

SW 1117 / 10118



Department of Environmental Protection

DEP Form # 62-701.900(23)
Waste Tire Processing Facility
Form Title <u>Permit Application</u>
Effective Date <u>3/22/00</u>
DEP Application No. _____
(Filed in by DEP)

Waste Tire Processing Facility Permit Application

Handwritten signature

Permit No. 0146251-WT-001

Renewal Modification Existing unpermitted facility Proposed new facility

FDEP Copy
Tallahassee

Part I-General Information:

A. Applicant Information:

1. Applicant Name: Rinker Materials Corporation
2. Applicant Street Address: 1200 NW 137th Avenue
3. City: Miami County: Dade Zip: 33182
4. Applicant Mailing Address: 1200 NW 137th Avenue
5. City: Miami County: Dade Zip: 33182
6. Contact person: Michael Vardeman phone: (305) 229-2955 FEID No: _____
7. Have any enforcement actions been taken 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: Rinker Materials Corporation
2. Facility Street Address (Main Entrance): 1200 NW 137th Avenue
3. City: Miami County: Dade Zip: 33182
4. Facility Mailing Address: 1200 NW 137th Avenue
5. City: Miami State: Florida Zip: 33182
6. Contact Person: Michael Vardeman Phone: (305) 229-2955
7. Facility Location Coordinates:
Section: 34 Township: 53 South Range: 39 East
Latitude: 25/46/48 Longitude: 80/25/10
8. Anticipated date for starting construction NA and for completion of construction NA
9. Anticipated date for receipt of tires NA and for start of processing NA

Mail completed form to appropriate district office listed below

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. 200 B
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 33902-2549
941-332-6975

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

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

1. Owner's name: Same as applicant
2. Land owner's mailing address: _____
3. City: _____ State: _____ Zip: _____
4. Authorized Agent: _____ Agent's phone () _____
5. Current lease expires: _____

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

1. Operator's name: Same as applicant
2. Operator's mailing address: _____
3. City: _____ State: _____ Zip: _____
4. Contact person: _____ Phone: () _____

E. Preparer of Application:

1. Name of person preparing application: Steven C. Cullen, PE
2. Mailing address: 4014 NW 13th Street
3. City: Gainesville State: Florida Zip: 32609
4. Phone: (352) 377-5822
5. Affiliation with facility: Consultant

Part II-Operations:

A. Facility type (check appropriate box):

- Waste tire processing facility.
- Waste tire processing facility with on-site disposal of processed tires or processing residuals.
See Attachment _____
- Waste tire processing facility with on-site consumption of waste tires or processing residuals.
See Attachment F
- Permitted solid waste management facility modification to allow waste tire site and processing.

B. Type of processing facility (check as many as apply):

- Shredder Cutter Chopper Incinerator only Incinerator with energy recovery
- Pyrolysis Supplemental fuel user Other, explain _____

C. Storage: Indicate the maximum quantities of whole waste tires, processed waste tires, and processing residuals, expressed in tons, to be stored at the facility, in accordance with Rule 62-711.530(2), F.A.C.

	Outdoor Storage(tons)	Outdoor Storage (sq.ft)	Indoor Storage (tons)	Indoor Storage (sq.ft)	Total Storage (tons)
Whole waste tires:	<u>300</u>	<u>20,250</u>	_____	_____	<u>300</u>
Processed tires:	_____	_____	_____	_____	_____
Processing residuals:	_____	_____	_____	_____	_____
TOTALS:	<u>300</u>	<u>20,250</u>	_____	_____	<u>300</u>

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D. For reporting quantity of tires in tons, tires will be: weighed on site weighed off site weights will be calculated

E. Facilities that will not be disposing of processed tires or processing residual on the facility site must indicate the permitted solid waste management facility where processed tires or residuals will be disposed.

1. Name of facility NA

2. Street address: _____

3. City: _____ County: _____ Zip: _____

F. Facilities that will be delivering processed tires to consuming facilities must describe the existing or proposed markets for those processed tires.

