wastes (red bag waste)
- nursing home wastes
- clinical wastes

Radioactive wastes (i.e.)

- camping lantern mantles (thorium)
- used smoke detectors (ionization type)
- some military equipment
- hospital and clinical x-ray wastes

Operators must insure that materials of a hazardous nature are not allowed to be left at the solid waste facility by customers. Make them load it up and take it with them. A good policy is to get the vehicle license number and a description of the vehicle and report to a supervisor with details of hazardous materials attempted to be disposed.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Composting and Processing Facility**

**SECTION 3 - OPERATION OF A SOLID WASTE  
FACILITY FOR THE PRODUCTION OF COMPOST PERMIT**



# Department of Environmental Protection

DEP Form # 62-701 900(10)
Ap. for Per. to Construct/Operate a Solid Waste Mgmt. Fac. for Prod. of Compost
Effective Date 12-23-86
DEP Application No. _____ (Filled in by DEP)

## Application for a Permit to Construct ☐ Operate ☒ A Solid Waste Management Facility for the Production of Compost

### General Requirements

Solid Waste Management Facilities for the production of compost or mulch shall be permitted pursuant to Section 403.707, Florida Statutes, and in accordance with Rule 62-709, Florida Administrative Code. A minimum of six copies of the application shall be submitted to the Department district Office having jurisdiction over the facility. Complete appropriate sections for the type of facility for which application is made. Entries should be typed or printed in ink. All blanks should be filled in or marked not applicable. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to support the application is listed on the attached pages of this form.

Facility Type: ☒ Existing ☐ Proposed

Materials Processed: ☐ Yard Trash ☐ Manure ☐ Other Solid Wastes ☒ Solid Wastes with Sludge

Facility Name: Sumter County Solid Waste Management Facility

b. Facility Location (main entrance): 835 CR 529 Sumterville, Florida: 1 mile East of I-75 on CR 470

Section 15/22 Township 20, Range 22 Latitude 28 ° 44 ' 30 " Longitude 82 ° 05 ' 20 "

2. a. Applicant Name (operating authority): Sumter County Department of Public Works

b. Address: 319 E. Anderson Avenue Bushnell Florida 33513  
Street P.O. Box City State Zip Code

c. Contact Person: Garry Breeden 352-793-0240  
Name Telephone Number

3. a. Authorized Agent/Consultant: Springstead Engineering, Inc 352-787-1414

b. Address: 727 S. 14th Street Leesburg Florida 34748  
Street P.O. Box City State Zip Code

c. Contact Person: David W. Springstead, P.E. 352-787-1414  
Name Telephone Number

4. a. Landowner (if different than applicant): \_\_\_\_\_

b. Address: \_\_\_\_\_  
Street P.O. Box City State Zip Code

5. Estimated Cost of Construction, Total: \$ N/A

Anticipated Construction Starting and Completion Dates From: N/A To: N/A

DEP Form # 62-701.800(10)
Ap. for Per. to Construct/Operate a Solid Waste Mgmt. Fac. for Prod. of Compost
Effective Date 12-23-96
DEP Application No. (Filled in by DEP)

## Required Attachments for Construction/Operation Permit for a Solid Waste Management Facility Producing Compost

### General

Permit application and supporting information shall include the following (62-709.300(3), F.A.C.):

1. A letter of transmittal to the Department;
2. A table of contents listing the main section of the application
3. The permit fee specified in Rule 62-4.05, F.A.C., in check or money order payable to the Department;
4. Six copies, at minimum, of the completed application for, all supporting data, and reports;
5. Engineer seal;
6. Engineer's letter of appointment, if applicable;
7. Copy of any lease agreement, or any other agreement between operator and property owner by which the closing of the facility may be affected; and
8. Proof of publication of notice of application for the proposed activity in a newspaper of general circulation.

Completeness  
Check

<input checked="" type="checkbox"/>
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### Specific Attachment Item

The following information items must be included in the application. Please explain if they are not applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required does not have to be resubmitted for an operation permit if the information has not changed during the construction period.

#### 1. Facility Design (62-709.500, F.A.C.)

NOTE: All maps, plan sheets, drawings, or aerial photographs shall be legible; be signed and sealed by the registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow, and use NGVD for all elevations.

- a. A map or aerial photograph of the area, no more than 1 year old, unless not substantially changed for older map or photograph, showing land use and zoning within 1 mile of the facility. (62-709.500(2)(a), F.A.C.)

- b. Site Plan (62-709.500(2)(b), F.A.C.)

Note: The site plan shall be on a scale not greater than 200 feet to the inch showing the following:

- (1) Dimensions of the site
- (2) Plan for receiving, procession, production, curing (if any) and storage areas
- (3) Fencing or other measures to restrict access

- c. Topographic Maps (62-709.500(2)(c), F.A.C.)

NOTE: The topographic maps, which may be combined with the plot plan (item 1b), on a scale not greater than 200 feet to the inch showing the following:

- (1) Five foot contour intervals
- (2) Access roads
- (3) Grades required for proper drainage
- (4) Special drainage devices
- (5) Other pertinent information based on intended use of facility

- d. Report (62-709.500(2)(d), F.A.C.)

- (1) Designed capacity of the proposed facility
- (2) Anticipated type and source of solid waste
- (3) Any additives to be used in the production of compost

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Completeness  
Check

2. Facility Performance and Design Standards (62-709.500, F.A.C.)

a. Support for operation (62-709.500(1), F.A.C.)

- (1) Material type (soil, synthetic, other)
- (2) Adequate base support

b. Leachate control and removal system performance (62-709.500(6), F.A.C.)

- (1) Construction materials
- (2) Strength and thickness
- (3) Measures to prevent clogging
- (4) Central collection point for reused, or treatment and disposal
- (5) Equivalency to design standards

c. Stormwater management system performance (62-709.500(3), F.A.C.)

- (1) Prevention of surface water flowing onto receiving, processing, and curing (if any) areas
- (2) Stormwater run-off controls; retention, detention ponds
- (3) Equivalency to design standards
- (4) Design to minimize ponding of solid waste, composting material and finished compost
- (5) Water management district approval

3. Operational Features and Appurtenances (62-709.500(4), F.A.C.)

a. Effective barrier

b. All weather access road

Signs indicating name of operating authority, traffic flow, hours of operation, contact in cases of emergencies and charges (if any)

d. Scales

e. Dust control method

f. Litter control devices (if needed)

g. Fire protection and control provisions

h. Odor control devices; methods or practices

4. Additional Operation Criteria (62-709.510(c), F.A.C.)

a. Attendant

b. Communication devices

5. Operations Plan (62-709.500(5)(c), F.A.C.)

a. Designation of responsible person(s)

b. Proposed equipment

c. Contingency operations

d. Controlling the type of waste received at the site

e. Weighing incoming waste

f. Vehicle traffic control and unloading

g. Method and sequence of processing the waste

h. Operations of leachate, and stormwater controls

i. Designation of backup disposal site(s)

6. Water Quality Standards (62-709.500(3) & (6)(c), F.A.C.)

Describe how surface runoff and leachate will be handled to meet water quality standards of Rules 62-3 and 62-4, F.A.C.

