

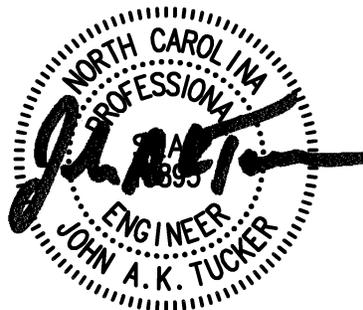
Operational Manual

**Currin Bros. Inc.
LCID and Wood Recycling Facility
Wake County, North Carolina
NC DENR Permit # 92D-LCID**

**Hours of Operation
7:00 AM - 7:00 PM
Monday - Saturday**

Owner

Currin Bros. Inc.
PO Box 547
Fuquay Varina, NC 27526



June 2003
Revised Dec. 5, 2003
Revised June 1, 2010
Revised Dec. 28, 2011

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**Currin Bros. Inc. Landfill No. 1
OPERATIONS MANUAL**

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4	Emergency Responders and Other Useful Contacts
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6	NC DENR Solid Waste Rules for LCID Facilities

**SECTION 1.0
GENERAL FACILITY OPERATIONS**

1.1 OVERVIEW

This Operations Manual was prepared for the Currin Bros. LCID Landfill and Wood Recycling Facility (Permit No. 92N-LCID). The information contained herein was prepared to provide landfill personnel with a clear understanding of how the Design Engineer assumed that the completed facility would be operated. While deviations from the operation plan outlined here may be acceptable, significant changes should be reviewed and approved by the Design Engineer and the NC Solid Waste Section.

1.2 CONTACT INFORMATION

For fire, medical, or police emergencies dial 911.

All correspondence and questions concerning the operation of the Currin Bros. Inc. Landfill should be directed to the appropriate Staff and Wake County personnel listed below.

1.2.1 Currin Bros. Landfill, Administrative Offices (correspondence, invoices)

Currin Bros. Inc.
Glenn Currin, Allen Currin - Operators
1610 Wolfpack Lane
Raleigh, NC 27603
Telephone (919) 876-1877

)

For After Hours Emergencies:
Phone: (919) 624-9669 (Glen Currin)

1.2.2 North Carolina Division of Waste Management

Division of Waste Management , Solid Waste Section
585 Waughtown Street
Winston-Salem, NC 27107
Main Telephone (919) 771-5000

Compliance Branch, Solid Waste Specialist: Chris Marriott
336-771-5090

Fairview Fire Department	Emergency	911
	Non-emergency	919-771-5092

Wake County Emergency Management 919-856-6480

NCDENR - Raleigh Regional Office 919-571-4700

1.3 ACCESS CONTROL

Limiting access to the Currin Bros. Inc. Landfill is important for the following reasons:

- Prevention of unauthorized and illegal dumping of waste materials,
- Trespassing, and possible injury resulting therefrom, is discouraged,
- The risk of equipment theft or vandalism is greatly reduced.

Access to active areas of the landfill will be controlled by a combination of fences and natural barriers, such as the creeks, and strictly enforced operating hours. A landfill attendant will be on duty at all times when the facility is open for public use to enforce access restrictions.

1.3.1 Physical Restraints – The site will be accessed only via the main entrance along Sunset Lake Road. A gate house is located for waste receiving and customer/visitor check in. The entrance gates will be securely locked during non-operating hours. Otherwise, the site is inaccessible.

1.3.2 Security – Frequent inspections of gates and fences will be performed by landfill personnel. Evidence of trespassing, vandalism, or illegal operation will be reported to the Owner.

1.4 SIGNAGE

A prominent sign containing the information required by DWM will be placed just inside the main gate. This sign will provide information on operating hours, operating procedures, and acceptable wastes. Additional signage will be provided within the landfill complex to distinctly distinguish the roadway to the LCID landfill active disposal area. Service and maintenance roads will be clearly marked and barriers (e.g., traffic cones, barrels, etc.) will be provided as required.

1.5 COMMUNICATIONS

Visual communications will be maintained between the LCID landfill and the landfill gate house. Radios or walk-talkies shall be used for communications between the gate attendant and the working face supervisor. The gate house has telephones in case of emergency and for the conduct of day-to-day business. Emergency telephone numbers are displayed in the scale house.

1.6 SAFETY

All aspects of the Currin Bros. Inc. Landfill operation were developed with the health and safety of the landfill's operating staff, customers, and neighbors in mind. A superintendent of the landfill operating staff will be designated as Site Safety Officer (SSO) and shall undergo a landfill operator's training course. The SSO, together with the facility's management, will administer a site safety and emergency response program to be consistent with Occupational Safety and Health Administration (OSHA) guidance. Safety equipment to be provided includes equipment rollover protective cabs, seat belts, audible reverse warning devices, hard hats, safety shoes, communications equipment, portable fire extinguishers and first aid kits. Staff will be encouraged

to complete the American Red Cross Basic First Aid Course.

1.7 EQUIPMENT REQUIREMENTS

The facility will maintain on-site equipment required to perform the necessary landfill activities. Periodic maintenance of all landfilling equipment, and minor and major repair work will be performed at designated maintenance zones outside of the landfill.

1.8 UTILITIES

Electrical power, water, telephone, and restrooms will be provided at the gate house located at the entrance to the landfill.

1.9 FIRE PREVENTION

Fires in LCID landfills and wood waste stockpiles have become a concern to the Solid Waste Section – not only as health and safety issues for customers, staff and the neighbors, but long-term air and quality issues arise and the effort required to fight a major facility fire is costly and disruptive to operations. The Operator shall be vigilant about preventing fires and keeping access available to fight fires. Material stockpiles shall be separated by a minimum clear distance of 25 feet on all sides to allow equipment access. Stockpiles shall be turned once per quarter to prevent composting and the associated heat build up. Within the landfill, periodic soil cover requirements shall be observed. An ample supply of soil shall be kept on-hand, observing proper measures for erosion control, and access to undeveloped portions of the footprint (additional soil resources) shall be kept free of unnecessary debris. Portable fire extinguishers shall be kept in operating order. The Wake County Fire Marshall’s requirements for fuel storage shall be observed. Equipment shall be kept in good working order and facility roads shall be kept passable. A daily “ride-through” shall be conducted to look for smoke – steam does not necessarily mean a fire is present, but continual steaming should be monitored and vents should be checked periodically for signs of charring or detectable heat.

1.10 RECORD KEEPING PROGRAM

The Landfill staff shall maintain the following records related to the LCID landfill in a permanent operating record at the landfill:

- A Waste inspection records;
- B Daily intake records - including waste type and source;
- C List of generators and haulers that have attempted to dispose of restricted wastes;
- D Employee training procedures and records of training completed;
- E All closure and post-closure information, where applicable, including:
 - 1. Testing;
 - 2. Certification; and
 - 3. Completion records.
- F Cost estimates for financial assurance documentation.

The operating record shall be kept up to date by the Owner or his designee. These records shall be presented upon request to DWM for inspection. A copy of this Operations Manual shall be kept at the gate house and be available all times. *All staff should be familiar with this manual.*

SECTION 2.0 WASTE HANDLING OPERATIONS

2.1 OVERVIEW

This section describes the waste handling operations for the landfill and the wood recycling facility.

2.2 SERVICE AREA

The facility service area includes Durham, Wake, Harnett, Orange, Granville and Chatham Counties.

2.4 ACCEPTABLE WASTES

The LCID disposal facility shall only accept the following wastes:

- Land Clearing and Inert Debris Waste (yard waste, stumps, trees, limbs, brush, grass, concrete, brick, concrete block, uncontaminated soils and rock, untreated and unpainted wood, etc.)
- Other Wastes as Approved by the NC DENR Solid Waste Section.

The Wood Recycling (T&P) facility shall only accept the following wastes:

- Naturally occurring tree debris (stumps, trees, limbs, brush) – no grass or yard waste
- Clean wood waste derived from construction only and pallets – no demolition materials, no painted or treated wood, no engineered or laminated wood products

The waste streams for the two facilities must not be co-mingled! Please note that inert debris (brick, block, recycled asphalt, etc.) may be used as “beneficial fill” at the facility for making all-weather road surfaces and as aggregate for storm water runoff measures, subject to particle-size suitability - consult the Project Engineer. While the facility does not currently own a crusher, it is expected that a rental machine will be brought in approximately every 24 months to reduce the stockpile of material.

Certain “special” wastes (yet to be defined) may also be accepted at this facility with prior approval of the Solid Waste Section – an Operations Plan revision may be warranted. Municipal Solid Waste (MSW) shall be directed to an appropriate facility, e.g., the Wake County Landfill and never

buried at this site.

2.5 PROHIBITED WASTES

No municipal solid (MSW), hazardous (as defined by 15A NCAC ISA including hazardous waste from conditionally exempt small quantity generators), or liquid waste will be accepted at this facility. In addition, no polychlorinated biphenyl (PCB) waste will be accepted. The Owner will implement a waste screening program, described in **Appendix 2**, to control these types of waste. Asbestos wastes will not be accepted by the facility. Animal carcasses will not be accepted.

2.5 WASTE SCREENING PROGRAMS

In order to assure that prohibited wastes are not entering the facility, screening programs have been implemented. The incoming wastes receive two inspections – at the entrance gate and at the working face of the disposal area or the raw material stockpile at the T&P area. The following sections are abbreviated from the original Operations Plan and have been supplemented by **Appendices 2 and 3**.

2.5.1 Waste Receiving and Inspection – All vehicles must stop at the entrance gate. The attendant shall question each driver about the nature and source of the incoming materials and record the load. Other visitors are required to check in. The attendant(s) may visually check the load if the vehicle or driver is unfamiliar. Vehicles shall be selected for random screening at a minimum of three times per quarter (i.e. three months). Procedures and forms to be used during the waste screening activities are found in **Appendix 2**. Signs informing users of the acceptable and unacceptable types of waste are posted at the entrance. Vehicles containing non-recyclable LCID wastes are directed to the landfill. Vehicles carrying clean recyclable wood waste are directed to the raw material stockpile in the T&P area. Directional signs are used to guide traffic to the correct unloading area.

Each incoming load shall be unloaded at its designated area (either the disposal area or the raw material stockpile, depending on the material type). The gate attendant shall alert the yard operators via radio with information on the incoming load, e.g., material type, truck description. The yard operator shall be present when each vehicle is unloaded to make sure the material is acceptable, or he shall inspect the load soon after unloading (prior to the vehicle leaving the premises). Each load shall be sifted to make sure nothing unacceptable is buried within the load. If the load is deemed suitable for the designated unloading area, the vehicle shall be cleared to exit with the gate attendant.

If unacceptable materials are found, the driver and/or owner of the vehicle shall be notified and measures shall be taken to correct the problem – the driver may be detained in order to compel him to remove the unacceptable materials. Ideally, unacceptable materials will be detected prior to unloading, or they will be reloaded onto the delivery vehicle and sent away (with directions to an appropriate facility). Any attempts to unload unacceptable materials at the facility, either in the disposal area or the wood recycling area, shall be documented by the operator. Repeat offenders may be banned from using the facility at the discretion of the Owner.

2.5.2 Hazardous Waste Contingency Plan – If hazardous materials are detected, the Hazardous

Waste Contingency Plan outlined in **Appendix 3** shall be followed. Hazardous materials might be identified by unusual appearances, colors, odors, fumes, or the materials may be hot or burning. In the event that identifiable hazardous waste or waste of questionable character is detected at either the landfill or the wood recycling facility, protection of personnel shall take precedence. If the materials have not been unloaded, the delivery vehicle shall be isolated and appropriate personnel called in. If the vehicle has been unloaded, the area shall be cleared until appropriate haz-mat personnel arrive.

If a “hot load” enters the facility, the vehicle will be directed to an isolated and unleaded immediately, then the vehicle and driver shall be moved to safety and the fire department shall be called. In any event where a hazardous material is detected, the Solid Waste Section shall be notified immediately (see **Section 1.2.2**), and hazardous material responders may need to be contacted. The event shall be documented by landfill staff in the Operational Record. The driver or owner of the vehicle may be held responsible for the cost of the haz-mat response and/or any required clean up.

2.6 WASTE GRINDING AND CRUSHING

Grinding may occur either on landfill working face or the wood recycling area. Within the landfill, wastes may be ground with a tub grinder to reduce airspace consumption and to lessen the likelihood of a fire. The grinder shall be operated on a 2-foot thick soil pad with perimeter soil berms that will soak up spills or leaking fluids, which shall be removed from the landfill if a spill or leak occurs. The allowed grinder location shall be construed as anywhere in the landfill, with the provision that the prescribed measures for spill control are observed. Extra care shall be taken when fueling the grinder to avoid spills. The Operator shall exercise proper judgement in enforcing the waste acceptance policy. **CAUTION:** grinding the waste does not remove or disguise improper materials that may be encountered in the waste stream. Solid Waste Section inspectors will be vigilant about examining the ground waste for evidence of unauthorized wastes. The Operator shall be equally vigilant about avoiding the placement of unauthorized waste in the landfill. A portable container for unauthorized wastes shall be kept near the grinder. ***The allowable waste streams between the LCID disposal area and the T&P area are different, thus the operation of these areas shall be kept entirely separate.***

Concrete crushing will occur on the landfill in Phase 2, as shown on the drawings. The crusher will be used to produce materials that may be used as beneficial fill for the landfill, aggregate for maintaining roads, or aggregate for sale. The crusher shall be operated on a 2-foot thick soil pad with perimeter soil berms that will soak up spills or leaking fluids, which may be removed from the landfill if a spill or leak occurs. Extra care shall be taken when fueling the crusher to avoid spills. The Operator shall exercise proper judgement in enforcing the waste acceptance policy. **CAUTION:** crushing concrete does not remove or disguise improper materials that may be encountered in the waste stream. Solid Waste Section inspectors will be vigilant about examining the crushed material for evidence of unauthorized wastes. The Operator shall be equally vigilant about avoiding the placement of unauthorized waste in the landfill. A portable container for unauthorized wastes shall be kept near the crusher. ***The allowable waste streams between the LCID disposal area and the T&P area are different, thus the operation of these areas shall be kept entirely separate.***

2.7 WASTE DISPOSAL

2.7.1 Access – The location of access roads during waste placement will be determined by operations personnel in order to reflect waste placement strategy.

2.7.2 General Procedures – Waste transportation vehicles will arrive at the working face at random intervals. There may be a number of vehicles unloading waste at the same time, while other vehicles are waiting. In order to maintain control over the unloading of waste, a certain number of vehicles will be allowed on the working face at a time. The actual number will be determined by the “spotter,” i.e., the operator on duty at the working face. This procedure will be used in order to minimize the potential of unloading unacceptable waste and to control disposal activity. Operations at the working face will be conducted in a manner which will encourage the efficient movement of transportation vehicles to and from the working face, and to expedite the unloading of waste.

The use of portable signs with directional arrows and portable traffic barricades along the access route to the working face will facilitate the unloading of wastes at proper locations. The approach to the working face will be maintained such that two or more vehicles may safely unload side by side. A vehicle turn-around area large enough to enable vehicles to arrive and turn around safely with reasonable speed will be provided adjacent to the unloading area. The vehicles will back to a vacant area near the working face to unload.

Waste unloading at the landfill will be controlled by the Operator to prevent unauthorized materials and potentially unsafe conditions. Such control will also be used to confine the working face to a minimum width, yet allow safe and efficient operations. The width and length of the working face will be maintained as small as practical in order to maintain the appearance of the site, control windblown waste, and minimize the amount of cover required each day. Upon completion of the unloading operation, the transportation vehicles will immediately leave the working face area. Personnel will direct traffic as necessary to expedite safe movement of vehicles.