NA

Part III-Attachments:

A. Facility design

NOTE: All maps, plan sheets, drawings, isometrics, cross sections, or aerial photographs shall be legible; be signed and sealed by a 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.

1. A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility
2. A plot plan of the facility on a scale of not less than one inch equals 200 feet. At a minimum, the plot plan shall include
 - a. The facility design, including the location and size of all storage and processing areas for used tires, unprocessed waste tires, processed waste tires, and waste tire processing residuals;
 - b. All wetlands and water bodies within the facility or within 200 feet of any storage area;
 - c. Stormwater control measures, including ditches, dikes, and other structures;
 - d. Boundaries of the facility, legal boundaries of the land containing the facility, and any easements or rights of way that are within the facility or within 200 feet of any storage area;
 - e. Location, size, and depth of all wells within the facility or within 200 feet of any storage area;
 - f. All structures and buildings that are, or will be, constructed at the facility; include those used in storage and processing operations;
 - g. All areas used for loading and unloading;
 - h. All access roads and internal roads, including fire lanes;
 - i. Location of all fences, gates, and other access control measures; and
 - j. Location of all disposal areas within the facility.

B. Facility operation.

1. A description of the facility's operation, process and products including how waste tires will be received and stored.
2. A description of the equipment used for processing tires. This description shall include the make, model, and hourly capacity of each piece of equipment.
3. Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.
4. Statement of the maximum daily throughput and the planned daily and annual throughput.
5. A description of how the operator will maintain compliance with each of the storage requirements of Rule 62-711.540, F.A.C.
6. A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.
7. A copy of the fire safety survey
8. A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.

C. Completed closing plan for the facility as required by Rule 62-711.700(2) and (3), F.A.C.


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- D. Attach proof of financial responsibility as requirement by Rule 62-711.500(3) OR a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site as well as any other solid waste management facility at that location.
- E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility.
- F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including, permit number, date of issue, and name of issuing agency
- G. The permit fee as required in Rule 62-4, F.A.C.

Part IV-Certification:

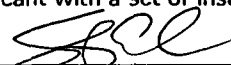
A. Applicant:

The undersigned applicant or authorized representative of Rinker Materials Corporation
 Is aware that statements made in this form and attached information are an application for a
Waste Tire Processing Fac. 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 Department will be notified prior to the sale or
 legal transfer of the facility.

 _____ Signature of Applicant or Authorized Agent	Michael Vardeman, Enviro. Mgr. _____ Name and Title	<u>11/1/2003</u> _____ Date
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B. Professional Engineer registered in Florida.

This is to certify that the engineering features of this waste tire processing facility have been
~~Designed~~ examined by me and found to conform to engineering principals applicable to such facilities. In my
 professional judgment, this facility, when properly maintained and operated will comply with all applicable
 statues 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 for proper maintenance and operation of the facility.

 _____ Signature	4014 NW 13th Street _____ Mailing Address
Steven C. Cullen, PE, Project Engineer _____ Name and Title	Gainesville, Florida, 32609 _____ City, State, Zip
45188 _____ Florida Registration Number	(352) 377-5822 _____ Telephone number

(please affix seal)

10/27/2003

Date

**ENGINEERING REPORT
&
ATTACHMENTS**

Waste Tire Processing Facility Permit Application

Part III – Attachments:

A. Facility Design

1. A topographic or section map of the facility, including the surrounding area for one mile, showing land use and zoning within one mile of the facility.
See Attachment A.1
2. A plot plan of the facility on a scale of not less than one inch equals 200 feet.
See Attachment A.2

B. Facility Operation

1. A description of the facility's operation, process and products including how waste tires will be received and stored.

The facility produces Portland cement in a high-temperature rotary kiln. Waste tires are used as supplemental fuel. Waste tires are generally received and stored in closed vans until use.

2. A description of the equipment used for processing tires.

The tires are not processed – the cement kiln uses whole tires as supplemental fuel.

3. Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.

No wastes are generated from this process – the organic components of the waste tires are combusted, adding heat value (Btu's) to the process. The inorganic components are incorporated into the kiln product (clinker).

4. Statement of the maximum daily throughput and the planned daily and annual throughput (tires).

Maximum daily throughput (new kiln):	140 tons/day
Planned daily throughput:	87 tons/day
Planned annual throughput:	30,000 tons

5. A description of how the operator will maintain compliance with each of the storage requirements of Rule 62-711.540, FAC.
The tires will be received and stored in closed vans until used.

6. A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.
Waiver requested – manual on file with Department.
7. A copy of the fire safety survey.
Waiver requested.
8. A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.
On hand inventory will be consistent with usage.

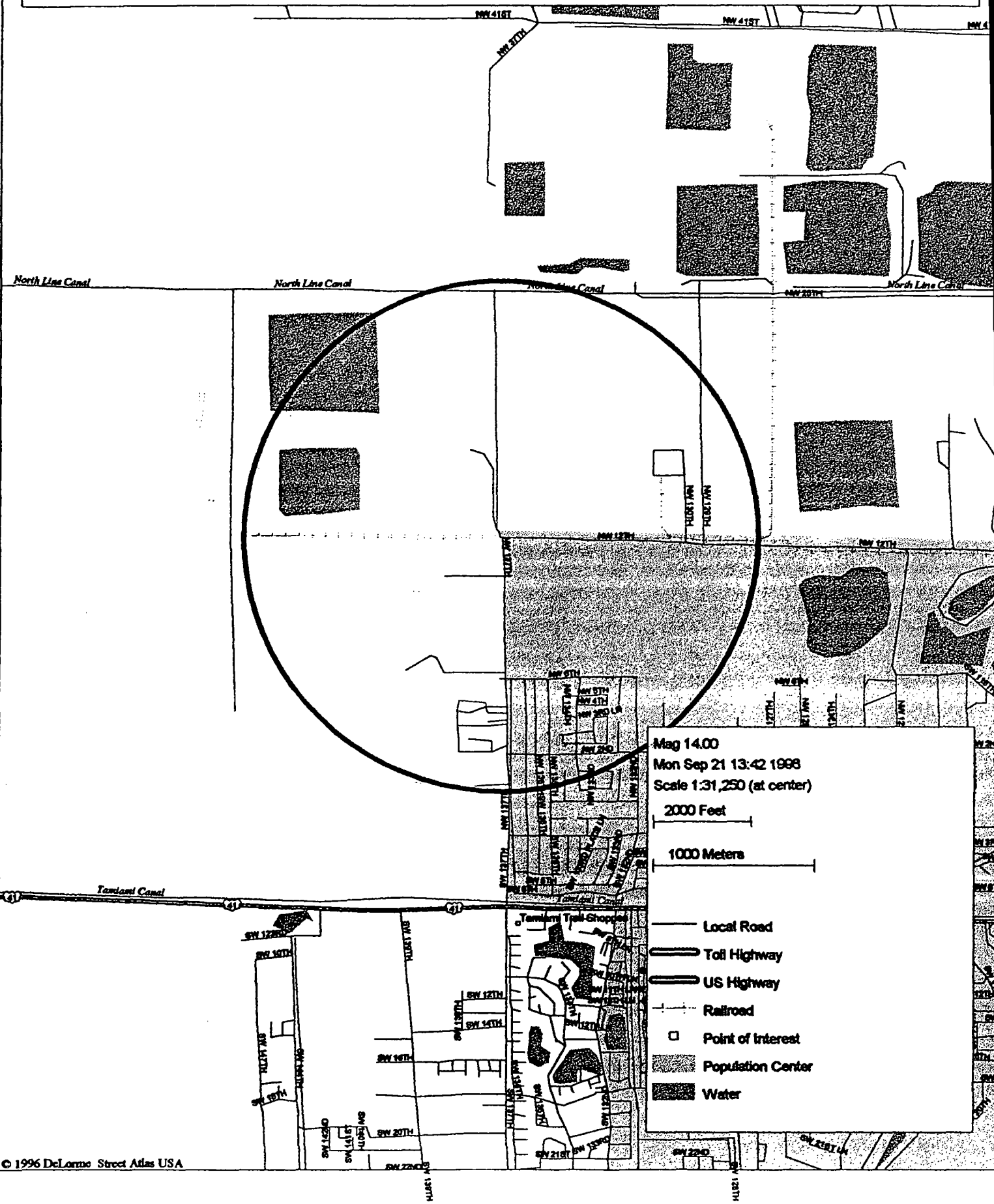
- C. Completed closing plan for the facility.
Waiver requested – on file with Department.
- D. Attach proof of financial responsibility or a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site.
See Attachment D.
- E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility.
Not Applicable – Applicant is land owner.
- F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including permit number, date of issue, and name of issuing agency.