7. Compost Facility Data Form

8. Certification by Applicant and Engineer or Public Officer

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## Compost Facility Data Form

Permit No.: SC60-132071 Issue Date: 12/16/92 Expires: 11/1/97  
 Facility No. (DEP identification): 4060C00092

DEP Action: <input type="checkbox"/> Add <input type="checkbox"/> Delete <input type="checkbox"/> Change <input type="checkbox"/> Deactivate Site <input checked="" type="checkbox"/> Other <u>Renew</u>		
1. County <u>Sumter</u>		2. Facility Name <u>Sumter County Solid Waste Management Facility</u>
3. Date Form Completed <u>7/31/97</u>		4. Facility Address <u>835 CR 529 Sumterville, Florida</u>
4a. Facility Phone Number <u>352-793-3368</u>		4b. Facility Site Supervisor <u>Mr. Terry Hurst</u>
5. Facility Type <input checked="" type="checkbox"/> Composting <input type="checkbox"/> In-vessel <input type="checkbox"/> Static Pile <input type="checkbox"/> Windrow <input type="checkbox"/> Other. Describe _____		
6. Month/Year Begun <u>10/88</u>	7. Area within Site Boundary <u>120</u> Acres	8. Area within Property Boundary <u>120</u> Acres
9. Security to Prevent Unauthorized Use <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Weighing Scales <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11. Waste Processed Per Operation Day <u>60</u> tons		
12. Maximum Processing Rate <u>100</u> tons		
13. Charge/ton <u>49.00</u>	14. Days operated <u>X</u> M <u>X</u> T <u>X</u> W <u>X</u> T <u>X</u> F <u>X</u> S	15. Hours/Day Operated <u>8</u>
16. Types of Waste Received <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Agricultural <input type="checkbox"/> Septic Tank <input checked="" type="checkbox"/> Sludge <input checked="" type="checkbox"/> Yard Trash <input type="checkbox"/> Sewage Sludge <input checked="" type="checkbox"/> Other <u>Institutional</u>		
17. Leachate Recycled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17a. Treatment Method Used: <u>Recirculation into Digester</u>
17b. Discharges to: <input type="checkbox"/> Surface Waters <input type="checkbox"/> Underground <u>N/A</u>		17c. Class Receiving Water <u>N/A</u>
18. Final Residue is <u>30</u> % of waste intake		18a. Residue is disposed of at (site name) <u>Lake County Incinerator</u>
19. Surface Runoff Collected <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	19a. Type of Runoff Treatment <u>Dry Retention</u>	19b. Class of Receiving Waters <u>G-II</u>
20. Number of Staff <u>20+</u>	21. Attendant <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22. Name and Title of Person Completing Form <p style="text-align: center;"><u>David W. Springstead, P.E.</u></p>		

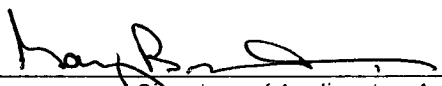
Note: All blanks for the numbered items must be filled or marked as not applicable.

DEP Form # 62-701.800(10)
Ap. for Per. to Construct/Operate a Solid Waste Mgmt. Fac. for Prod. of Compost
Effective Date 12-23-96
DEP Application No. _____ (Filled in by DEP)

## Certification by Applicant and Engineer or Public Officer

### A. Applicant

The undersigned applicant or authorized representative of Sumter County Board of County Commissioners is aware that statements made in this form and attached information are an application for a Solid Waste Management Facility for production of Compost 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 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.

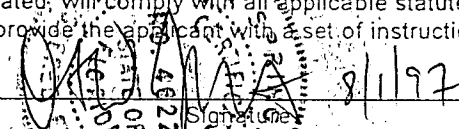
  
 \_\_\_\_\_  
 Signature of Applicant or Agent  
Garry Breeden, Director of Public Works  
 Name and Title

Date: 8/1/97

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

### B. Professional Engineer Registered in Florida or Public Officer as Required in Section 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  
David W. Springstead, P.E.  
 Name and Title (please type)

Florida Registration No. 48229

(Please affix seal)

727 S. 14th Street  
 Mailing Address  
Leesburg, FL 34748  
 City, State, Zip Code  
 Telephone No. 352-787-1414  
 Date: \_\_\_\_\_

Construction Cost Estimate: \_\_\_\_\_

Permit Number: \_\_\_\_\_

Issue Date: \_\_\_\_\_

Review Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_



APPLICATION TO OPERATE SOLID WASTE MANAGEMENT FACILITY FOR THE  
PRODUCTION OF COMPOST

1.0 INTRODUCTION AND SCOPE

Purpose

This document has been prepared under the direction of the Sumter County Board of County Commissioners - Department of Public Works for the purpose of submitting an application to the Florida Department of Environmental Protection (FDEP) to permit the compost operation at the Sumter County Recycling, Processing and Composting Facility.

Site Location

The subject facility is located at 835 CR 529, Sumterville, Sumter County, Florida (Sections 15 and 22, Township 20 South, Range 22 East) which is south of County Road 470 and approximately 1 mile east of Interstate Highway 75. The general site location is shown on the Site Location Map presented in Figure 1.

Current Facility Status

General

The Sumter County Solid Waste Management Facility is the only public collection center for solid waste in the County. The site is centrally located in Sumterville to provide convenient access to all residents of the county. The facility is open six days a week (Monday through Saturday) between the hours of 7:00 AM and 4:00 PM. Operation and maintenance of the facility is provided by Sumter County. The facility director is Mr. Terry Hurst.

### Operations

The composting digester at the facility has three compartments. The material is loaded into the first compartment and is discharged from the third compartment. The material is moved to successive compartments as the need to reload the first compartment as required by the incoming material volume.

The compost operational process at the facility generally consists of the organic fraction of the material in the waste stream coming into the digester portion of the materials recovery building and discharging into the digester loading ram-pit. As this material falls into the hopper, the ram cycles and loads the first chamber of the digester. Moisture is added to the material by a pumping system.

A 3,000 gallon mixing basin is located on the west side of the digester ram push-wall under roof. Leachate from the leachate collection system in the building, used water from the scrubber and water from the manhole which collects stormwater from the biofilter are piped into this basin. This water and any additional make-up water needed for moisture is pumped into the digester from the basin. The volume of water placed in the tank is only enough to provide moisture for digester loading that day. The tank is emptied each day the digester is loaded.

The primary nitrogen source for digester is dewatered biosolids. These are stored under roof in the digester loading area. The biosolids are added to the organic fraction of the solid waste stream in the ram-pit if dry enough or they are reconstituted in the mixing basin and pumped into the digester.

Based on the volume of material entering the facility, the material spends from 72 to 120 hours in the digester. The temperature, moisture content and level of material in each digester compartment is measured at least daily.

Prior to loading the first compartment, the third compartment is unloaded by partially opening the doors at the end of the digester. The composted material falls into a hopper

and is conveyed into a live-bed truck for transport to the north composting pad. As the third compartment is emptied, the discharge doors are closed and the door from the second to the third compartment is opened to allow the material to move. The depth of the material is monitored and the door is closed when the second compartment is emptied. The door from the first to the second compartment is then opened and the material in the first compartment is allowed to move in the same manner. After the first compartment is emptied, the doors are closed and loading can proceed.

After the compost is discharged from the digester, the compost is run through a screen and placed into windrows on the north composting pad. The residuals from the screen are measured, loaded and hauled to an approved disposal facility. The temperature and moisture content in the windrows is manually monitored. The material is turned with a Scarab turning machine one time every two to three days, based on the temperature readings. After 30 days on the pad, the material is screened again and placed in a pile. The material is tested in accordance to FAC 62-709 to determine the classification and distribution restrictions.