Normally, only one working face will be active on any given day, with all deposited waste in other areas covered by either periodic or final cover, as appropriate. The procedures for placement and compaction of solid waste include: unloading of vehicles, spreading of waste into 2 foot lifts, and compaction on relatively flat slopes (i.e., 5H: 1V max.) using a minimum number of three full passes. *A maximum slope ratio of 3H:1V shall be observed at all times.*

2.7.3 Periodic Cover – At the completion of waste placement on a monthly basis or sooner if the working face exceeds one acre in size, a 6 inch layer of earthen material will be placed over the exposed waste. This periodic cover is intended to control vectors, fire, odors, and blowing debris.

RECYCLED WOOD PROCESSING

2.8.1 Access – The location of access roads during wood recycling placement will be determined by operations personnel in order to reflect waste placement strategy.

2.8.2 General Procedures – Wood recycling transportation vehicles will arrive at the raw material stock pile at random intervals. There may be a number of vehicles unloading wood at the same time, while other vehicles are waiting. In order to maintain control over the unloading of wood, a certain number of vehicles will be allowed at the pile. The actual number will be determined by the “spotter,” i.e., the operator on duty at the pile. This procedure will be used in order to minimize the potential of unloading unacceptable waste and to control disposal activity. Operations at the raw material stock pile will be conducted in a manner which will encourage the efficient movement of transportation vehicles to and from the working area, and to expedite the unloading of waste.

The use of portable signs with directional arrows and portable traffic barricades along the access route to the working face will facilitate the unloading of wastes at proper locations. The approach to the pile will be maintained such that two or more vehicles may safely unload side by side. A vehicle turn-around area large enough to enable vehicles to arrive and turn around safely with reasonable speed will be provided adjacent to the unloading area. The vehicles will back to a vacant area near the pile to unload.

Raw material unloading at the facility will be controlled by the Operator to prevent unauthorized materials and potentially unsafe conditions. Such control will also be used to confine the raw material stock pile to a minimum width, yet allow safe and efficient operations. The width and length of the pile will be maintained as small as practical in order to maintain the appearance of the site, control windblown waste, and minimize the amount of cover required each day. Upon completion of the unloading operation, the transportation vehicles will immediately leave the working face area. Personnel will direct traffic as necessary to expedite safe movement of vehicles.. *A maximum slope ratio of 3H:1V shall be observed at all times.*

2.8.3 Recyclable Storage

Recyclable material coming into the facility will be put in the “raw material stockpile” area. This area can store approximately 1180 cubic yards of material at 5 feet high. The operator will stop receiving “clean wood” if the pile exceeds these dimensions. The raw material will be ground and stored in the recycled wood products stockpile areas which have a capacity of 5700 cubic yards. The operation will stop receiving raw material when the pile exceeds these dimensions.

It is estimated that four tractor trailer loads (approximately 360 cubic yards) of recycled wood material will be sold each week. Based on that projection and the operation plans no more than 720 cubic yards will be stored on the site at any time. Many factors affect the amount of material that moves through the facility. The most influential is the economy. As the economy changes, the facility will have to adapt to demand.

2.8.4 Customer List

Current customers for recycled materials include:

Soil Toppers - Fuquay Varina, North Carolina

The Rock Shop - Durham, North Carolina

Power Mulch Inc. - Raleigh, North Carolina

Daniel Supply - Fuquay Varina, North Carolina

It is anticipated that as the economy improves, the list of customers will expand, particularly in Wake County.

2.9 HEIGHT MONITORING

The landfill staff will monitor landfill top and side slope elevations on a weekly basis. This shall be accomplished by use of a surveyor's level and a grade rod. When such elevations approach the grades shown on the Final Cover Grading Plan, the final top-of-waste grades will be staked by a licensed surveyor to limit over-placement of waste. An annual survey of the landfill shall be performed to confirm that lines and grades are within the specified requirements and to facilitate a volumetric analysis of the airspace.

SECTION 3.0 ENVIRONMENTAL MANAGEMENT

3.1 OVERVIEW

This section reviews the overall environmental management tasks required for the successful operation of the LCID landfill and the Wood Recycling facility.

3.2 EROSION AND SEDIMENTATION CONTROL

Diversion ditches and sediment basins that were originally installed as part of the landfill construction are still in place. These devices will be inspected prior to beginning any work on the landfill to ensure they are functional. Currin Bros Inc. will make any repairs necessary. Wake County will be contacted with respect to the land disturbing permit status.

The work area on top will be enclosed with a 2 foot diversion berm. This berm will be used to direct runoff for the working area to slope drains on the west side of the landfill. These drains will discharge into an existing diversion ditch and into the existing sediment basin. The basin(s) should be inspected regularly for sediment build-up or erosion damage. The basin(s) should be cleaned out by excavating when sediments fill the lower half of the basin.

3.3 LANDFILL GAS CONTROL

Due to the nature of the waste disposed in this landfill, landfill gas control is not anticipated to be of concern. No methane monitoring is prescribed for this facility.

3.4 VECTOR CONTROL

Due to the nature of the waste disposed in this landfill, vector control will not be of concern. Note that the use of periodic cover will discourage animals from nesting in the waste.

3.5 ODOR CONTROL

Due to the nature of the waste disposed in this landfill, odor control will not be of concern.

3.6 DUST CONTROL

Dust related to waste hauler traffic on the access roads will be minimized by using a water truck to limit dust on the gravel portion of the road. Dust generated by excavation of cover soil will be limited by watering the cut soil areas. Staff should avoid breathing in dust generated by the operations.

SECTION 4.0 CONTINGENCY PLAN

4.1 SEVERE WEATHER CONDITIONS

Unusual weather conditions can directly affect the operation of the facility. Some of these weather conditions and recommended operational responses are as follows.

4.1.1 Ice Storms – An ice storm can hinder access and prevent safe movement or placement of periodic cover, and, thus, may require closure of the landfill until the ice is removed or has melted.

4.1.2 Heavy Rains – Exposed soil surfaces can create a muddy situation in some portions of the facility during rainy periods. Proper drainage control and use of crushed stone on unpaved roads should provide all-weather access and protect drainage away from critical areas. In areas where the aggregate surface is washed away or otherwise damaged, aggregate should be replaced.

Intense rains can affect newly constructed drainage structures such as swales, diversions, cover soils, and vegetation. After such a rain event, inspection by staff will be initiated and corrective measures taken to repair any damage found before the next rainfall.

4.1.3 Electrical Storms – The open areas of the facility are susceptible to the hazards of an electrical storm. If necessary, facility activities will be temporarily suspended during such an event. To promote the safety of field personnel, refuge will be taken in buildings or in rubber-tire vehicles.

4.1.4 Windy Conditions – Blowing debris can constitute safety hazards and/or environmental concerns. Normally, this authorized waste stream should not be susceptible to light wind, but high winds could blow smaller debris. Daily operations should minimize exposure to prevailing winds

– operations should be sheltered by locating activities on the lee-side of slopes and other natural wind barriers. The work area may need to be temporarily shifted to a more sheltered area.

4.1.5 Violent Storms – In the event of a hurricane, tornado, or severe winter storm warning issued by the National Weather Service, facility operations should be temporarily suspended until the warning is lifted. If there is adequate time, soil cover should be placed on exposed waste (in the landfill), and buildings and equipment should be properly secured. If there is eminent danger to staff, personal safety shall take precedence over concerns regarding the waste or equipment.

4.2 FIRE IN THE FACILITY

The waste may compost under normal circumstances and attain high enough temperatures to combust. Telltale early signs of fires in stockpiles or the in-situ waste may be smoke or charring observed at “vents” (cracks in the surface). It is normal to see steam rising from the waste, especially on cold mornings – this does not necessarily indicate a fire, but areas that steam frequently should be watched closely. In the event of an actual fire, steps should be taken to safeguard site workers and the general public, including notifying the fire department and the Solid Waste Section specialist.

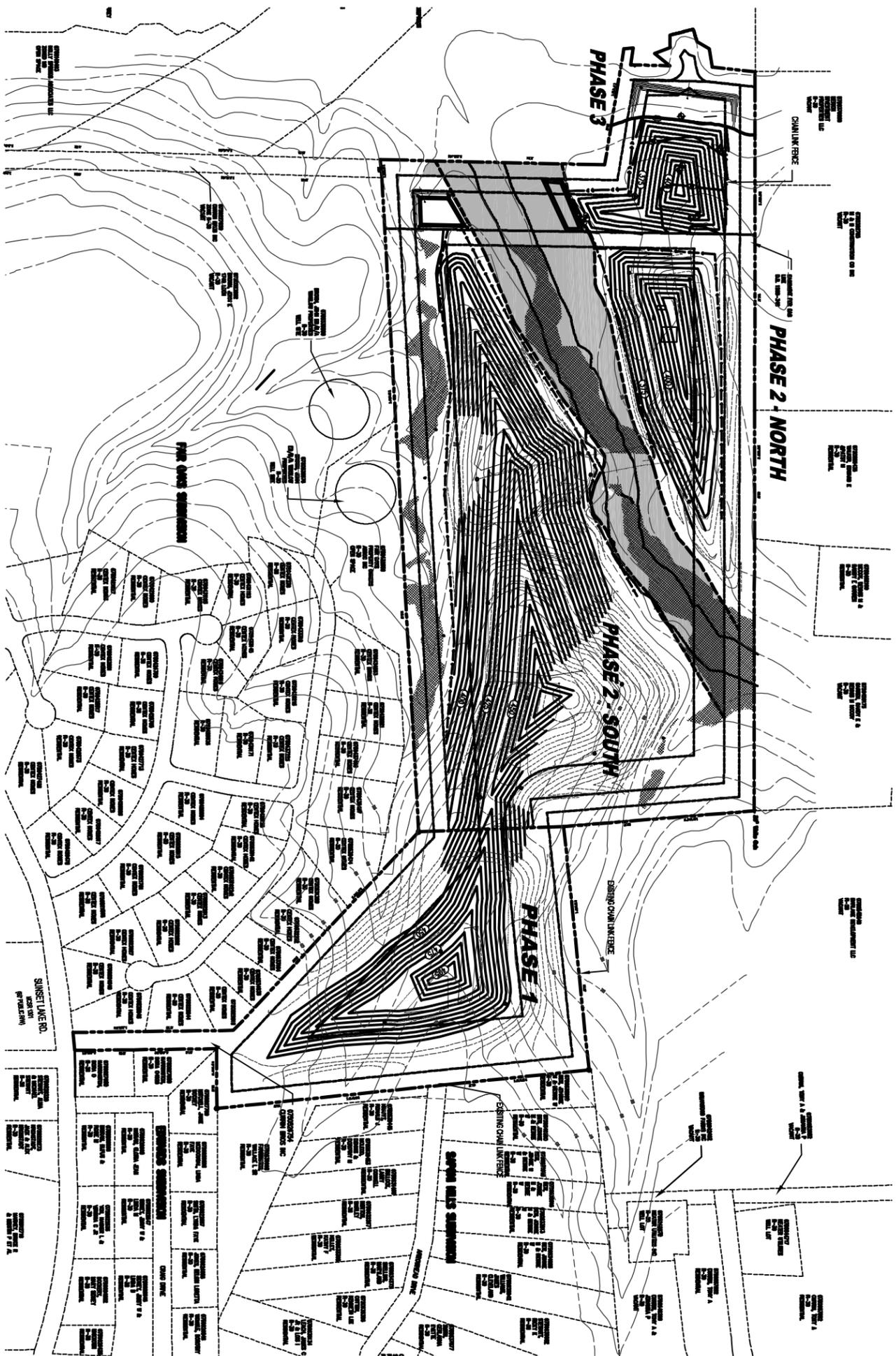
4.2.1 Minor Fires – The possibility of a brush fire or a piece of equipment must be anticipated. A combination of factory installed fire suppression systems and/or portable fire extinguishers shall be operational on all heavy pieces of equipment at all times. Spreading dirt or using water on a small surface fire is effective. For larger or more serious outbreaks, call the local fire department.

4.2.2 Hot Loads – The gate attendant shall prevent vehicles containing waste that is suspected to be hot, e.g., smoldering or smoking. If a "hot" load is detected at the entrance gate, the driver shall be directed to an isolated location away from the public (but accessible to fire fighting equipment), and the driver shall dump the load on the ground and move the truck to a safe location – emphasis shall be placed on the driver and staff’s safety first, and then the truck if safe enough to do so. If a hot load is placed on the working face, then the load will be spread as thin as possible and cover soil will be immediately placed on the waste to extinguish the fire.

4.2.3 Major Fires – If the waste catches fire, efforts will be made to extinguish the fire by smothering it with dirt. Stockpiles of dirt should be kept on hand during the operational phases in order to combat a fire. Water is the least desirable means of fighting a large landfill fire, but placing water on a small fire is acceptable. The application of water has not proven to be an effective means of extinguishing deep fires in LCID landfills. It should be realized that water used to fight a fire will become a water quality issue. The most effective means of combating a fire in the waste is to carefully excavate the fire and smother it with dirt. All fires should be reported to the Solid Waste Inspector or Area Specialist (see **Appendix 5**).

Appendix 1

LCID LANDFILL & WOOD RECYCLING PERMIT RENEWAL CURRIN BROS. INC. WAKE COUNTY, NC



PERMIT HISTORY

1. 1986 - ORIGINAL PERMIT ISSUED WAKE COUNTY
2. 1996 - MODIFICATIONS APPROVED BY WAKE COUNTY
3. 2003 - MODIFICATIONS APPROVED BY WAKE COUNTY
4. 2008 - PERMIT RENEWAL APPROVED BY WAKE COUNTY
5. 2008 - NC DIV OF WASTE MGMT ASSUMES AUTHORITY

OWNER/DEVELOPER

CURRIN BROS INC
PO BOX 547
FLOUAT VARIAN NC 27526-0547

919-567-0433

919-567-3811 FAX

PROJECT ADDRESS 4525 SUNSET LANE RD
APEX NC 27539-5782

PM

079524787
079524784
079522789

ZONING

R-30
81.6 AC

TOTAL TRACT

81.6 AC

HOURS OF OPERATION

MON - SAT 7:30 AM - 5:30 PM

NOTES

1. BOUNDARY INFORMATION PROVIDED BY MAULDI-WATKINS, PA
2. TOPOGRAPHIC INFORMATION TAKEN FROM WAKE COUNTY GIS DATA (S CONTROL)
3. LOCATION OF FLOODWAY, NEAR, ORIGINAL FINISH GRADES AND OTHER UTILITIES
4. THE IMPROVEMENTS TAKEN FROM PLANS PREPARED BY LITTLE AND ASSOCIATES, PA AND APPROVED BY WAKE COUNTY.

EXISTING WAREHOUS SURFACES

DONE 73,180 SF
TOTAL 73,180 SF
% WAREHOUSES 2.08 %

LANDSCAPE DATA

BUFFERS PER SECTION 1-1-13.04

1. NO PORTION OF THE LANDFILL IS VISIBLE AT GROUND ELEVATION FROM THE STATE MAINTAINED THROUGHWAYS, RESIDENCES OR BUILDINGS THEREFORE NO SUPPLEMENTAL VISUAL SCREENING IS REQUIRED WITHIN THE 50' BUFFER
- TRANSITIONAL BUFFER/WAYS PER SECTION 1-1-29
1. HIGH INTENSITY ADJACENT TO LOWER INTENSITY RESIDENTIAL 100' BUFFER WIDTH / HIGH INTENSITY
2. SCREENING PROVIDED
- NORTH PROPERTY LINE - 10' BEEM WITH PINE SEEDLINGS AND 50 UNSTURBED BUFFER
- SOUTH, WEST, EAST PROPERTY LINE - 50' UNSTURBED BUFFER
3. NO VEHICLES OR MACHINERY WILL BE STORED WITHIN BUFFER AREAS. NO ACCESSORY BUILDINGS WILL BE LOCATED WITHIN BUFFER YARDS.