Air Permit (new kiln): Permit No. 0250014-003-AV
Issued by FDEP – October 31, 2000

- G. The permit fee as required by Rule 62-4, FAC.
The applicable processing fee is \$1980 – See Attachment G.

**ATTACHMENT A.1
TOPOGRAPHIC MAP**

Land Use Map



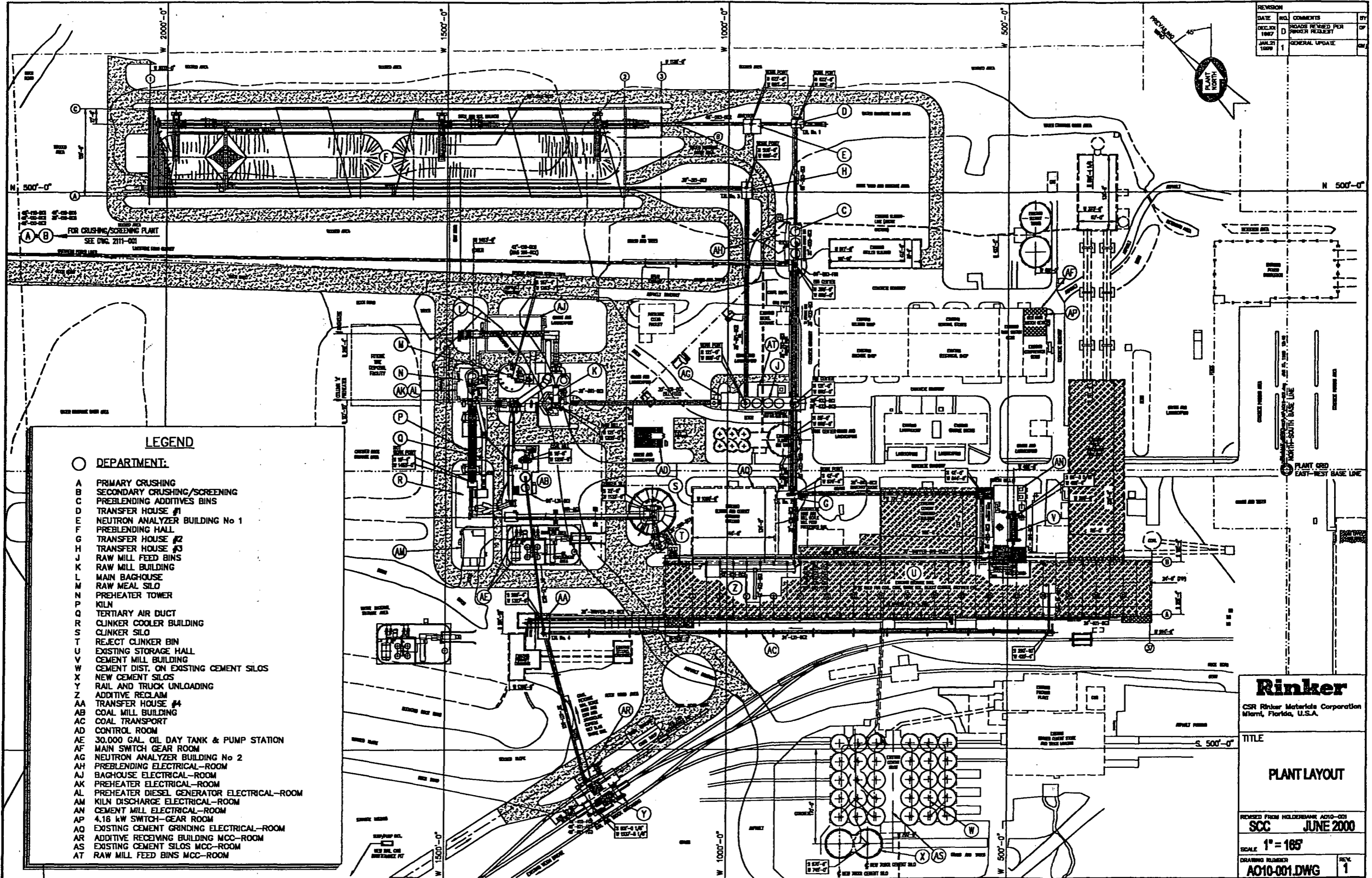
Mag 14.00
Mon Sep 21 13:42 1998
Scale 1:31,250 (at center)