Upon completion of the finishing building, the compost from the digester will be conveyed to the screen and then to the floor of the finishing building. The material will be made into windrows using loaders and then mixed with the Scarab. Moisture will be added to the windrows, where needed, using hoses. The finishing building will be a concrete slab with a metal building roof and frame. The building will accommodate the compost for the design capacity of the facility.

Specific operational data is presented in the Operation and Maintenance Manual provided by Bedminster Bioconversion Corporation and submitted with the construction application for the digester.

The design of the facility is based on 100 tons per day being processed in a 7½ hour shift.

Based on past operational information from the facility, approximately 70% of the solid waste which enters the facility is eventually recycled. Of this 70%, approximately 10% of the incoming material is sorted and sold directly to recycling companies and approximately 60% is composted and sold. The remaining 30% is hauled to an approved FDEP facility for disposal. These percentages should increase upon completion of the recycling/composting facility.

The facility also has a lined emergency storage cell. The cell is empty at this time.

This permit application is being submitted to FDEP to operate the composting facilities. The necessary permit information is presented in this report. The numbered information presented in the report corresponds to the question number designated in the permit application.

## 2.0 SPECIFIC ATTACHMENT ITEMS

### 1. FACILITY DESIGN

#### a. Zoning Map

A recently revised map of the area showing use and zoning within one (1) mile of facility is presented in Figure 4 of the attached drawings.

#### b. Site Plan

A site plan of the facility is presented in Figure 1 and shows the following:

- (1) Dimensions of site;
- (2) Plan for receiving, processing, production curing and storage areas;
- (3) Fencing or other measures to restrict access.

#### c. Topographic maps

A topographic map prepared from a recent aerial photograph was prepared and is enclosed in the accompanying set of drawings. The topographic map shows the following:

- (1) One (1) foot contour intervals;

- (2) Access roads;
- (3) Grades required for proper drainage;
- (4) Special drainage devices;
- (5) Other pertinent information based on intended use of the facility.

**d. Report**

**(1) Design capacity of the facility**

The design capacity of the facility is one hundred (100) tons per day.

**(2) Anticipated type and source of solid waste**

Sumter County contracted with TIA Solid Waste Management Consultants to conduct a study of the composition of the county's municipal solid waste. The results of the study were submitted to the Sumter County Board of County Commissioners in a report titled Sumter County Waste Composition Study - January 1991

Table 3-5 of the above report identified the types and percentages of waste as follows:

1.	Newsprint	7.9
2.	Fine Paper	4.2
3.	Misc. Paper	9.0
4.	Corrugated	8.7
5.	Plastic Film	4.4
6.	Plastic (PET)	0.8
7.	Plastic (HDPE)	0.5
8.	Plastic (BOT)	1.4
9.	Plastic (Other)	3.8
10.	Textiles	1.5
11.	Yard Waste	13.8
12.	Food Waste	5.4
13.	Wood Lumber	0.5

14.	Glass	4.1
15.	Rubber	0.4
16.	Steel Cans	3.1
17.	Other Ferrous	0.5
18.	Non-Ferrous (Aluminum)	0.5
19.	OBW	0.0
20.	Construction	15.6
21.	Sweepings	0.0
22.	Other	14.0

Also, footnote 3 in Table 3-5 indicate the source of waste as follows:

1.	Residential	54%
2.	Commercial / Industrial	43%
3.	Institutional	3%

**(3) Any additives to be used in the composting process**

Domestic waste biosolids will be used in the production of compost. Moisture control will be provided by leachate from the MRF building lift-station, runoff into the biofilter, scrubber water and separately contained biosolids. Any make-up water needed to provide moisture control will come from the site water system which is also currently under construction.

**2. FACILITY PERFORMANCE AND DESIGN STANDARDS**

**a. Support for Operation**

**(1) Material Type (soil, synthetic, other)**

The existing MRF building floor is constructed of concrete. The composting digester will be supported on individual spread footings. Roadways and parking drive areas are constructed of recycled asphaltic pavement (RAP) placed on a compacted subgrade.

**(2) Adequate base support**

The native soil materials beneath the proposed composting pad, screening building and roadways will provide an adequate base support.

**b. Leachate control and removal system performance**

As the entire proposed composting process is under roof, no generation of leachate other than from the material as it enters the facility is anticipated. All leachate generated will be used for moisture control in the digester composting process. No excess leachate volume is anticipated.

**c. Stormwater management system performance**

**(1) Prevention of surface water flowing into receiving, processing and curing areas**

The ground around the base of the MRF building slopes away from the building to prevent stormwater runoff from entering the building. The digester is an elevated steel tube which does not allow any surface water contact with the material being processed.

**(2) Stormwater run-off control; retention, detention ponds**

No stormwater run-off will be generated due to the construction of the digester. The site stormwater management system has been permitted by the Southwest Florida Water Management District (SWFWMD Permit No. 442092.05) .

**(3) Equivalency to design standards**

The stormwater management system for the facility meets the requirements of SWFWMD.

(4) **Design to minimize ponding of solid waste, composting material and finished product**

The surface of the processing areas are sloped such that any water on the floor of the building will drain to the catch basin and flow to the lift station.

(5) **Water management district approval**

An Environmental Resources Permit has been obtained from SWFWMD. A modification is applied for to cover construction of the finish building portion of the project.

3. **OPERATIONAL FEATURES AND APPURTENANCES**

a. **Effective barrier**

The entire solid waste complex is surrounded by fencing, with entry being controlled by locking gates.

b. **All weather access road**

Roads that provide access between public roads or highways and the Sumter County Landfill are maintained so as to be passable in ordinary inclement weather. The west access road between CR 470 and the proposed buildings is paved with asphaltic concrete. The east access road between CR 470 and the proposed buildings is paved with RAP.

c. **Signs indicating name of operating authority, traffic flow, hours of operation, contact in cases of emergencies and charges (if any)**

A sign indicating the name of the facility and operator is located on CR 470. Numerous instructional signs pertaining to traffic flow are erected at the facility. Signs specifying rates and acceptable wastes are visible to patrons approaching the scales. Signs are posted directing traffic back to the scales after depositing waste and out of the facility. Signs are posted indicating the hours of daily operation, indicating that the facility is closed on Sundays, that solid waste transported from outside Sumter County is not permitted and that Hazardous materials are not accepted.



**d. Scales**

State approved weigh scales are provided at the entrance to the solid waste complex. Measurement of all material received at the facility provides data for planning, forecasting and a basis for establishment of fees.

**e. Dust control method**

As the material is at approximately 50 moisture content, dust control measures are not anticipated to be needed.

**f. Litter control devices**

Litter will be controlled by cleaning the processing building at the end of the day. Fences around the perimeter of the building will prevent litter from blowing out. Litter is picked-up around the facility daily.

**g. Fire protection and control provisions**

Suitable measures will be taken to prevent and control fires. A well for potable and fire supply has been permitted through SWFWMD and constructed. The water treatment system is currently being designed and will be permitted shortly. Fire hydrants will be located around the new and the existing facility. A FDEP dry-line permit has been received for construction of the lines. Suitable fire extinguishers, maintained in working order, are located at several locations around the facility. The Lake Panasoffkee Fire Department is located approximately three (3) miles from the site.

**h. Odor control devices, methods or practices**

Odor control will be provided by the use of a scrubber and a biofilter which collects the air from the in-feed area of the conveyor. The body of the digester is not open to the atmosphere.

**4. ADDITIONAL OPERATIONAL CRITERIA**

**a. Attendant**

An attendant is on duty during all operating hours at the scale house. The facility director is also on duty at the facility during all hours of operation. Tipping floor personnel are on duty during operating hours to help with unloading operations and inspect the solid waste stream.

