Applicant Signature Page

Name of facility Currin Bros LCID Landfill No. 2

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

Signature	Print Name	April 10, 2010 Date
Owner Title	Currin Bros. Inc. Business or organization name	April 10, 2010 Date

RECEIVED
-5 2010
SOLID WASTE SECTION

SOLID WASTE SECTION PERMIT APPLICATION COMPLIANCE REVIEW REQUEST AND PERMIT FEE INVOICE REQUEST

Submit to the Field Operations Branch Head (or Compliance Officer) and to Jeff Skabo

Review Requested by:	Currin Bros.	Date Requested: 4-5-10	

Name of facility and permit number	Currin Bros LCID No. 2 Permit No. 32I LCID
Applicant (Owner) Name	Currin Bros. Inc.
Description of Permit Request	Permit Renewal
Permit Fee Action	Plan Review
Date Application Received	4/5/2010
Contact Name and Title	Allen Currin
Company	Currin Bros. Inc.
911 Address	1610 Wolfpack Lane Raleigh, NC
Mailing Address	PO Box 297
City/State/Zip	Fuquay Varina, NC
Parent Company	Currin Bros. Inc.
Known Subsidiaries	NA
Other known names business has operated under	NA
Known Counties of Operation	NA
Does the applicant have a past or current solid waste permit? If Yes:	Yes [X] No [ ] Unknown [ ] Facility Type: LCID Permit #: 32D-LCID
Does the applicant have other DENR permits? If Yes:	Yes [ ] No [ ] Unknown [X] Division: ____ Facility Type: ____ Permit #: ____
Did the permit applicant submit Financial Assurance cost estimates?	Yes [ ] No [ ] N/a [ ] Not Needed [X]
Are the cost estimates sufficient?	Yes [ ] No [ ] N/a [X]
Other notes	

CURRIN BROS., INC.

INVOICE NO.	DATE	DESCRIPTION	GROSS	DISCOUNT	NET
April 2010	4-1-10	Permit Durham Landfill #2 1810 Coley Road	500.00		500.00
VOUCHER NO. 047092		TOTALS	500.00		500.00

DETACH & RETAIN THIS PORTION FOR YOUR RECORDS

3172420
RE

HM-1277

BB&T
RALEIGH, NC 27609

66-112
531

CURRIN BROS., INC.
GRADING CONTRACTORS
BOX 547
FUQUAY - VARINA, N.C. 27526

047092

CHECK NO. 047092

DATE April 1,2010

PAY ********Five Hundred Dollars and no/100**********

PAY ****500.00****

TO THE ORDER OF N C D E N R

CURRIN BROS., INC.

C. Alan Currin

⑈047092⑈ ⑆053101121⑆0005198258514⑈

CAROLINA CUSTOM FORMS, INC. 362-4455

John A.K. Tucker, P.E.
Consulting Engineer

Letter of Transmittal

To:

NC Div of Waste Mgmt
Solid Waste Section

Date:	04/05/2010
Project:	Currin 32I-LCID
Attention:	Brian Wootton

We are sending the following:

✓	Prints	✓	Photocopies		By Mail		By UPS/FEDEX
	Originals		Shop Dwgs	✓	By Hand		By Pickup
	Disk		Other		By Email		By Fax

For your:

✓	Approval	✓	As Requested		For Your Action
	Your Use		For Review and Comment		Other (See Remarks)

Quantity	Description
2	Compliance History Review
2	Updated Operational Plan
2	Cross Sections and Approved Const Drawings
2	Zoning Letters from Durham County Zoning
1	Check in the amount of $500
1	CD with above listed data saved as pdf

Remarks:

Copy: _____

Signed: _____
John A.K. Tucker, P.E.

P.O. Box 297, Fuquay-Varina, NC 27526 (919) 567-0483 FAX (919) 567-3611 johnak@johntuckerpe.com

Durham
City
County
Planning
Department

101 City Hall Plaza
Durham, NC 27701
(919) 560-4137
Fax 560-4641

March 16, 1994

Mr. Steve Deaton
6508 Falls of Neuse Road, Suite 100
Raleigh, NC 27615

Dear Mr. Deaton:

Based upon a letter dated February 28, 1994 from Jim Barber, Eastern Area Engineer of the Division of Solid Waste Management, Department of Environmental Health and Natural Resources, I have reviewed, via a request by Allen Currin, Currin Brothers, Inc., to determine the legality of a potential site for a Land Clearing and Inert Debris (LCID) permit for property located on Coley Road and further described on Tax Map 986, Block 1, Lot 4. This location has been submitted for consideration as a permitted use under the regulations of the Rural District zoning classification in the Durham County Zoning Ordinance prior to January 1, 1994.

Prior to January 1, 1994, a Land Clearing and Inert Debris (LCID) landfill was a permitted use in Rural District under the Durham County Zoning Ordinance. Therefore, since this location on Coley Road was under active consideration before January 1, 1994 for purchase, design, and permitting the Planning Department supports the final permit application conditioned upon State approval for conformance with North Carolina Solid Waste Management Rules (15A NCAC 13); Section .0500 - Disposal Sites, Paragraphs .0563 (Applicability Requirements for Land Clearing/Inert Debris Landfills); 0564 (Siting criteria for Land Clearing/Inert Debris Landfills); .0565 (Application Requirements for Land Clearing/Inert Debris Landfills) and .0566 (Operational Requirements for Land Clearing/Inert Debris Landfills).

For your information, the merged Durham Zoning Ordinance, effective December 31, 1993 at 11:59 p.m. prohibits land clearing/inert debris landfills in the City and County of Durham Watersheds except for Jordan District B and Eno River District B areas.

If I can be of further assistance, please call me at 560-4137.

Sincerely,

Gerald E. Kelley
Assistant Director

GEK/bd

cc: Jim Barber, Eastern Area Engineer
Fayetteville Regional Office
226 Green Street, Suite 601
Fayetteville, NC 28301

Allen Currin
Currin Brothers, Inc.
P. O. Box 547
Fuquay-Varina, NC 27526

Currin Bros. LCID Landfill No. 2
Operations Manual

Durham County, NC

Owner

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

Permit Number
32I-LCID

NORTH CAROLINA PROFESSIONAL SEAL 15895 ENGINEER JOHN A.K. TUCKER

April 5, 2010

John A.K. Tucker, P.E.
Consulting Engineer
Post Office Box 297
Fuquay-Varina, North Carolina 27526
Voice (919) 567-0483
Fax (919) 567-3611

CURRIN BROS. INC.
LAND CLEARING AND INERT DEBRIS LANDFILL NO. 2
Permit No. 32I-LCID

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

Owner:

CURRIN BROS. INC
PO BOX 547
FUQUAY VARINA NC 27526

Phone 919-876-1877

Emergency Numbers:

Durham Co. Fire Department	911	Emergency
	560-0660	Non-Emergency
Durham County Emergency Mgt	560-0660	
Environmental Health Emergency Response/Hazardous Waste	856-7410	

Permit Recording

Prior to receiving land clearing and inert debris in this facility, the license shall be recorded in the Durham County Register of Deeds in accordance with GS130-66.21.

Project Use of the Facility After Closing

The site will be closed in accordance with state regulations. This will include placement of final cover (12" of soil) over the waste cells and stabilization with permanent seeding to prevent erosion. The site will eventually become a tree farm.

Types of Waste That Can Be Accepted

A portion of the facility will be permitted to receive land clearing waste, inert debris, untreated wood and yard waste. Examples of this type of waste stream include stumps, limbs, framing lumber, brick, block and uncontaminated soil.

All trucks entering the facility will be examined to ensure only permitted waste is allowed inside. Any unacceptable waste found in the facility shall be separated and disposed of in a manner consistent with NC Division of Solid Waste rules.

Access Roads

The access road shall consist of a prepared subgrade and 6" of ABC stone as an all weather surface. The road is to be inspected weekly for rutting and other signs of failure. These areas will be repaired in a timely fashion.

Dust Control

Should excessive dust be generated (visible clouds behind moving vehicles) a water truck will be used to wet down the access road and other areas.

Rock Excavation

Blasting of rock is prohibited in this facility.

At all times the facility shall be operated in accordance with the following:

Rules 15A NCAC13B - Section .0566

.0566 OPERATIONAL REQ. FOR LAND CLEARING AND INERT DEBRIS 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 areas reaches one acre in size, whichever occur 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.

Leachate Management

Since this is an "inert debris" landfill, leachate should not exist. Material which might produce leachate is prohibited from disposal in this facility.

The disposal areas will be graded in such a manner so as to prevent stormwater from ponding in the cells. The runoff will be channel by way of diversion ditches and vegetated berms to permanent riser basins. In no case will stormwater runoff be allowed to discharge directly into wetlands or streams.

Emergency Plan

Equipment used in the operation of the landfill shall be used to control accidental fires. This equipment shall include a bulldozer, track excavator and dump truck. If necessary, additional equipment will be acquired from other sources.

In the case of a fire, the following actions shall be taken:

1. Notify the Durham County Fire Department and the NC Division of Waste Management.

2. Separate the burning material from the remaining waste as soon as possible.

3. Attempt to smother the fire with soil if possible.

4. Water should be used to extinguish the fire as a last resort. Should it be necessary to use water, diversion ditches should be cut to direct the water towards the sediment basins. All efforts should be made to prevent contaminated water from flowing directly into creeks or wetland areas.

5. Follow all instructions as directed by the NC Division Waste Management.

In the case of a hazardous spill, the following actions shall be taken:

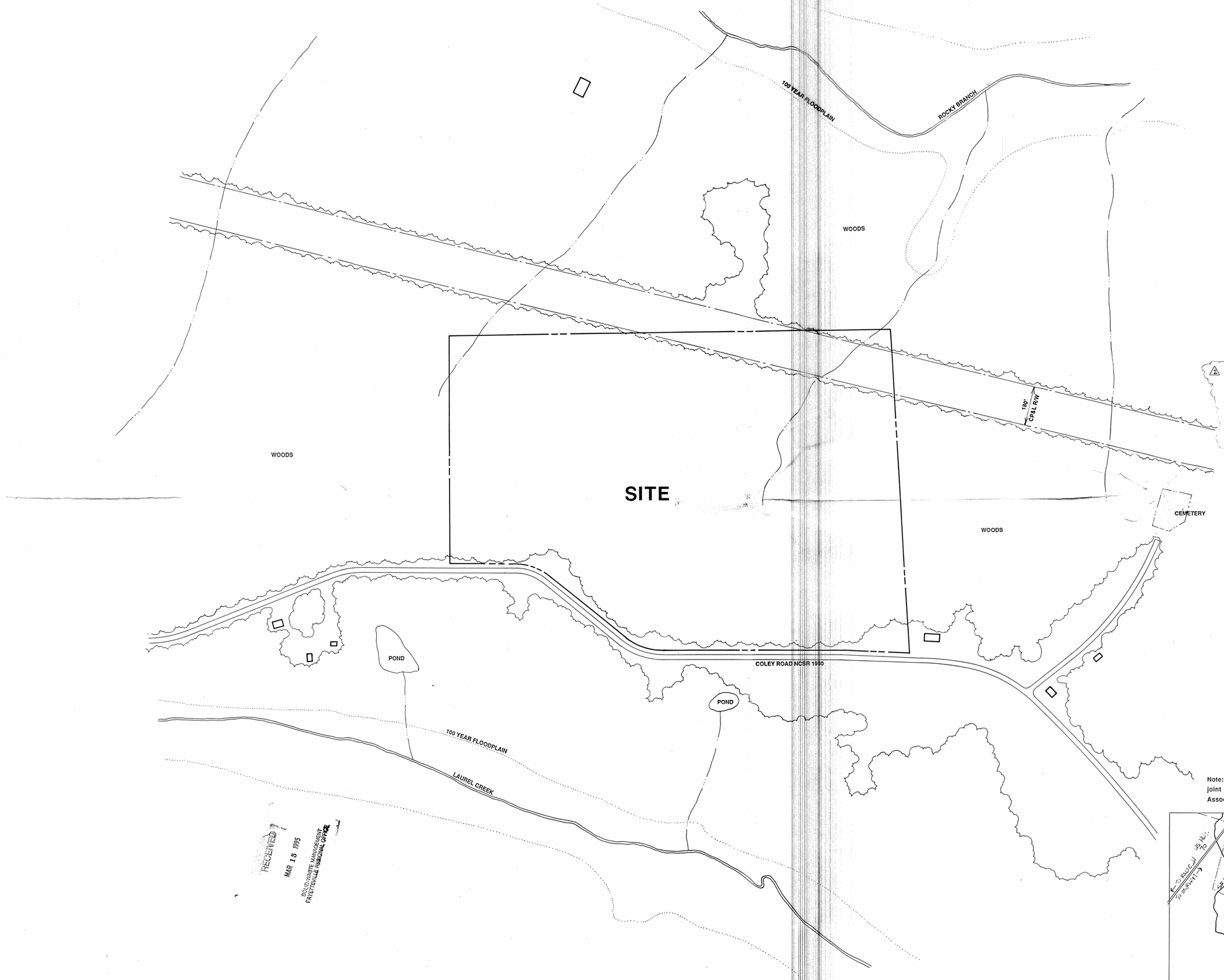
1. Notify the Durham County Emergency Management, and the NC Division of Waste Management.