LEGEND

VEG BEEM & DIVERSION SWALE

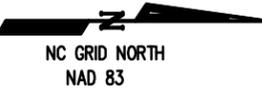
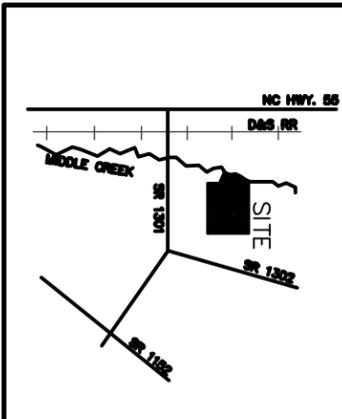
PROPOSED CONTOUR

EXIST CONTOUR

40'

SHEET INDEX

1. COVER SHEET
2. FACILITY PLAN
3. FACILITY PLAN
4. PHASE 1 SITE PLAN
5. PHASE 2 & 3 SITE PLAN
6. PHASE 1 PROFILES
7. PHASE 2 NORTH PROFILES
8. PHASE 2 SOUTH PROFILES
- 8-A. COLONIAL EASEMENTS
9. PHASE 3 PROFILES
10. DETAIL SHEET



Sunset Road
LCID Landfill & Wood Recycling Facility
Permit # 92N-LCID
Cover Sheet

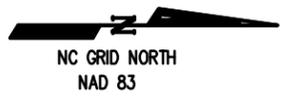
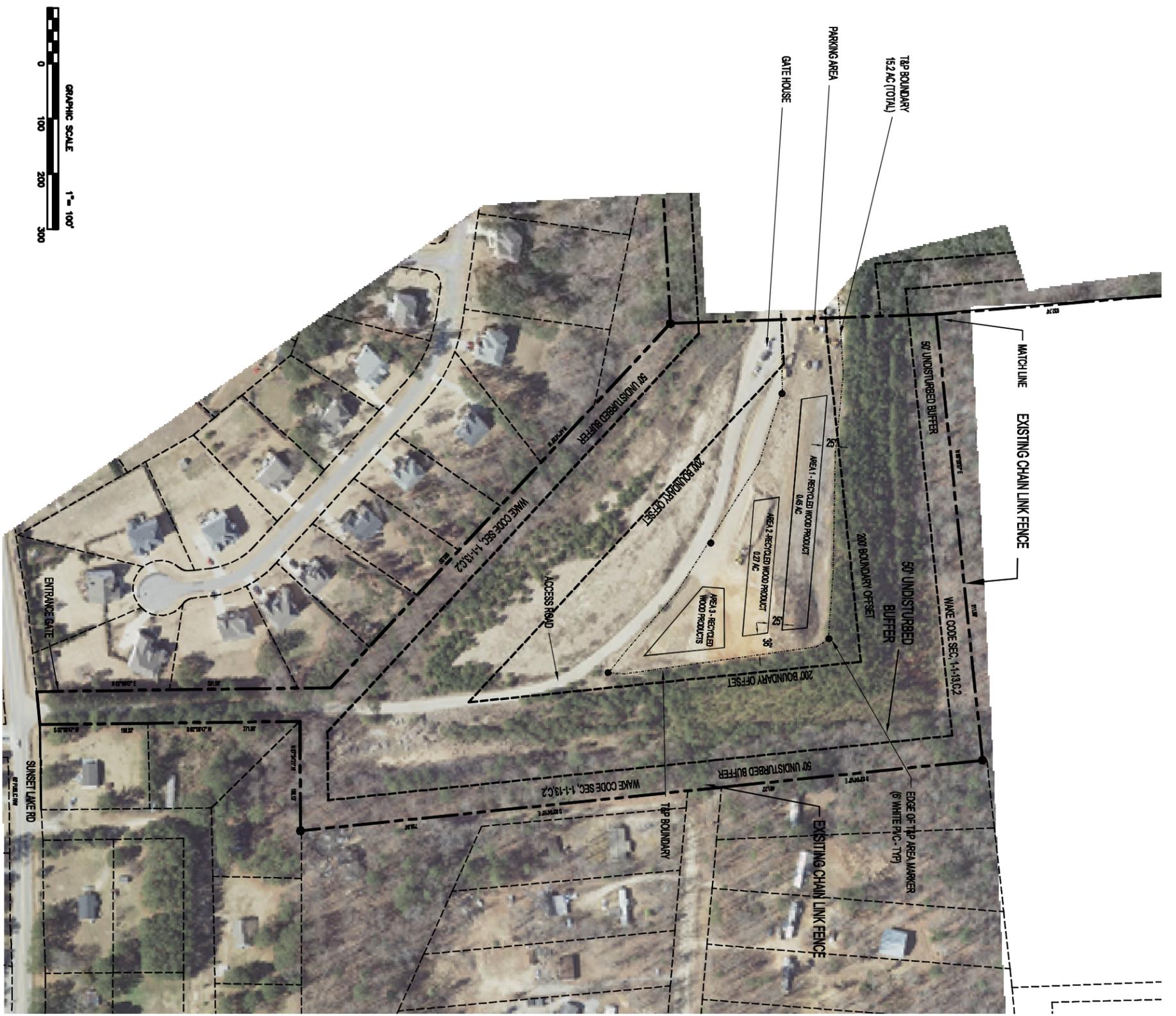
Currin Bros. Inc.

Wake County
Fuquay-Varina, NC

John A. K. Tucker, P.E.
Consulting Engineer
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(919) 567-0483 fax (919) 567-3611
Email: johnak@johnktuckerpe.com



NO	REVISIONS	DATE
3	REVISED PER DVM COMMENTS	12/28/11



- GENERAL NOTES:**
1. SITE IS CURRENTLY STABILIZED WITH VEGETATION.
 2. ORIGINAL EROSION CONTROL DEVICES REMAIN IN PLACE.
 3. SITE IS ENCLOSED WITH CHAINLINK FENCE AND GATES.

- BASE INFORMATION:**
1. BOUNDARY INFORMATION TAKEN FROM PREVIOUS APPROVED PLANS PREPARED BY CURRIN BROS. INC. AND FIELD INFORMATION PROVIDED BY WILSON WATKINS LAND SURVEYING.
 2. AERIAL PHOTOS: JUNE 2010.

NOTE: ALL SLOPES IN THE LANDFILL SHALL BE MAINTAINED AT NO GREATER THAN 3:1 WITH ADEQUATE SOIL AND VEGETATIVE COVER. SLOPES SHOULD BE FREE OF WOODY VEGETATION.

NO.	REVISIONS	DATE
3	REVISED PER DWH COMMENTS	12/28/11
2	REVISED PER WAKE COUNTY COMMENTS	12/05/09
1	REVISED PER WAKE COUNTY COMMENTS	09/17/08

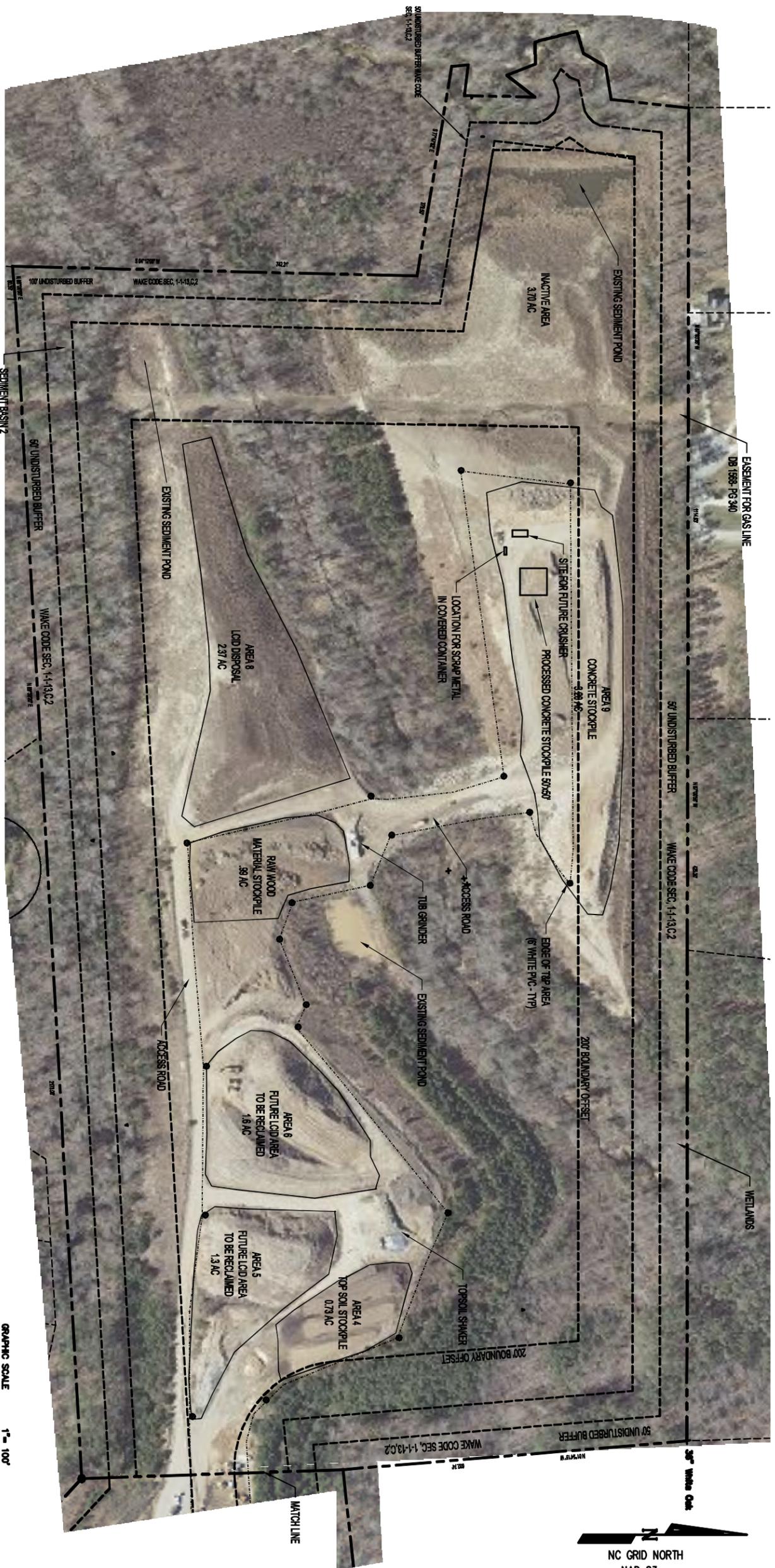
**Sunset Road
LCID & Wood Recycling Facility
Permit # 92N-LCID
T&P Facility Plan**

Currin Bros. Inc.

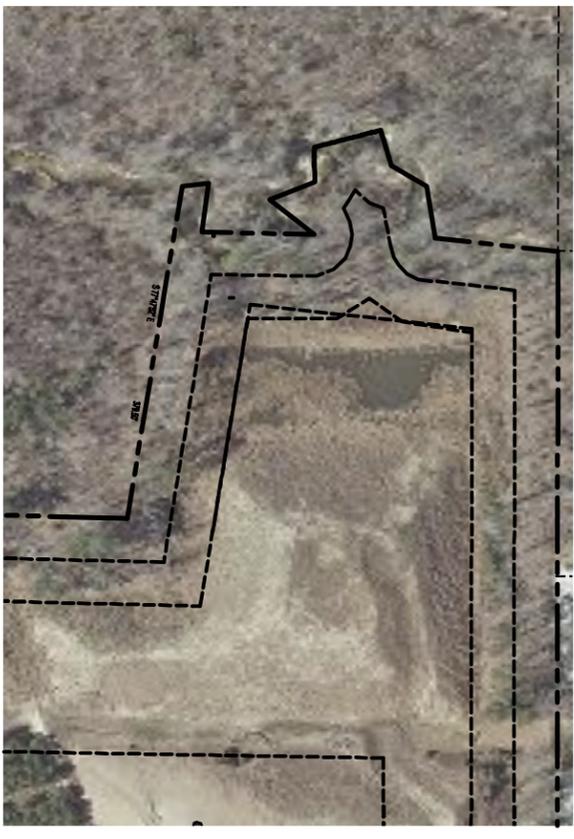
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PHASE 2
SCALE 1" = 100'



PHASE 3
SCALE 1" = 100'

- GENERAL NOTES:
1. SITE IS CURRENTLY STABILIZED WITH VEGETATION.
 2. ORIGINAL EROSION CONTROL DEVICES REMAIN IN PLACE.
 3. SITE IS ENCLOSED WITH CHAIN LINK FENCE AND GATES.

- BASE INFORMATION:
1. BOUNDARY INFORMATION TAKEN FROM PREVIOUS APPROVED PLANS PREPARED BY CURRIN BROS. INC. AND FIELD INFORMATION PROVIDED BY MALDON WATKINS LAND SURVEYING.
 2. AERIAL PHOTO IS JUNE 2010.

NOTE: ALL SLOPES IN THE LANDFILL SHALL BE MAINTAINED AT NO GREATER THAN 3:1 WITH ADEQUATE SOIL AND VEGETATIVE COVER. SLOPES SHOULD BE FREE OF WOODY VEGETATION.

NO.	REVISIONS	DATE
3	REVISED PER DWM COMMENTS	12/28/11
2	REVISED PER WAKE COUNTY COMMENTS	12/05/09
1	REVISED PER WAKE COUNTY COMMENTS	09/17/08

**Sunset Road
LCID & Wood Recycling Facility
Permit # 92N-LCID
T&P Facility Plan**

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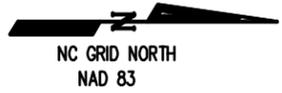
AUGUST 28, 2002

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Currin Bros. Inc.
 Wake County
 Fuquay-Varina, NC

**Sunset Road
 LCID Landfill & Wood Recycling Facility
 Permit # 92N-LCID
 Grading and Drainage Plan**

NO.	REVISIONS	DATE
3	REVISED PER DWH COMMENTS	12/28/11



- WAKE COUNTY CONSTRUCTION SEQUENCE**
1. Obtain a land-disturbing permit. Schedule a pre-construction conference with the Environmental Engineer.
 2. Prepare a site plan for the permit. Obtain all necessary permits from the appropriate agencies. Obtain all necessary permits from the appropriate agencies. Obtain all necessary permits from the appropriate agencies.
 3. Obtain a construction permit from the Environmental Engineer.
 4. Obtain a construction permit from the Environmental Engineer.
 5. Obtain a construction permit from the Environmental Engineer.
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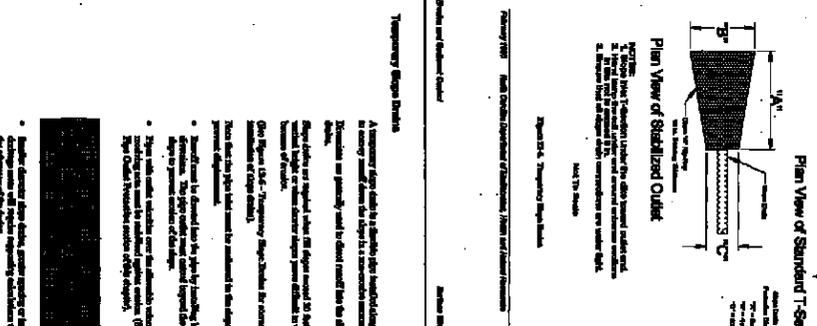
SEEDING SCHEDULE

(REVISED: 1-1-86)
 Shoulders, Side Ditches, Slopes (Max 3:1)