**b. Communication devices**

Communication is provided at the facility by two-way radios and direct voice communication. A telephone and fax machine are located at the office.

**5. OPERATIONS PLAN**

**a. Designation of responsible persons**

Mr. Garry Breeden - Director of Public Works  
Sumter County Director of Public Works  
222 East McCollum Avenue  
Bushnell, Florida 33513  
Phone (352) 793-0240  
Fax (352) 793-0247

Terry Hurst - Facility Director  
Sumter County Composting, Processing and Recycling Facility  
835 CR 529  
Sumterville, Florida 33585  
(352) 793-3368  
(352) 568-0166

**b. Proposed equipment N/A**

**c. Contingency operations**

The operation contingency for the composting process is to load and haul the organic portion of the material to an FDEP permitted disposal facility.

**d. Controlling the type of waste received at the site**

Incoming solid waste is inspected at four check points as follows:

1. The attendant at the scale house looks at all incoming waste loads. The scale house attendant takes the following actions in the event that non-acceptable waste is identified:
  - a. Tells the person hauling the waste that the waste is not acceptable and cannot be disposed of at this facility;
  - b. Insures that the non-acceptable waste leaves the facility with the hauler.
2. Tipping floor personnel are notified by the scale house attendant of the presence of non-acceptable waste. The notified personnel will observe the dumping of the load and insure that the non-acceptable waste is not tipped. Tipping floor personnel will insure that the non-acceptable waste is on the vehicle when it leaves the tipping floor and insure that the vehicle proceeds directly to the scale house.
3. The scale house attendant will insure that the non-acceptable waste is on the vehicle when it leaves the site.
4. The attendant responsible for inspecting solid waste as it is placed on the processing conveyor belt will visually inspect for non-acceptable waste. If the source of the non-acceptable waste can be identified, responsible parties will be notified and required to remove the non-acceptable waste from the facility. If the source of the non-acceptable waste cannot be identified, it will be separated from the normal material stream. Sumter County will contract with a commercial enterprise to provide pickup and removal of any non-

acceptable waste within 72 hours or transport the material to a disposal facility which is permitted for acceptance of the non-acceptable waste.

**e. Weighing incoming waste**

Provisions exist for weighing the solid waste delivered to the facility for processing. State certified scales are located at the scalehouse. The only materials which are not weighed when entering the site are clean recyclables which can be dropped off prior to weighing. Measurement of all material received at the facility provides data for planning, forecasting and a basis for establishment of fees.

**f. Vehicle traffic control and unloading**

Signs direct commercial and non-commercial patrons to the proper entrances to the facility. Signs are posted directing commercial haulers to the commercial tipping floor and individuals to the area of the tipping floor for private patrons. Signs are also posted directing haulers of construction debris, white goods and tree stumps to the proper off-loading location. Assistance is provided for unloading as part of the ongoing inspection of the material being introduced to the facility.

**g. Method and sequence of processing waste**

The process at the facility consists of dropping off clean recyclables prior to crossing the scale, weighing, and proceeding to the materials recovery facility tipping floor (commercial separated from individual). Material tipped in the building is observed for non-acceptable material. The large and bulky items are removed. The material is then pushed into on to a belt conveyor. The material passes by sorting stations where corrugated cardboard and other bulky items are removed. The material then passes through a bag breaker where plastic garbage bags are torn open and the material

passes to another conveyor. The material passes by sorting station pickers who remove the film plastic and then passes under a belt magnet which removes ferrous objects. The material then passes over a disc-screen where material less than 2-inches in size passes through to a lower conveyor leading to the end of the sorting line. The material passing over the disc-screen proceeds to a conveyor where sorting station pickers remove recyclables. At the end of the sorting conveyor, all of the material passes over magnetic head-pulleys to remove any remaining ferrous. The material from the upper (sorting) conveyor and lower conveyor is combined and then passed through an eddy-current separator to remove aluminum. The remaining material passes to a conveyor which leads to the proposed digester ram-pit to load the digester. Moisture will be added to the material as it is placed in the digester to achieve optimum decomposition. The material will spend a minimum of 72 hours in the digester. After the compost is discharged from the digester, the compost will be placed into windrows in the finish building, which is the Phase III portion of the recovery/composting facility. The material will be further composted until it is mature. The compost is screened to remove foreign matter. The compost is then placed in piles, tested, typed and sold. The foreign matter is disposed of at an FDEP approved disposal facility.

Recovered materials from the sorting lines are baled and stored in the old materials recovery building on the asphalt pad east of the old materials recovery building until sold.

**h. Operations of leachate and stormwater controls**

No leachate is generated during the digester composting process. Any leachate generated in the materials recovery building will be added to the digester as compost moisture control.

i. **Designation of backup disposal site(s)**

Backup disposal sites include, but are not limited to, the Lake County Incinerator, located 12 miles east of the site in Okahumpka, Florida.

6. **WATER QUALITY STANDARDS**

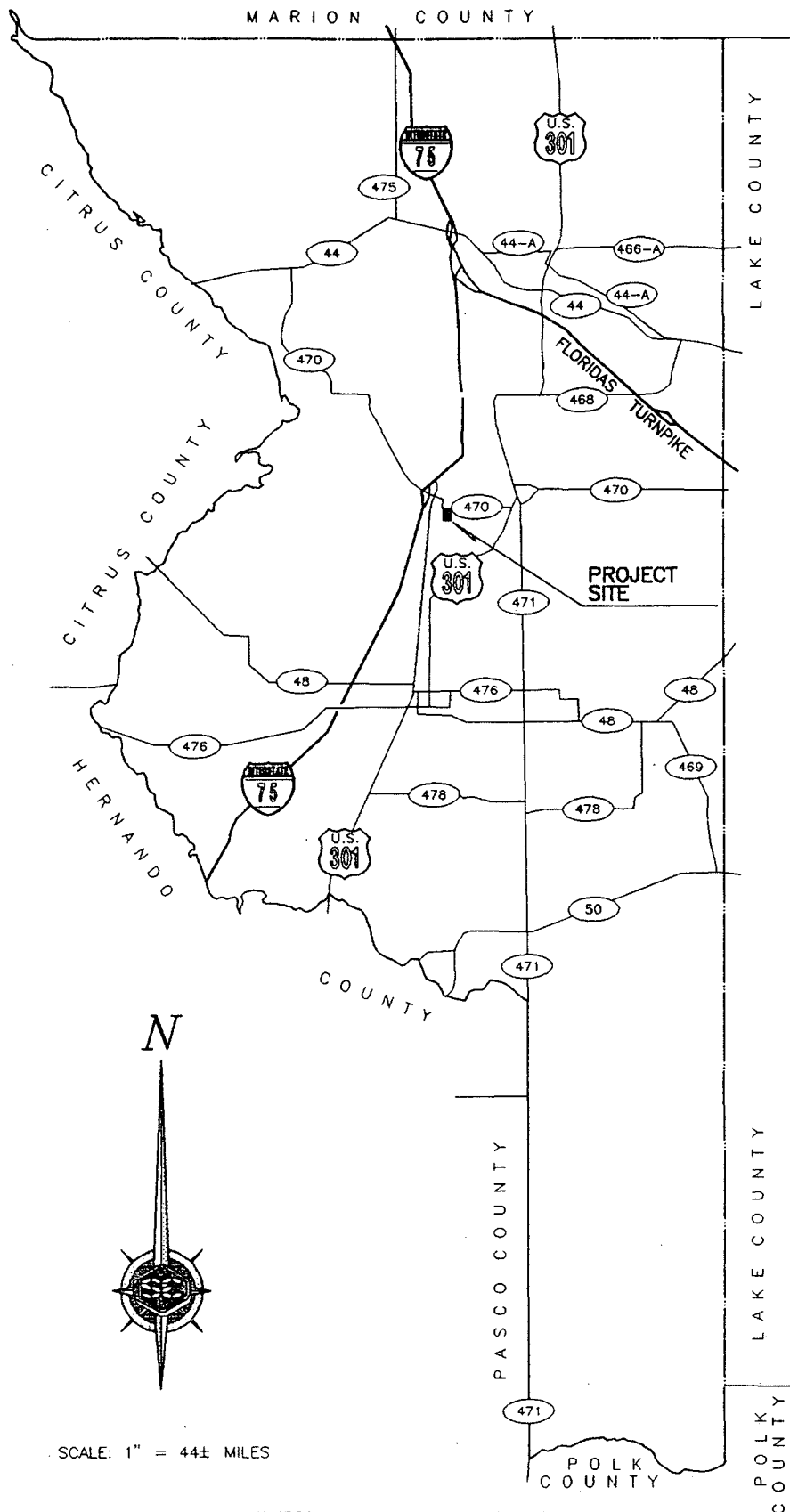
Surface stormwater runoff will be directed to stormwater retention ponds which will provide treatment as required by the SWFWMD permit. As the entire proposed process is under roof, no generation of leachate other than from the material is anticipated. All leachate generated will be used in the digester composting process. No excess leachate volume is anticipated.