2. Isolate the spilled material and wait for instructions from the Durham County Fire Department.

CONSTRUCTION SEQUENCE

1. Obtain erosion control permit from Durham County.
2. Obtain driveway permit from NCDOT.
3. Install construction entrance and **Culvert 1.**
4. Install silt fence below the basins as shown on the plans.
5. Install **Sediment Traps B and C** and diversion ditches in Areas 3 and 9.
6. Clear and grubb portions of **Areas 3 & 9** and areas for Sediment Basins.
7. Install the two riser basins using soil from Areas 3 and 9 for the construction.
8. Install **Ditches 1, 2, & 3** and Sediment Trap A along northern property line.
9. Install **Temporary Phase 1 Diversion Ditch** from Coley Road toward South Sediment Basin.
10. Call for inspection of devices by Durham County Sediment & Erosion Control inspector.
11. Clear and grub area to be initially excavated (**Area 1** and a portion of **Area 3**).
12. Excavate **Area 1** and build the berm adjacent to SR 1900 and the northern property line installing **Ditch 4** along side of berm. Maintain Positive drainage from excavation in **Areas 1 and 3** to North Sediment Basin.
13. Stabilize the exterior slope of the berm per the seeding schedule on the plans.
14. Begin fill and grade operations for **Area 1** according to the plans as approved and permitted by the State. Borrow fill from **Area 3**.
15. Clear and grub next area of operations (uncleared portion of **Area 3** and a portion of **Area 5**).
16. Excavate remaining **Area 3** and stockpile in **Area 5**.
17. Begin fill and grade operations for **Area 3** according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from **Area 5**.
18. Install **Ditches 5 & 6** during fill operations.
19. Stabilize the exterior slopes per the seeding schedule on the plans.
20. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
21. Clear and grub next area to be excavated (**Area 2** and the remainder of **Area 5**).
22. Install **Culvert 2, Ditch 10,** and inlet and outlet protections.
23. Excavate **Area 2** and build the berm adjacent to SR 1900 over Culvert 2. Maintain Positive drainage from excavation to North Sediment Basin.
24. Begin fill and grade operations for **Area 2** according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from **Area 5**.
25. As the fill is increased in the berm along Coley Road, extend **Ditch 4** along slope as shown on the plans.
26. Continue to stabilize the exterior slopes per the seeding schedule on the plans.
27. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.

28. Clear and grub next area to be excavated (uncleared portion of **Area 5, Area 4,** and a portion of **Area 6** adjacent to Area 5).
29. Begin fill and grade operations for **Area 5** according to the plans as approved and permitted by the State. Continue Fill operations for areas 2, and 3. Complete fill operations for Area 1. Borrow fill from **Area 4** and a portion of **Area 6** maintaining positive drainage to North Sediment Basin.
30. Stabilize the exterior slopes and Area 1 per the seeding schedule on the plans.
31. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
32. Clear and grub next area to be excavated (uncleared portion of **Area 6**).
33. Begin fill and grade operations for **Area 4** according to the plans as approved and permitted by the State. Continue fill operatins for Area 2. Borrow fill from **Area 6.**
34. Install remainder or **Ditch 4** and **Ditches 8 & 9.**
35. Stabilize the exterior slopes per the seeding schedule on the plans.
36. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
37. Clear and grub next area to be excavated (**Area 7**).
38. Begin fill and grade operations for **Area 6** according to the plans as approved and permitted by the State. Continue fill operations for Area 5. Conplete fill operations for Areas 2 & 4. Borrow fill from **Area 7.**
39. Stabilize the exterior slopes and Areas 2 & 4 per the seeding schedule on the plans.
40. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
41. Install **Ditch 7.**
42. Clear and grub next area to be excavated (**Area 8**).
43. Begin fill and grade operations for **Area 7** according to the plans as approved and permitted by the State. Continue fill operations for area 5 and complete operations for Area 6. Borrow fill from **Area 8.**
44. Stabilize the exterior slopes and Area 6 per the seeding schedule on the plans.
45. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
46. Install temporary diversion along clearing limits at Area 9.
47. Clear and grub remaining uncleared portion of **Area 9.**
48. Begin fill and grade operations for **Area 8** according to the plans as approved and permitted by the State. Complete fill operations for Areas 5 & 7. Borrow fill from **Area 9.**
49. Stabilize the exterior slopes and Areas 5 & 7 per the seeding schedule on the plans.
50. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
51. Renew permits as required by law. Submit plans for **Areas 9, 10, 11, & 12** before proceeding with landfill operations in these Areas.



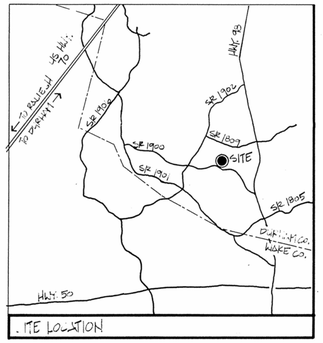
GENERAL NOTES:

1. THIS PROPERTY IS LOCATED OUTSIDE THE 100 YEAR FLOODPLAIN.
2. ACCORDING TO MAPS OF THE NATURAL HERITAGE PROGRAM, THERE ARE NO ENDANGERED OR THREATENED SPECIES OF PLANTS, FISH, OR WILDLIFE LOCATED ON, OR WITHIN 1/4 MILE OF THIS SITE. THE FACILITIES PROPOSED WILL NOT RESULT IN THE DESTRUCTION OR ADVERSE MODIFICATION OF THE CRITICAL HABITAT OF ENDANGERED OR THREATENED SPECIES.
3. ACCORDING TO THE ARCHAEOLOGICAL AND HISTORICAL PRESERVATION MAPS AND RECORDS FOR DURHAM COUNTY, THERE ARE NO ARCHAEOLOGICAL OR HISTORICAL SITES ON THIS PROPERTY, OR WITHIN 1/4 MILE OF THIS PROPERTY.
5. THERE ARE NO STATE PARKS, RECREATION OR SCENIC AREAS, OR ANY OTHER LANDS INCLUDED IN THE STATE NATURE AND HISTORIC PRESERVE WITHIN THE VICINITY OF THIS SITE.
6. WETLANDS ON THIS SITE AMOUNT TO NO MORE THAN 1/3 OF AN ACRE AS INSPECTED AND DOCUMENTED BY THE ARMY CORPS OF ENGINEERS. SEE SHEET 7 FOR CORPS NATIONWIDE PERMIT.
7. EXCAVATION SHALL BE TO A DEPTH OF NO LESS THAN FOUR FEET FROM ABOVE THE SEASONAL HIGH WATER TABLE. WELLS DRILLED IN THE VICINITY OF THIS SITE BY GOLDSTON WELL COMPANY HAVE RECORDED GROUNDWATER DEPTHS AT OVER 200' WHEN FOUND. PROPOSED EXCAVATION OF THIS SITE IS NOT EXPECTED TO ENCOUNTER ANY GROUNDWATER. MAXIMUM CUTS WILL NOT EXCEED 40 FEET. SEE SHEET 2.
8. ALL ADJACENT HOMES ARE ON PRIVATE WELLS OR CISTERNS.
9. WHERE BEDROCK IS ENCOUNTERED, CONTRACTOR SHALL MAINTAIN SOIL A MINIMUM OF 4 FEET ABOVE BEDROCK THEREBY INSURING SUBSURFACE DRAINAGE OVER BEDROCK IS MAINTAINED AND DOES NOT CONTACT DEBRIS.

RECEIVED
MAR 15 1995
SOLID WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

APPROVED
DIVISION OF SOLID WASTE MANAGEMENT
DATE 3/28/95 BY
RAL. CENTRAL FILE COPY
32-I (DURHAM)
(UT).

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.



SITE LOCATION

LITTLE & LITTLE

LANDSCAPE ARCHITECTURE / PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

SITE VICINITY

North

NORTH CAROLINA LANDSCAPE ARCHITECT SEAL 125 JACK LITTLE

Scale:
0 100' 200' 400' 600'

Date	
	30 AUGUST 1994 FOR REVIEW AND APPROVAL BY DEHNR
2	12 DECEMBER 1994 REVISED PER DEHNR COMMENTS

Sheet: 1 of Seven

Job Number:

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

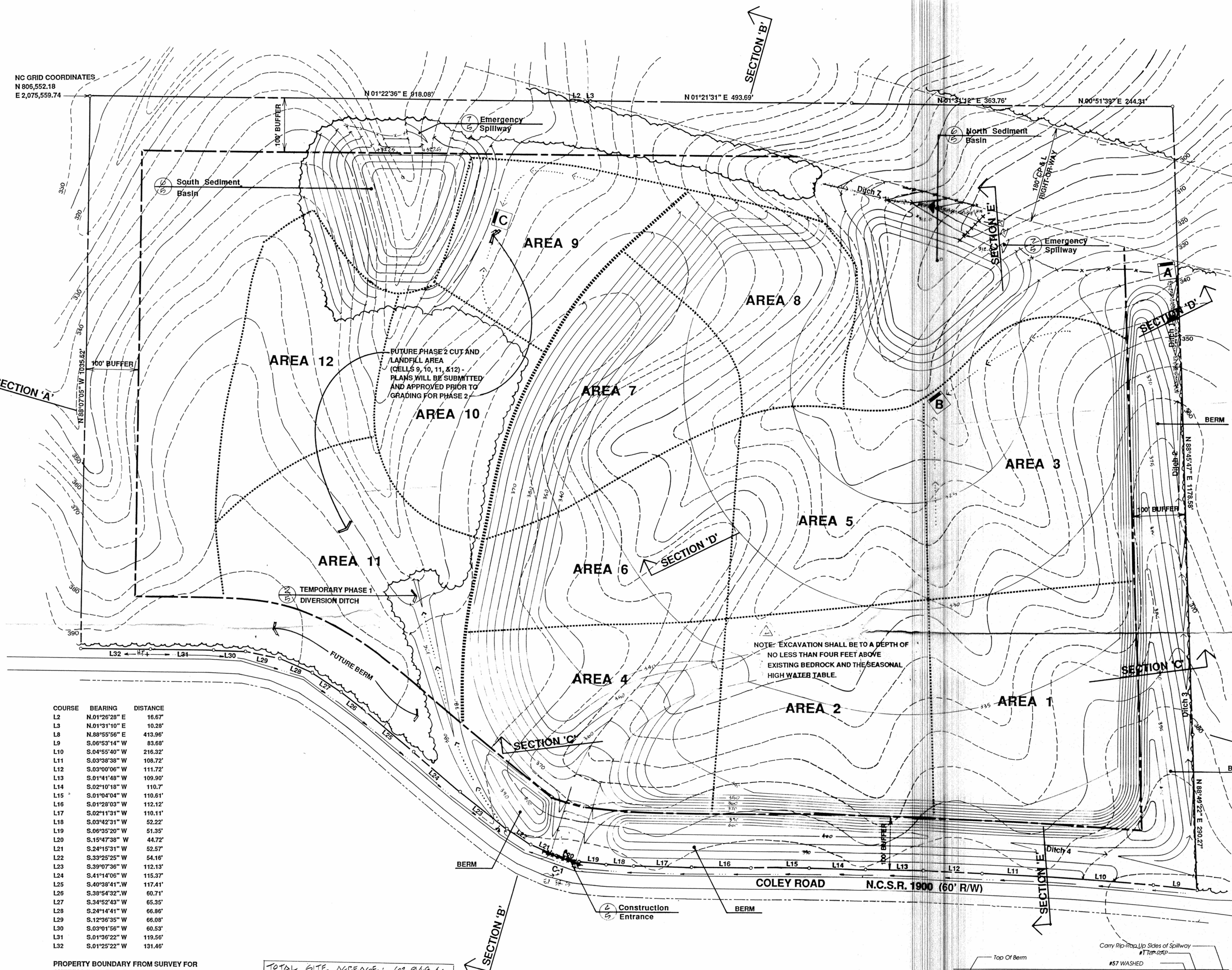
LITTLE & LITTLE

LANDSCAPE ARCHITECTURE PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

Durham County I.C.L.D. Landfill Sediment Trap/Filter Berm Schedule 10/25/94				
TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Filter Berm Top Width x Bottom Width
Trap A	2.89 Ac.	2620 Cu.Ft.	44' x 20' x 4'	15' x 9'
Trap B	2.19 Ac.	1987 Cu.Ft.	33' x 20' x 4'	15' x 9'
Trap C	1.51 Ac.	1370 Cu.Ft.	23' x 20' x 4'	15' x 9'

Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.