DATE	PLANTING RATE
Aug 15 - Nov 1	100 lbs/acre
Nov 1 - Mar 1	300 lbs/acre
Mar 1 - Apr 15	25 lbs/acre
Apr 15 - Jun 30	300 lbs/acre
Jun 1 - Aug 15	100 lbs/acre
Mar 1 - Jun 1	50 lbs/acre
Jun 1 - Sep 1	120 lbs/acre
Sep 1 - Mar 1	100 lbs/acre
Mar 1 - Apr 15	100 lbs/acre
Apr 15 - Jun 30	100 lbs/acre
Jun 1 - Sep 1	120 lbs/acre
Sep 1 - Mar 1	120 lbs/acre
Mar 1 - Apr 15	100 lbs/acre
Apr 15 - Jun 30	100 lbs/acre
Jun 1 - Sep 1	120 lbs/acre
Sep 1 - Mar 1	120 lbs/acre

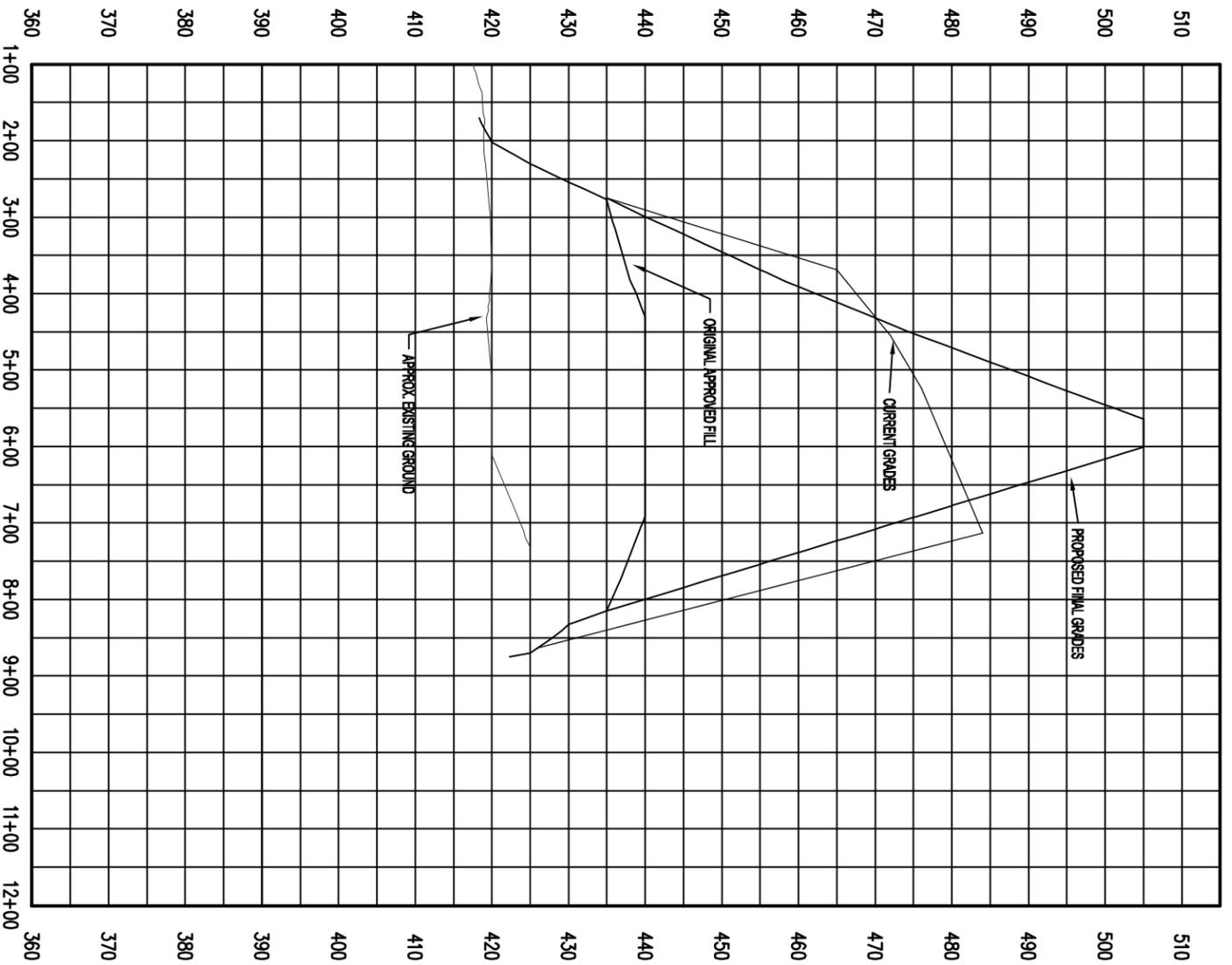
- SEEDING PREPARATION**
- 1) ONCE COMPACTED AREAS AND SPREAD TOPSOIL, 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
 - 2) RUP THE ENTIRE AREA TO 6 INCHES DEPTH.
 - 3) REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
 - 4) APPLY AGRICULTURAL LIME, FERTILIZER, AND UNIFORMITY AND MIX WITH SOIL (SEE BELOW).
 - 5) CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM INCHES REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 DEEP.
 - 6) SEED ON A FRESHLY PREPARED SEEDBED AND COVER AFTER SEEDING. SEED DENSITY WITH SEEDING EQUIPMENT OR CULTIVATOR.
 - 7) MULCH IMMEDIATELY AFTER SEEDING. ANCHOR MULCH.
 - 8) INSPECT ALL SEEDING AREAS AND MAKE NECESSARY RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. FOLLOWING STAND SHOULD BE OVER 80% COVERED. REESTABLISH ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
 - 9) CONSULT CONVERSATION INSPECTOR ON MAINTENANCE ESTABLISHED.

- TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ACHIEVED IN CLAY SOILS**
- * APPLY AGRICULTURAL LIMESTONE - 2 TONS/ACRES (3 TONS/ACRE IN CLAY SOILS)
 - FERTILIZER - 1000 lbs / ACRE - 10-10-10
 - SUPERPHOSPHATE - 300 lbs / ACRE - 20-0-0
 - MULCH - 2 TONS / ACRE - SMALL GRAIN STRAW
 - ANOTHER - ASPHALT EMULSION @ 300 GALS / ACRE

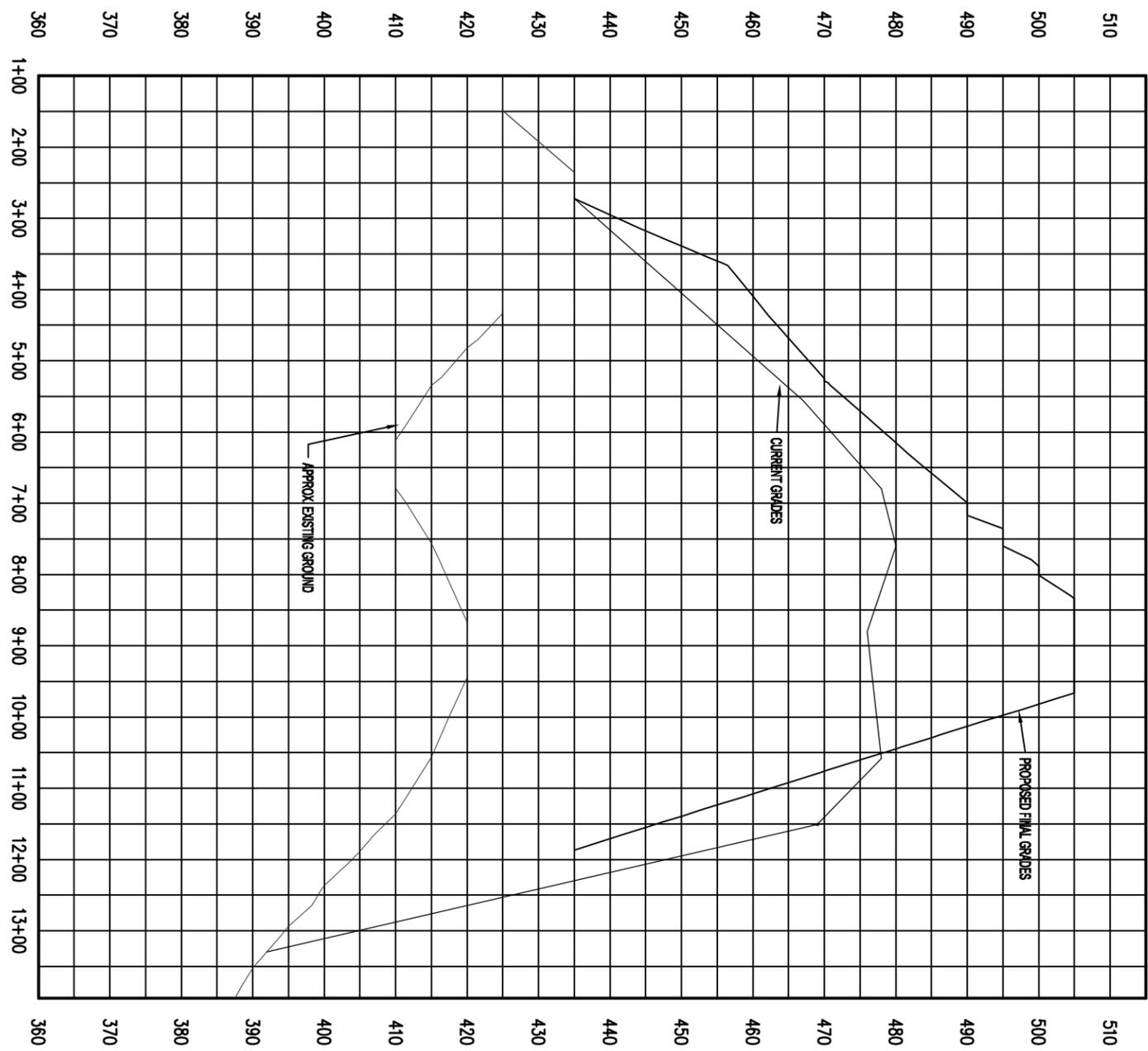


Notes and General Conditions:

1. Temporary Erosion Control Measures shall be installed and maintained throughout the construction period to prevent erosion and sedimentation.
2. All erosion control measures shall be installed and maintained throughout the construction period to prevent erosion and sedimentation.
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10. All erosion control measures shall be installed and maintained throughout the construction period to prevent erosion and sedimentation.



PROFILE - D1
SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL



PROFILE - D2
SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

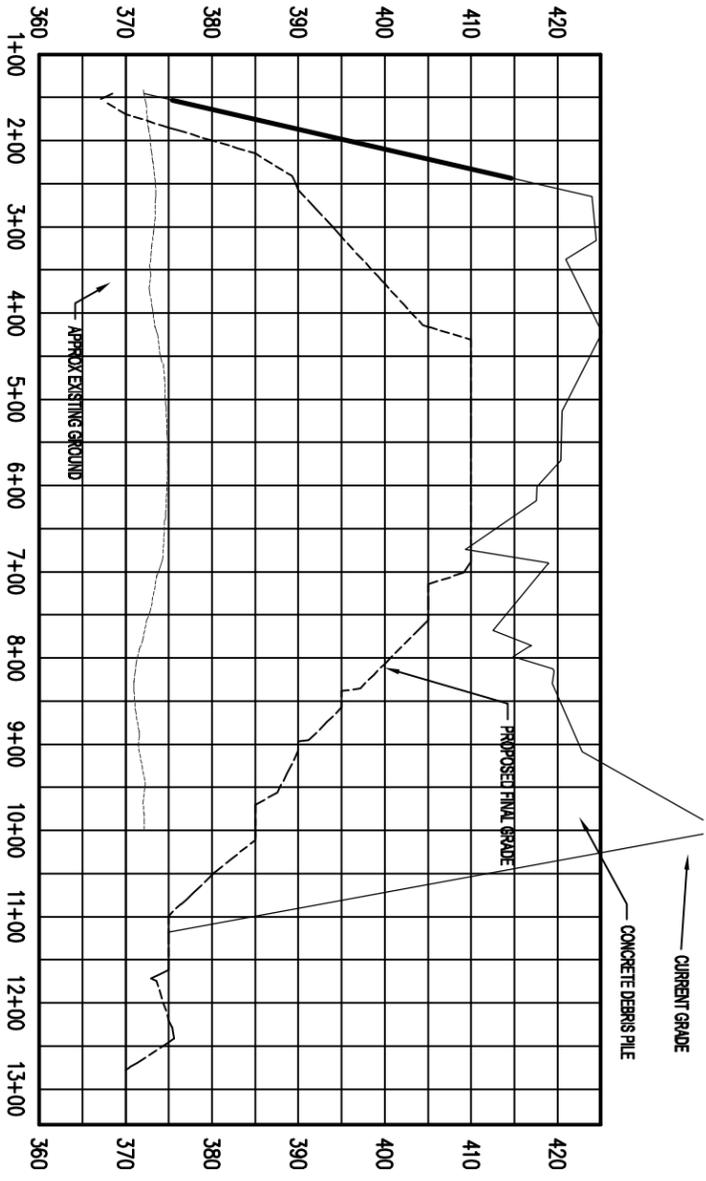
Sunset Road
LCID Landfill & Wood Recycling Facility
Permit # 92N-LCID
Profiles

Currin Bros. Inc.
Wake County
Fuquay-Varina, NC

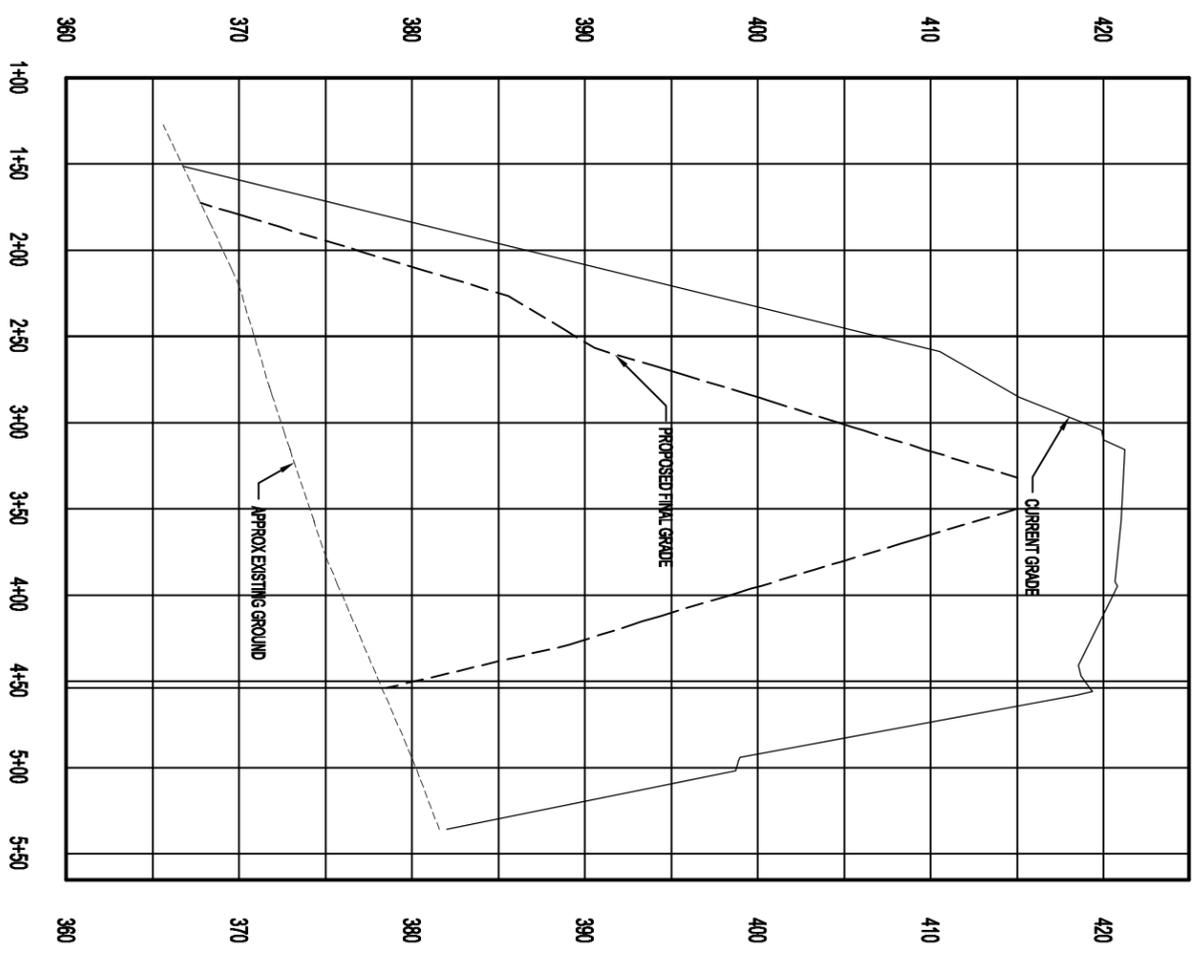
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(919) 567-0483 fax (919) 567-3611
Email: johnak@johnktuckerpe.com