2000 Feet
1000 Meters

- Local Road
- Toll Highway
- US Highway
- Railroad
- Point of Interest
- Population Center
- Water

ATTACHMENT A.2
PLOT PLAN

REVISION	DATE	BY	COMMENTS
001	DEC 19 1987	D	GRADE REVIEW FOR PROKER REQUEST
002	JUL 21 1999	1	GENERAL UPDATE



LEGEND

- DEPARTMENT:
- A PRIMARY CRUSHING
- B SECONDARY CRUSHING/SCREENING
- C PREBLENDING ADDITIVES BINS
- D TRANSFER HOUSE #1
- E NEUTRON ANALYZER BUILDING No 1
- F PREBLENDING HALL
- G TRANSFER HOUSE #2
- H TRANSFER HOUSE #3
- J RAW MILL FEED BINS
- K RAW MILL BUILDING
- L MAIN BAGHOUSE
- M RAW MEAL SILO
- N PREHEATER TOWER
- P KILN
- Q TERTIARY AIR DUCT
- R CLINKER COOLER BUILDING
- S CLINKER SILO
- T REJECT CLINKER BIN
- U EXISTING STORAGE HALL
- V CEMENT MILL BUILDING
- W CEMENT DIST. ON EXISTING CEMENT SILOS
- X NEW CEMENT SILOS
- Y RAIL AND TRUCK UNLOADING
- Z ADDITIVE RECLAIM
- AA TRANSFER HOUSE #4
- AB COAL MILL BUILDING
- AC COAL TRANSPORT
- AD CONTROL ROOM
- AE 30,000 GAL. OIL DAY TANK & PUMP STATION
- AF MAIN SWITCH GEAR ROOM
- AG NEUTRON ANALYZER BUILDING No 2
- AH PREBLENDING ELECTRICAL-ROOM
- AJ BAGHOUSE ELECTRICAL-ROOM
- AK PREHEATER ELECTRICAL-ROOM
- AL PREHEATER DIESEL GENERATOR ELECTRICAL-ROOM
- AM KILN DISCHARGE ELECTRICAL-ROOM
- AN CEMENT MILL ELECTRICAL-ROOM
- AP 4.16 kW SWITCH-GEAR ROOM
- AQ EXISTING CEMENT GRINDING ELECTRICAL-ROOM
- AR ADDITIVE RECEIVING BUILDING MCC-ROOM
- AS EXISTING CEMENT SILOS MCC-ROOM
- AT RAW MILL FEED BINS MCC-ROOM

Rinker
 CSR Rinker Materials Corporation
 Miami, Florida, U.S.A.