COURSE	BEARING	DISTANCE
L2	N.01°26'28" E	16.67'
L3	N.01°31'10" E	10.28'
L8	N.88°55'56" E	413.96'
L9	S.06°53'14" W	83.68'
L10	S.04°55'40" W	216.32'
L11	S.03°38'38" W	108.72'
L12	S.03°00'06" W	111.72'
L13	S.01°41'48" W	109.90'
L14	S.02°10'18" W	110.7'
L15	S.01°04'04" W	110.61'
L16	S.01°28'03" W	112.12'
L17	S.02°11'31" W	110.11'
L18	S.03°42'31" W	52.22'
L19	S.06°35'20" W	51.35'
L20	S.15°47'38" W	44.72'
L21	S.24°15'31" W	52.57'
L22	S.33°25'25" W	54.16'
L23	S.39°07'36" W	112.13'
L24	S.41°14'06" W	115.37'
L25	S.40°38'41".W	117.41'
L26	S.38°54'32".W	60.71'
L27	S.34°52'43" W	65.35'
L28	S.24°14'41" W	66.86'
L29	S.12°36'35" W	66.08'
L30	S.03°01'56" W	60.53'
L31	S.01°36'22" W	119.56'
L32	S.01°25'22" W	131.46'

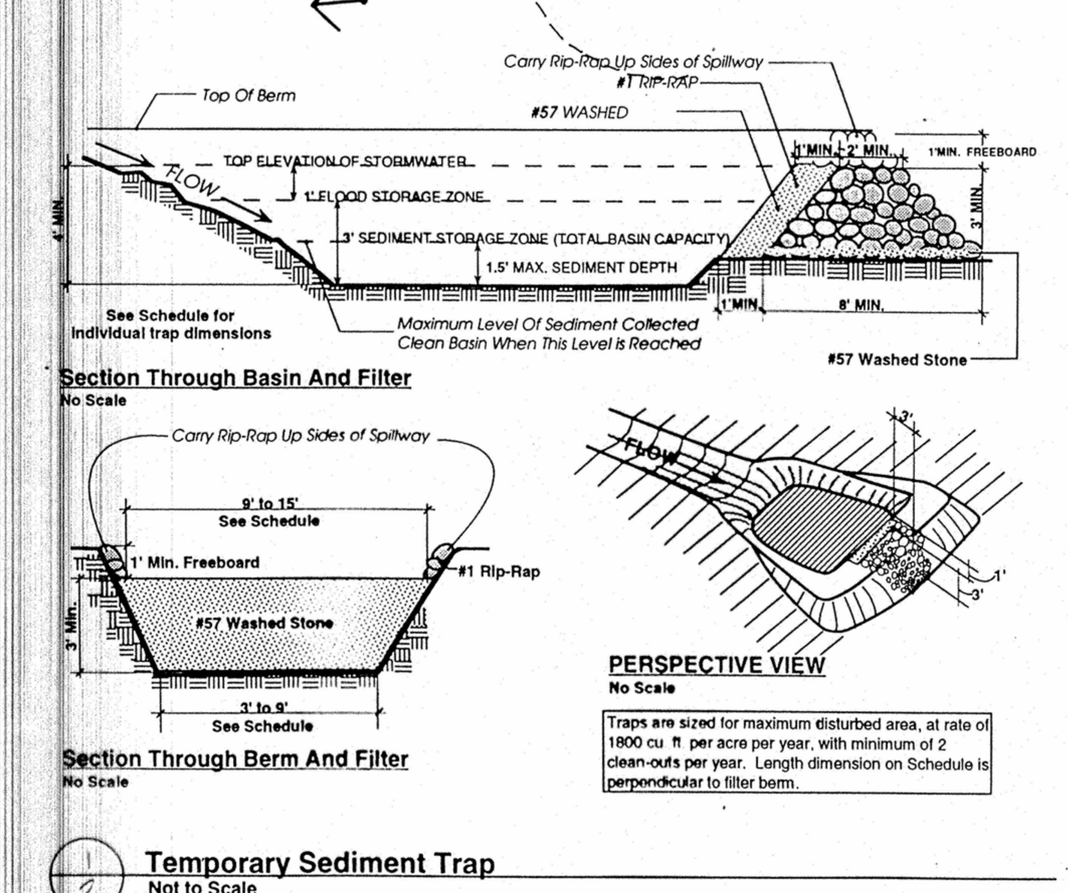
PROPERTY BOUNDARY FROM SURVEY FOR CURRIN BROS., INC., DATED JANUARY 15, 1994, BY MAULDIN-WATKINS SURVEYING, P.A. TOPO FROM USGS BAYLEAF QUADRANGLE NORTH CAROLINA 7.5 MINUTE SERIES (TOPOGRAPHIC). TOPO CONFIRMED WITH SURVEYED SECTIONS BY MAULDIN-WATKINS SURVEYING, P.A.

TOTAL SITE ACREAGE: 62.948 Ac.
TOTAL DISTURBED AREA IN PHASE ONE: 43.74 Ac. (1,905,314 SF)

Culvert #	10 Yr. Peak Q	Length x Dia. C.M.P.	Head-water Depth	Min. Slope	Max. Slope	Max. Velocity	Invert In	Invert Out	Outlet Protection (See Detail)
C-1	14.8 CFS	80' x 24" R.C.P.	1.9 Ft.	2.5%	2.5%	7.1 FPS	379.50	377.50	NCDOT Class B Riprap 22" min. thickness 6' W x 12' L

NOTES:
Research in the area has revealed little or no ground water within several hundred feet of the surface. Drill reports from Goldston Well Company are included in the project manual for documentation purposes. Proposed excavation of this site is not expected to encounter any groundwater; however, should groundwater be encountered, sufficient fill will be placed to provide a minimum of 4' between the water table and the bottom elevation of the land clearing and inert debris. In addition, where bedrock is encountered, contractor shall maintain soil a minimum of 4 feet above bedrock thereby insuring subsurface drainage over bedrock is maintained without contact with debris. 2

The operation of the LCID landfill shall be in accordance with the operational requirements as outlined under Rule .0566 of NC Solid Waste Management Rules 15A NCAC 13B as amended through January 4, 1994 as prepared by the NC Department of Environment, Health, and Natural Resources, Solid Waste Section.



Temporary Sediment Trap
Not to Scale

LEGEND

- R.C.P. PIPE
- INLET PROTECTION (6/5)
- TEMP. DIVERSION DITCH (2/5)
- PERMANENT DITCH
- SILT FENCE (6/5)
- ROCK CHECK DAM (11/5)
- SEDIMENT TRAP (1/2)

CONSTRUCTION SEQUENCE
1. Obtain erosion control permit from Durham County.
2. Obtain driveway permit from NCDOT.
3. Install construction entrance and **Culvert 1.**
4. Install silt fence below the basins as shown on the plans.
5. Install **Sediment Traps B and C** and diversion ditches in Areas 3 and 9.
6. Clear and grubb portions of Areas 3 & 9 and areas for Sediment Basins.
7. Install the two riser basins using soil from Areas 3 and 9 for the construction.
8. Install **Ditches 1, 2, & 3** and Sediment Trap A along northern property line.
9. Install **Temporary Phase 1 Diversion Ditch** from Coley Road toward South Sediment Basin.
10. Call for inspection of devices by Durham County Sediment & Erosion Control inspector.
11. Clear and grub area to be initially excavated (**Area 1** and a portion of **Area 3**).
12. Excavate **Area 1** and build the berm adjacent to SR 1900 and the northern property line installing **Ditch 4** along side of berm. Maintain Positive drainage from excavation in **Areas 1** and **3** to North Sediment Basin.
13. Stabilize the exterior slope of the berm per the seeding schedule on the plans.
14. Begin fill and grade operations for **Area 1** according to the plans as approved and permitted by the State. Borrow fill from **Area 3.**
15. Clear and grub next area of operations (uncleared portion of **Area 3** and a portion of **Area 5**).
16. Excavate remaining **Area 3 and stockpile in Area 5.**
17. Begin fill and grade operations for **Area 3** according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from **Area 5.**
18. Install **Ditches 5 & 6 during fill operations.**
19. Stabilize the exterior slopes per the seeding schedule on the plans.
20. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
21. Clear and grub next area to be excavated (**Area 2** and the remainder of **Area 5**).
22. Install **Culvert 2, Ditch 10,** and inlet and outlet protections.
23. Excavate **Area 2** and build the berm adjacent to SR 1900 over Culvert 2. Maintain Positive drainage from excavation to North Sediment Basin.
24. Begin fill and grade operations for **Area 2** according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from **Area 5.**
25. As the fill is increased in the berm along Coley Road, extend **Ditch 4** along slope as shown on the plans.
26. Continue to stabilize the exterior slopes per the seeding schedule on the plans.
27. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
28. Clear and grub next area to be excavated (uncleared portion of **Area 5, Area 4,** and a portion of **Area 6** adjacent to Area 5).
29. Begin fill and grade operations for **Area 5** according to the plans as approved and permitted by the State. Continue Fill operations for areas 2, and 3. Complete fill operations for Area 1. Borrow fill from Area 4 and a portion of Area 6 maintaining positive drainage to North Sediment Basin.
30. Stabilize the exterior slopes and Area 1 per the seeding schedule on the plans.
31. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
32. Clear and grub next area to be excavated (uncleared portion of Area 6).
33. Begin fill and grade operations for Area 4 according to the plans as approved and permitted by the State. Continue fill operatins for Area 2. Borrow fill from Area 6.
34. Install remainder or Ditch 4 and Ditches 8 & 9.
35. Stabilize the exterior slopes per the seeding schedule on the plans.
36. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
37. Clear and grub next area to be excavated (Area 7).
38. Begin fill and grade operations for Area 6 according to the plans as approved and permitted by the State. Continue fill operations for Area 5. Conplete fill operations for Areas 2 & 4. Borrow fill from Area 7.
39. Stabilize the exterior slopes and Areas 2 & 4 per the seeding schedule on the plans.
40. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
41. Install Ditch 7.
42. Clear and grub next area to be excavated (Area 8).
43. Begin fill and grade operations for Area 7 according to the plans as approved and permitted by the State. Continue fill operations for area 5 and complete operations for Area 6. Borrow fill from Area 8.
44. Stabilize the exterior slopes and Area 6 per the seeding schedule on the plans.
45. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
46. Install temporary diversion along clearing limits at Area 9.
47. Clear and grub remaining uncleared portion of Area 9.
48. Begin fill and grade operations for Area 8 according to the plans as approved and permitted by the State. Complete fill operations for Areas 5 & 7. Borrow fill from Area 9.
49. Stabilize the exterior slopes and Areas 5 & 7 per the seeding schedule on the plans.
50. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
51. Renew permits as required by law. Submit plans for Areas 9, 10, 11, & 12 before proceeding with landfill operations in these Areas.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 6507 BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