7. **COMPOST FACILITY DATA FORM**

Completed Facility Data Form is page 4 of 5 of the application for permit.

8. **CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICIAL**

Certifications by Applicant and Engineer or Public Officer is page 5 of 5 of the application for permit.



**GENERAL HIGHWAY MAP  
SUMTER COUNTY  
FLORIDA**



**Springstead  
Engineering, Inc.**  
Consulting Engineers  
Planners  
Surveyors

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Application to Renew Operating Permits for  
Sumter County Recycling, Composting and Processing Facility**

**SECTION 4 - WASTE TIRE COLLECTION CENTER PERMIT**





# Department of Environmental Protection

DEP Form # 62-701.900(25)
Waste Tire Collection Center
Form Title Permit Application
Effective Date 12/23/96
DEP Application No. _____ (Filled in by DEP)

## Waste Tire Collection Center Permit Application

A Waste Tire Collection Center Permit allows up to 1,000 waste tires to be stored at the facility at any one time. If this quantity is exceeded, a Waste Tire Processing Facility Permit is required.

Permit No. S060-211179 Renewal ☒ Modification ☐ Existing unpermitted facility ☐ Proposed new facility ☐

### Part I-General Information:

#### A. Applicant Information:

1. Applicant Name: Sumter County Department of Public Works
2. Applicant Street Address 319 E. Anderson Ave
3. City Bushnell County Sumter Zip 33513
4. Applicant Mailing Address Same
5. City \_\_\_\_\_ County \_\_\_\_\_ Zip \_\_\_\_\_
6. Contact person Garry Breeden Phone( 352 ) 793-0240
7. Have any enforcement actions taken been by the Department against the applicant relating to the operation of any solid waste management facility in this state? This includes any Complaint, Notice of Violation, or revocation of a permit or registration, as well as any Consent Order in which a violation of Department rules is admitted. It does not include a Warning Letter, Warning Notice, Notice of Noncompliance, or other similar document which does not constitute agency action.  
Yes ☒ No ☐ If yes, attach a history and description of the enforcement actions.

#### B. Facility Information:

1. Facility Name Sumter County Composting Processing and Recycling Facility
2. Facility Street Address (Main Entrance) 835 CR 529
3. City Sumterville County Sumter Zip 33585
4. Facility Mailing Address Same
5. City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_
6. Contact Person Terry Hurst Phone( 352 ) 793-3368

#### Facility Location Coordinates

7. Section 15/22 Township 20 Range 22
8. Latitude 28° 44' 30" Longitude 82° 05' 20"
9. Anticipated date for starting construction N/A and for completion of construction N/A
10. Anticipated date for receipt of tires Currently Receiving

Mail completed application to:  
the appropriate DEP District office listed below.

Northwest District  
150 Governmental Center  
Pensacola, FL 32501-5794  
904-444-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP Form # 62-701.900(25)	
Waste Tire Collection Center	
Form Title	Permit Application
Effective Date	12/23/96
DEP Application No.	(Filled in by DEP)

**C. Land Owner Information (if different from applicant):**

- Owner's name Same
- Land owner's mailing address \_\_\_\_\_
- City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_
- Authorized Agent: \_\_\_\_\_ Agent's phone( ) \_\_\_\_\_
- Current lease expires \_\_\_\_\_

**D. Facility Operator Information (if different from applicant):**

- Operator's name Same
- Operator's mailing address \_\_\_\_\_
- City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_
- Contact person \_\_\_\_\_ Phone( ) \_\_\_\_\_

**E. Preparer of Application:**

- Name of person preparing application: David W. Springstead, P.E. Springstead Engineering, Inc
- Mailing address 727 S 14th Street
- City Leesburg State FL Zip 34748
- Phone (352) 787-1414
- Affiliation with facility: Engineer

**Part II-Operations:**

A. Describe the general operation of the collection center Operator accepts used & scrap tires from public.  
Disposers are directed to take used tires to the recycling area east of the old MRF Building where the  
tires are stored seperately on a paved asphalt surface. Upon accumulation of a full load, the  
waste tires are loaded and hauled to a recycler.

B. Describe how and where the waste tires will be used, sold, or disposed of The waste tires are disposed of at  
an approved waste tire disposal or recycling site.

**Part III-Attachments:**

Please attach the following information to this application:

**A. A plot plan of the collection center showing:**

- Boundaries of the area being permitted, easements, and rights of way.
- All wetlands and water bodies in or within 200 feet of this area.
- The waste tire storage area.
- All structures including buildings, fences, roadways, stormwater control devices, and water wells.

DEP Form # 62-701.900(25)
Waste Tire Collection Center
Form Title Permit Application
Effective Date 12/23/96
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- B. A copy of a fire safety survey of the collection center
- C. A copy of the emergency preparedness manual.
- D. A letter from the landowner (if different from applicant) authorizing the use of the land as a waste tire collection center.
- E. A check for the application fee.

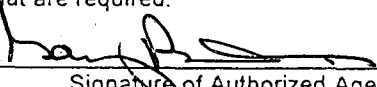
NOTE: The record keeping requirements of 62-711.400(5) apply to collection centers. However, reports to the Department are not required.

Part IV-Certification:

To the best of my knowledge and belief, I certify the information provided in this application is true, accurate, and correct. I have attached all documents and/or authorizations that are required.