NO.	REVISIONS	DATE
3	REVISED PER DVM COMMENTS	12/28/10



PROFILE - B1
SCALE 1" = 100' HORIZONTAL
1" = 10' VERTICAL



PROFILE - B2
SCALE 1" = 50' HORIZONTAL
1" = 5' VERTICAL

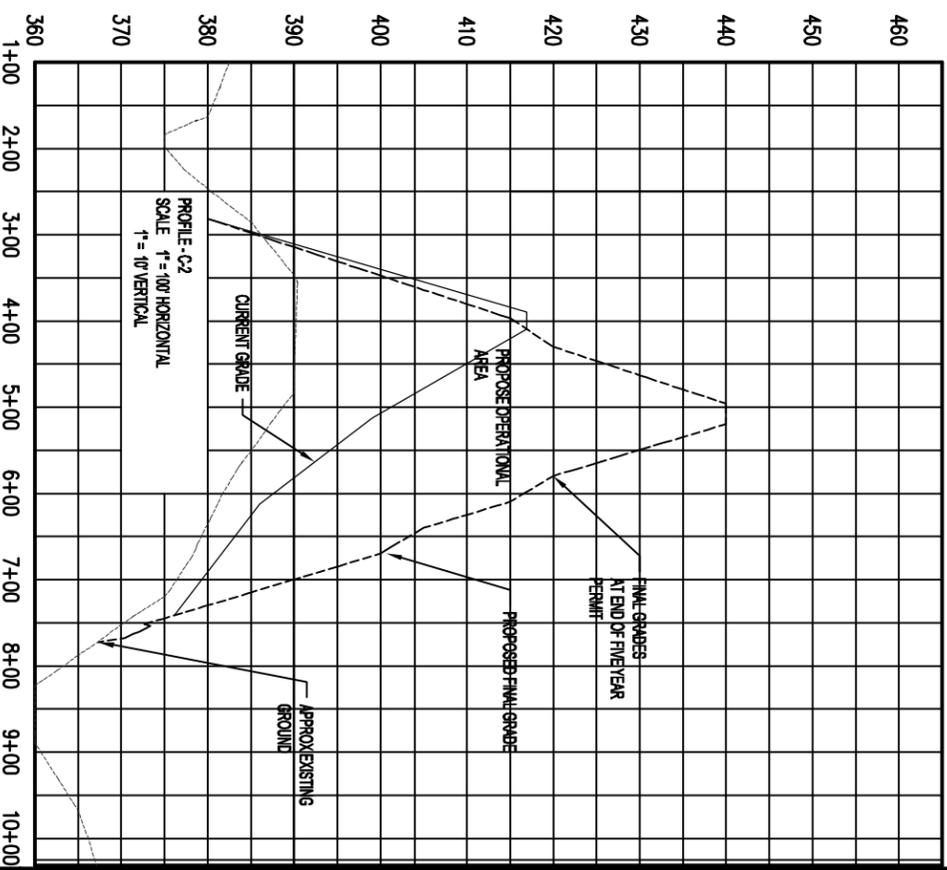
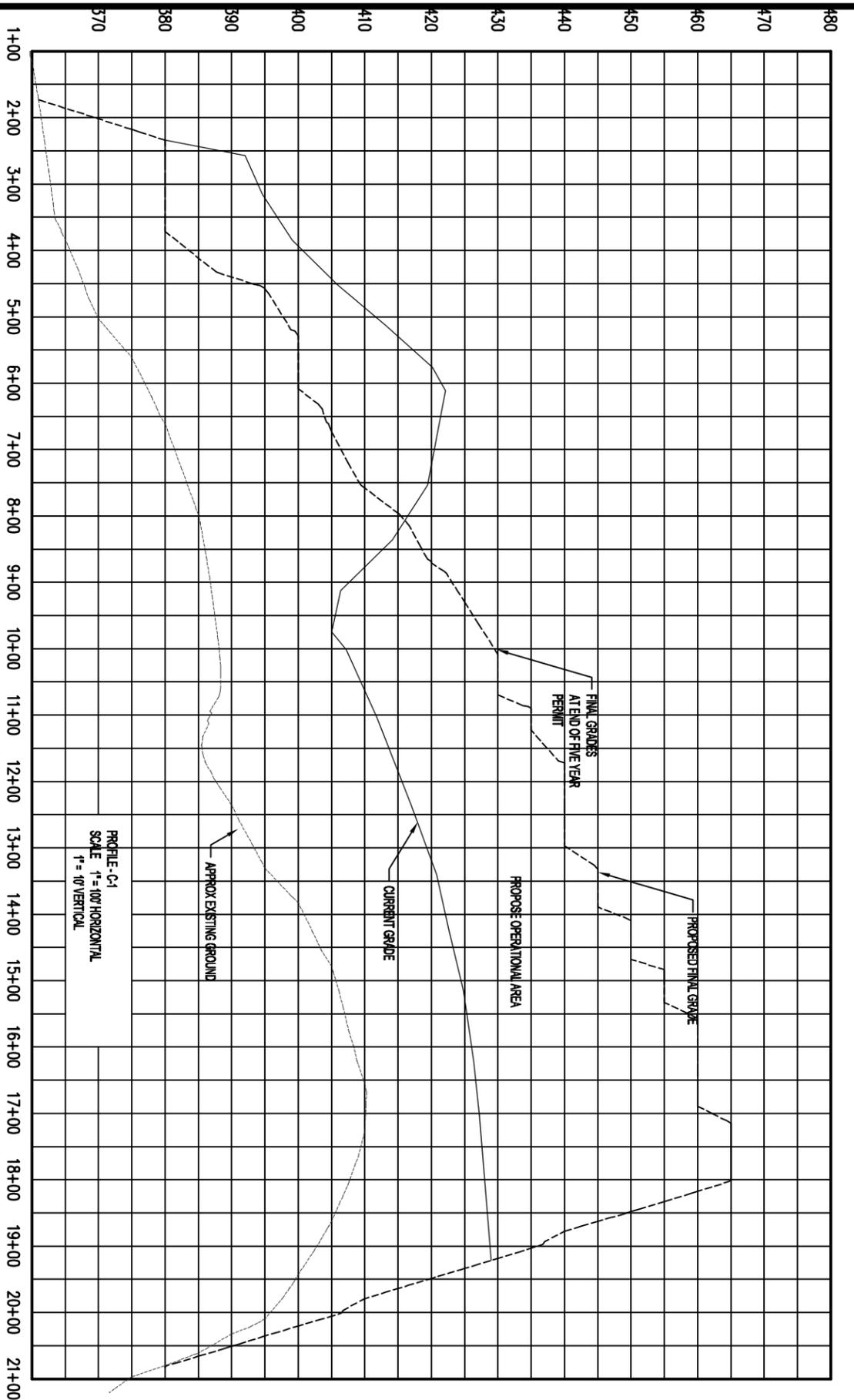
Sunset Road
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NO.	REVISIONS	DATE
3	REVISED PER JAVM COMMENTS	12/28/1



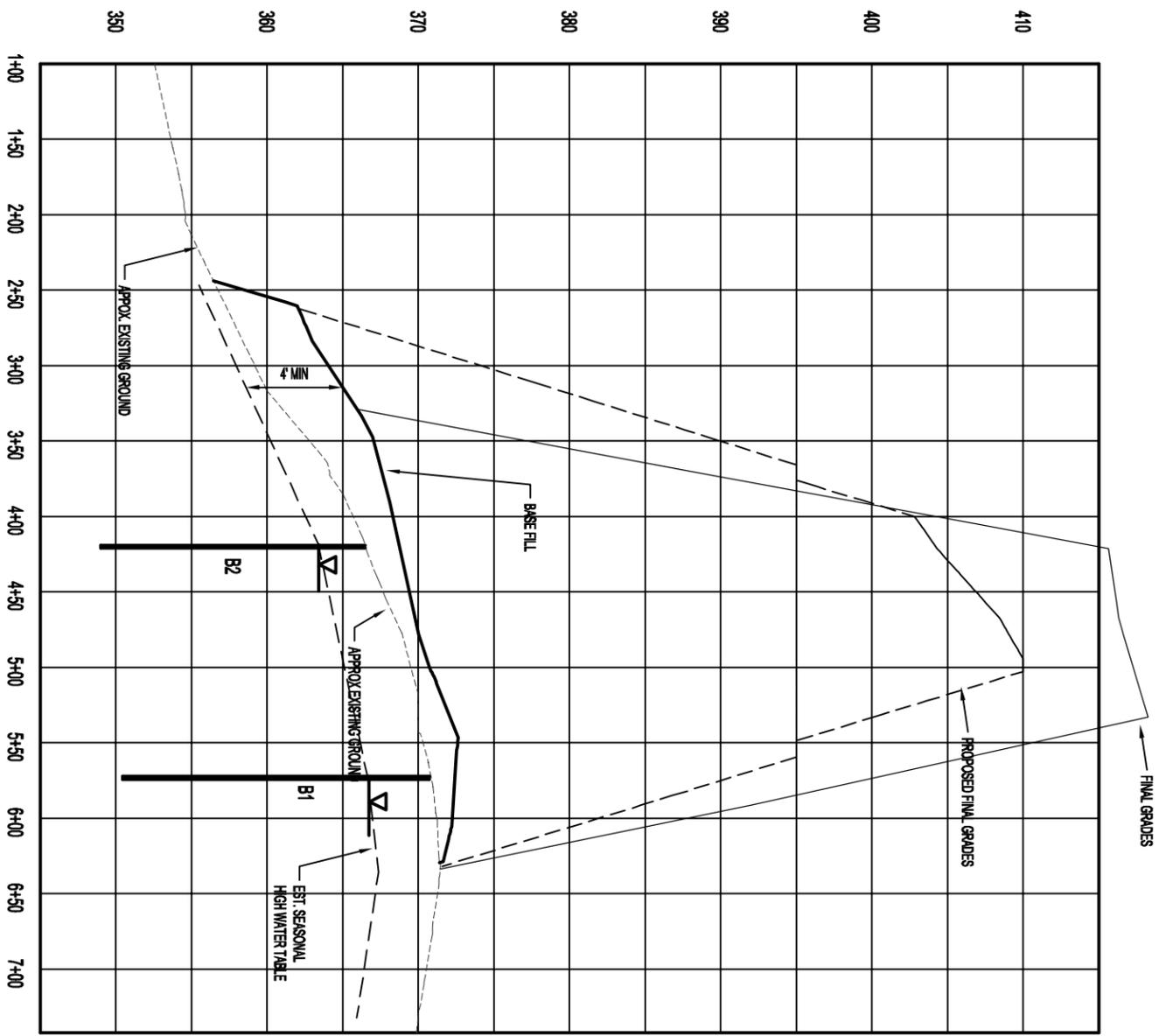
NO.	REVISIONS	DATE
3	REVISED PER DWH COMMENTS	12/28/11

**Sunset Road
LCID Landfill & Wood Recycling Facility
Permit # 92N-LCID
Profiles**

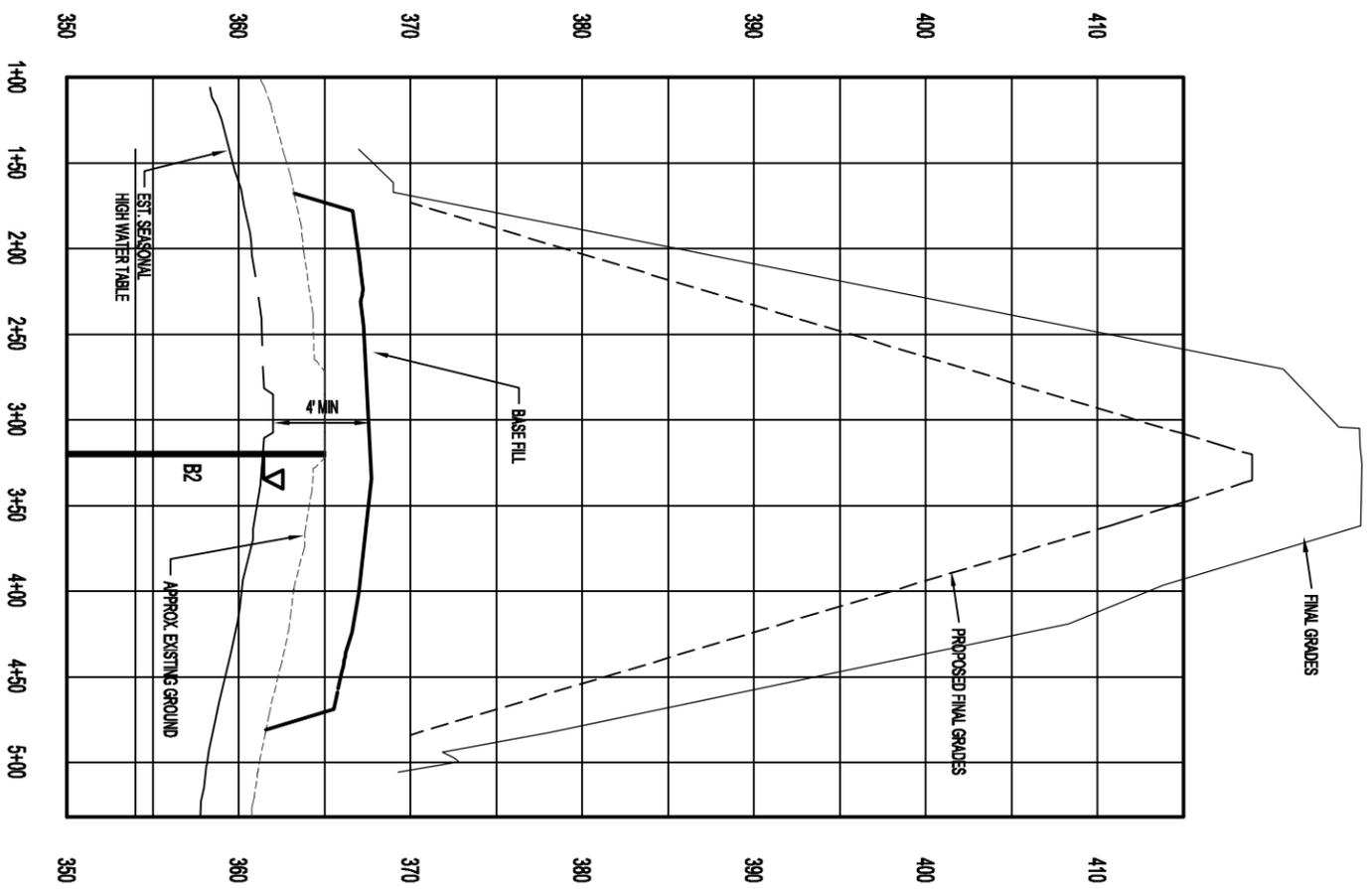
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PROFILE - A1
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