EXCAVATION PLAN

PHASE 1 - FUTURE PHASE 2

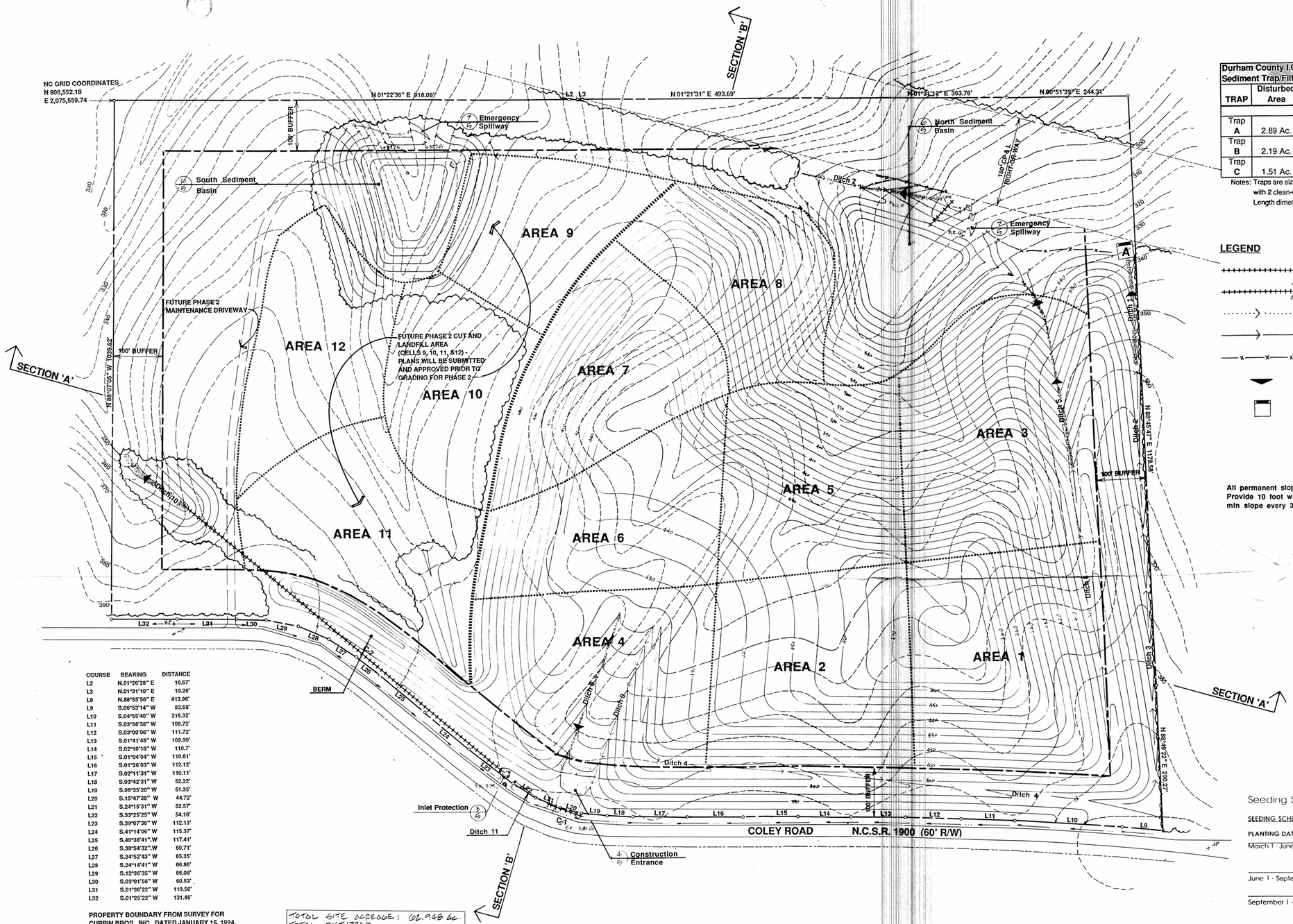
North

Scale:
0 50 100 200 300

Date
30 AUGUST 1994 FOR REVIEW AND APPROVAL BY DEHNR
1 18 NOVEMBER 1994 REVISED PER DURHAM CO. S&E REVIEW
2 12 DECEMBER 1994 PER DHENR COMMENTS

Sheet: 2 of Seven

Job Number:



COURSE	BEARING	DISTANCE
L2	N.01°26'28" E	16.67'
L3	N.01°31'10" E	10.28'
L8	N.88°55'56" E	413.96'
L9	S.06°53'14" W	83.68'
L10	S.04°55'40" W	216.32'
L11	S.03°38'38" W	108.72'
L12	S.03°00'06" W	111.72'
L13	S.01°41'48" W	109.90'
L14	S.02°10'18" W	110.7'
L15	S.01°04'04" W	110.61'
L16	S.01°28'03" W	112.12'
L17	S.02°11'31" W	110.11'
L18	S.03°42'31" W	52.22'
L19	S.06°35'20" W	51.35'
L20	S.15°47'38" W	44.72'
L21	S.24°15'31" W	52.57'
L22	S.33°25'25" W	54.16'
L23	S.39°07'36" W	112.13'
L24	S.41°14'06" W	115.37'
L25	S.40°38'41" W	117.41'
L26	S.38°54'32" W	60.71'
L27	S.34°52'43" W	65.35'
L28	S.24°14'41" W	66.86'
L29	S.12°36'35" W	66.08'
L30	S.03°01'56" W	60.53'
L31	S.01°35'22" W	119.56'
L32	S.01°25'22" W	131.46'

PROPERTY BOUNDARY FROM SURVEY FOR CURRIN BROS., INC., DATED JANUARY 15, 1994, BY MAULDIN-WATKINS SURVEYING, P.A.
TOPO FROM USGS BAYLEAF QUADRANGLE NORTH CAROLINA 7.5 MINUTE SERIES (TOPOGRAPHIC). TOPO CONFIRMED WITH SURVEYED SECTIONS BY MAULDIN-WATKINS SURVEYING, P.A.

TOTAL SITE ACREAGE: 62.968 AC.
TOTAL DISTURBED AREA IN PHASE ONE: 43.76 AC. (1,906,314 SF)

Culvert #	10 Yr. Peak Q	Length x Dia. C.M.P.	Head-water Depth	Min. Slope	Max. Slope	Max. Velocity	Invert In	Invert Out	Outlet Protection (See Detail)
C-1	14.8 CFS	80' x 24" R.C.P.	1.9 Ft.	2.5%	2.5%	7.1 FPS	379.50	377.50	NCDOT Class B Riprap 22" min. thickness 6' W x 12' L
C-2	29.8 CFS	840' x 30" R.C.P.	2.7 Ft.	2.0%	2.0%	12.8 FPS	375.30	358.50	NCDOT Class B Riprap 22" min. thickness 12' W x 160' L

A-1	B-1	C-1	L-3
A-1	B-1	C-1	L-3

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

Durham County I.C.L.D. Landfill Sediment Trap/Filter Berm Schedule				10/25/94
TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Filter Berm Top Width x Bottom Width
Trap A	2.89 Ac.	2620 Cu.Ft.	44' x 20' x 4'	15' x 9'
Trap B	2.19 Ac.	1987 Cu.Ft.	33' x 20' x 4'	15' x 9'
Trap C	1.51 Ac.	1370 Cu.Ft.	23' x 20' x 4'	15' x 9'

Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

LEGEND

- R.C.P. PIPE
- INLET PROTECTION (3/6)
- TEMP. DIVERSION DITCH (2/6)
- PERMANENT DITCH
- SILT FENCE (5/6)
- ROCK CHECK DAM (1/6)
- SEDIMENT TRAP (1/2)

All permanent slopes are 3:1 - Provide 10 foot wide bench with 2% min slope every 30 vertical feet.

Seeding Schedule and Seedbed Preparation Notes

SEEDING SCHEDULE FOR ALL GRASSED AREAS

PLANTING DATES	SEED MIX	RATES: LBS/ACRE
March 1 - June 1	Sericea lespedeza (scarified)	50
	KY-31 Fescue	120
June 1 - September 1	KY-31 Fescue	120
	Sorghum - Sudan hybrids	50
September 1 - March 1	Sericea lespedeza (unhulled; unscarified)	70
	KY-31 Fescue	120
	Abruzzi rye	25

Fertilize: seedbeds with 2 tons/acre lime and 500 lbs./acre 10-20-20

Mulch: with 2 tons/acre clean straw or hay.

Tack: with rapid setting emulsified asphalt at 10 gal./1000 sq. ft., or other tacking agent approved by Owner.

SEEDBED PREPARATION NOTES

1. Surface water control measures are to be installed according to plan.
2. Areas to be seeded shall be ripped and spread with topsoil (if available), 3" deep. Total seedbed prepared depth shall be 4" to 6" deep.
3. Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
4. If no soil test is taken, fertilizer and lime shall be according to the seeding specifications above. In addition, provide 15 lbs./1000 sq. ft. of super-phosphate.
5. If soil test is taken, provide lime and fertilizer according to the soil test report. A soil test is recommended.
6. Lime and fertilizer shall be applied uniformly and mixed with the soil during seedbed preparation.
7. WATER all seeded areas and ~~keep~~ moist until new grass is established.

Seeding Schedule and Seedbed Preparation Notes

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 6507 BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

FILL PLAN
PHASE 1

North

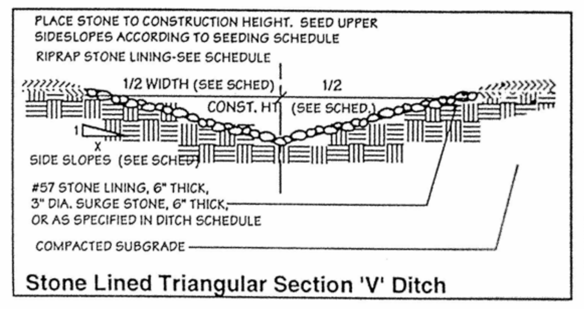
Scale: 0 50 100 200 300

NORTH CAROLINA PROFESSIONAL SEAL 12311 MACK LITTLE

Date
30 AUGUST 996 - FOR REVIEW & APPROVAL BY DEHNR
18 NOVEMBER 996 - REVISED PER DURHAM CO. G&E REVIEW
2 DECEMBER 996 - PER DEHNR COMMENTS

Sheet: 3 of Seven

Job Number:

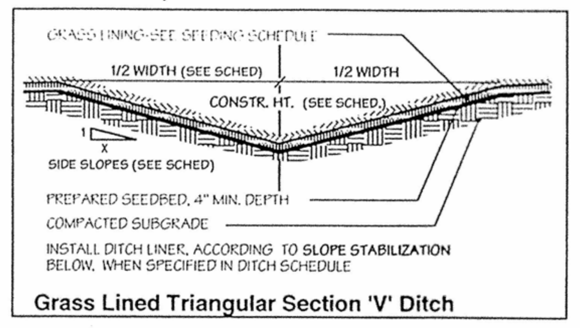


Ditch #	C-L Slope	Construction Dimensions for Triangular 'V' Ditch with Riprap Lining				Reference
		Ht. x Top W	Side Slope	Length	Lining	
# 1	8.6%	1.5' x 9'	3 to 1	200 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 5	16.6%	1.25' x 7.5'	3 to 1	560 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 2 permanent rock check dams
# 7	10.7%	1.25' x 7.5'	3 to 1	320 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 8	10.0%	1.25' x 7.5'	3 to 1	400 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 10	5.3%	2' x 12'	3 to 1	160 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam

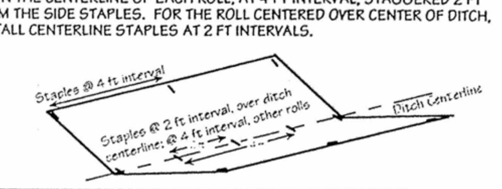
DITCH LINING SPECIFICATIONS

1. EXCAVATE TO SUFFICIENT DEPTH TO ALLOW FOR THICKNESS OF LINING.
2. WHERE D50 DIA. OF SPECIFIED (OR AVAILABLE) STONE LINING EXCEEDS 6", INSTALL 6" #57 CLEAN STONE, OR 6" OF 3" DIA. SURGE STONE, OR THICKNESS SPECIFIED IN SCHEDULE.