Garry Breeden

Print Name of Authorized Agent

  
Signature of Authorized Agent

8/1/97  
Date

9:13 8/4

001

PERMIT #

AmulDATE: 4-30-97

NAME OF BUSINESS Material Recovery Bldg. LK-Hamilton REF. NO. \_\_\_\_\_  
 ADDRESS 911 CR 329 LK Penna CT PHONE NO. \_\_\_\_\_  
 PROPERTY COMPLEX NAME (IF ANY) \_\_\_\_\_  
 TYPE OCCUPANCY CLASS: \_\_\_\_\_ TYPE OF BUSINESS \_\_\_\_\_  
 EMERGENCY TELEPHONE NUMBERS: 1. 793-0200 2. \_\_\_\_\_ 3. \_\_\_\_\_  
 BLDG. OWNER: NAME Smith Co. Conns ADDRESS: 209 N. 1st St. Burrell  
 OCCUPANT'S NAME Sumter Co. Solid Waste ADDRESS: \_\_\_\_\_  
 HYDRANT LOC. \_\_\_\_\_ FIRE PROTECTION \_\_\_\_\_  
 1. \_\_\_\_\_ FIRE FLOW \_\_\_\_\_ G.P.M. \_\_\_\_\_  
 2. \_\_\_\_\_ FIRE FLOW \_\_\_\_\_ G.P.M. \_\_\_\_\_  
 3. \_\_\_\_\_ FIRE FLOW \_\_\_\_\_ G.P.M. \_\_\_\_\_

SPRINKLERED: YES \_\_\_ NO ✓ STANDPIPES: YES \_\_\_ NO ✓

F.D. CONNECTION: SPRKLR/STOPIPES: \_\_\_\_\_  
 STOPIPE HOSE OUTLET SIZE \_\_\_\_\_ IN. LOC. \_\_\_\_\_  
 SHUTOFF/P.I.V. STANDPIPE/SPKLR. \_\_\_\_\_  
 SPARE SPRKLR. HEAD CAB. LOC. \_\_\_\_\_  
 FIRE/ALARM SYSTEM: YES \_\_\_ NO ✓ ALARM SYSTEM RESET PANEL \_\_\_\_\_  
 ZONE/ANNUNCIATOR PANEL (IF SEPARATE) \_\_\_\_\_  
 FIRE EXTINGUISHERS: NO. 17 TYPE: ABC ✓ CO2 \_\_\_\_\_ OTHER \_\_\_\_\_  
 EXPOSURES: NORTH ✓ SOUTH \_\_\_\_\_ EAST \_\_\_\_\_ WEST \_\_\_\_\_ DISTANCE: 41500 FEET \_\_\_\_\_

## ELECTRICAL SYSTEM

ELEC. SERV.: ABOVE GRD. ✓ BELOW GRD. \_\_\_\_\_ LOC. West Extension  
 METER LOC.: S/R REMOVABLE: YES \_\_\_ NO ✓  
 MAIN DISCONNECT: INSIDE ✓ OUTSIDE \_\_\_\_\_ LOC. \_\_\_\_\_  
 SHUNT-TRIL SWITCH: YES \_\_\_ NO ✓ LOC. \_\_\_\_\_  
 ELECT. SERV. ROOM: YES \_\_\_ NO ✓ LOC. \_\_\_\_\_  
 MAIN SERVICE SIZE (AMPERES) 1600 EMER. GEN. LOC. \_\_\_\_\_  
 EMER. GEN. FUEL LOC. \_\_\_\_\_ EMER. LIGHTS: YES \_\_\_ NO ✓  
 HEATING/A.C. SYSTEM: CENTRAL \_\_\_\_\_ WALL UNITS \_\_\_\_\_ NONE ✓ OTHER \_\_\_\_\_  
 WATER HEATER: ELECTRIC YES \_\_\_ NO ✓ LOC. \_\_\_\_\_

## BUILDING CONSTRUCTION

EXT. WALLS: MASONRY \_\_\_\_\_ FRAME \_\_\_\_\_ METAL ✓ OTHER \_\_\_\_\_  
 INT. WALLS: DRYWALL/GYPSUM \_\_\_\_\_ FRAME/WOOD PANELS \_\_\_\_\_ METAL ✓ OTHER \_\_\_\_\_  
 FLOORS: MASONRY ✓ WOOD \_\_\_\_\_ CARPETS \_\_\_\_\_ TILE \_\_\_\_\_ OTHER \_\_\_\_\_  
 CEILINGS: SUSPENDED \_\_\_\_\_ GYPSUM \_\_\_\_\_ PLASTER \_\_\_\_\_ LAY-IN TILE \_\_\_\_\_ OTHER \_\_\_\_\_  
 ROOF: BUILT UP FRAME \_\_\_\_\_ GYPSUM DECK \_\_\_\_\_ STEEL DECK \_\_\_\_\_ ASPHALT SHINGLES \_\_\_\_\_ WOOD SH \_\_\_\_\_  
 METAL ✓ TILE \_\_\_\_\_ FRAME JOISTS \_\_\_\_\_ STEEL BAR JOISTS \_\_\_\_\_ OTHER \_\_\_\_\_  
 ATTIC ACCESS: \_\_\_\_\_  
 ROOF ACCESS: \_\_\_\_\_ LADDERS NEEDED: YES \_\_\_ NO ✓  
 FIREWALLS BETWEEN BUS.: YES \_\_\_ NO \_\_\_\_\_  
 SKYLIGHT LOC. \_\_\_\_\_ VENT. USE: YES \_\_\_ NO ✓  
 ELEVATOR SHAFT LOC.: \_\_\_\_\_  
 ELEVATOR EQUIP. ROOM LOC. \_\_\_\_\_  
 STAIRWELL LOC. \_\_\_\_\_  
 CONCEALED AIR SPACES LOC. \_\_\_\_\_  
 EXITS: NO. 2 LOC. \_\_\_\_\_  
 HAZARDS: \_\_\_\_\_

## L.P. GAS

TANK LOC. None ABOVE GRD \_\_\_\_\_ BELOW GRD. \_\_\_\_\_  
 COMPANY PROVIDING GAS \_\_\_\_\_ NO. TANKS \_\_\_\_\_ CAPACITY \_\_\_\_\_ GALLONS \_\_\_\_\_  
 TYPE EQUIP. USING GAS: \_\_\_\_\_  
 WRITTEN PRE-PLAN DESCRIPTION ATTACHED: YES \_\_\_ NO \_\_\_\_\_

2560

COPY

NAME OF OCCUPANCY M. J. Keating  
NAME OF OWNER, LESSEE OR MANAGER  
NAME OF BUILDING OWNER  
INSURANCE CO.: NAME

ADDRESS  
ADDRESS  
PHONE  
PHONE

THIS REPORT NOTES THE CONDITIONS OR OPERATIONS THAT FAVOR OR CAUSE FIRE, OR THAT MAY AID IN THE SPREAD OF FIRE OR OTHERWISE MAKE THE BUILDING UNSAFE. ALSO NOTED ARE RECOMMENDATIONS FOR THEIR CORRECTION:

All Fire Extinguishers OK. Serial 2-97

DATE OF INSPECTION: 4-30-97

INSPECTOR: Jan Brown

TIME OF INSPECTION: 1:10 pm

TO: 1:20 pm

I HAVE READ THE ABOVE DEFICIENCIES, VIOLATIONS AND RECOMMENDATIONS AND UNDERSTAND ALL OF THE ABOVE.

SIGNED BY:

(Owner, Manager, Occupant)

PLEASE GIVE THE ABOVE YOUR ATTENTION IN ORDER THAT YOUR PROPERTY MAY BE CONSIDERED FIRE SAFE, AND THAT YOUR BUSINESS NEIGHBOR MAY BE PROTECTED.