PROFILE - A2
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

Sunset Road
LCID Landfill & Wood Recycling Facility
Permit # 92N-LCID
Profiles

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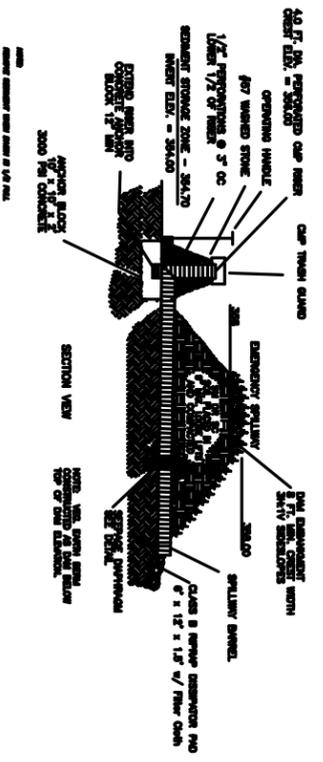
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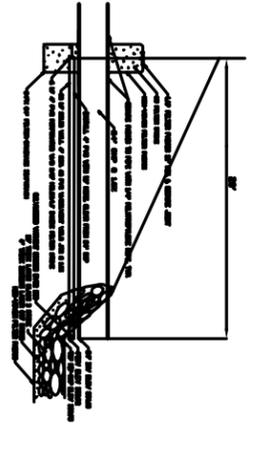
June 1, 2010

REVISIONS

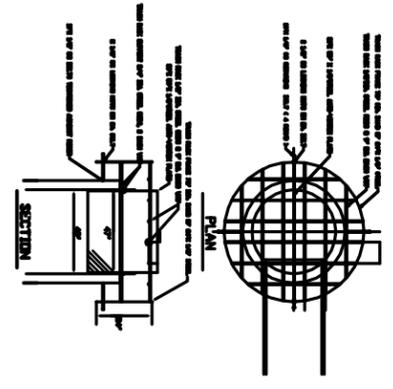
NO.	REVISIONS	DATE
3	REVISED PER DVM COMMENTS	12/28/11



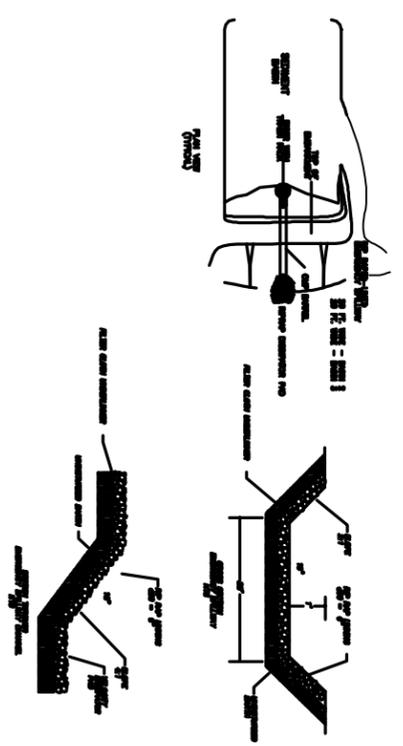
SED BASIN 1 - SECTION THROUGH EMBANKMENT



SED BASIN 1 - PRINCIPAL SPILLWAY OUTLET



SED BASIN 1 - TRASH RACK DETAILS



SED BASIN 1 - EMERGENCY SPILLWAY DETAIL

CONSTRUCTION REQUIREMENTS

SITE PREPARATION SHALL BE COMPLETED FROM THE ENTIRE AREA WHERE THE EMBANKMENT IS TO BE CONSTRUCTED. ALL EXISTING OBSTRUCTIONS AND ORGANIC MATERIALS SHALL BE REMOVED. THE UPPER LAYERS OF LOOSE SANDY MATERIALS TO EXPOSE THE FIRM SANDY CLAY MATERIALS. SCARIFY THE SURFACE OF THE EXPOSED SUBGRADE MATERIALS PRIOR TO PLACING FILL.

EXCAVATE THE CORE TRENCH ALONG THE CENTERLINE OF THE EMBANKMENT. MAINTAIN TRENCH SIDE SLOPES NO STEEPER THAN 1:1. SANDY SOIL MATERIALS SHALL BE REMOVED FROM THE TRENCH. MAINTAIN THIS CORE FILL HEIGHT DURING CONSTRUCTION.

CORE TRENCH BACKFILL SHALL BE CLEAN MINERAL SOILS FREE OF ORGANIC MATERIALS FROM THE APPROVED BORROW AREAS. PLACE THE MATERIALS IN LAYERS NOT EXCEEDING 12\"/>

EMBANKMENT FILL SHALL BE CLEAN MINERAL SOILS FREE OF ORGANIC MATERIALS FROM THE APPROVED BORROW AREAS. PLACE THE MATERIALS IN LAYERS NOT EXCEEDING 12\"/>

SPILLWAY RISER AND FOUNDATION FOR THE RISER BARREL FOUNDATION TO THE GRADES AS SHOWN OR TO THE DEPTH OF FIRM UNDERLYING SANDY CLAY. BACKFILL THE RISER SUBGRADE WITH THE FIRM SANDY CLAY MATERIALS. REINFORCE THE RISER WITH 4\"/>

PERMANENT SEEDING SHALL BE INSTALLED IMMEDIATELY AFTER THE RISER AND FOUNDATION ARE COMPLETED. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING RISER BARREL. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING WATERGATE JOINTS. MONITOR THE INSTALLATION DURING BACKFILLING AND MAINTAIN PROPER ALIGNMENT AND SECURE JOINTS.

SPILLWAY PIPE AND TRENCH SUBGRADE SOILS SHALL BE EXCAVATED TO THE GRADES AS SHOWN OR TO THE DEPTH OF THE FIRM FINE GRANULAR SANDY CLAY. EXCAVATION SHALL BE TO A MINIMUM OF 12\"/>

BACKFILL THE PIPE TRENCH WITH THE CORE MATERIALS IN UNIFORM 4\"/>

FINAL GRADING SHALL BE COMPLETED IMMEDIATELY AFTER THE RISER AND FOUNDATION ARE COMPLETED. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING RISER BARREL. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING WATERGATE JOINTS. MONITOR THE INSTALLATION DURING BACKFILLING AND MAINTAIN PROPER ALIGNMENT AND SECURE JOINTS.

PERMANENT SEEDING SHALL BE INSTALLED IMMEDIATELY AFTER THE RISER AND FOUNDATION ARE COMPLETED. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING RISER BARREL. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING WATERGATE JOINTS. MONITOR THE INSTALLATION DURING BACKFILLING AND MAINTAIN PROPER ALIGNMENT AND SECURE JOINTS.

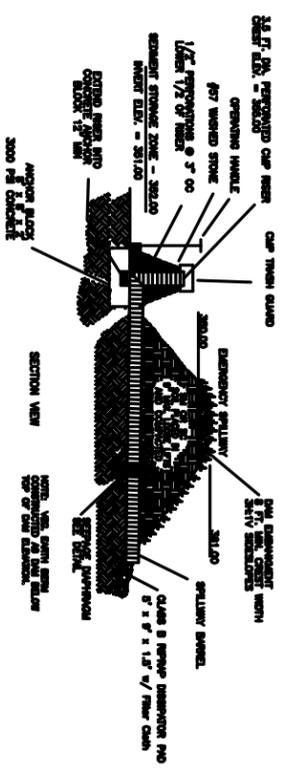
MATERIAL SPECIFICATIONS SHALL BE FURNISHED BY THE DESIGN ENGINEER. INSURE THAT THE RISER AND FOUNDATION ARE COMPLETED IMMEDIATELY AFTER THE RISER AND FOUNDATION ARE COMPLETED. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING RISER BARREL. PROVIDE PORTLAND CEMENT MORTAR GROUT BED FOR SETTING WATERGATE JOINTS. MONITOR THE INSTALLATION DURING BACKFILLING AND MAINTAIN PROPER ALIGNMENT AND SECURE JOINTS.

SPILLWAY PIPE SHALL BE PRECAST CONCRETE MANHOLE CONFORMING TO ASTM C-478 AND ASTM C-443AS FURNISHED BY N.C. PRODUCTS.

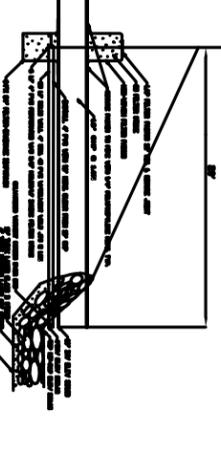
SPILLWAY PIPE SHALL BE DOUBLE RING PIPE WITH PUSH-IN JOINTS CONFORMING TO ASTM A 746 - 77 WITH WALL THICKNESS CLASS 52, THICK COATING AND INSIDE LINING SHALL BE BITUMINOUS MATERIAL, MIN. 1 MIL THICK CONFORMING TO ANSI A 514.

TRASH RACK SHALL BE FABRICATED FROM MILD STEEL AS SHOWN ON THE DETAILS. INSERT BARS THROUGH ANTI-OXIDIZING PLATE AND CONTINUOUSLY WELD TO PLATE. WELDED TOGETHER AT EACH BAR CROSSING. CLEAN ASSEMBLY AFTER FABRICATION BY BRUSH BLASTING TO SPEC 6 AND APPLY TWO 5 MIL MIN. COATS OF COAL TAR EPOXY.

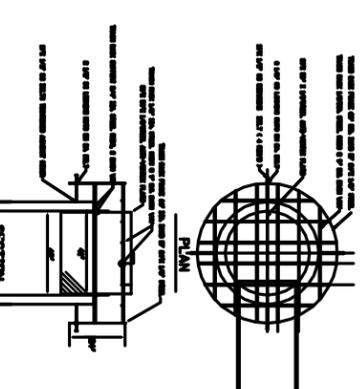
FILTER FABRIC FOR DAM CONSTRUCTION SHALL BE NON-WOVEN TYPE WITH BURST STRENGTH OF 100 PSI MIN. AND EQ. OPENING SIZE NO. 100 SIEVE MIN. AND NO. 50 MAX. CONFORMING TO M.C.D.C.1. 599-1 FOR SHOULDER DRAIN FILTER FABRIC.



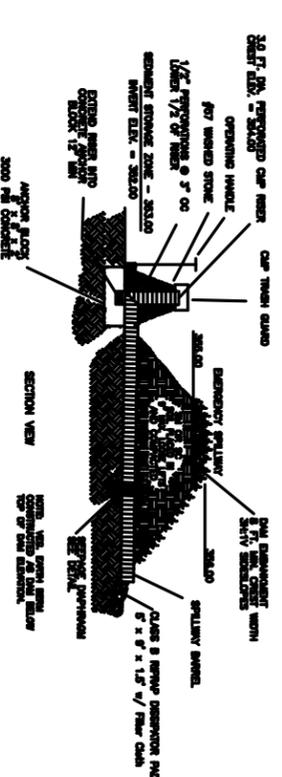
SED BASIN 2 - SECTION THROUGH EMBANKMENT



SED BASIN 2 - PRINCIPAL SPILLWAY OUTLET



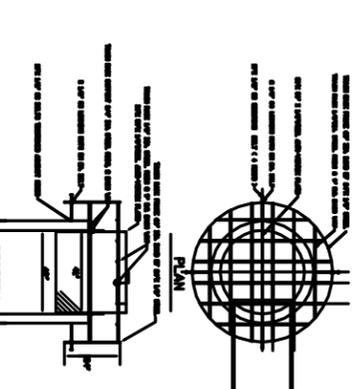
SED BASIN 2 - TRASH RACK DETAILS



SED BASIN 3 - SECTION THROUGH EMBANKMENT



SED BASIN 3 - PRINCIPAL SPILLWAY OUTLET



SED BASIN 3 - TRASH RACK DETAILS



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Currin Bros. Inc.
 Wake County
 Fuquay-Varina, NC

**Sunset Road
 LCID Landfill & Wood Recycling Facility
 Permit # 92N-LCID
 Detail Sheet**

NO.	REVISIONS	DATE
3	REVISED PER DWM COMMENTS	12/28/11
2	REVISED PER WAKE COUNTY COMMENTS	12/05/03
1	REVISED PER WAKE COUNTY COMMENTS	09/17/03

Appendix 2

WASTE SCREENING AND INSPECTION PROGRAM

1.0 INTRODUCTION

This prohibited waste exclusion program is designed to prevent prohibited wastes from entering the facility and designated landfill. Prohibited wastes include regulated hazardous wastes, regulated PCB wastes, and other wastes prohibited by state or local regulations or permit conditions. *The Facility is NOT permitted to accept asbestos wastes.*

For the purposes of this section, regulated hazardous waste means a solid waste that is a hazardous waste as defined in 40 CFR 261.3, that is not excluded from regulation as a hazardous waste under 40 CFR 261.4 (b) or was not generated by a conditionally exempt generator.

Personnel shall be trained in recognition of hazardous and otherwise prohibited wastes, and procedures for accepting or rejecting wastes shall be implemented.

2.0 PROHIBITED WASTES

This facility is allowed to receive wastes classified as Land Clearing Inert Debris.

The facility shall not accept the following:

- Construction and demolition debris — except clean wood waste*
- Municipal/commercial solid wastes and household waste -
Regulated hazardous wastes
- Special wastes — except as permitted by the Solid Waste Section
- \ - PCB wastes
- Other prohibited wastes

*For recycling into boiler fuel only — not disposal

2.1 REGULATED HAZARDOUS WASTE

Regulated hazardous waste must be disposed of or treated at a permitted hazardous waste disposal/treatment facility. **Any material contaminated by a hazardous waste is also deemed to be a hazardous waste.** RCRA permits are required to store, transport, and treat hazardous waste. The USEPA has given exemptions from storage, transport, and disposal requirements to certain generators based on source and quantities. All hazardous waste generated by households during their normal course of activities is exempt from regulation. Regulated generators must notify the EPA that they generate hazardous waste and receive an identification number from EPA or an authorized state agency.

2.2 PCB WASTES

No PCB wastes shall be accepted at the facility.

2.3 EXAMPLES OF OTHER PROHIBITED WASTES

WASTE	BASIS OF PROHIBITION
Radioactive Wastes	Nuclear Regulatory Commission regulations
Bulk Liquids	RCRA Subtitle D (40 CFR 258.28)
Medical Wastes (infectious)	State Solid Waste Regulations
Whole Tires	State Solid Waste Regulations

3.0 LOAD INSPECTION PROGRAM

The purpose of the load inspection program is to detect prohibited wastes and discourage attempts to handle them at the facility.

3.1 INITIAL PROCEDURES ON THE TIPPING AREA

The initial step in the inspection program is to review incoming loads in the tipping area. The operator will observe incoming loads for any indication of the presence of prohibited wastes. Should the operator encounter suspicious-looking loads, they will summon appropriate personnel for further evaluation of the load. If prohibited wastes are identified during inspection of a load, the prohibited load will be reloaded, rejected and sent back to the generator.

3.2 WASTE SCREENING SCHEDULE AND DOCUMENTATION

A waste screening form follows this text (Appendix 2A); this (or a similar form) shall be used for random load inspections and for documentation of rejected waste loads. The inspections are to be conducted on a random basis, at a minimum of twice per day, including (but not limited to) any suspicious load (e.g., that which might contain prohibited or unauthorized wastes).