Stone Lined Ditches
Not to Scale

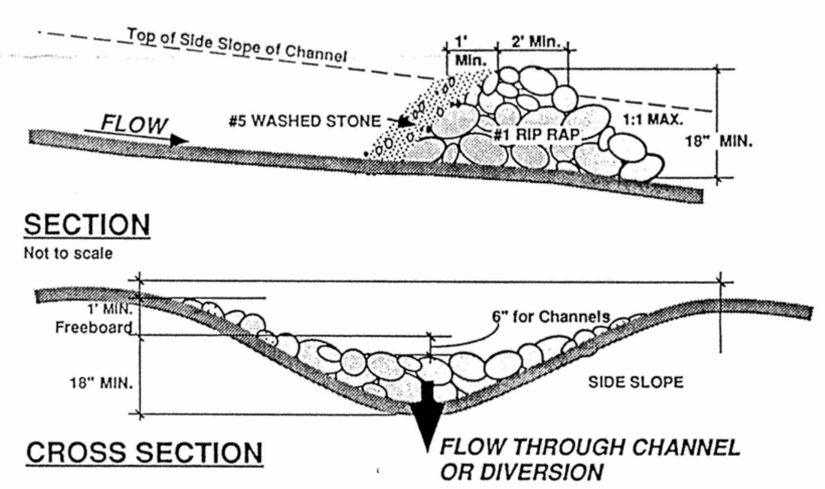


CHANNEL STABILIZATION:
PREPARE, FERTILIZE, AND SEED DITCH SIDE SLOPES ACCORDING TO SEEDING SCHEDULE. IF EXCELSIOR MATTING IS SPECIFIED, AFTER SEEDING, INSTALL (CURLEX BY AMERICAN EXCELSIOR CO. OR EQUIVALENT), ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSTALL ROLLS CENTERED LENGTHWISE IN DITCH. USE 4 STAPLES ACROSS AT THE START OF EACH ROLL. STAPLE ALONG BOTH SIDE SLOPES OF THE ROLL AT 4 FT. INTERVALS. USE A COMMON ROW OF STAPLES ON ADJOINING ROLLS. ALSO INSTALL STAPLES DOWN THE CENTERLINE OF EACH ROLL AT 4 FT INTERVAL, STAGGERED 2 FT FROM THE SIDE STAPLES. FOR THE ROLL CENTERED OVER CENTER OF DITCH, INSTALL CENTERLINE STAPLES AT 2 FT INTERVALS.

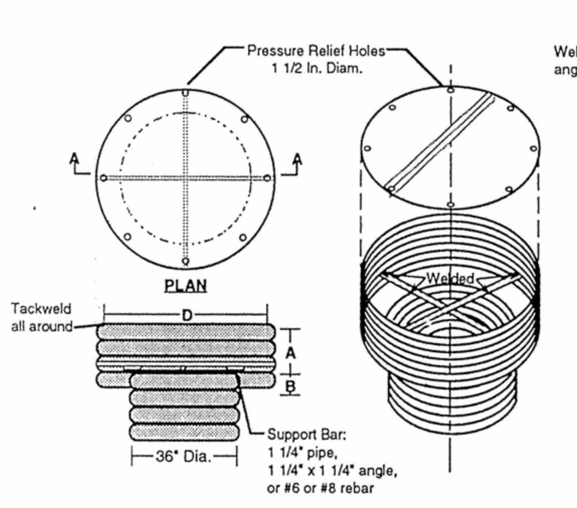


Ditch #	C-L Slope	Construction Dimensions for Triangular 'V' Ditch - Grass Lined			
		Ht. x Top W	Side Slope	Length	Lining
# 2	2.9%	2' x 12'	3 to 1	340 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 3	3.5%	2' x 12'	3 to 1	550 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 4	2.5%	2' x 12'	3 to 1	1300 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 6	2.2%	1.5' x 9'	3 to 1	620 Ft.	Grass w/ 2-4 ft. strip excelsior lining
# 9	10.0%	1' x 6'	3 to 1	400 Ft.	Grass w/ 2-4 ft. strip excelsior lining
# 11	2.0%	2' x 12'	3 to 1	110 Ft.	Grass w/ 3-4 ft. strip excelsior lining

Grass Lined Ditches
Not to Scale



ROCK CHECK DAM
Not to scale



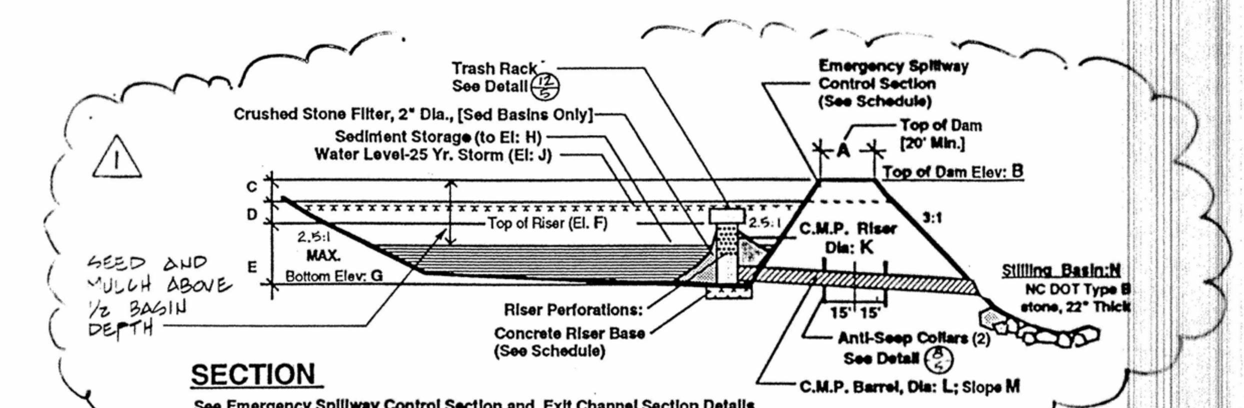
Top is 14 gauge corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when top is attached.

Cylinder is 16 gauge corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:
1. The cylinder must be firmly fastened to the top of the riser.
2. Support bars are welded to the top of the riser or attached by straps bolted to top of riser.
Refer to Pond Schedules.

Trash Rack & Anti-Vortex Device
Not to Scale

TRASH RACK	DIA.	RACK Gage	DIMENSIONS D	A	B	GAGE of TOP and Stiffener	Minimun Support Bar
North Basin	30 in.	16 g.	42 in.	15 in.	8 in.	14 g. none	#6 Rebar
South Basin	30 in.	16 g.	42 in.	15 in.	8 in.	14 g. none	#6 Rebar

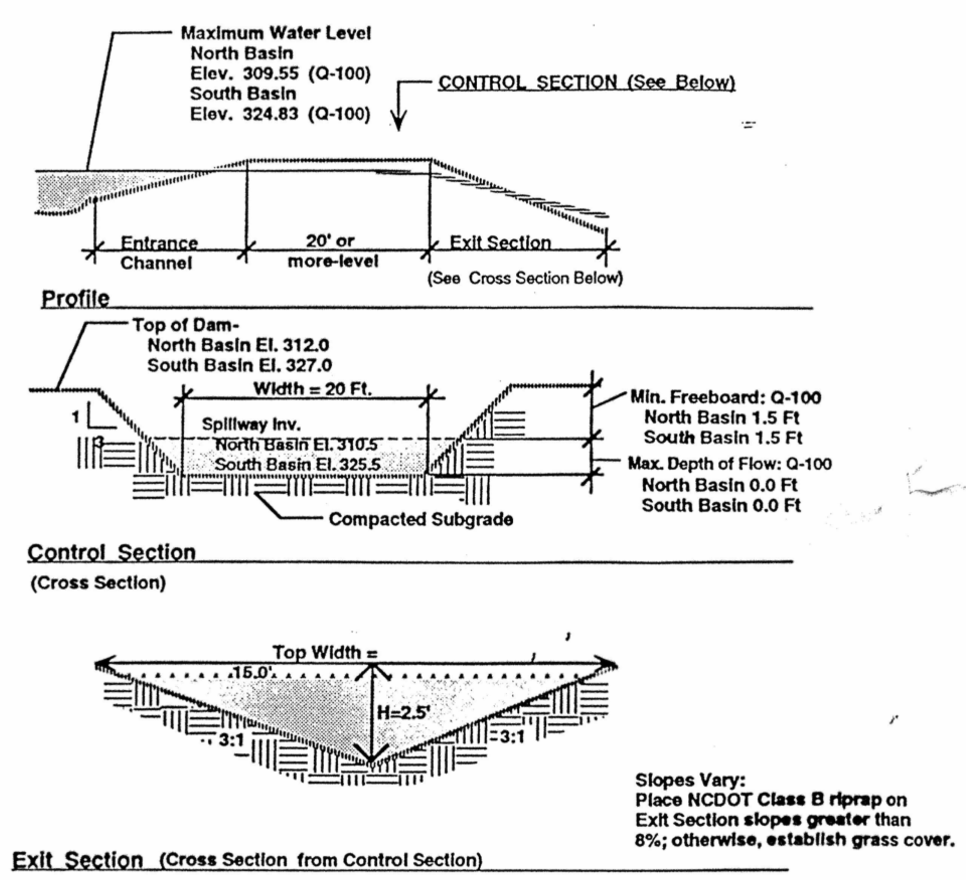


SECTION
See Emergency Spillway Control Section and Exit Channel Section Details

	Top of Dam A Top Width	B Top Elev:	Basin Dimensions C	D	E Riser Ht.	F Top of Riser El	G Bottom Elev	Maximum Capacities H Sediment Storage El.	Stormwater Runoff Storage	Basin Capacity to Riser Inv	Maximum Sediment Storage	Sediment Clean Out Level	Peak Discharge Data J 25 Yr. Storm El	Q-25 Inflow-Outflow	Q-100
North Basin	15 Ft	312.0	1.5 Ft	4.5 Ft	6.0 Ft	306.0	300.0	303.0	54,000 CuFt	81,000 CuFt	27,000 CuFt	4.25 ft fr. top trash rack	310.0	[illegible] CFS 39 CFS	124 CFS 94 CFS
South Basin	15 Ft	327.0	1.5 Ft	2.3 Ft	8.2 Ft	323.2	310.0	314.4	102,000 CuFt	119,000 CuFt	17,000 CuFt	10 ft fr. top trash rack	325.1	60 CFS 39 CFS	88 CFS 81 CFS