DATE COPY ISSUED

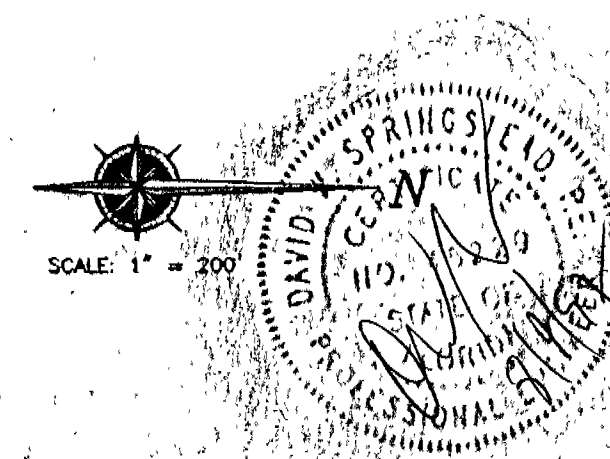
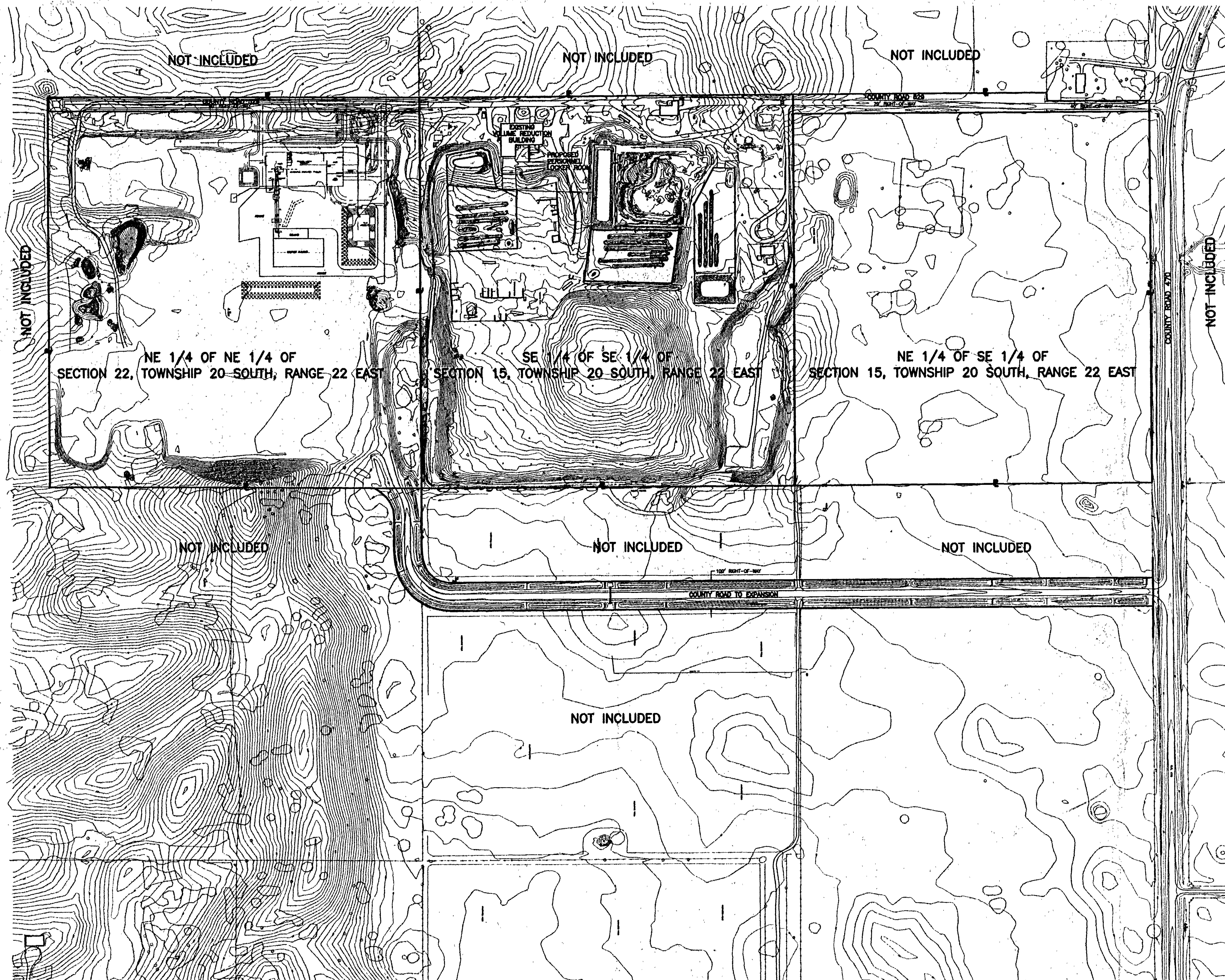
CONSULT YOUR TELEPHONE DIRECTORY FOR VENDORS OF FIRE EXT. EQUIPMENT.

PERMIT #:

DATE:



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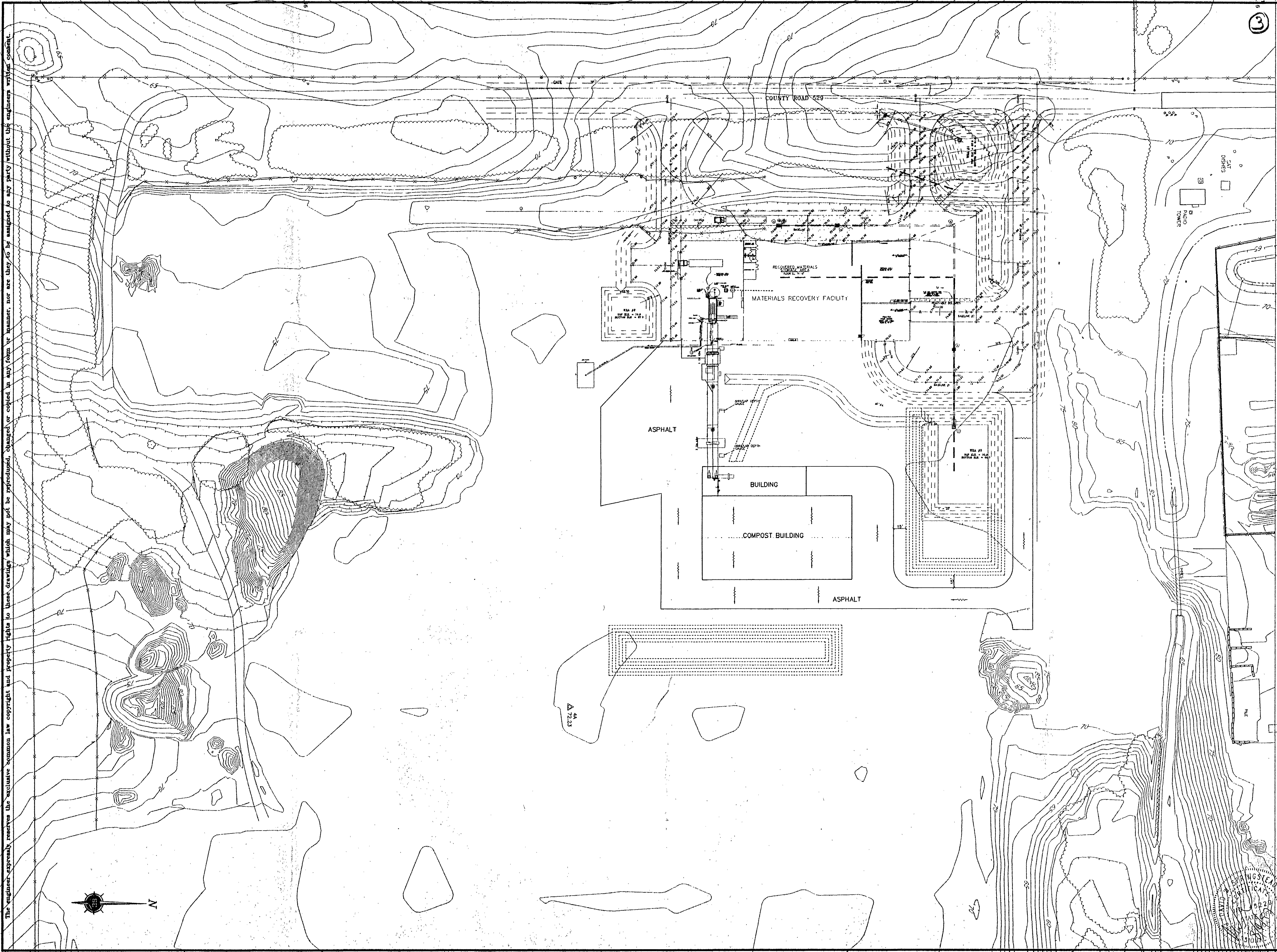
CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS		1 of 1	
PROJECT: SUMTER COUNTY RECYCLING, PROCESSING AND COMPOSTING FACILITY		DRAWING: OVERALL SITE PLAN	
Springstead Engineering, Inc.		CONSULTING ENGINEERS ARCHITECTS PLANNERS SURVEYORS 727 South 14th Street Leesburg, FL 34748 (352) 787-1414	
SCALE: 1" = 200'	FILE: O-ALL	DATE: 08/04/97	
DESIGN: DRAWN: CHECKED:			
DRAWING: OVERALL SITE PLAN			
CLIENT: SCBCC			
JOB NO.: 921100.000	SHEET: 1 OF 1		