3.3 LOAD INSPECTION PROCEDURES

The major elements of load inspections are:

- spread, break up, and visually examine wastes
- flag suspicious wastes
- maintain proper records

The origin of all loads is identified prior to proceeding onto the scales and tipping

floor. All load inspections are performed at the tipping floor. The Facility Manager will train facility operations employees in waste identification procedures.

4.0 PROHIBITED OR UNAUTHORIZED WASTES

4.1 IDENTIFYING PROHIBITED WASTES

- Questioning the driver about the source of the load and the nature of generators.
- Examining product labels, especially warning labels.
- Rejecting bulk liquids in containers and sludges.
- Separating powders, granular material or materials with unusual colors for evaluation and possible rejection.
- Inspecting containers to ensure that they are empty or do not contain prohibited wastes.
- Inspecting for "hot loads" (smoldering or burning materials) emitting fumes or vapors.
- Evaluating the load for odors that are not characteristic of C&D waste.
- Inspectors should never inhale vapors from suspicious materials or containers because this may lead to injury or death.
- Searching for special items that have a high probability of containing prohibited waste:
 - transformers
 - batteries
 - filters
 - compressors (freon)
 - mechanical equipment (capacitors)
 - red bags (medical waste)
 - bags that may contain asbestos (without prior notification to the operator)
 - obvious prohibited wastes such as tires, etc.

4.2 MANAGING PROHIBITED WASTES

The results of the load inspection will identify wastes as:

- Acceptable
- Prohibited

Acceptable waste can be moved from the tipping area to the LCID disposal area or the wood waste raw material stockpile, depending on the material type. Keep in mind that the LCID materials and clean wood wastes for recycling shall always be kept separate. The inspection area should be cleaned to the extent that materials from this inspection do not impact the next load to be inspected.

Prohibited wastes detected during the inspection shall be prevented from being unloaded (if possible) and/or reloaded onto the delivery vehicle (if safe to do so) — in such cases the driver shall be advised of the hazardous waste contingency plan (see below). A contingency plan for removal/clean-up of hazardous, liquid or other unacceptable waste follows.

Refer to the HAZARDOUS WASTE CONTINGENCY PLAN (Appendix 3).

5.0 TRAINING

The management staff, equipment operators, and scale house staff will be trained in the contents of this plan. Training will address the following topics:

- Inspection of tipping area and load inspection procedures.
- Identification of hazardous wastes, PCB wastes and other prohibited wastes.
- Waste handling procedures (acceptable and prohibited wastes).
- Health and safety.
- Record keeping.

6.0 RECORD KEEPING

Records of all incoming waste should be kept by the facility — at a minimum, the date, tonnage, material type and hauler should be recorded.

Random waste screening forms and hazardous waste records, if any, shall be kept in a file at the facility office — i.e., the Operating Record — and these records shall be available for inspection at any time by Solid Waste Section compliance inspectors.

If prohibited wastes are detected requiring notification of haulers and/or regulatory agencies, records of time of notification, the agency and individuals contacted with phone numbers, and the information that was reported.

Records documenting the successful completion of training will be maintained on-site.

WASTE SCREENING FORM

Facility I.D.
Permit No.

Day / Date: _____

Time Weighed in: _____

Truck Owner: _____

Driver Name: _____

Truck Type: _____

Vehicle ID/Tag No: _____

Weight: _____

Tare: _____

Waste Generator / Source: _____

Inspection Location: _____

Reason Load Inspected:	Random Inspection	_____	Staff Initials	_____
	Detained at Scales	_____	Staff Initials	_____
	Detained by Field Staff	_____	Staff Initials	_____

Description of Load: _____

Approved Waste Determination Form Present? (Check one) Yes _____ No _____ N/A _____

Load Accepted (signature) _____ Date _____

Load Not Accepted (signature) _____ Date _____

Reason Load Not Accepted (complete below only if load not accepted) _____

Description of Suspicious Contents:	Color _____	Haz. Waste Markings _____
	Texture _____	Odor/Fumes _____
	Drums Present _____	Other _____
		(describe) _____

Est. Cu. Yds. Present in Load _____

Est. Tons Present in Load _____

Identified Hazardous Materials Present: _____

County Emergency Management Authority Contacted? Yes _____ No _____

Generator Authority Contacted? _____

Hauler Notified (check if waste not accepted)? _____ Phone _____ Time Contacted _____

Final Disposition of Load _____

Signed _____ Date _____
Solid Waste Director

Attach related correspondence to this form. File completed form in Operating Record.

Appendix 3

HAZARDOUS WASTE CONTINGENCY PLAN

1.0 HOT LOADS CONTINGENCY PLAN

In the event of a "hot" load attempting to enter the facility, the scale house staff will turn away all trucks containing waste that is suspected to be hot, unless there is imminent danger to the driver, in which case the situation will be treated as a fire — the vehicle will be isolated away from structures and other traffic and the fire department will be called. The vehicle driver will be instructed unload — if safe to do so — and to move the vehicle to a safe location. Other traffic will be redirected to another portion of the tipping area (away from the fire), or other waste deliveries may be suspended until the fire is out. Facility staff may assist the fire department (at the scene manager's direction) by smothering the fire with dirt from an on-site stockpile. If the fire cannot be controlled, the fire department will be notified and the area cleared of nonessential personnel. Once the fire is out the waste shall be inspected in accordance to the Waste Screening Plan (Appendix 2) and, if the material is deemed acceptable under the waste acceptance criteria, it will be loaded into transport vehicles. If the material is not acceptable, it will be loaded back onto the delivery vehicle and sent to an appropriate landfill.

2.0 HAZARDOUS WASTE EMERGENCIES CONTINGENCY PLAN

In the event that an obvious hazardous waste is detected at the scales or on the tipping pad, appropriate steps shall be implemented to safeguard the staff and public. Hazardous waste identification may be based on (but not limited to) the detection of strong odors, fumes or vapors, unusual colors or appearance (e.g., liquids), smoke, flame, or excess dust. All waste receipts shall be suspended and non-essential personnel cleared from the facility. The fire department will be called immediately in the event a hazardous material is detected. The waste will not be allowed to unload if hazardous waste is detected in advance of unloading.

If unloaded waste is deemed to be hazardous, an attempt will be made to isolate the wastes in a designated area where runoff is controlled, and/or personnel will be cleared from the vicinity of the waste. Staff will act prudently to protect personnel, but no attempt will be made to remove the material until trained emergency personnel (fire department or haz-mat team) arrive. A partial listing of regional **Hazardous Waste Responders** and disposal firms is found in **Appendix 3A**. These firms have the training and equipment to deal with hazardous materials, as needed. The Division of Waste Management's list of "**Useful Agencies and Contacts**" is presented in **Appendix 3B**.

The Operator will notify the Division of Waste Management regional specialist that an attempt was made to dispose of hazardous waste at the facility. If the vehicle attempting disposal of such waste is known, attempts will be made to prevent that vehicle from leaving the site until it is identified (license tag, truck number driver and/or company information) or, if the vehicle leaves the site, immediate notice will be served on the owner of the vehicle that hazardous waste, for which they have responsibility, has been disposed of at the facility. The cost of the removal and

disposing of the hazardous waste may be charged to the owner of the vehicle involved. Any vehicle owner or operator who knowingly dumps hazardous waste in the landfill may be barred from using the facility and/or reported to law enforcement authorities.

3.0 NON-EMERGENCY HAZARDOUS WASTE CONTINGENCY PLAN

Some wastes that are considered as hazardous or otherwise prohibited from the facility — even those that do not constitute an emergency — may require special handling by licensed contractors. Such materials shall be prohibited from being unloaded, if possible, and the driver of the delivery vehicle made aware of options for legal disposal (addressed below). Some hazardous materials may be inadvertently unloaded at the facility and require the services of licensed contractors, who will be sought to dispose of the prohibited materials.

Appendices 3A and 3B, found immediately following this section, provide a list of specialty waste haulers (licensed contractors) and/or disposal sites, furnished on the NC DENR Division of Waste Management web site. These firms may be contacted to dispose of hazardous materials in non-emergency situations. If the materials are not unloaded from the delivery vehicle, the driver will be furnished with the list of Hazardous Waste Responders or "Useful Contacts", and the owner of the vehicle will be responsible for appropriately disposing of the materials — this might involve isolating the vehicle on the premises until a licensed contractor can arrive, in which case steps shall be taken to prevent access by non-authorized personnel.

Should such materials be detected at the facility after unloading, the materials will be located to a holding area away from personnel and away from drainage ways, isolated to prevent contact with water or runoff (e.g., covering with tarps, surrounding the materials with absorbent booms or soil berms, as appropriate), and the appropriate licensed contractor contacted immediately. In either case (still loaded or unloaded), arrangements shall be made for the isolated materials to be removed as soon as possible.

4.0 RECORD KEEPING

State or EPA notification is required whenever a hazardous or PCB waste is detected. Records of these notifications will be kept and will include the date and time of notification, agency and individual contacted with phone numbers, and the information that was reported.

Any hazardous waste found at the facility that requires mitigation under this plan shall be documented by staff using the **Waste Screening Form** provided in **Appendix 2A**. Records of information gathered as part of the waste screening programs will be maintained throughout the operational life of the facility.

SPECIAL NOTE: The Operator of this facility is encouraged to keep a current list of Hazardous Waste Responders handy, as the firms and/or contact numbers may change over time.

Appendix 4

HAZARDOUS WASTE CONTACTS

The following contacts were taken from the NC DENR Division of Waste Management web site in early 2007; the availability and local phone numbers should be verified before a emergency, or modify this list as needed. For more information see <http://www.wastenot.org/hwhome>.

EMERGENCY RESPONSE

Clean Harbours	Reidsville, NC	336-342-6106
GARCO, Inc.	Asheboro, NC	336-683-0911
Safety-Kleen	Reidsville, NC	800-334-5953

TRANSPORTERS

ECOFLO	Greensboro, NC	336-855-7925
GARCO, Inc.	Asheboro, NC	336-683-0911
Zebra Environmental Services	High Point, NC	336-841-5276

DISPOSAL AND LANDFILLS

ECOFLO	Greensboro, NC	336-855-7925
Safety-Kleen	Reidsville, NC	800-334-5953
Zebra Environmental Services	High Point, NC	336-841-5276

USED OIL AND ANTIFREEZE

3RC Resource Recovery	Winston-Salem, NC	336-784-4300
Carolina Environmental Associates	Burlington, NC	336-299-0058
Environmental Recycling Alternatives	High Point, NC	336-869-8785

FLUORESCENT HANDLERS

3RC Resource Recovery	Winston-Salem, NC	336-784-4300
Carolina Environmental Associates	Burlington, NC	336-299-0058
ECOFLO	Greensboro, NC	336-855-7925
GARCO, Inc.	Asheboro, NC	336-683-0911
Safety-Kleen	Reidsville, NC	800-334-5953

PCB DISPOSAL

ECOFLO	Greensboro, NC	336-855-7925
GARCO, Inc.	Asheboro, NC	336-683-0911
Zebra Environmental Services	High Point, NC	336-841-5276

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Safety-Kleen	Reidsville, NC	800-334-5953

PCB DISPOSAL

ECOFLO	Greensboro, NC	336-855-7925
GARCO, Inc.	Asheboro, NC	336-683-0911
Zebra Environmental Services	High Point, NC	336-841-5276

USEFUL AGENCIES and CONTACTS			
<u>Air Permits</u> NC Div. of Air Quality 919-733-3340	Indoor <u>Air Quality</u> , US EPA Info Hotline 1-800-438-4318	<u>Asbestos</u> Environmental Epidemiology Mary Giguere 919-707-5950	<u>Customer Call Center</u> DENR 1-877-623-6748
<u>Drinking Water</u> Environmental Health Jessica Miles 919-715-3232	Safe <u>Drinking Water</u> US EPA 1-800-426-4791	Emergencies 24 hours <u>Emergency Management</u> 919-733-3300 919-733-9070 1-800-858-0368	<u>Energy Division</u> <u>Hotline</u> NC Commerce Dept. 1-800-662-7131
<u>Environmental</u> <u>Education</u> Office of Env. Education 1-800-482-8724	<u>Environmental</u> <u>Education</u> NC Cooperative Ext. Service NCSU 919-515-2770	<u>Federal Register</u> RCRA/Superfund/UST 1-800-424-9346	<u>Fluorescent Lights</u> Green lights Hotline 202-775-6650 EPA Energy Star 1-888-782-7937
<u>Freon</u> US EPA Region 4 Pam McIlvane 404-562-9197	<u>Groundwater</u> Division of Water Quality None Dedicated Soil Disposal Ted Bush 919-733-3221	<u>Hazardous Waste</u> Hazardous Waste Section 919-508-8400	<u>Household Hazardous</u> <u>Waste</u> Solid Waste Section Bill Patrakis 336-771-5091
<u>Lab Certification</u> Water Quality Jim Meyer 919-733-3908 ext. 207	<u>Land Farm</u> Division of Water Quality David Goodrich 919-715-6162	<u>Landfills</u> Solid Waste Section Division of Waste Management 919-508-8400	<u>Lead Abatement</u> Division of Public Health Jeff Dellinger 919-733-0668
Childhood <u>Lead</u> <u>Poisoning</u> Environmental Health Ed Norman 919-715-3293	National <u>Lead Info.</u> <u>Center</u> 1-800-LEAD-FYI 1-800-532-3394	<u>Medical Waste</u> Solid Waste Section Bill Patrakis 919-508-8512	<u>Oil Pollution</u> Aquifer Protection Section Debra Watts 919-715-6699
<u>OSHA-Health</u> <u>Consultations</u> NC Dept of Labor Roedreck Wilce 919-852-4379	<u>OSHA Training &</u> <u>Outreach</u> NC Dept. of Labor Joe Bailey 919-807-2891	Stratosphere <u>Ozone</u> US EPA Information Hot Line 1-800-296-1996	<u>PCBs</u> TSCA, EPA Region 4 Craig Brown 404-562-8980 TSCA Assistance Info. 202-554-1404
<u>Pesticides Disposal</u> Assistance Program NC Dept. of Agriculture Hazardous Waste Royce Batts 919-715-9023	<u>Pesticide Info. Hotline</u> 1-800-858-7378	<u>Petroleum Product</u> Soil Disposal, UST Scott Ryals 919-733-8486	<u>Pollution Prevention</u> <u>& Environmental</u> <u>Assistance</u> 919-715-6500 1-800-763-0136

<u>Public Affairs</u> , DENR Diana Kees Acting Director 919-715-4112	<u>Public Right to Know</u> Employee Right to Know OSHA, Dept. of Labor Anthony Bonapart 919-807-2846	<u>Radiation Materials</u> Radiation Protection Beverly Hall 919-571-4141	<u>Recycling Markets</u> <u>Directory</u> What Can I do with it? 919-715-6500
<u>Toxic Release Reporting</u> Emergency Planning SARA Title III Richard Berman 919-733-1361 1-800-451-1403 (24 hours)	<u>Run Off</u> Water Quality 919-733-5083	<u>Safety Hotline</u> NC Dept. Of Labor 1-800-LABOR-NC 919-807-2796	<u>Septic Tanks</u> , On-site Treatment System Environmental Health Steven Berkowitz 919-733-2895
<u>Sewer Discharges</u> Pre-Treatment Public Owned Treatment (POTW) 919-733-5083	<u>Small Business Ombudsman</u> US EPA 1-800-368-5888	<u>Spill Reporting</u> 1-800-858-0368	<u>State Operator</u> 919-733-1110
<u>Stormwater</u> , Permits Unit Water Quality 919-733-5083 1-800-858-0368	<u>Superfund</u> Federal Sites Dave Lown 919-508-8464 State Inactive Sites Charlotte Jesneck 919-508-8460	<u>Toxicology</u> <u>Env. Epidemiology</u> Occupational Surveillance 919-707-5900	<u>Transport Hazardous Waste</u> Division of Motor Vehicle (NC DOT) Sgt. T.R. Askew 919-715-8683
<u>US DOT</u> Regulations Office of Motor Carriers Chris Hartley 919-856-4378	<u>Underground Storage Tanks</u> Grover Nicholson 919-733-1300	<u>Waste Minimization</u> Pollution Prevention & Environmental Assistance 919-715-6500 1-800-763-0136	<u>Wetlands Info Hotline</u> US EPA 1-800-832-7828
North Carolina Division of Waste Management - 1646 Mail Service Center, Raleigh, NC 27699-1646 - (919) 508-8400			

Appendix 5

**SOLID WASTE MANAGEMENT FACILITY
 FIRE OCCURRENCE NOTIFICATION
 NC DENR Division of Waste Management
 Solid Waste Section**



Notify the Section verbally within 24 hours and submit written notification within 15 days of the occurrence.
(If additional space is needed, use back of this form.)