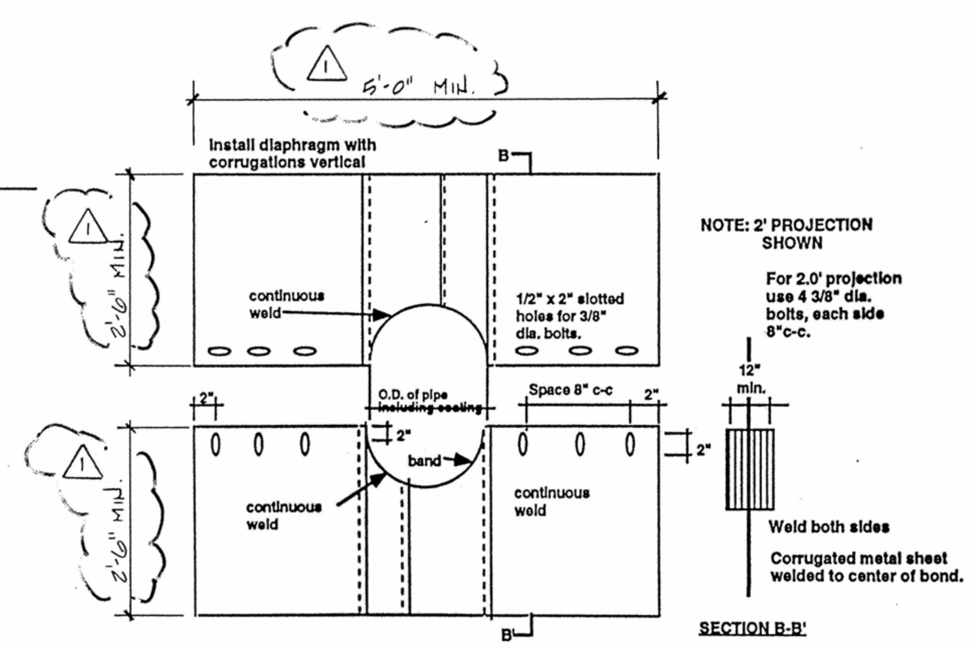
	Primary Outlet K Riser Dia.	L Barrel Dia.	M Barrel Slope	N Stilling Basin	Riser Gauge	PERFORATIONS per Row	Rows	Elev.	Imbed Riser 8" Into Base Concrete Riser Base	TRASH RACK RISER DIA.	RACK Gage	DIMENSIONS D	A		GAGE of TOP and Stiffener	Minimun Support Bar
North Basin	30 In	24 In	2.1%	6' W 15' L	14 Gauge 30" C.M.P.	21-1/2" holes 4" apart	6 rows 8" apart	301.0 304.3	3'-3" x 3'-3" 3'.0"	30 in.	16 g.	42 in.	15 in.	8 in.	14 g. none	#6 Rebar
South Basin	30 In	24 In	1.7%	6' W 15' L	14 Gauge 30" C.M.P.	21-1/2" holes 4" apart	6 rows 8" apart	315.5 318.8	3'-8" x 3'-8" 3'.0"	30 in.	16 g.	42 in.	15 in.		14 g. none	#6 Rebar

Sediment Basin
Not to Scale



EMERGENCY SPILLWAY
NO SCALE

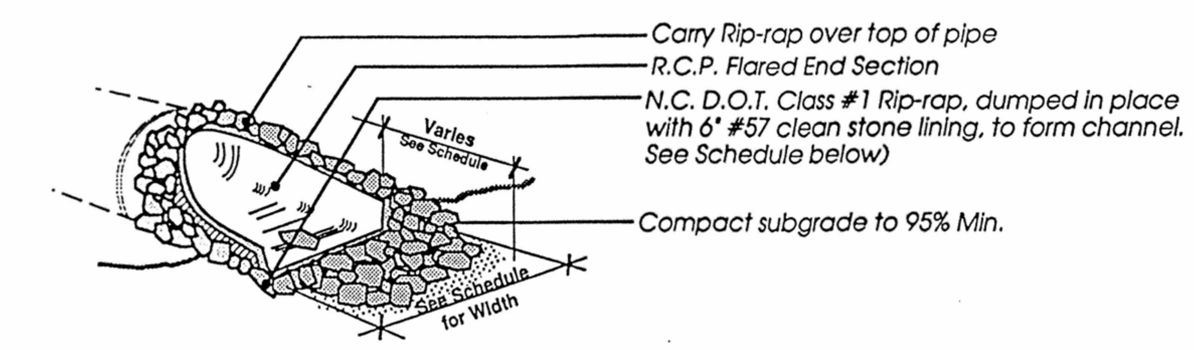
Rev. 10-28-94



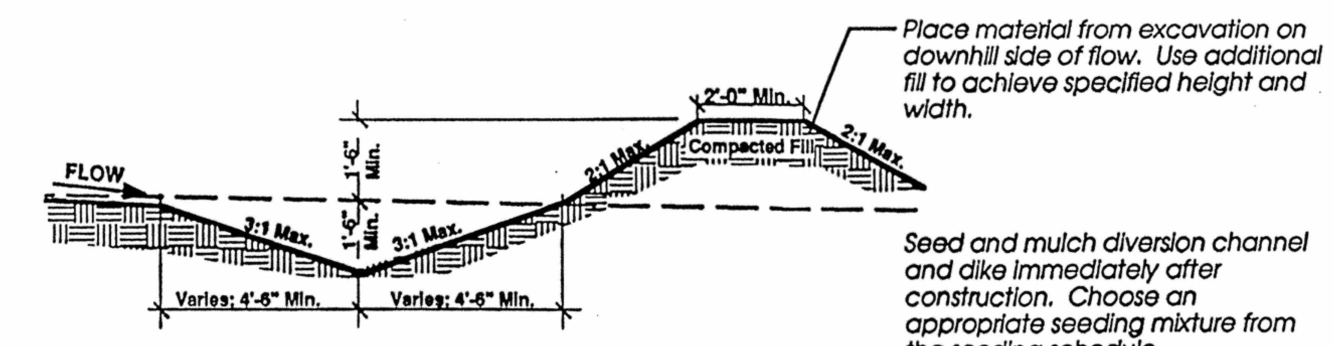
NOTES FOR DIAPHRAGM:

1. All material to be in accordance with construction and construction materials specifications.
2. When specified on the plans, coating shall be in accordance with construction and construction material specifications.
3. Unassembled diaphragms shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each diaphragm shall be furnished with two 1/2" dia. rods with standard tank lugs for connecting diaphragms to pipe.

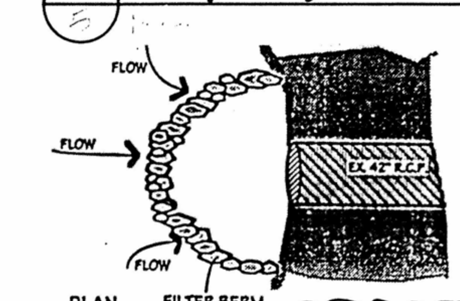
Anti-Seep Collar
No Scale



Outlet Protection

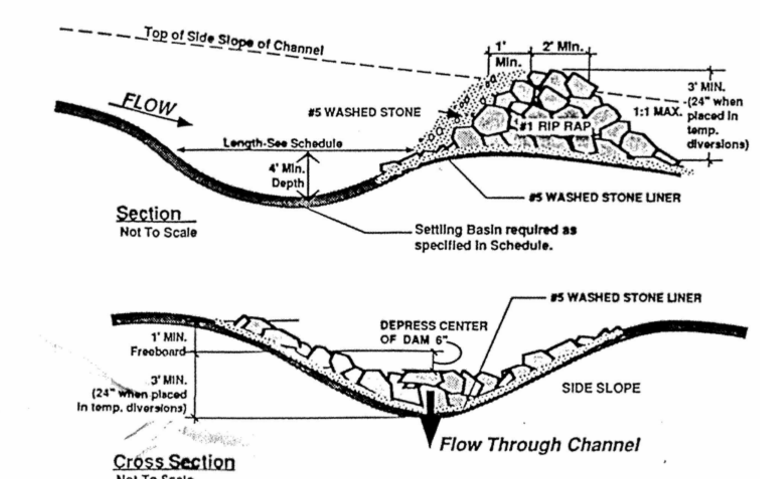


Temporary Diversion

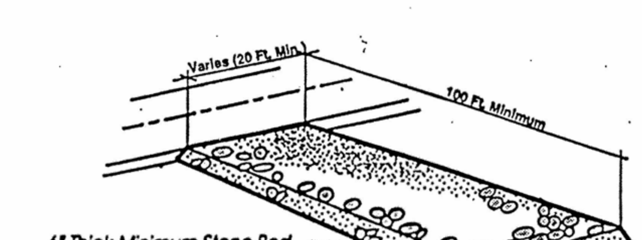


Durham County I.C.L.D. Landfill 10/25/94 Inlet Protection Sediment Trap Schedule TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Filter Berm Top Width x Bottom Width
Trap 1	4.97 Ac.	4510 Cu.Ft.	75' x 20' x 4'	15' x 9'

Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

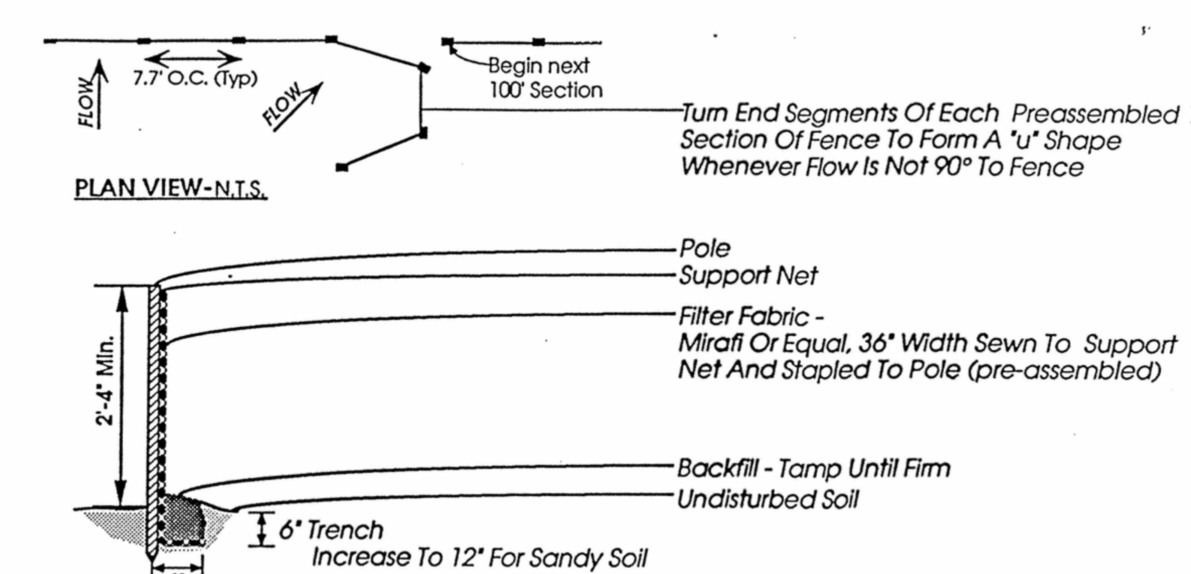


'U-Shaped' Rock Check Dam: Culvert Inlet
N.T.S.



Stone size: A.S.T.M. D448 Size #1 (1-1/2" to 3-1/2" Diameter)
Note: May require periodic top dressing with 2" stone

Construction Entrance
N.T.S.



Note: Fence Illustrated Is Celanese Mirafi Envirafence. Other Types/ Brands May Be Used Subject To Approval By Landscape Architect.