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CLIENT:

SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

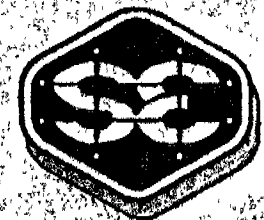
PROJECT: SUMTER COUNTY RECYCLING, PROCESSING  
AND COMPOSTING FACILITY

DRAWING:

COMPOSTING SITE PLAN

3 of 5

Springstead  
Engineering, Inc.



Consulting Engineers  
Architects  
Planners  
Surveyors

727 South 14th Street  
Leesburg, FL 34748  
(352) 787-1414

SCALE: 1"=50'	FILE: SOUTH40	DATE: 7/97
DESIGN: <i>[Signature]</i>	DRAWN: <i>[Signature]</i>	CHECKED: <i>[Signature]</i>

DRAWING: COMPOST FINISHING BUILDING  
SITE PLAN

CLIENT: SCBCC

JOB NO.: 92-1100.000	SHEET: 3 OF 5
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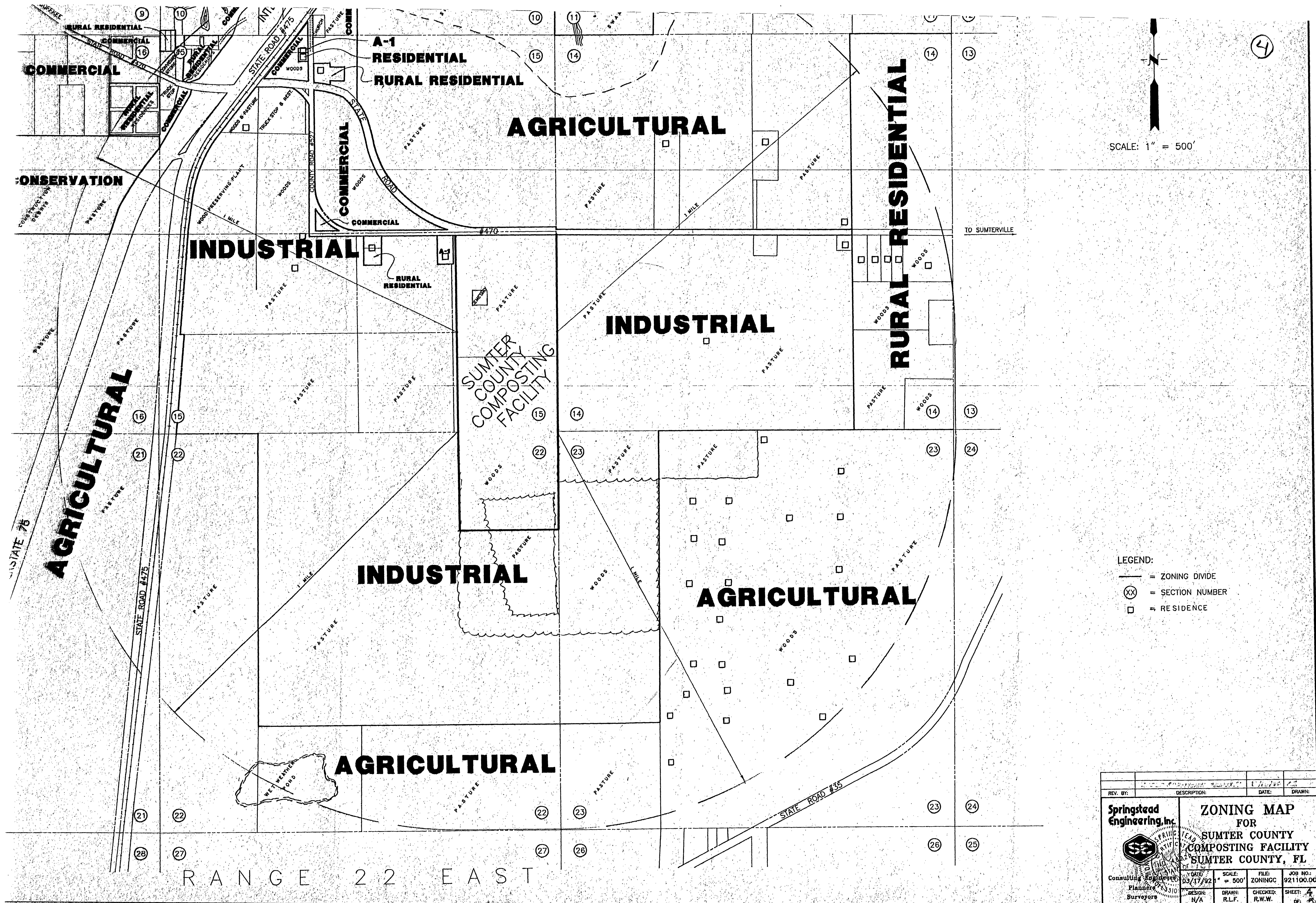
DRAWN:

DATE:

DESCRIPTION:

REV. BY:

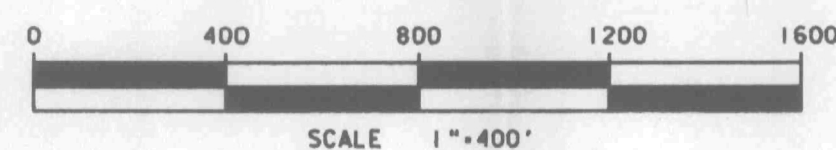








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PREPARED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION  
FOR THE FLORIDA DEPARTMENT OF REVENUE  
FOR ASSESSMENT PURPOSES ONLY



SUMTER COUNTY  
FLORIDA

SCALE	1" = 400'	SECTION	TWP.	RANGE	SHEET NO.	MAP
PHOTO DATE	2-1-97	16 15	20 S	22 E	67	
PHOTO JOB NO.	PD-4493	21 22				



AUG 04 1997