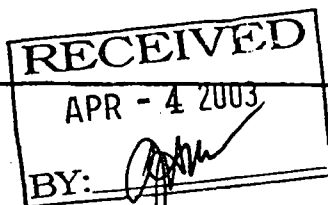
TITLE
PLANT LAYOUT

REVISED FROM HOLDING NO. AO10-001
SCC JUNE 2000

SCALE **1" = 165'**

DRAWING NUMBER **AO10-001.DWG** REV **1**

**FACILITY OPERATIONS
ATTACHMENT D**



ENVIRONMENTAL RESOURCES MANAGEMENT
POLLUTION CONTROL DIVISION
March 24, 2003
33 S.W. 2nd AVENUE
SUITE 800
MIAMI, FLORIDA 33130-1540
(305) 372-6817

Tor Bejnar
Solid Waste Financial Coordinator
Florida Department of Environmental Protection
2600 Blair Stone Road, M.S. 4565
Tallahassee, Florida 32399-2400

RE: Financial Assurance Cost Estimate for the Waste Tire Processing facility at Rinker Materials Corp. (Permit File No.10118; DEP File No. 055980-002-SO), located at 1200 NW 137 Avenue, Miami, Miami-Dade County.

Dear Mr. Bejnar:

The Department of Environmental Resources Management (DERM) is in receipt of the referenced revised Financial Assurance Cost Estimate, dated February 28, 2003. Said Financial Assurance Cost Estimate, for \$30,000, covers the closure of the referenced facility.

DERM hereby gives notice of its approval of said Financial Assurance Cost Estimate. A copy of the estimate is enclosed. Please, proceed with your further reviews and approval of the financial package for the referenced site.

If you have any additional questions, please contact James A. Carter, P.E., at (305) 372-6711.

Sincerely,

Wilbur Mayorga, P.E., Chief
Pollution Remediation Section
POLLUTION CONTROL DIVISION

cc: Joe Lurix, FDEP (WPB)
Michael D. Vardeman, RMC
Steven C. Cullen, P.E. (Koogler & Associates)
DERM File #10118 (SW#1117)

**FACILITY OPERATIONS
ATTACHMENT G**

Type of Facility	State Fee	DERM Fee	Combined Fee Due - First year of 5 year FDEP Permit	Annual Fee Due Years 2-5 of FDEP Permit
Soil Treatment Facility Renewal				
0-99 TPD	\$ 1,000	\$ 950	\$1,950	\$ 950
100-499 TPD	\$ 1,000	\$ 2,650	\$3,650	\$2,650
500 TPD and greater	\$ 1,000	\$18.45 x TPD Capacity	\$1,000 + \$18.45 x TPD Capacity	\$18.45 x TPD Capacity
SF Solid Waste Closure Permits				
Class I (01) & Class II (02) Landfills	\$7,500	\$ 300	\$7,800	\$ 300
Class III Landfills (T3)	\$4,000	\$ 300	\$4,300	\$ 300
Soil Treatment Facilities	\$2,000	\$ 300	\$2,300	\$ 300
Class I (09), Class II (10), Class III or Soil Treatment Facility Closure Renewals and Other (08)	\$1,000	\$ 300	\$1,300	\$ 300
C/D Disposal (12), C/D Recycling (13) or Soil Treatment Facility Long-term Care				
C/D Disposal (22) or Recycling (23) Facility	\$ 250	\$ 300	\$ 550	\$ 300
Yard Trash Disposal (Y3)	\$ 100	\$ 300	\$ 400	\$ 300
WT Waste Tires				
Waste Tire Process Facility				
Small Process Facility (06) Less than 1500 Tires	\$ 500	\$ 800	\$1,300	\$ 800
* Greater than or equal to 1500 Tires (02)	\$1,250	\$ 730	\$1,980	\$ 730
Waste Tire Collection Center (05)				
Less than 1500 Tires	\$ 500	\$ 300	\$ 800	\$ 300

Miami - Dade County