Silt Fence

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE · PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

Details

North

NORTH CAROLINA LANDSCAPE ARCHITECT MACK LITTLE

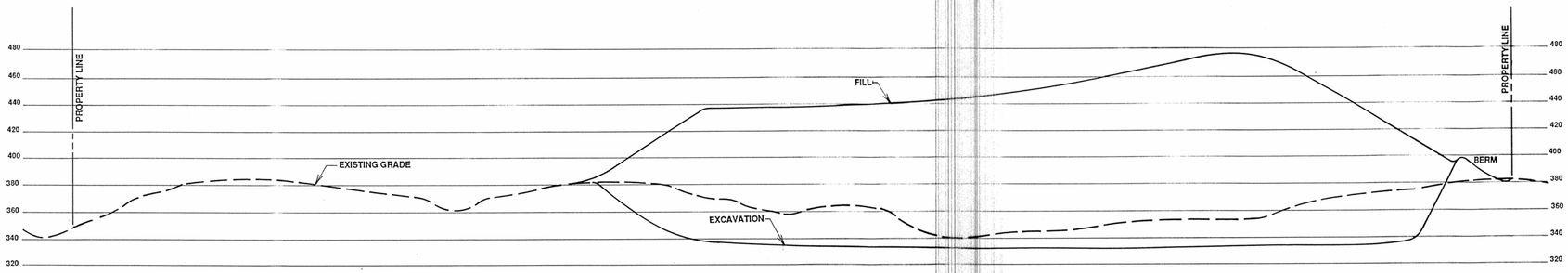
Scale:
0

Date
30 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR
18 NOVEMBER 1994 - REVISED PER DURHAM CO. S&E REVIEW
12 DECEMBER 1994 PER DEHNR COMMENTS

Sheet: 5 of Seven

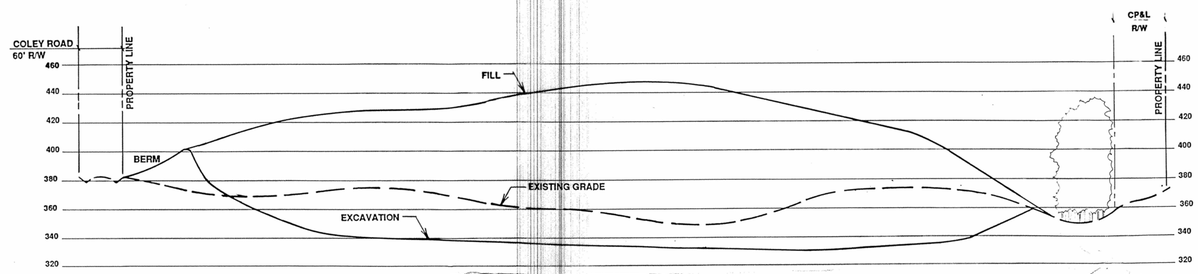
Job Number:

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.



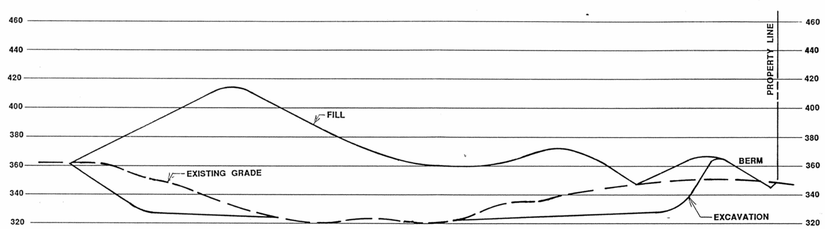
SECTION 'A'

SCALE: HORIZONTAL: 1"=100' / VERTICAL: 1"=50'



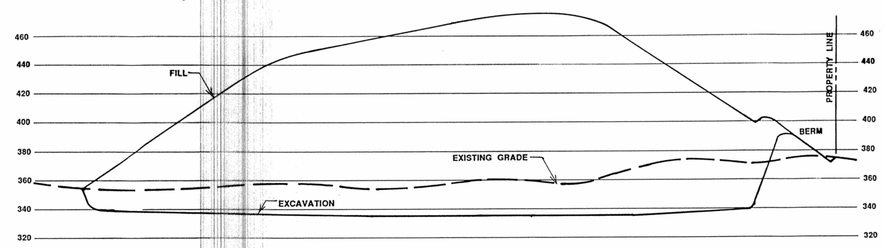
SECTION 'B'

SCALE: HORIZONTAL: 1"=100' / VERTICAL: 1"=50'



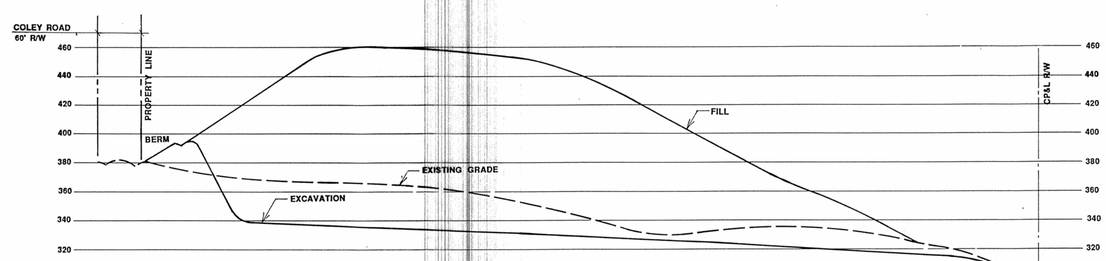
SECTION 'D'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'



SECTION 'C'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'



SECTION 'E'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'

LITTLE & LITTLE

LANDSCAPE ARCHITECTURE / PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER J. BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

LANDFILL SECTIONS

North

Scale:

0

NORTH CAROLINA PROFESSIONAL SEAL 3024 LANDSCAPE ARCHITECT JACK LITTLE

Date
30 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR
12 DECEMBER 1994 - PER DEHNR COMMENTS

Sheet: 6 of Seven

Job Number:

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action ID._____ County Durham

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Property Owner/Agent Currin Bros, Inc. c/o Allen Currin
Address 1610 Wolfpack Lane
Raleigh, N.C. 27609
Telephone No. (919) 876-1138
Size and Location of project (waterbody, road name/number, town, etc.) 62.948 acres on W side of Coley Rd. (S.R. 1900), about 2,500 ft. N of S.R. 1902, E of Durham, about 1/2 mile W of Durham/Wake County line, N.C.
Description of Activity
Construction of sediment basins + filling of less than 1/3 of an acre of creek channels (no wetlands on site).

✓ Section 404 (Clean Water Act, 33 USC 1344) only.
___ Section 10 (River and Harbor Act of 1899) only.
___ Section 404 and Section 10.
21a Regional General Permit or Nationwide Permit Number.

Any violation of the conditions of the Regional General or Nationwide Permit referenced above may subject the permittee to a stop work order, a restoration order, and/or appropriate legal action.

This Department of the Army Regional General/Nationwide Permit verification does not relieve the undersigned permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. The permittee may need to contact appropriate State and local agencies before beginning work.

By signature below, the permittee certifies an understanding and acceptance of all terms and conditions of this permit.

Property Owner/Authorized Agent Signature Currin Bros. Inc. By: C Allen Currin
Regulatory Project Manager Signature Joann B. Moorwood
Date May 26, 1994 Expiration Date May 26, 1996

SURVEY PLATS, FIELD SKETCH, WETLAND DELINEATION FORM, ETC., MUST BE ATTACHED TO THE YELLOW (FILE) COPY OF THIS FORM, IF REQUIRED OR AVAILABLE.

CESAW Form 591
Dec 1993

North Carolina Department of Cultural Resources

James B. Hunt Jr., Governor
Betty Ray McCain, Secretary

Division of Archives and History
William S. Price, Jr., Director

August 3, 1994

J. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

Re: Inert debris landfill, Durham County
ER 95-7098

Dear Mr. Otten:

Thank you for your letter of July 14, 1994, concerning the above project.

We have conducted a review of the project and are aware of no properties of architectural, historic, or archaeological significance which would be affected by the project. Therefore, we have no comment on the project as currently proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act of 1966 and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106, codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763.

Sincerely,

David Brook
David Brook
Deputy State Historic Preservation Officer

DB:slw

109 East Jones Street • Raleigh, North Carolina 27601-2807

Durham City County Planning Department

101 City Hall Plaza
Durham, NC 27701
(919) 560-4137
Fax 560-4541

March 16, 1994

Mr. Steve Deaton
6508 Falls of Neuse Road, Suite 100
Raleigh, NC 27615

Dear Mr. Deaton:

Based upon a letter dated February 28, 1994 from Jim Barber, Eastern Area Engineer of the Division of Solid Waste Management, Department of Environmental Health and Natural Resources, I have reviewed, via a request by Allen Currin, Currin Brothers, Inc., to determine the legality of a potential site for a Land Clearing and Inert Debris (LCID) permit for property located on Coley Road and further described on Tax Map 986, Block 1, Lot 4. This location has been submitted for consideration as a permitted use under the regulations of the Rural District zoning classification in the Durham County Zoning Ordinance prior to January 1, 1994.

Prior to January 1, 1994, a Land Clearing and Inert Debris (LCID) landfill was a permitted use in Rural District under the Durham County Zoning Ordinance. Therefore, since this location on Coley Road was under active consideration before January 1, 1994 for purchase, design, and permitting the Planning Department supports the final permit application conditioned upon State approval for conformance with North Carolina Solid Waste Management Rules (15A NCAC 13); Section .0500 - Disposal Sites, Paragraphs .0563 (Applicability Requirements for Land Clearing/Inert Debris Landfills); 0564 (Siting criteria for Land Clearing/Inert Debris Landfills); .0565 (Application Requirements for Land Clearing/Inert Debris Landfills) and .0566 (Operational Requirements for Land Clearing/Inert Debris Landfills).

Mr. Steve Deaton
March 16, 1994
Page 2

For your information, the merged Durham Zoning Ordinance, effective December 31, 1993 at 11:59 p.m. prohibits land clearing/inert debris landfills in the City and County of Durham Watersheds except for Jordan District B and Eno River District B areas.

If I can be of further assistance, please call me at 560-4137.

Sincerely,

Gerald E. Kelley
Assistant Director

GEK/bd

cc: Jim Barber, Eastern Area Engineer
Fayetteville Regional Office
226 Green Street, Suite 601
Fayetteville, NC 28301

Allen Currin
Currin Brothers, Inc.
P. O. Box 547
Fuquay-Varina, NC 27526

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Parks & Recreation

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Dr. Philip K. McKnelly, Director

DEHNR

July 29, 1994

Mr. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

SUBJECT: Rare Species and Significant Natural Areas in the Proposed Project Area Near Falls Lake in Durham County, NC

Dear Mr. Otten:

The North Carolina Natural Heritage Program does not have records of known rare species, high quality natural communities, or significant natural areas occurring at the proposed project site. To our knowledge, this project area has not been systematically inventoried and we cannot definitively state that rare species or significant natural areas do not occur there.

This project site is located on Rocky Branch which flows into Falls Lake State Park. Because this project site occurs along Rocky Branch, we recommend that erosion and siltation control measures be taken to reduce impacts to Falls Lake.

Located adjacent to the northwestern portion of the project site is a parcel of land that belongs to Falls Lake State Park. Also, located less than 0.5 mile north of this site is a significant natural area referred to as Lick Creek Bottomland Forest. This site is a Registered Natural Heritage Area and is considered to be of Regional Significance. Located at this registered area is a population of Cardamine douglassii (Douglass's bittercress) which is significantly rare in North Carolina. Due to its proximity, it is possible that this species may also occur at the project site.

Enclosed is a list of rare species that are known to occur in Durham County. If suitable habitat for any of these species occurs in the project area, then those species may be present at the project site. If it is necessary to be certain that this site does not contain rare species, a field survey would need to be conducted.

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-4181 FAX 919-715-3085
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Mr. Otten
Page 2
July 28, 1994

Please contact me at the address below or call me at (919) 733-7701 if you have any questions or need further information.

Sincerely,

Inge Smith
Inge Smith
Information Specialist
Natural Heritage Program

/iks

Enclosures

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Parks & Recreation

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Dr. Philip K. McKnelly, Director

DEHNR

October 13, 1994

OCT 19 1994
LITTLE & LITTLE

Mr. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

SUBJECT: Rare Species and Significant Natural Areas in the Proposed Project Area Near Falls Lake in Durham County, NC

Dear Mr. Otten:

The North Carolina Natural Heritage Program answered an information request from you on July 29, 1994 about a project site on Rocky Branch, near Falls Lake State Park. In this response, reference was made to a population of Cardamine douglassii (Douglass's bittercress), a significantly rare plant in North Carolina, that occurs about 0.5 mile from the project site.

Due to this population's proximity to the project site, it is possible that this species may occur at there. This plant usually occurs in bottomlands and rich lower slopes, which apparently are not present at the project site. We do not require that a survey be conducted for this species. However, we do recommend that erosion and siltation control measures be taken to reduce impacts to Rocky Branch and Falls Lake State Park.

Please contact me at the address below or call me at (919) 733-7701 if you have any questions or need further information.