NAME OF FACILITY: _____ PERMIT # _____

DATE AND TIME OF FIRE: _____ @ _____

HOW WAS THE FIRE REPORTED AND BY WHOM:

LIST ACTIONS TAKEN:

WHAT WAS THE CAUSE OF THE FIRE:

DESCRIBE AREA, TYPE, AND AMOUNT OF WASTE INVOLVED:

WHAT COULD HAVE BEEN DONE TO PREVENT THIS FIRE:

DESCRIBE PLAN OF ACTIONS TO PREVENT FUTURE INCIDENTS:

NAME: _____ TITLE: _____ DATE: _____

 THIS SECTION TO BE COMPLETED BY SOLID WASTE SECTION REGIONAL STAFF
 DATE RECEIVED _____
 List any factors not listed that might have contributed to the fire or that might prevent occurrence of future fires:

FOLLOW-UP REQUIRED:
 NO PHONE CALL SUBMITTAL MEETING RETURN VISIT BY: _____ (DATE)

ACTIONS TAKEN OR REQUIRED:

Appendix 6

15A NCAC 13B .0560 LAND CLEARING AND INERT DEBRIS (LCID) LANDFILLS

Rules .0560 - .0566 of Title 15A Subchapter 13B of the North Carolina Administrative Code (T15A.13B .0560 - .0566); have been adopted covering the siting, design, and permitting of land clearing and inert debris landfills, effective January 4, 1993.

History Note: Authority G.S. 130A-294;
Eff. January 4, 1993.

15A NCAC 13B .0561 RESERVED FOR FUTURE CODIFICATION

15A NCAC 13B .0562 BENEFICIAL FILL

A permit is not required for beneficial fill activity that meets all of the following conditions:

- (1) The fill material consists only of inert debris strictly limited to concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
- (2) The fill activity involves no excavation.
- (3) The purpose of the fill activity is to improve land use potential or other approved beneficial reuses.
- (4) The fill activity is not exempt from, and must comply with, all other applicable Federal, State, and Local laws, ordinances, rules, and regulations, including but not limited to zoning restrictions, flood plain restrictions, wetland restrictions, mining regulations, sedimentation and erosion control regulations. Fill activity shall not contravene groundwater standards.

*History Note: Authority G.S. 130A-294;
Eff. January 4, 1993.*

15A NCAC 13B .0563 APPLICABILITY REQ. FOR LAND CLEARING/INERT DEBRIS (LCID) LANDFILLS

Management of land clearing and inert debris shall be in accordance with the State hierarchy for managing solid waste as provided for under G.S. 130A-309.04(a). Disposal in a landfill is considered to be the least desirable method of managing land clearing and inert debris. Where landfilling is necessary, the requirements of this Rule apply.

- (1) An individual permit from the Division of Solid Waste Management is not required for Land Clearing and Inert Debris (LCID) landfills that meet all of the following conditions:
 - (a) The facility is to be operated for the disposal of land clearing waste, inert debris, untreated wood, and yard trash. Operations must be consistent and in compliance with the local government solid waste management plan as approved by the Division of Solid Waste Management.
 - (b) The total disposal area is under two acres in size.
 - (c) The facility and practices comply with the siting criteria under Rule .0564, and operational requirements under Rule .0566.
 - (d) The fill activity is not exempt from, and must comply with all other Federal, State, or Local laws, ordinances, Rules, regulations, or orders, including but not limited to zoning restrictions, flood plain restrictions, wetland restrictions, sedimentation and erosion control requirements, and mining regulations.
- (2) Where an individual permit is not required, the following applies:
 - (a) The owner of the land where the landfill is located must notify the Division on a prescribed form, duly signed, notarized, and recorded as per Sub-item (2)(b) of this Rule. The operator of the landfill, if different from the land owner, shall also sign the notification form.
 - (b) The owner must file the prescribed notification form for recordation in the Register of Deeds' Office. The Register of Deeds shall index the notification in the grantor index under the name of the owner of the land in the county or counties in which the land is located. A copy of the recorded notification, affixed with the Register's seal and the date, book and page number of recording shall be sent to the Division of Solid Waste Management.
 - (c) When the land on which the Land Clearing and Inert Debris Landfill is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument a statement that the property has been used as a Land Clearing and Inert Debris Landfill and a reference by book and page to the recordation of the notification.
- (3) An individual permit is required, except for landfills subject to Item (5) of this Rule, for the construction and operation of a Land Clearing and Inert Debris (LCID) landfill when:
 - (a) The facility is to be operated for the disposal of land clearing waste, inert debris, untreated wood, and yard trash. Operations must be consistent and in compliance with the local government solid waste management plan as approved by the Division of Solid Waste Management, and
 - (b) The total disposal area is greater than two acres in size.
- (4) Individual permits for land clearing and inert debris landfills shall be issued for not more than five years.
- (5) Landfilling of land clearing and inert debris generated solely from, and within the right of way of, North Carolina Department of Transportation projects shall be subject to the following:
 - (a) Only waste types as described in Sub-item (1)(a) of this Rule may be disposed of within the Department of Transportation right of way.
 - (b) Waste is landfilled within the project right of way from which it was generated.
 - (c) The disposal area shall not exceed two contiguous acres in size.
 - (d) Disposal sites shall comply with the siting requirements of Rule .0564 of this Section except for Item (10).
 - (e) Disposal sites are not subject to the requirements of Item (2) of this Rule and Rule .0204 of this Subchapter.
- (6) Landfills that are currently permitted as demolition landfills are required to comply with the following:

- (a) Only waste types as described in Sub-item (3)(a) of this Rule may be accepted for disposal, as of the effective date of this Rule unless otherwise specified in the existing permit.
- (b) Operations must be in compliance with Rule .0566 of this Section as of the effective date of this Rule.
- (c) Existing demolition landfills must comply with the siting criteria requirements of these Rules as of January 1, 1998 or cease operations and close in accordance with these Rules.

*History Note: Authority G.S. 130A-294; 130A-301;
Eff. January 4, 1993.*

15A NCAC 13B .0564 SITING CRITERIA FOR LAND CLEARING AND INERT DEBRIS (LCID) LANDFILLS

The following siting criteria shall apply for Land Clearing and Inert Debris (LCID) landfills:

- (1) Facilities or practices, shall not be located in the 100-year floodplain.
- (2) Facilities or practices shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife.
- (3) Facilities or practices shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species as identified in 50 CFR Part 17 which is hereby incorporated by reference including any subsequent amendments and editions. This material is available for inspection at the Department of Environment, Health, and Natural Resources, Division of Solid Waste Management, 401 Oberlin Road, Raleigh, North Carolina 27605 where copies can be obtained at no cost.
- (4) Facilities or practices shall not damage or destroy an archaeological or historical site.
- (5) Facilities or practices shall not cause an adverse impact on a state park, recreation or scenic area, or any other lands included in the state nature and historic preserve.
- (6) Facilities shall not be located in any wetland as defined in the Clean Water Act, Section 404(b).
- (7) It must be shown that adequate suitable soils are available for cover, either from on or off site.
- (8) Land Clearing and Inert Debris landfills shall meet the following surface and ground water requirements:
 - (a) Facilities or practices shall not cause a discharge of pollutants into waters of the state that is in violation of the requirements of the National Pollutant Discharge Elimination System (NPDES), under Section 402 of the Clean Water Act, as amended.
 - (b) Facilities or practices shall not cause a discharge of dredged materials or fill material into waters of the state that is in violation of the requirements under Section 404 of the Clean Water Act, as amended.
 - (c) Facilities or practices shall not cause non-point source pollution of waters of the state that violates assigned water quality standards.
 - (d) Waste in landfills with a disposal area greater than two acres shall be placed a minimum of four feet above the seasonal high water table, except where an alternative separation is approved by the Division.
 - (e) Waste in landfills with a disposal area less than two acres shall be placed above the seasonal high water table.
- (9) The facility shall meet the following minimum buffer requirements:
 - (a) 50 feet from the waste boundary to all surface waters of the state as defined in G.S. 143-212.
 - (b) 100 feet from the disposal area to property lines, residential dwellings, commercial or public buildings, and wells.
 - (c) Buffer requirements may be adjusted as necessary to insure adequate protection of public health and the environment.
- (10) The facility shall meet all requirements of any applicable zoning ordinance.

*History Note: Authority G.S. 130A-294;
Eff. January 4, 1993.*

15A NCAC 13B .0565 APPLICATION REQUIREMENTS FOR LAND CLEARING/INERT DEBRIS (LCID) LANDFILLS

Five sets of plans, maps, and reports shall be required with each application. The seal of a professional engineer is required when submitting plans for a Land Clearing and Inert Debris (LCID) landfill.

- (1) The following information is required in order to review and approve the siting of a Land Clearing and Inert Debris (LCID) landfill:
 - (a) An approval letter from the unit of local government having zoning authority over the area where the facility is to be located stating that the site meets all of the requirements of the local zoning ordinance, or that the site is not zoned.
 - (b) Location on a county road map.
 - (c) Information showing that the bottom elevation of the waste shall be four feet above the seasonal high water table. Seasonal high water table elevations shall be obtained from on site test borings, test pits, or from other geological or water table investigations, studies, or reports from the immediate area of the proposed facility.
 - (d) A written report indicating that the facility shall comply with all the requirements set forth under Rule .0564 of this Section.
 - (e) A copy of the deed or other legal description of the site that would be sufficient as a description in an instrument of conveyance, showing property owner's name.
 - (f) Any other information pertinent to the suitability of the proposed facility.
- (2) The following shall be provided on a map or aerial photograph with a scale of at least one inch equals four hundred feet showing the area within one-fourth mile of the site:
 - (a) Entire property or portion thereof owned or leased by the person providing the disposal site.
 - (b) Location of all homes, buildings, public or private utilities, roads, wells, watercourses, water or other impoundments, and any other applicable features or details.
 - (c) 100-year flood plain boundaries, if any.
 - (d) Wetland boundaries, if any.
 - (e) Historical or archaeological sites, if any.
 - (f) Park, scenic, or recreation area boundaries, if any.
- (3) Development and design plans and details, at a scale of at least one inch equals one hundred feet with one inch equals forty feet preferred, and specifications containing the following information shall be submitted with the application for a proposed Land Clearing and Inert Debris (LCID) landfill:
 - (a) Property or site boundary, fully dimensioned with bearings and distances, tied to North Carolina grid coordinates where reasonably feasible.
 - (b) Easements and right-of-ways.
 - (c) Existing pertinent on site and adjacent structures such as houses, buildings, wells, roads and bridges, water and sewer utilities, septic fields, and storm drainage features.
 - (d) Proposed and existing roads, points of ingress and egress along with access control such as gates, fences, or berms.
 - (e) Buffer and set back lines along with the buffered boundary or feature.
 - (f) Springs, streams, creeks, rivers, ponds, and other waters and impoundments.
 - (g) Wetlands, if any.
 - (h) Boundary of the proposed waste area.
 - (i) Existing topography with contours at a minimum of five foot intervals. Where necessary, a smaller interval shall be utilized to clarify existing topographic conditions.
 - (j) Proposed excavation, grading, and final contours at a minimum of five foot intervals. Where necessary, a smaller interval shall be utilized to clarify proposed grading. Excavation, grading, and fill material side slopes shall not exceed three to one (3:1).
 - (k) Where on site borrow for operational and final cover is proposed, indicate the borrow excavation and grading plan with contours at a minimum of five foot intervals. Where necessary, a smaller interval shall be utilized to clarify proposed grading.
 - (l) Proposed surface water control features and devices such as slope drains, storm water pipes, inlets, culverts, and channels.
 - (m) Information showing that the project meets the requirements of 15A NCAC 4, Sedimentation Control Rules.

- (n) Location of test borings or test pits, if used to determine the seasonal high water table elevation, shall be shown on the plans.
- (o) A minimum of two cross-sections, one each along each major axis, per operational area showing:
 - (i) Original elevations.
 - (ii) Proposed excavation.
 - (iii) Proposed final elevations.
- (4) An operational plan addressing the requirements under Rule .0566 of this Section and containing the following information shall be submitted with the application for a proposed Land Clearing and Inert Debris (LCID) landfill:
 - (a) Name, address, and phone number of individual responsible for operation and maintenance of the facility.
 - (b) Projected use of the land after completion.
 - (c) Description of systematic usage of disposal area, operation, orderly development and closure of the landfill.
 - (d) Type, source, and quantity of waste to be accepted.
 - (e) An emergency contingency plan, including fire fighting procedures.

*History Note: Authority G.S. 130A-294;
Eff. January 4, 1993.*

15A NCAC 13B .0566 OPERATIONAL REQ. FOR LAND CLEARING/INERT DEBRIS (LCID) LANDFILLS

Land Clearing and Inert Debris (LCID) landfills shall meet the following operational requirements:

- (1) Operational plans shall be approved and followed as specified for the facility.
- (2) The facility shall only accept those solid wastes which it is permitted to receive.
- (3) Solid waste shall be restricted to the smallest area feasible and compacted as densely as practical into cells.
- (4) Adequate soil cover shall be applied monthly, or when the active area reaches one acre in size, whichever occurs first.
- (5) 120 calendar days after completion of any phase of disposal operations, or upon revocation of a permit, the disposal area shall be covered with a minimum of one foot of suitable soil cover sloped to allow surface water runoff in a controlled manner. The Division may require further action in order to correct any condition which is or may become injurious to the public health, or a nuisance to the community.
- (6) Adequate erosion control measures, structures, or devices shall be utilized to prevent silt from leaving the site and to prevent excessive on site erosion.
- (7) Provisions for a ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of landfill development.
- (8) The facility shall be adequately secured by means of gates, chains, berms, fences, etc. to prevent unauthorized access except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes.
- (9) Access roads shall be of all-weather construction and properly maintained.
- (10) Surface water shall be diverted from the working face and shall not be impounded over waste.
- (11) Solid waste shall not be disposed of in water.
- (12) Open burning of solid waste is prohibited.
- (13) The concentration of explosive gases generated by the facility shall not exceed:
 - (a) Twenty-five percent of the lower explosive limit for the gases in facility structures.
 - (b) The lower explosive limit for the gases at the property boundary.
- (14) Leachate shall be properly managed on site through the use of current best management practices.
- (15) Should the Division deem it necessary, ground water or surface water monitoring, or both, may be required as provided for under Rules .0601 and .0602 of this Subchapter.
- (16) A sign shall be posted at the facility entrance showing the contact name and number in case of an emergency and the permit number. The permit number requirement is not applicable for facilities not requiring an individual permit.

*History Note: Authority G.S. 130A-294;
Eff. January 4, 1993.*