Sincerely,

Inge Smith
Inge Smith
Information Specialist
Natural Heritage Program

/iks

Enclosures

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Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

LITTLE & LITTLE

LANDSCAPE ARCHITECTURE / PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

APPROVALS

North

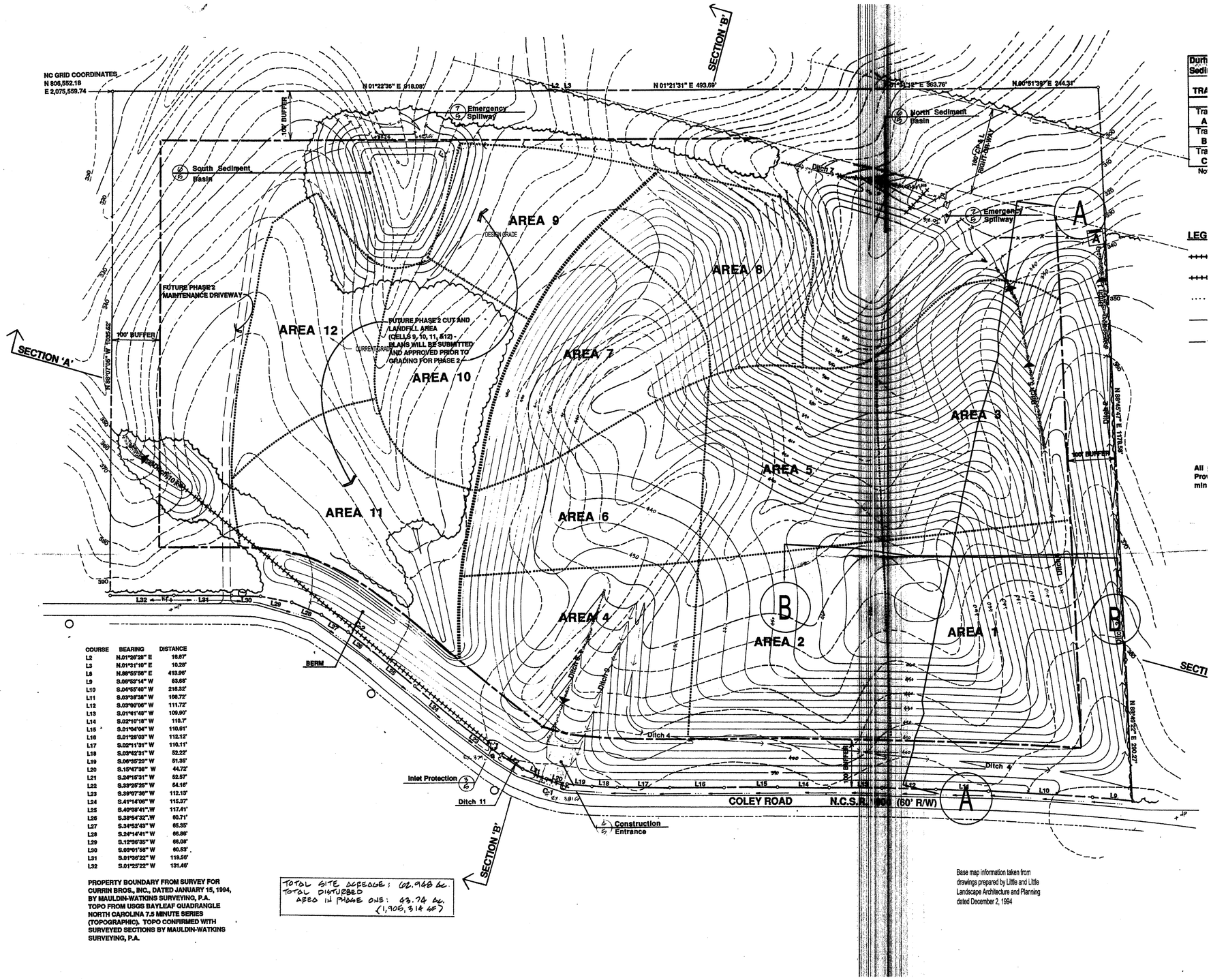
NORTH CAROLINA INDEPENDENT ... MACK LITTLE

Scale:
0

Date
30 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR
12 DECEMBER 1996 PER DEHNR COMMENTS

Sheet: 7 of Seven

Job Number:



COURSE	BEARING	DISTANCE
L2	N.01°26'28" E	10.67'
L3	N.01°31'10" E	10.28'
L8	N.88°55'56" E	413.96'
L9	S.06°52'14" W	83.68'
L10	S.04°55'40" W	216.32'
L11	S.03°38'38" W	108.72'
L12	S.03°00'06" W	111.72'
L13	S.01°41'48" W	109.90'
L14	S.02°10'18" W	110.7'
L15	S.01°04'06" W	110.61'
L16	S.01°26'03" W	112.12'
L17	S.02°11'31" W	110.11'
L18	S.03°42'31" W	52.22'
L19	S.06°35'20" W	51.35'
L20	S.15°47'36" W	44.72'
L21	S.24°15'31" W	62.57'
L22	S.33°25'25" W	54.16'
L23	S.39°07'36" W	112.13'
L24	S.41°14'06" W	115.37'
L25	S.40°38'41".W	117.41'
L26	S.38°54'32".W	60.71'
L27	S.34°52'43" W	65.35'
L28	S.24°14'41" W	66.86'
L29	S.12°36'35" W	66.08'
L30	S.03°01'58" W	60.53'
L31	S.01°36'22" W	119.56'
L32	S.01°25'22" W	131.46'

PROPERTY BOUNDARY FROM SURVEY FOR CURRIN BROS., INC., DATED JANUARY 15, 1994, BY MAULDIN-WATKINS SURVEYING, P.A. TOPO FROM USGS BAYLEAF QUADRANGLE NORTH CAROLINA 7.5 MINUTE SERIES (TOPOGRAPHIC). TOPO CONFIRMED WITH SURVEYED SECTIONS BY MAULDIN-WATKINS SURVEYING, P.A.

TOTAL SITE ACREAGE: 68.948 ac.
TOTAL DISTURBED AREA IN PHASE ONE: 43.74 ac. (1,906,314 sf)

Base map information taken from drawings prepared by Little and Little Landscape Architecture and Planning dated December 2, 1994

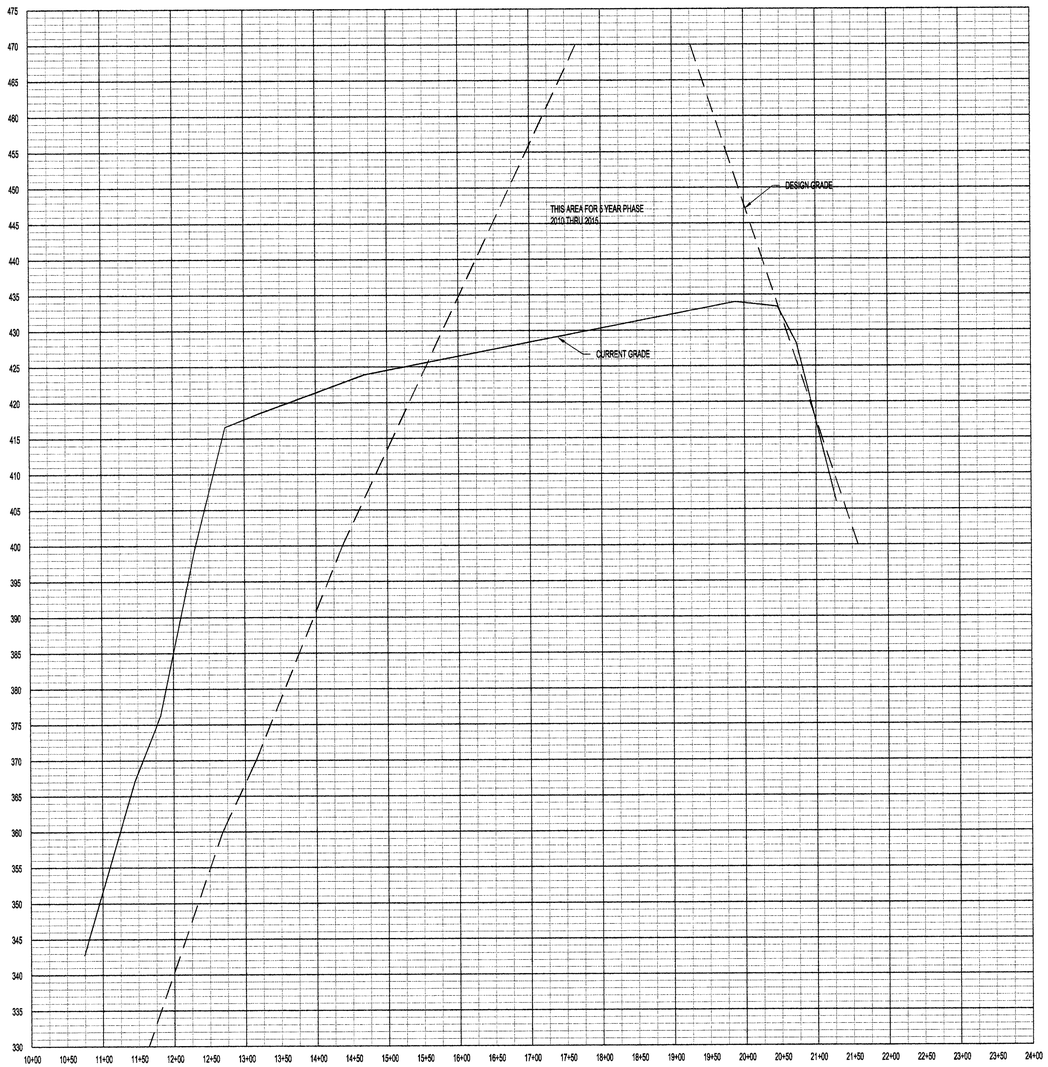
John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0463 fax (919) 567-3611
Email: johnatk@johnatkcenpe.com

APRIL 5, 2010

Currin Bros., Inc.
P.O. Box 547
Fuquay Varina, NC 27526

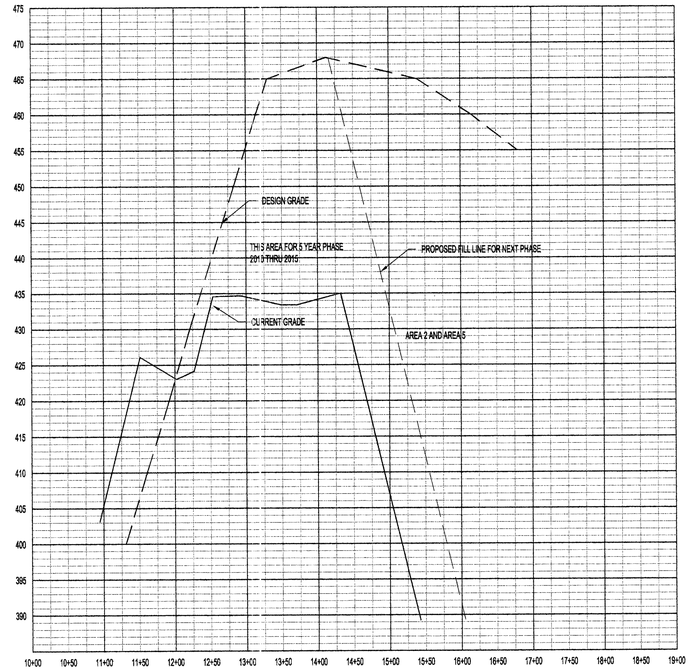
Currin Bros. Inc. LCID Landfill No. 2
Permit No. 32I-LCID
Base Map

REVISIONS



PROFILE - SECTION A-A

SCALE 1" = 100' H
1" = 10' V



PROFILE - SECTION B-B

SCALE 1" = 100' H
1" = 10' V

John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3611
Email: johnak@johntuckerpe.com

APRIL 5, 2010

Currin Bros., Inc.
P.O. Box 547
Fuquay Varina, NC 27526

Currin Bros. Inc. LCID Landfill No. 2
Permit No. 32I-LCID
Cross Sections

REVISIONS